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

## METALS

**PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221**

**JACOBS ENGINEERING GROUP, INC.**

**412 Mt. Kemble Ave**

**Downtown Building**

**Morristown, NJ - 07960**

**Phone No: 9732670555**

**ORDER ID : Q1711**

**ATTENTION : John Ynfante**

**Laboratory Certification ID # 20012**

Table Of Contents for Q1711


1) METALS DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) Sample Data 13

- 9.1) MW-18B-56-040225 14
- 9.2) MW-17B-55-040225 15
- 9.3) EB01-040225 16
- 9.4) MW-17B-55-040225 17
- 9.5) EB01-040225 18
- 9.6) MW-18B-56-040225 19

10) METALS CALIBRATION DATA 20

- 10.1) Initial and Continuing Calibration Verification 21
- 10.2) CRDL Standard For AA & ICP 29
- 10.3) Initial and Continuing Calibration Blank Summary 30
- 10.4) Preparation Blank Summary 36
- 10.5) Interference Check Sample 37

11) METALS QC DATA 39

- 11.1) Matrix Spike Summary 40
- 11.2) Post Digest Spike Summary 44
- 11.3) Duplicate Sample Summary 46
- 11.4) Laboratory Control Sample Summary 50
- 11.5) Internal Standard Relative Intensity Summary8A 51
- 11.6) Internal Standard Relative Intensity Summary8B 57
- 11.7) ICP Serial Dilutions 63

12) METALS PREPARATION & INSTRUMENT DATA 65

13) PREPARATION & ANALYTICAL SUMMARY 66

- 13.1) Sample Preparation Summary 67
- 13.2) Analysis Run Log 68

14) METALS RAW DATA 70

- 14.1) METALS RAW DATA - ANALYTICAL 71

14.2) LB135315 71
14.3) LB135332 296
14.4) METALS RAW DATA - PREP 564
14.4.1) PB167465 564
15) Analytical Runlogs 567
16) Standard Prep Logs 572
17) Shipping Document 717
17.1) Chain Of Custody 718
17.2) ROC 720
17.3) Lab Certificate 723
17.4) Internal COC 724

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Fax : 908 789 8922

# Cover Page

**Order ID :** Q1711

**Project ID :** Former Schlumberger STC PTC Site D3868221

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1711-01 | MW-18B-56-040225 |
| Q1711-02 | MW-18B-56-040225MS |
| Q1711-03 | MW-18B-56-040225MSD |
| Q1711-04 | MW-17B-55-040225 |
| Q1711-07 | RMW-05B-89-040225 |
| Q1711-08 | EB01-040225 |
| Q1711-10 | TB01-040225 |
| Q1711-12 | MW-17B-55-040225 |
| Q1711-13 | EB01-040225 |
| Q1711-14 | MW-18B-56-040225 |
| Q1711-15 | MW-18B-56-040225MS |
| Q1711-16 | MW-18B-56-040225MSD |

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

Signature : _____ Date: 4/14/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**JACOBS Engineering Group, Inc.**
**Project Name: Former Schlumberger STC PTC Site D3868221**
**Project # N/A**
**Chemtech Project # Q1711**
**Test Name: Metals Group4,Dissolved ICP-Group2**

**A. Number of Samples and Date of Receipt:**
12 Water samples were received on 04/02/2025.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Metals Group4, SVOC-SIMGroup1, TDS, VOC-TRACE-SFAM and VOCMS Group3. This data package contains results for Metals Group4,Dissolved ICP-Group2.

**C. Analytical Techniques:**
The analysis of Dissolved ICP-Group2,Metals Group4 was based on method 6020B and digestion based on method 3010 (waters).

**D. QA/ QC Samples:**

The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate (MW-18B-56-040225DUP) analysis met criteria for all samples except for Manganese due to sample matrix interference.
The Matrix Spike (MW-18B-56-040225MS) analysis met criteria for all samples except for Arsenic and Potassium due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (MW-18B-56-040225MSD) analysis met criteria for all samples except for Arsenic due to Chemical Interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

Sample Q1711-01, Q1711-04, Q1711-08 were analyze as Total Metal and Sample Q1711-12, Q1711-13, Q1711-14 were analyze as Dissolved Metal.
Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

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

Signature_____

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Tel. 908-789-8900 Fax: 908-789-8922

# DATA REPORTING QUALIFIERS- INORGANIC

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

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

## METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1711 MATRIX: Water

METHOD: 6020B

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Calibration Summary met criteria. | | | ✓ |
| 2. | ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. | Serial Dilution Summary (if applicable) Submitted. | | | ✓ |
| 4. | Laboratory Control Sample Summary (if applicable) Submitted. | | | ✓ |
| 5. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria | | ✓ | |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| | The Matrix Spike (MW-18B-56-040225MS) analysis met criteria for all samples except for Arsenic and Potassium due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (MW-18B-56-040225MSD) analysis met criteria for all samples except for Arsenic due to Chemical Interference during Digestion Process. | | | |
| 7. | Sample Duplicate Analysis Met QC Criteria | | ✓ | |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| | The Duplicate (MW-18B-56-040225DUP) analysis met criteria for all samples except for Manganese due to sample matrix interference. | | | |
| 8. | Digestion Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |
| 9. | Analysis Holding Time Met | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |

ADDITIONAL COMMENTS:

Sample Q1711-01, Q1711-04, Q1711-08 were analyze as Total Metal and Sample Q1711-12, Q1711-13, Q1711-14 were analyze as Dissolved Metal.

**METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)**

NA NO YES

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

_____ _____

QA REVIEW Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q1711

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

**QA Review Signature:** SOHIL JODHANI **Date:** 04/14/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1711 | **OrderDate:** | 4/3/2025 10:00:00 AM |
| **Client:** | JACOBS Engineering Group, Inc. | **Project:** | Former Schlumberger STC PTC Site D3868221 |
| **Contact:** | John Ynfante | **Location:** | I41,L21,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1711-01** | **MW-18B-56-040225** | **Water** | | | **04/02/25** | | | **04/02/25** |
| | | | Metals Group4 | 6020B | | 04/04/25 | 04/04/25 | |
| **Q1711-04** | **MW-17B-55-040225** | **Water** | | | **04/02/25** | | | **04/02/25** |
| | | | Metals Group4 | 6020B | | 04/04/25 | 04/04/25 | |
| **Q1711-08** | **EB01-040225** | **Water** | | | **04/02/25** | | | **04/02/25** |
| | | | Metals Group4 | 6020B | | 04/04/25 | 04/04/25 | |
| **Q1711-12** | **MW-17B-55-040225** | **Water** | | | **04/02/25** | | | **04/02/25** |
| | | | Dissolved ICP-Group2 | 6020B | | 04/04/25 | 04/07/25 | |
| **Q1711-13** | **EB01-040225** | **Water** | | | **04/02/25** | | | **04/02/25** |
| | | | Dissolved ICP-Group2 | 6020B | | 04/04/25 | 04/07/25 | |
| **Q1711-14** | **MW-18B-56-040225** | **Water** | | | **04/02/25** | | | **04/02/25** |
| | | | Dissolved ICP-Group2 | 6020B | | 04/04/25 | 04/07/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1711 **Order ID:** Q1711

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : MW-18B-56-040225** | | | | | | | | |
| Q1711-01 | MW-18B-56-040225 | Water | Aluminum | 1470 | | 1.94 | 20.0 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Antimony | 1.67 | J | 0.11 | 2.00 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Arsenic | 0.85 | J | 0.089 | 1.00 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Barium | 119 | | 0.21 | 10.0 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Chromium | 0.58 | J | 0.21 | 2.00 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Iron | 560 | | 7.81 | 50.0 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Magnesium | 315 | J | 19.5 | 500 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Manganese | 4.19 | | 0.43 | 1.00 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Potassium | 23000 | | 36.4 | 500 | ug/L |
| Q1711-01 | MW-18B-56-040225 | Water | Sodium | 20000 | | 128 | 500 | ug/L |
| **Client ID : MW-17B-55-040225** | | | | | | | | |
| Q1711-04 | MW-17B-55-040225 | Water | Aluminum | 64.1 | | 1.94 | 20.0 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Antimony | 0.31 | J | 0.11 | 2.00 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Arsenic | 0.83 | J | 0.089 | 1.00 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Barium | 388 | | 0.21 | 10.0 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Iron | 5600 | | 7.81 | 50.0 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Magnesium | 7420 | | 19.5 | 500 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Manganese | 450 | | 0.43 | 1.00 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Potassium | 7500 | | 36.4 | 500 | ug/L |
| Q1711-04 | MW-17B-55-040225 | Water | Sodium | 6460 | | 128 | 500 | ug/L |
| **Client ID : EB01-040225** | | | | | | | | |
| Q1711-08 | EB01-040225 | Water | Aluminum | 6.98 | J | 1.94 | 20.0 | ug/L |
| Q1711-08 | EB01-040225 | Water | Lead | 0.44 | J | 0.21 | 1.00 | ug/L |
| **Client ID : MW-17B-55-040225** | | | | | | | | |
| Q1711-12 | MW-17B-55-040225 | Water | Iron | 5190 | | 7.81 | 50.0 | ug/L |
| **Client ID : EB01-040225** | | | | | | | | |
| Q1711-13 | EB01-040225 | Water | Iron | 11.9 | J | 7.81 | 50.0 | ug/L |
| **Client ID : MW-18B-56-040225** | | | | | | | | |
| Q1711-14 | MW-18B-56-040225 | Water | Iron | 40.3 | J | 7.81 | 50.0 | ug/L |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 04/02/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 04/02/25 |
| Client Sample ID: | MW-18B-56-040225 | SDG No.: | Q1711 |
| Lab Sample ID: | Q1711-01 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1470 | | 1 | 1.94 | 20.0 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-36-0 | Antimony | 1.67 | J | 1 | 0.11 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-38-2 | Arsenic | 0.85 | JN | 1 | 0.089 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-39-3 | Barium | 119 | | 1 | 0.21 | 10.0 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-41-7 | Beryllium | 0.32 | U | 1 | 0.32 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-43-9 | Cadmium | 0.34 | U | 1 | 0.34 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-47-3 | Chromium | 0.58 | J | 1 | 0.21 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-50-8 | Copper | 0.30 | U | 1 | 0.30 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7439-89-6 | Iron | 560 | | 1 | 7.81 | 50.0 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7439-92-1 | Lead | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7439-95-4 | Magnesium | 315 | J | 1 | 19.5 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7439-96-5 | Manganese | 4.19 | * | 1 | 0.43 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-09-7 | Potassium | 23000 | N | 1 | 36.4 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7782-49-2 | Selenium | 2.90 | U | 1 | 2.90 | 5.00 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |
| 7440-23-5 | Sodium | 20000 | | 1 | 128 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 15:46 | SW6020 | 3010A |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 04/02/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 04/02/25 |
| Client Sample ID: | MW-17B-55-040225 | SDG No.: | Q1711 |
| Lab Sample ID: | Q1711-04 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 64.1 | | 1 | 1.94 | 20.0 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-36-0 | Antimony | 0.31 | J | 1 | 0.11 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-38-2 | Arsenic | 0.83 | JN | 1 | 0.089 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-39-3 | Barium | 388 | | 1 | 0.21 | 10.0 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-41-7 | Beryllium | 0.32 | U | 1 | 0.32 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-43-9 | Cadmium | 0.34 | U | 1 | 0.34 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-47-3 | Chromium | 0.21 | U | 1 | 0.21 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-50-8 | Copper | 0.30 | U | 1 | 0.30 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7439-89-6 | Iron | 5600 | | 1 | 7.81 | 50.0 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7439-92-1 | Lead | 0.21 | U | 1 | 0.21 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7439-95-4 | Magnesium | 7420 | | 1 | 19.5 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7439-96-5 | Manganese | 450 | * | 1 | 0.43 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-09-7 | Potassium | 7500 | N | 1 | 36.4 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7782-49-2 | Selenium | 2.90 | U | 1 | 2.90 | 5.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |
| 7440-23-5 | Sodium | 6460 | | 1 | 128 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 16:18 | SW6020 | 3010A |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 04/02/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 04/02/25 |
| Client Sample ID: | EB01-040225 | SDG No.: | Q1711 |
| Lab Sample ID: | Q1711-08 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6.98 | J | 1 | 1.94 | 20.0 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-36-0 | Antimony | 0.11 | U | 1 | 0.11 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-38-2 | Arsenic | 0.089 | UN | 1 | 0.089 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-39-3 | Barium | 0.21 | U | 1 | 0.21 | 10.0 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-41-7 | Beryllium | 0.32 | U | 1 | 0.32 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-43-9 | Cadmium | 0.34 | U | 1 | 0.34 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-47-3 | Chromium | 0.21 | U | 1 | 0.21 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-50-8 | Copper | 0.30 | U | 1 | 0.30 | 2.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7439-89-6 | Iron | 7.81 | U | 1 | 7.81 | 50.0 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7439-92-1 | Lead | 0.44 | J | 1 | 0.21 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7439-95-4 | Magnesium | 19.5 | U | 1 | 19.5 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7439-96-5 | Manganese | 0.43 | U* | 1 | 0.43 | 1.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-09-7 | Potassium | 36.4 | UN | 1 | 36.4 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7782-49-2 | Selenium | 2.90 | U | 1 | 2.90 | 5.00 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |
| 7440-23-5 | Sodium | 128 | U | 1 | 128 | 500 | ug/L | 04/04/25 12:05 | 04/04/25 16:21 | SW6020 | 3010A |

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

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 04/02/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 04/02/25 |
| Client Sample ID: | MW-17B-55-040225 | SDG No.: | Q1711 |
| Lab Sample ID: | Q1711-12 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 5190 | | 1 | 7.81 | 50.0 | ug/L | 04/04/25 12:05 | 04/07/25 13:24 | SW6020 | 3010A |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Dissolved Metals Group3 | | | | |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 04/02/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 04/02/25 |
| Client Sample ID: | EB01-040225 | SDG No.: | Q1711 |
| Lab Sample ID: | Q1711-13 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 11.9 | J | 1 | 7.81 | 50.0 | ug/L | 04/04/25 12:05 | 04/07/25 13:27 | SW6020 | 3010A |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Dissolved Metals Group3 | | | | |

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

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 04/02/25 |
| Project: | Former Schlumberger STC PTC Site D3868221 | Date Received: | 04/02/25 |
| Client Sample ID: | MW-18B-56-040225 | SDG No.: | Q1711 |
| Lab Sample ID: | Q1711-14 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 40.3 | J | 1 | 7.81 | 50.0 | ug/L | 04/04/25 12:05 | 04/07/25 13:30 | SW6020 | 3010A |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |

Comments: Dissolved Metals Group3

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

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

# METAL CALIBRATION DATA

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 477 | 500 | 95 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Antimony | 206 | 200 | 103 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Arsenic | 207 | 200 | 103 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Barium | 103 | 100 | 103 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Beryllium | 104 | 100 | 104 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Cadmium | 107 | 100 | 107 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Chromium | 102 | 100 | 102 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Copper | 93.7 | 100 | 94 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Iron | 2110 | 2000 | 106 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Lead | 189 | 200 | 95 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Magnesium | 1110 | 1200 | 93 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Manganese | 90.8 | 100 | 91 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Potassium | 2020 | 2000 | 101 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Selenium | 216 | 200 | 108 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |
| | Sodium | 1950 | 2000 | 98 | 90 - 110 | P | 04/04/2025 | 14:58 | LB135315 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV | Aluminum | 20.5 | 20.0 | 102 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Antimony | 2.10 | 2.0 | 105 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Arsenic | 1.13 | 1.0 | 113 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Barium | 9.98 | 10.0 | 100 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Beryllium | 1.18 | 1.0 | 118 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Cadmium | 0.99 | 1.0 | 99 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Chromium | 2.13 | 2.0 | 106 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Copper | 1.93 | 2.0 | 96 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Iron | 58.6 | 50.0 | 117 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Lead | 0.98 | 1.0 | 98 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Magnesium | 512 | 500 | 102 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Manganese | 0.99 | 1.0 | 99 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Potassium | 519 | 500 | 104 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Selenium | 5.36 | 5.0 | 107 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |
| | Sodium | 516 | 500 | 103 | 80 - 120 | P | 04/04/2025 | 15:17 | LB135315 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 49300 | 50000 | 99 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Antimony | 483 | 500 | 97 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Arsenic | 497 | 500 | 100 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Barium | 2490 | 2500 | 100 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Beryllium | 510 | 500 | 102 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Cadmium | 467 | 500 | 93 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Chromium | 498 | 500 | 100 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Copper | 4790 | 5000 | 96 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Iron | 125000 | 125000 | 100 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Lead | 2520 | 2500 | 101 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Magnesium | 242000 | 250000 | 97 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Manganese | 4860 | 5000 | 97 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Potassium | 124000 | 125000 | 99 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Selenium | 475 | 500 | 95 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| | Sodium | 246000 | 250000 | 98 | 90 - 110 | P | 04/04/2025 | 15:30 | LB135315 |
| CCV02 | Aluminum | 49300 | 50000 | 99 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Antimony | 497 | 500 | 99 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Arsenic | 495 | 500 | 99 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Barium | 2460 | 2500 | 98 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Beryllium | 511 | 500 | 102 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Cadmium | 478 | 500 | 96 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Chromium | 498 | 500 | 100 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Copper | 4760 | 5000 | 95 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Iron | 126000 | 125000 | 101 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Lead | 2520 | 2500 | 101 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Magnesium | 249000 | 250000 | 100 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Manganese | 4840 | 5000 | 97 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Potassium | 126000 | 125000 | 101 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Selenium | 470 | 500 | 94 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| | Sodium | 248000 | 250000 | 99 | 90 - 110 | P | 04/04/2025 | 16:10 | LB135315 |
| CCV03 | Aluminum | 48800 | 50000 | 98 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Antimony | 484 | 500 | 97 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Arsenic | 487 | 500 | 97 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Barium | 2410 | 2500 | 96 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV03 | Beryllium | 507 | 500 | 102 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Cadmium | 467 | 500 | 93 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Chromium | 494 | 500 | 99 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Copper | 4700 | 5000 | 94 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Iron | 123000 | 125000 | 99 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Lead | 2490 | 2500 | 100 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Magnesium | 247000 | 250000 | 99 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Manganese | 4740 | 5000 | 95 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Potassium | 124000 | 125000 | 99 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Selenium | 470 | 500 | 94 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |
| | Sodium | 246000 | 250000 | 99 | 90 - 110 | P | 04/04/2025 | 16:24 | LB135315 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 468 | 500 | 94 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Antimony | 197 | 200 | 98 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Arsenic | 196 | 200 | 98 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Barium | 99.6 | 100 | 100 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Beryllium | 94.6 | 100 | 95 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Cadmium | 106 | 100 | 106 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Chromium | 99.1 | 100 | 99 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Copper | 93.3 | 100 | 93 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Iron | 1980 | 2000 | 99 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Lead | 198 | 200 | 99 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Magnesium | 1180 | 1200 | 99 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Manganese | 93.7 | 100 | 94 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Potassium | 1840 | 2000 | 92 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Selenium | 200 | 200 | 100 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |
| | Sodium | 2010 | 2000 | 100 | 90 - 110 | P | 04/07/2025 | 12:40 | LB135332 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV | Aluminum | 23.7 | 20.0 | 119 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Antimony | 1.89 | 2.0 | 94 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Arsenic | 0.98 | 1.0 | 98 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Barium | 9.25 | 10.0 | 92 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Beryllium | 1.04 | 1.0 | 104 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Cadmium | 0.93 | 1.0 | 93 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Chromium | 2.00 | 2.0 | 100 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Copper | 1.94 | 2.0 | 97 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Iron | 50.0 | 50.0 | 100 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Lead | 0.94 | 1.0 | 94 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Magnesium | 533 | 500 | 106 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Manganese | 0.99 | 1.0 | 99 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Potassium | 488 | 500 | 98 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Selenium | 4.90 | 5.0 | 98 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |
| | Sodium | 533 | 500 | 107 | 80 - 120 | P | 04/07/2025 | 12:44 | LB135332 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 53100 | 50000 | 106 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Antimony | 519 | 500 | 104 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Arsenic | 513 | 500 | 103 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Barium | 2590 | 2500 | 104 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Beryllium | 539 | 500 | 108 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Cadmium | 510 | 500 | 102 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Chromium | 514 | 500 | 103 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Copper | 4640 | 5000 | 93 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Iron | 124000 | 125000 | 99 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Lead | 2550 | 2500 | 102 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Magnesium | 267000 | 250000 | 107 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Manganese | 5070 | 5000 | 101 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Potassium | 131000 | 125000 | 104 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Selenium | 494 | 500 | 99 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| | Sodium | 269000 | 250000 | 108 | 90 - 110 | P | 04/07/2025 | 13:07 | LB135332 |
| CCV02 | Aluminum | 52200 | 50000 | 104 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Antimony | 511 | 500 | 102 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Arsenic | 479 | 500 | 96 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Barium | 2530 | 2500 | 101 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Beryllium | 513 | 500 | 102 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Cadmium | 500 | 500 | 100 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Chromium | 492 | 500 | 98 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Copper | 4770 | 5000 | 95 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Iron | 119000 | 125000 | 95 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Lead | 2480 | 2500 | 99 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Magnesium | 260000 | 250000 | 104 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Manganese | 4870 | 5000 | 97 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Potassium | 128000 | 125000 | 103 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Selenium | 471 | 500 | 94 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| | Sodium | 269000 | 250000 | 108 | 90 - 110 | P | 04/07/2025 | 13:58 | LB135332 |
| CCV03 | Aluminum | 53400 | 50000 | 107 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Antimony | 499 | 500 | 100 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Arsenic | 476 | 500 | 95 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Barium | 2480 | 2500 | 99 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV03 | Beryllium | 499 | 500 | 100 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Cadmium | 493 | 500 | 98 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Chromium | 510 | 500 | 102 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Copper | 5200 | 5000 | 104 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Iron | 125000 | 125000 | 100 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Lead | 2460 | 2500 | 98 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Magnesium | 268000 | 250000 | 107 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Manganese | 5040 | 5000 | 101 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Potassium | 129000 | 125000 | 103 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Selenium | 469 | 500 | 94 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |
| | Sodium | 272000 | 250000 | 109 | 90 - 110 | P | 04/07/2025 | 15:00 | LB135332 |

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# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI | Aluminum | 18.5 | 20.0 | 93 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Antimony | 2.01 | 2.0 | 100 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Arsenic | 1.10 | 1.0 | 110 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Barium | 9.75 | 10.0 | 98 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Beryllium | 1.04 | 1.0 | 104 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Cadmium | 0.93 | 1.0 | 93 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Chromium | 2.02 | 2.0 | 101 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Copper | 2.40 | 2.0 | 120 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Iron | 54.1 | 50.0 | 108 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Lead | 0.98 | 1.0 | 98 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Magnesium | 485 | 500 | 97 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Manganese | 1.01 | 1.0 | 101 | 50 - 150 | P | 04/04/2025 | 15:37 | LB135315 |
| | Potassium | 488 | 500 | 98 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Selenium | 5.10 | 5.0 | 102 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| | Sodium | 498 | 500 | 100 | 70 - 130 | P | 04/04/2025 | 15:37 | LB135315 |
| CRI | Aluminum | 24.5 | 20.0 | 123 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Antimony | 1.92 | 2.0 | 96 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Arsenic | 1.03 | 1.0 | 103 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Barium | 9.37 | 10.0 | 94 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Beryllium | 1.00 | 1.0 | 100 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Cadmium | 0.95 | 1.0 | 95 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Chromium | 1.87 | 2.0 | 94 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Copper | 1.86 | 2.0 | 93 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Iron | 48.5 | 50.0 | 97 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Lead | 0.91 | 1.0 | 91 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Magnesium | 541 | 500 | 108 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Manganese | 1.00 | 1.0 | 100 | 50 - 150 | P | 04/07/2025 | 13:20 | LB135332 |
| | Potassium | 513 | 500 | 103 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Selenium | 4.91 | 5.0 | 98 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |
| | Sodium | 564 | 500 | 113 | 70 - 130 | P | 04/07/2025 | 13:20 | LB135332 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/04/2025 | 15:20 | LB135315 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/04/2025 | 15:20 | LB135315 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/04/2025 | 15:20 | LB135315 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 15:20 | LB135315 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 15:20 | LB135315 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/04/2025 | 15:20 | LB135315 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 15:20 | LB135315 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/04/2025 | 15:33 | LB135315 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/04/2025 | 15:33 | LB135315 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Copper | 0.61 | +/-2.00 | J | 2.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/04/2025 | 15:33 | LB135315 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 15:33 | LB135315 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 15:33 | LB135315 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/04/2025 | 15:33 | LB135315 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 15:33 | LB135315 |
| **CCB02** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/04/2025 | 16:15 | LB135315 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/04/2025 | 16:15 | LB135315 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Chromium | 0.40 | +/-2.00 | J | 2.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Copper | 0.36 | +/-2.00 | J | 2.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/04/2025 | 16:15 | LB135315 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 16:15 | LB135315 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 16:15 | LB135315 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/04/2025 | 16:15 | LB135315 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 16:15 | LB135315 |
| **CCB03** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/04/2025 | 16:28 | LB135315 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/04/2025 | 16:28 | LB135315 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Chromium | 0.35 | +/-2.00 | J | 2.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Copper | 0.33 | +/-2.00 | J | 2.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/04/2025 | 16:28 | LB135315 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB03 | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 16:28 | LB135315 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 16:28 | LB135315 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/04/2025 | 16:28 | LB135315 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/04/2025 | 16:28 | LB135315 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 2.11 | +/-20.0 | J | 20.0 | P | 04/07/2025 | 12:48 | LB135332 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/07/2025 | 12:48 | LB135332 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/07/2025 | 12:48 | LB135332 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 12:48 | LB135332 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 12:48 | LB135332 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/07/2025 | 12:48 | LB135332 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 12:48 | LB135332 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/07/2025 | 13:17 | LB135332 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/07/2025 | 13:17 | LB135332 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/07/2025 | 13:17 | LB135332 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 13:17 | LB135332 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 13:17 | LB135332 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/07/2025 | 13:17 | LB135332 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 13:17 | LB135332 |
| **CCB02** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/07/2025 | 14:05 | LB135332 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/07/2025 | 14:05 | LB135332 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/07/2025 | 14:05 | LB135332 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 14:05 | LB135332 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 14:05 | LB135332 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/07/2025 | 14:05 | LB135332 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 14:05 | LB135332 |
| **CCB03** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 04/07/2025 | 15:13 | LB135332 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 04/07/2025 | 15:13 | LB135332 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 04/07/2025 | 15:13 | LB135332 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCB03 | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 15:13 | LB135332 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Potassium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 15:13 | LB135332 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 04/07/2025 | 15:13 | LB135332 |
| | Sodium | 500 | +/-500 | U | 500 | P | 04/07/2025 | 15:13 | LB135332 |

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# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Instrument:** P7

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB167465BL** | | **WATER** | | **Batch Number:** | **PB167465** | | **Prep Date:** | **04/04/2025** | |
| | Aluminum | 20.0 | <20.0 | U | 20.0 | P | 04/04/2025 | 15:40 | LB135315 |
| | Antimony | 2.00 | <2.00 | U | 2.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Arsenic | 1.00 | <1.00 | U | 1.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Barium | 10.0 | <10.0 | U | 10.0 | P | 04/04/2025 | 15:40 | LB135315 |
| | Beryllium | 1.00 | <1.00 | U | 1.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Cadmium | 1.00 | <1.00 | U | 1.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Chromium | 2.00 | <2.00 | U | 2.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Copper | 2.00 | <2.00 | U | 2.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Iron | 50.0 | <50.0 | U | 50.0 | P | 04/04/2025 | 15:40 | LB135315 |
| | Lead | 1.00 | <1.00 | U | 1.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Magnesium | 500 | <500 | U | 500 | P | 04/04/2025 | 15:40 | LB135315 |
| | Manganese | 1.00 | <1.00 | U | 1.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Potassium | 500 | <500 | U | 500 | P | 04/04/2025 | 15:40 | LB135315 |
| | Selenium | 5.00 | <5.00 | U | 5.00 | P | 04/04/2025 | 15:40 | LB135315 |
| | Sodium | 500 | <500 | U | 500 | P | 04/04/2025 | 15:40 | LB135315 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSA01 | Aluminum | 97000 | 100000 | 97 | 0 | 0 | 04/04/2025 | 15:24 | LB135315 |
| | Antimony | 1.32 | 1.5 | 88 | -2.5 | 5.5 | 04/04/2025 | 15:24 | LB135315 |
| | Arsenic | 0.34 | 0.1 | 340 | -1.9 | 2.1 | 04/04/2025 | 15:24 | LB135315 |
| | Barium | 1.56 | 1.2 | 130 | -18.8 | 21.2 | 04/04/2025 | 15:24 | LB135315 |
| | Beryllium | 0.30 | | | -2 | 2 | 04/04/2025 | 15:24 | LB135315 |
| | Cadmium | 0.19 | 0.7 | 27 | -1.3 | 2.7 | 04/04/2025 | 15:24 | LB135315 |
| | Chromium | 21.2 | 21.0 | 101 | 17 | 25 | 04/04/2025 | 15:24 | LB135315 |
| | Copper | 9.82 | 8.0 | 123 | 4 | 12 | 04/04/2025 | 15:24 | LB135315 |
| | Iron | 106000 | 100000 | 106 | 0 | 0 | 04/04/2025 | 15:24 | LB135315 |
| | Lead | 4.72 | 4.0 | 118 | 2 | 6 | 04/04/2025 | 15:24 | LB135315 |
| | Magnesium | 99300 | 100000 | 99 | 0 | 0 | 04/04/2025 | 15:24 | LB135315 |
| | Manganese | 7.49 | 7.0 | 107 | 5 | 9 | 04/04/2025 | 15:24 | LB135315 |
| | Potassium | 103000 | 100000 | 103 | 0 | 0 | 04/04/2025 | 15:24 | LB135315 |
| | Selenium | 0 | 0.3 | | -9.7 | 10 | 04/04/2025 | 15:24 | LB135315 |
| | Sodium | 107000 | 100000 | 107 | 0 | 0 | 04/04/2025 | 15:24 | LB135315 |
| ICSAB01 | Aluminum | 90300 | 100000 | 90 | 0 | 0 | 04/04/2025 | 15:27 | LB135315 |
| | Antimony | 20.8 | 22.0 | 94 | 18 | 26 | 04/04/2025 | 15:27 | LB135315 |
| | Arsenic | 20.4 | 19.0 | 107 | 16.2 | 21.9 | 04/04/2025 | 15:27 | LB135315 |
| | Barium | 21.1 | 22.0 | 96 | 2 | 42 | 04/04/2025 | 15:27 | LB135315 |
| | Beryllium | 21.3 | 19.0 | 112 | 16.2 | 21.9 | 04/04/2025 | 15:27 | LB135315 |
| | Cadmium | 19.6 | 20.0 | 98 | 17 | 23 | 04/04/2025 | 15:27 | LB135315 |
| | Chromium | 40.5 | 40.0 | 101 | 34 | 46 | 04/04/2025 | 15:27 | LB135315 |
| | Copper | 27.9 | 25.0 | 112 | 21 | 29 | 04/04/2025 | 15:27 | LB135315 |
| | Iron | 99500 | 100000 | 100 | 0 | 0 | 04/04/2025 | 15:27 | LB135315 |
| | Lead | 23.9 | 25.0 | 96 | 21.3 | 28.8 | 04/04/2025 | 15:27 | LB135315 |
| | Magnesium | 92200 | 100000 | 92 | 0 | 0 | 04/04/2025 | 15:27 | LB135315 |
| | Manganese | 25.7 | 27.0 | 95 | 23 | 31.1 | 04/04/2025 | 15:27 | LB135315 |
| | Potassium | 97200 | 100000 | 97 | 0 | 0 | 04/04/2025 | 15:27 | LB135315 |
| | Selenium | 19.9 | 19.0 | 105 | 9 | 29 | 04/04/2025 | 15:27 | LB135315 |
| | Sodium | 100000 | 100000 | 100 | 0 | 0 | 04/04/2025 | 15:27 | LB135315 |
| ICSA01 | Aluminum | 94800 | 100000 | 95 | 0 | 0 | 04/07/2025 | 12:57 | LB135332 |
| | Antimony | 1.24 | 1.5 | 83 | -2.5 | 5.5 | 04/07/2025 | 12:57 | LB135332 |
| | Arsenic | 0.37 | 0.1 | 370 | -1.9 | 2.1 | 04/07/2025 | 12:57 | LB135332 |
| | Barium | 1.42 | 1.2 | 118 | -18.8 | 21.2 | 04/07/2025 | 12:57 | LB135332 |
| | Beryllium | 0 | | | -2 | 2 | 04/07/2025 | 12:57 | LB135332 |
| | Cadmium | 0.49 | 0.7 | 70 | -1.3 | 2.7 | 04/07/2025 | 12:57 | LB135332 |
| | Chromium | 19.4 | 21.0 | 92 | 17 | 25 | 04/07/2025 | 12:57 | LB135332 |
| | Copper | 6.88 | 8.0 | 86 | 4 | 12 | 04/07/2025 | 12:57 | LB135332 |
| | Iron | 102000 | 100000 | 102 | 0 | 0 | 04/07/2025 | 12:57 | LB135332 |
| | Lead | 4.37 | 4.0 | 109 | 2 | 6 | 04/07/2025 | 12:57 | LB135332 |
| | Magnesium | 102000 | 100000 | 102 | 0 | 0 | 04/07/2025 | 12:57 | LB135332 |
| | Manganese | 6.78 | 7.0 | 97 | 5 | 9 | 04/07/2025 | 12:57 | LB135332 |

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# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

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

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | Potassium | 102000 | 100000 | 102 | 0 | 0 | 04/07/2025 | 12:57 | LB135332 |
| | Selenium | 0.10 | 0.3 | 33 | -9.7 | 10 | 04/07/2025 | 12:57 | LB135332 |
| | Sodium | 109000 | 100000 | 109 | 0 | 0 | 04/07/2025 | 12:57 | LB135332 |
| **ICSAB01** | Aluminum | 96200 | 100000 | 96 | 0 | 0 | 04/07/2025 | 13:04 | LB135332 |
| | Antimony | 21.3 | 22.0 | 97 | 18 | 26 | 04/07/2025 | 13:04 | LB135332 |
| | Arsenic | 21.0 | 19.0 | 110 | 16.2 | 21.9 | 04/07/2025 | 13:04 | LB135332 |
| | Barium | 21.5 | 22.0 | 98 | 2 | 42 | 04/07/2025 | 13:04 | LB135332 |
| | Beryllium | 21.3 | 19.0 | 112 | 16.2 | 21.9 | 04/07/2025 | 13:04 | LB135332 |
| | Cadmium | 20.8 | 20.0 | 104 | 17 | 23 | 04/07/2025 | 13:04 | LB135332 |
| | Chromium | 39.6 | 40.0 | 99 | 34 | 46 | 04/07/2025 | 13:04 | LB135332 |
| | Copper | 24.7 | 25.0 | 99 | 21 | 29 | 04/07/2025 | 13:04 | LB135332 |
| | Iron | 101000 | 100000 | 101 | 0 | 0 | 04/07/2025 | 13:04 | LB135332 |
| | Lead | 23.7 | 25.0 | 95 | 21.3 | 28.8 | 04/07/2025 | 13:04 | LB135332 |
| | Magnesium | 103000 | 100000 | 103 | 0 | 0 | 04/07/2025 | 13:04 | LB135332 |
| | Manganese | 24.9 | 27.0 | 92 | 23 | 31.1 | 04/07/2025 | 13:04 | LB135332 |
| | Potassium | 103000 | 100000 | 103 | 0 | 0 | 04/07/2025 | 13:04 | LB135332 |
| | Selenium | 21.2 | 19.0 | 112 | 9 | 29 | 04/07/2025 | 13:04 | LB135332 |
| | Sodium | 110000 | 100000 | 110 | 0 | 0 | 04/07/2025 | 13:04 | LB135332 |

# METAL QC DATA

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q1711

**contract:** JACO05 **lab code:** CHEM **case no.:** Q1711 **sas no.:** Q1711

**matrix:** Water **sample id:** Q1711-01 **client id:** MW-18B-56-040225MS

**Percent Solids for Sample:** NA **Spiked ID:** Q1711-02 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 9970 | | 1470 | | 10000 | 85 | | P |
| Antimony | ug/L | 75 - 125 | 474 | | 1.67 | J | 500 | 95 | | P |
| Arsenic | ug/L | 75 - 125 | 0.93 | J | 0.85 | J | 500 | 0 | N | P |
| Barium | ug/L | 75 - 125 | 2240 | | 119 | | 2500 | 85 | | P |
| Beryllium | ug/L | 75 - 125 | 491 | | 1.00 | U | 500 | 98 | | P |
| Cadmium | ug/L | 75 - 125 | 461 | | 1.00 | U | 500 | 92 | | P |
| Chromium | ug/L | 75 - 125 | 456 | | 0.58 | J | 500 | 91 | | P |
| Copper | ug/L | 75 - 125 | 4200 | | 2.00 | U | 5000 | 84 | | P |
| Iron | ug/L | 75 - 125 | 23000 | | 560 | | 25000 | 90 | | P |
| Lead | ug/L | 75 - 125 | 2340 | | 1.00 | U | 2500 | 94 | | P |
| Magnesium | ug/L | 75 - 125 | 46600 | | 315 | J | 50000 | 93 | | P |
| Manganese | ug/L | 75 - 125 | 4190 | | 4.19 | | 5000 | 84 | | P |
| Potassium | ug/L | 75 - 125 | 40800 | | 23000 | | 25000 | 71 | N | P |
| Selenium | ug/L | 75 - 125 | 481 | | 5.00 | U | 500 | 96 | | P |
| Sodium | ug/L | 75 - 125 | 64500 | | 20000 | | 50000 | 89 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q1711

**contract:** JACO05 **lab code:** CHEM **case no.:** Q1711 **sas no.:** Q1711

**matrix:** Water **sample id:** Q1711-01 **client id:** MW-18B-56-040225MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q1711-03 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 10200 | | 1470 | | 10000 | 87 | | P |
| Antimony | ug/L | 75 - 125 | 489 | | 1.67 | J | 500 | 97 | | P |
| Arsenic | ug/L | 75 - 125 | 1.01 | | 0.85 | J | 500 | 0 | N | P |
| Barium | ug/L | 75 - 125 | 2280 | | 119 | | 2500 | 87 | | P |
| Beryllium | ug/L | 75 - 125 | 495 | | 1.00 | U | 500 | 99 | | P |
| Cadmium | ug/L | 75 - 125 | 472 | | 1.00 | U | 500 | 94 | | P |
| Chromium | ug/L | 75 - 125 | 465 | | 0.58 | J | 500 | 93 | | P |
| Copper | ug/L | 75 - 125 | 4290 | | 2.00 | U | 5000 | 86 | | P |
| Iron | ug/L | 75 - 125 | 23400 | | 560 | | 25000 | 91 | | P |
| Lead | ug/L | 75 - 125 | 2400 | | 1.00 | U | 2500 | 96 | | P |
| Magnesium | ug/L | 75 - 125 | 46800 | | 315 | J | 50000 | 93 | | P |
| Manganese | ug/L | 75 - 125 | 4270 | | 4.19 | | 5000 | 85 | | P |
| Potassium | ug/L | 75 - 125 | 42000 | | 23000 | | 25000 | 76 | | P |
| Selenium | ug/L | 75 - 125 | 490 | | 5.00 | U | 500 | 98 | | P |
| Sodium | ug/L | 75 - 125 | 64300 | | 20000 | | 50000 | 89 | | P |

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# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q1711

**contract:** JACO05 **lab code:** CHEM **case no.:** Q1711 **sas no.:** Q1711

**matrix:** Water **sample id:** Q1711-14 **client id:** MW-18B-56-040225MS

**Percent Solids for Sample:** NA **Spiked ID:** Q1711-15 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 10700 | | 1520 | | 10000 | 92 | | P |
| Antimony | ug/L | 75 - 125 | 514 | | 1.75 | J | 500 | 102 | | P |
| Arsenic | ug/L | 75 - 125 | 0.98 | J | 0.93 | J | 500 | 0 | N | P |
| Barium | ug/L | 75 - 125 | 2370 | | 124 | | 2500 | 90 | | P |
| Beryllium | ug/L | 75 - 125 | 469 | | 1.00 | U | 500 | 94 | | P |
| Cadmium | ug/L | 75 - 125 | 507 | | 1.00 | U | 500 | 101 | | P |
| Chromium | ug/L | 75 - 125 | 470 | | 2.00 | U | 500 | 94 | | P |
| Copper | ug/L | 75 - 125 | 4210 | | 2.00 | U | 5000 | 84 | | P |
| Iron | ug/L | 75 - 125 | 21600 | | 40.3 | J | 25000 | 86 | | P |
| Lead | ug/L | 75 - 125 | 2400 | | 1.00 | U | 2500 | 96 | | P |
| Magnesium | ug/L | 75 - 125 | 52500 | | 399 | J | 50000 | 104 | | P |
| Manganese | ug/L | 75 - 125 | 4360 | | 9.43 | | 5000 | 87 | | P |
| Potassium | ug/L | 75 - 125 | 45200 | | 25100 | | 25000 | 81 | | P |
| Selenium | ug/L | 75 - 125 | 479 | | 5.00 | U | 500 | 96 | | P |
| Sodium | ug/L | 75 - 125 | 71500 | | 22000 | | 50000 | 99 | | P |

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# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q1711

**contract:** JACO05 **lab code:** CHEM **case no.:** Q1711 **sas no.:** Q1711

**matrix:** Water **sample id:** Q1711-14 **client id:** MW-18B-56-040225MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q1711-16 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 75 - 125 | 10700 | | 1520 | | 10000 | 91 | | P |
| Antimony | ug/L | 75 - 125 | 511 | | 1.75 | J | 500 | 102 | | P |
| Arsenic | ug/L | 75 - 125 | 0.95 | J | 0.93 | J | 500 | 0 | N | P |
| Barium | ug/L | 75 - 125 | 2340 | | 124 | | 2500 | 89 | | P |
| Beryllium | ug/L | 75 - 125 | 478 | | 1.00 | U | 500 | 96 | | P |
| Cadmium | ug/L | 75 - 125 | 502 | | 1.00 | U | 500 | 100 | | P |
| Chromium | ug/L | 75 - 125 | 474 | | 2.00 | U | 500 | 95 | | P |
| Copper | ug/L | 75 - 125 | 4210 | | 2.00 | U | 5000 | 84 | | P |
| Iron | ug/L | 75 - 125 | 21900 | | 40.3 | J | 25000 | 87 | | P |
| Lead | ug/L | 75 - 125 | 2440 | | 1.00 | U | 2500 | 98 | | P |
| Magnesium | ug/L | 75 - 125 | 52900 | | 399 | J | 50000 | 105 | | P |
| Manganese | ug/L | 75 - 125 | 4380 | | 9.43 | | 5000 | 87 | | P |
| Potassium | ug/L | 75 - 125 | 45600 | | 25100 | | 25000 | 82 | | P |
| Selenium | ug/L | 75 - 125 | 487 | | 5.00 | U | 500 | 97 | | P |
| Sodium | ug/L | 75 - 125 | 72900 | | 22000 | | 50000 | 102 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Matrix:** Water **Level:** LOW **Client ID:** MW-18B-56-040225A

**Sample ID:** Q1711-01 **Spiked ID:** Q1711-01A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 1.10 | | 0.85 | J | 500 | 0 | | P |
| Potassium | ug/L | 75 - 125 | 41500 | | 23000 | | 25000 | 74 | | P |

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# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Matrix:** Water **Level:** LOW **Client ID:** MW-18B-56-040225A

**Sample ID:** Q1711-14 **Spiked ID:** Q1711-14A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | 75 - 125 | 1.01 | | 0.93 | J | 500 | 0 | | P |

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Matrix:** Water **Sample ID:** Q1711-01 **Client ID:** MW-18B-56-040225DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q1711-01DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 1470 | | 1460 | | 1 | | P |
| Antimony | ug/L | 20 | 1.67 | J | 1.67 | J | 0 | | P |
| Arsenic | ug/L | 20 | 0.85 | J | 0.93 | J | 9 | | P |
| Barium | ug/L | 20 | 119 | | 120 | | 1 | | P |
| Beryllium | ug/L | 20 | 1.00 | U | 1.00 | U | | | P |
| Cadmium | ug/L | 20 | 1.00 | U | 1.00 | U | | | P |
| Chromium | ug/L | 20 | 0.58 | J | 0.40 | J | 37 | | P |
| Copper | ug/L | 20 | 2.00 | U | 2.00 | U | | | P |
| Iron | ug/L | 20 | 560 | | 550 | | 2 | | P |
| Lead | ug/L | 20 | 1.00 | U | 1.00 | U | | | P |
| Magnesium | ug/L | 20 | 315 | J | 317 | J | 1 | | P |
| Manganese | ug/L | 20 | 4.19 | | 5.31 | | 24 | | P |
| Potassium | ug/L | 20 | 23000 | | 23000 | | 0 | | P |
| Selenium | ug/L | 20 | 5.00 | U | 5.00 | U | | | P |
| Sodium | ug/L | 20 | 20000 | | 19800 | | 1 | | P |

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

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Matrix:** Water **Sample ID:** Q1711-02 **Client ID:** MW-18B-56-040225MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q1711-03 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 9970 | | 10200 | | 2 | | P |
| Antimony | ug/L | 20 | 474 | | 489 | | 3 | | P |
| Arsenic | ug/L | 20 | 0.93 | J | 1.01 | | 8 | | P |
| Barium | ug/L | 20 | 2240 | | 2280 | | 2 | | P |
| Beryllium | ug/L | 20 | 491 | | 495 | | 1 | | P |
| Cadmium | ug/L | 20 | 461 | | 472 | | 2 | | P |
| Chromium | ug/L | 20 | 456 | | 465 | | 2 | | P |
| Copper | ug/L | 20 | 4200 | | 4290 | | 2 | | P |
| Iron | ug/L | 20 | 23000 | | 23400 | | 2 | | P |
| Lead | ug/L | 20 | 2340 | | 2400 | | 3 | | P |
| Magnesium | ug/L | 20 | 46600 | | 46800 | | 0 | | P |
| Manganese | ug/L | 20 | 4190 | | 4270 | | 2 | | P |
| Potassium | ug/L | 20 | 40800 | | 42000 | | 3 | | P |
| Selenium | ug/L | 20 | 481 | | 490 | | 2 | | P |
| Sodium | ug/L | 20 | 64500 | | 64300 | | 0 | | P |

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

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Matrix:** Water **Sample ID:** Q1711-14 **Client ID:** MW-18B-56-040225DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q1711-14DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 1520 | | 1520 | | 0 | | P |
| Antimony | ug/L | 20 | 1.75 | J | 1.77 | J | 1 | | P |
| Arsenic | ug/L | 20 | 0.93 | J | 0.88 | J | 6 | | P |
| Barium | ug/L | 20 | 124 | | 130 | | 5 | | P |
| Beryllium | ug/L | 20 | 1.00 | U | 1.00 | U | | | P |
| Cadmium | ug/L | 20 | 1.00 | U | 1.00 | U | | | P |
| Chromium | ug/L | 20 | 2.00 | U | 2.00 | U | | | P |
| Copper | ug/L | 20 | 2.00 | U | 2.00 | U | | | P |
| Iron | ug/L | 20 | 40.3 | J | 40.7 | J | 1 | | P |
| Lead | ug/L | 20 | 1.00 | U | 1.00 | U | | | P |
| Magnesium | ug/L | 20 | 399 | J | 399 | J | 0 | | P |
| Manganese | ug/L | 20 | 9.43 | | 6.80 | | 32 | * | P |
| Potassium | ug/L | 20 | 25100 | | 24700 | | 2 | | P |
| Selenium | ug/L | 20 | 5.00 | U | 5.00 | U | | | P |
| Sodium | ug/L | 20 | 22000 | | 22100 | | 0 | | P |

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

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# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

**Matrix:** Water **Sample ID:** Q1711-15 **Client ID:** MW-18B-56-040225MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q1711-16 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 10700 | | 10700 | | 0 | | P |
| Antimony | ug/L | 20 | 514 | | 511 | | 1 | | P |
| Arsenic | ug/L | 20 | 0.98 | J | 0.95 | J | 3 | | P |
| Barium | ug/L | 20 | 2370 | | 2340 | | 1 | | P |
| Beryllium | ug/L | 20 | 469 | | 478 | | 2 | | P |
| Cadmium | ug/L | 20 | 507 | | 502 | | 1 | | P |
| Chromium | ug/L | 20 | 470 | | 474 | | 1 | | P |
| Copper | ug/L | 20 | 4210 | | 4210 | | 0 | | P |
| Iron | ug/L | 20 | 21600 | | 21900 | | 1 | | P |
| Lead | ug/L | 20 | 2400 | | 2440 | | 2 | | P |
| Magnesium | ug/L | 20 | 52500 | | 52900 | | 1 | | P |
| Manganese | ug/L | 20 | 4360 | | 4380 | | 0 | | P |
| Potassium | ug/L | 20 | 45200 | | 45600 | | 1 | | P |
| Selenium | ug/L | 20 | 479 | | 487 | | 2 | | P |
| Sodium | ug/L | 20 | 71500 | | 72900 | | 2 | | P |

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

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

**Contract:** JACO05 **Lab Code:** CHEM **Case No.:** Q1711 **SAS No.:** Q1711

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB167465BS | | | | | | | |
| Aluminum | ug/L | 10000 | 10100 | | 101 | 80 - 120 | P |
| Antimony | ug/L | 500 | 507 | | 101 | 80 - 120 | P |
| Arsenic | ug/L | 500 | 511 | | 102 | 80 - 120 | P |
| Barium | ug/L | 2500 | 2570 | | 103 | 80 - 120 | P |
| Beryllium | ug/L | 500 | 511 | | 102 | 80 - 120 | P |
| Cadmium | ug/L | 500 | 509 | | 102 | 80 - 120 | P |
| Chromium | ug/L | 500 | 511 | | 102 | 80 - 120 | P |
| Copper | ug/L | 5000 | 5130 | | 103 | 80 - 120 | P |
| Iron | ug/L | 25000 | 27400 | | 110 | 80 - 120 | P |
| Lead | ug/L | 2500 | 2520 | | 101 | 80 - 120 | P |
| Magnesium | ug/L | 50000 | 51000 | | 102 | 80 - 120 | P |
| Manganese | ug/L | 5000 | 5010 | | 100 | 80 - 120 | P |
| Potassium | ug/L | 25000 | 25400 | | 102 | 80 - 120 | P |
| Selenium | ug/L | 500 | 508 | | 102 | 80 - 120 | P |
| Sodium | ug/L | 50000 | 52300 | | 105 | 80 - 120 | P |

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

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

Run Number: LB135315 End Date : 04/04/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 6Li | Q | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q |
| S0 | S0 | 1409 | 100 | | 100 | | 100 | | 100 | | 100 | |
| S2 | S2 | 1415 | 102 | | 100 | | 100 | | 98 | | 100 | |
| S3 | S3 | 1419 | 103 | | 99 | | 98 | | 99 | | 99 | |
| S4 | S4 | 1422 | 105 | | 101 | | 100 | | 99 | | 100 | |
| S5 | S5 | 1425 | 109 | | 98 | | 99 | | 98 | | 102 | |
| S6 | S6 | 1428 | 110 | | 100 | | 99 | | 97 | | 102 | |
| S7 | S7 | 1431 | 110 | | 102 | | 102 | | 98 | | 104 | |
| S8 | S8 | 1433 | 112 | | 114 | | 114 | | 103 | | 116 | |
| ICV01 | ICV01 | 1458 | 96 | | 105 | | 107 | | 107 | | 106 | |
| LLICV | LLICV | 1517 | 97 | | 105 | | 107 | | 107 | | 108 | |
| ICB01 | ICB01 | 1520 | 96 | | 106 | | 107 | | 107 | | 108 | |
| ICSA01 | ICSA01 | 1524 | 99 | | 104 | | 107 | | 103 | | 110 | |
| ICSAB01 | ICSAB01 | 1527 | 99 | | 107 | | 110 | | 106 | | 114 | |
| CCV01 | CCV01 | 1530 | 101 | | 107 | | 111 | | 103 | | 113 | |
| CCB01 | CCB01 | 1533 | 101 | | 104 | | 106 | | 107 | | 111 | |
| CRI | CRI | 1537 | 100 | | 106 | | 109 | | 107 | | 111 | |
| PB167465BL | PB167465BL | 1540 | 100 | | 106 | | 109 | | 109 | | 110 | |
| PB167465BS | PB167465BS | 1543 | 101 | | 107 | | 110 | | 108 | | 112 | |
| Q1711-01 | MW-18B-56-0 | 1546 | 112 | | 118 | | 120 | | 118 | | 124 | |
| Q1711-01DUP | MW-18B-56-0 | 1549 | 105 | | 119 | | 123 | | 121 | | 125 | |
| Q1711-01L | MW-18B-56-0 | 1553 | 95 | | 110 | | 115 | | 113 | | 115 | |
| Q1711-02 | MW-18B-56-0 | 1556 | 107 | | 120 | | 125 | | 120 | | 126 | |
| Q1711-03 | MW-18B-56-0 | 1559 | 107 | | 120 | | 124 | | 120 | | 125 | |
| Q1711-01A | MW-18B-56-0 | 1602 | 104 | | 118 | | 123 | | 121 | | 128 | |
| CCV02 | CCV02 | 1610 | 97 | | 112 | | 115 | | 108 | | 117 | |
| CCB02 | CCB02 | 1615 | 94 | | 107 | | 111 | | 110 | | 113 | |
| Q1711-04 | MW-17B-55-0 | 1618 | 103 | | 121 | | 127 | | 124 | | 128 | |
| Q1711-08 | EB01-040225 | 1621 | 100 | | 120 | | 125 | | 125 | | 126 | |
| CCV03 | CCV03 | 1624 | 97 | | 110 | | 111 | | 104 | | 114 | |
| CCB03 | CCB03 | 1628 | 98 | | 108 | | 113 | | 112 | | 113 | |

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

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

Run Number: LB135315 End Date : 04/04/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q | Element 165Ho | Q |
| S0 | S0 | 1409 | 100 | | 100 | | 100 | | 100 | | 100 | |
| S2 | S2 | 1415 | 100 | | 101 | | 101 | | 102 | | 101 | |
| S3 | S3 | 1419 | 99 | | 100 | | 100 | | 102 | | 103 | |
| S4 | S4 | 1422 | 98 | | 101 | | 101 | | 104 | | 104 | |
| S5 | S5 | 1425 | 95 | | 100 | | 100 | | 106 | | 106 | |
| S6 | S6 | 1428 | 96 | | 102 | | 100 | | 108 | | 107 | |
| S7 | S7 | 1431 | 99 | | 103 | | 101 | | 110 | | 110 | |
| S8 | S8 | 1433 | 108 | | 109 | | 99 | | 110 | | 108 | |
| ICV01 | ICV01 | 1458 | 109 | | 110 | | 110 | | 111 | | 109 | |
| LLICV | LLICV | 1517 | 108 | | 109 | | 109 | | 109 | | 106 | |
| ICB01 | ICB01 | 1520 | 106 | | 109 | | 108 | | 111 | | 109 | |
| ICSA01 | ICSA01 | 1524 | 103 | | 107 | | 105 | | 112 | | 110 | |
| ICSAB01 | ICSAB01 | 1527 | 105 | | 111 | | 107 | | 114 | | 113 | |
| CCV01 | CCV01 | 1530 | 108 | | 110 | | 104 | | 112 | | 111 | |
| CCB01 | CCB01 | 1533 | 104 | | 111 | | 110 | | 112 | | 110 | |
| CRI | CRI | 1537 | 106 | | 110 | | 109 | | 112 | | 109 | |
| PB167465BL | PB167465BL | 1540 | 106 | | 109 | | 110 | | 112 | | 109 | |
| PB167465BS | PB167465BS | 1543 | 105 | | 108 | | 108 | | 112 | | 110 | |
| Q1711-01 | MW-18B-56-0 | 1546 | 118 | | 121 | | 121 | | 122 | | 120 | |
| Q1711-01DUP | MW-18B-56-0 | 1549 | 122 | | 124 | | 122 | | 122 | | 120 | |
| Q1711-01L | MW-18B-56-0 | 1553 | 112 | | 116 | | 114 | | 113 | | 112 | |
| Q1711-02 | MW-18B-56-0 | 1556 | 120 | | 123 | | 118 | | 123 | | 120 | |
| Q1711-03 | MW-18B-56-0 | 1559 | 120 | | 123 | | 120 | | 121 | | 120 | |
| Q1711-01A | MW-18B-56-0 | 1602 | 120 | | 122 | | 120 | | 122 | | 122 | |
| CCV02 | CCV02 | 1610 | 116 | | 117 | | 111 | | 117 | | 115 | |
| CCB02 | CCB02 | 1615 | 109 | | 112 | | 111 | | 111 | | 109 | |
| Q1711-04 | MW-17B-55-0 | 1618 | 124 | | 129 | | 126 | | 125 | | 123 | |
| Q1711-08 | EB01-040225 | 1621 | 122 | | 126 | | 124 | | 123 | | 120 | |
| CCV03 | CCV03 | 1624 | 113 | | 114 | | 106 | | 114 | | 112 | |
| CCB03 | CCB03 | 1628 | 110 | | 114 | | 115 | | 115 | | 114 | |

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 6Li | Q | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q |
| S0 | S0 | 1129 | 100 | | 100 | | 100 | | 100 | | 100 | |
| S2 | S2 | 1136 | 98 | | 98 | | 97 | | 98 | | 98 | |
| S3 | S3 | 1139 | 97 | | 98 | | 98 | | 96 | | 99 | |
| S4 | S4 | 1142 | 96 | | 95 | | 96 | | 95 | | 97 | |
| S5 | S5 | 1145 | 95 | | 96 | | 96 | | 93 | | 99 | |
| S6 | S6 | 1148 | 92 | | 92 | | 94 | | 88 | | 94 | |
| S7 | S7 | 1151 | 93 | | 96 | | 94 | | 88 | | 95 | |
| S8 | S8 | 1154 | 83 | | 86 | | 85 | | 74 | | 86 | |
| ICV01 | ICV01 | 1240 | 103 | | 102 | | 102 | | 100 | | 100 | |
| LLICV | LLICV | 1244 | 104 | | 103 | | 101 | | 99 | | 101 | |
| ICB01 | ICB01 | 1248 | 103 | | 102 | | 99 | | 98 | | 99 | |
| ICSA01 | ICSA01 | 1257 | 101 | | 103 | | 98 | | 88 | | 95 | |
| ICSAB01 | ICSAB01 | 1304 | 103 | | 105 | | 99 | | 89 | | 96 | |
| CCV01 | CCV01 | 1307 | 96 | | 101 | | 94 | | 83 | | 90 | |
| CCB01 | CCB01 | 1317 | 115 | | 115 | | 106 | | 105 | | 102 | |
| CRI | CRI | 1320 | 115 | | 116 | | 107 | | 105 | | 103 | |
| Q1711-12 | MW-17B-55-0 | 1324 | 117 | | 117 | | 106 | | 102 | | 101 | |
| Q1711-13 | EB01-040225 | 1327 | 115 | | 114 | | 108 | | 106 | | 104 | |
| Q1711-14 | MW-18B-56-0 | 1330 | 114 | | 113 | | 106 | | 100 | | 100 | |
| Q1711-14DUP | MW-18B-56-0 | 1333 | 116 | | 114 | | 107 | | 100 | | 101 | |
| Q1711-14L | MW-18B-56-0 | 1337 | 113 | | 110 | | 104 | | 100 | | 100 | |
| Q1711-15 | MW-18B-56-0 | 1340 | 116 | | 112 | | 104 | | 96 | | 98 | |
| Q1711-16 | MW-18B-56-0 | 1343 | 116 | | 115 | | 104 | | 95 | | 99 | |
| CCV02 | CCV02 | 1358 | 99 | | 99 | | 94 | | 82 | | 89 | |
| CCB02 | CCB02 | 1405 | 110 | | 108 | | 102 | | 100 | | 98 | |
| Q1711-14A | MW-18B-56-0 | 1408 | 110 | | 110 | | 102 | | 93 | | 95 | |
| ZZZZZZ | ZZZZZZ | 1411 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1414 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1418 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1421 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1433 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1436 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1439 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1443 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1452 | | | | | | | | | | |
| CCV03 | CCV03 | 1500 | 104 | | 102 | | 96 | | 84 | | 93 | |

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 6Li | Q | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q |
| CCB03 | CCB03 | 1513 | 120 | | 116 | | 109 | | 106 | | 104 | |

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q | Element 165Ho | Q |
| S0 | S0 | 1129 | 100 | | 100 | | 100 | | 100 | | 100 | |
| S2 | S2 | 1136 | 99 | | 100 | | 101 | | 100 | | 99 | |
| S3 | S3 | 1139 | 96 | | 97 | | 97 | | 98 | | 98 | |
| S4 | S4 | 1142 | 95 | | 94 | | 96 | | 98 | | 98 | |
| S5 | S5 | 1145 | 96 | | 95 | | 94 | | 98 | | 97 | |
| S6 | S6 | 1148 | 95 | | 95 | | 91 | | 97 | | 97 | |
| S7 | S7 | 1151 | 99 | | 93 | | 89 | | 96 | | 96 | |
| S8 | S8 | 1154 | 92 | | 88 | | 78 | | 89 | | 89 | |
| ICV01 | ICV01 | 1240 | 105 | | 102 | | 99 | | 98 | | 99 | |
| LLICV | LLICV | 1244 | 103 | | 101 | | 100 | | 99 | | 98 | |
| ICB01 | ICB01 | 1248 | 102 | | 100 | | 100 | | 98 | | 98 | |
| ICSA01 | ICSA01 | 1257 | 104 | | 100 | | 90 | | 94 | | 95 | |
| ICSAB01 | ICSAB01 | 1304 | 110 | | 104 | | 91 | | 95 | | 95 | |
| CCV01 | CCV01 | 1307 | 108 | | 101 | | 86 | | 92 | | 93 | |
| CCB01 | CCB01 | 1317 | 117 | | 111 | | 108 | | 103 | | 102 | |
| CRI | CRI | 1320 | 117 | | 111 | | 107 | | 102 | | 102 | |
| Q1711-12 | MW-17B-55-0 | 1324 | 117 | | 111 | | 105 | | 102 | | 102 | |
| Q1711-13 | EB01-040225 | 1327 | 116 | | 111 | | 108 | | 101 | | 101 | |
| Q1711-14 | MW-18B-56-0 | 1330 | 116 | | 111 | | 102 | | 101 | | 101 | |
| Q1711-14DUP | MW-18B-56-0 | 1333 | 117 | | 112 | | 104 | | 103 | | 103 | |
| Q1711-14L | MW-18B-56-0 | 1337 | 113 | | 108 | | 104 | | 101 | | 101 | |
| Q1711-15 | MW-18B-56-0 | 1340 | 121 | | 111 | | 100 | | 99 | | 99 | |
| Q1711-16 | MW-18B-56-0 | 1343 | 121 | | 110 | | 100 | | 99 | | 100 | |
| CCV02 | CCV02 | 1358 | 112 | | 104 | | 87 | | 93 | | 94 | |
| CCB02 | CCB02 | 1405 | 109 | | 106 | | 103 | | 97 | | 97 | |
| Q1711-14A | MW-18B-56-0 | 1408 | 117 | | 106 | | 94 | | 96 | | 96 | |
| ZZZZZZ | ZZZZZZ | 1411 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1414 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1418 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1421 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1433 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1436 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1439 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1443 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1452 | | | | | | | | | | |
| CCV03 | CCV03 | 1500 | 108 | | 103 | | 89 | | 95 | | 95 | |

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc. Contract: JACO05

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q | Element 165Ho | Q |
| CCB03 | CCB03 | 1513 | 116 | | 113 | | 109 | | 103 | | 103 | |

Internal Standard %RI Limit: 70 - 130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

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

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

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

Run Number: LB135315 End Date : 04/04/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 165Ho | Q | Element 209Bi | Q | Element | Q | Element | Q | Element | Q |
| S0 | S0 | 1409 | 100 | | 100 | | | | | | | |
| S2 | S2 | 1415 | 99 | | 99 | | | | | | | |
| S3 | S3 | 1419 | 99 | | 101 | | | | | | | |
| S4 | S4 | 1422 | 100 | | 101 | | | | | | | |
| S5 | S5 | 1425 | 99 | | 103 | | | | | | | |
| S6 | S6 | 1428 | 101 | | 103 | | | | | | | |
| S7 | S7 | 1431 | 104 | | 102 | | | | | | | |
| S8 | S8 | 1433 | 114 | | 105 | | | | | | | |
| ICV01 | ICV01 | 1458 | 106 | | 107 | | | | | | | |
| LLICV | LLICV | 1517 | 105 | | 107 | | | | | | | |
| ICB01 | ICB01 | 1520 | 107 | | 107 | | | | | | | |
| ICSA01 | ICSA01 | 1524 | 109 | | 105 | | | | | | | |
| ICSAB01 | ICSAB01 | 1527 | 111 | | 109 | | | | | | | |
| CCV01 | CCV01 | 1530 | 112 | | 106 | | | | | | | |
| CCB01 | CCB01 | 1533 | 109 | | 110 | | | | | | | |
| CRI | CRI | 1537 | 109 | | 111 | | | | | | | |
| PB167465BL | PB167465BL | 1540 | 108 | | 110 | | | | | | | |
| PB167465BS | PB167465BS | 1543 | 111 | | 110 | | | | | | | |
| Q1711-01 | MW-18B-56-04 | 1546 | 122 | | 121 | | | | | | | |
| Q1711-01DUP | MW-18B-56-04 | 1549 | 124 | | 121 | | | | | | | |
| Q1711-01L | MW-18B-56-04 | 1553 | 112 | | 112 | | | | | | | |
| Q1711-02 | MW-18B-56-04 | 1556 | 124 | | 122 | | | | | | | |
| Q1711-03 | MW-18B-56-04 | 1559 | 123 | | 122 | | | | | | | |
| Q1711-01A | MW-18B-56-04 | 1602 | 125 | | 123 | | | | | | | |
| CCV02 | CCV02 | 1610 | 116 | | 111 | | | | | | | |
| CCB02 | CCB02 | 1615 | 110 | | 111 | | | | | | | |
| Q1711-04 | MW-17B-55-04 | 1618 | 125 | | 125 | | | | | | | |
| Q1711-08 | EB01-040225 | 1621 | 124 | | 126 | | | | | | | |
| CCV03 | CCV03 | 1624 | 111 | | 106 | | | | | | | |
| CCB03 | CCB03 | 1628 | 110 | | 112 | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

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

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

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

Run Number: LB135315 End Date : 04/04/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 209Bi | Q | Element | Q | Element | Q | Element | Q | Element | Q |
| S0 | S0 | 1409 | 100 | | | | | | | | | |
| S2 | S2 | 1415 | 100 | | | | | | | | | |
| S3 | S3 | 1419 | 103 | | | | | | | | | |
| S4 | S4 | 1422 | 103 | | | | | | | | | |
| S5 | S5 | 1425 | 105 | | | | | | | | | |
| S6 | S6 | 1428 | 104 | | | | | | | | | |
| S7 | S7 | 1431 | 104 | | | | | | | | | |
| S8 | S8 | 1433 | 98 | | | | | | | | | |
| ICV01 | ICV01 | 1458 | 107 | | | | | | | | | |
| LLICV | LLICV | 1517 | 104 | | | | | | | | | |
| ICB01 | ICB01 | 1520 | 108 | | | | | | | | | |
| ICSA01 | ICSA01 | 1524 | 105 | | | | | | | | | |
| ICSAB01 | ICSAB01 | 1527 | 109 | | | | | | | | | |
| CCV01 | CCV01 | 1530 | 102 | | | | | | | | | |
| CCB01 | CCB01 | 1533 | 109 | | | | | | | | | |
| CRI | CRI | 1537 | 109 | | | | | | | | | |
| PB167465BL | PB167465BL | 1540 | 109 | | | | | | | | | |
| PB167465BS | PB167465BS | 1543 | 107 | | | | | | | | | |
| Q1711-01 | MW-18B-56-04 | 1546 | 118 | | | | | | | | | |
| Q1711-01DUP | MW-18B-56-04 | 1549 | 117 | | | | | | | | | |
| Q1711-01L | MW-18B-56-04 | 1553 | 110 | | | | | | | | | |
| Q1711-02 | MW-18B-56-04 | 1556 | 116 | | | | | | | | | |
| Q1711-03 | MW-18B-56-04 | 1559 | 116 | | | | | | | | | |
| Q1711-01A | MW-18B-56-04 | 1602 | 117 | | | | | | | | | |
| CCV02 | CCV02 | 1610 | 107 | | | | | | | | | |
| CCB02 | CCB02 | 1615 | 109 | | | | | | | | | |
| Q1711-04 | MW-17B-55-04 | 1618 | 122 | | | | | | | | | |
| Q1711-08 | EB01-040225 | 1621 | 121 | | | | | | | | | |
| CCV03 | CCV03 | 1624 | 104 | | | | | | | | | |
| CCB03 | CCB03 | 1628 | 110 | | | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

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

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 165Ho | Q | Element 209Bi | Q | Element | Q | Element | Q | Element | Q |
| S0 | S0 | 1129 | 100 | | 100 | | | | | | | |
| S2 | S2 | 1136 | 99 | | 99 | | | | | | | |
| S3 | S3 | 1139 | 98 | | 97 | | | | | | | |
| S4 | S4 | 1142 | 99 | | 96 | | | | | | | |
| S5 | S5 | 1145 | 99 | | 95 | | | | | | | |
| S6 | S6 | 1148 | 95 | | 90 | | | | | | | |
| S7 | S7 | 1151 | 96 | | 88 | | | | | | | |
| S8 | S8 | 1154 | 86 | | 74 | | | | | | | |
| ICV01 | ICV01 | 1240 | 101 | | 100 | | | | | | | |
| LLICV | LLICV | 1244 | 99 | | 99 | | | | | | | |
| ICB01 | ICB01 | 1248 | 98 | | 99 | | | | | | | |
| ICSA01 | ICSA01 | 1257 | 95 | | 86 | | | | | | | |
| ICSAB01 | ICSAB01 | 1304 | 96 | | 88 | | | | | | | |
| CCV01 | CCV01 | 1307 | 91 | | 80 | | | | | | | |
| CCB01 | CCB01 | 1317 | 101 | | 101 | | | | | | | |
| CRI | CRI | 1320 | 102 | | 102 | | | | | | | |
| Q1711-12 | MW-17B-55-04 | 1324 | 102 | | 99 | | | | | | | |
| Q1711-13 | EB01-040225 | 1327 | 102 | | 101 | | | | | | | |
| Q1711-14 | MW-18B-56-04 | 1330 | 99 | | 95 | | | | | | | |
| Q1711-14DUP | MW-18B-56-04 | 1333 | 102 | | 96 | | | | | | | |
| Q1711-14L | MW-18B-56-04 | 1337 | 100 | | 97 | | | | | | | |
| Q1711-15 | MW-18B-56-04 | 1340 | 99 | | 93 | | | | | | | |
| Q1711-16 | MW-18B-56-04 | 1343 | 100 | | 91 | | | | | | | |
| CCV02 | CCV02 | 1358 | 88 | | 80 | | | | | | | |
| CCB02 | CCB02 | 1405 | 97 | | 97 | | | | | | | |
| Q1711-14A | MW-18B-56-04 | 1408 | 95 | | 89 | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1411 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1414 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1418 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1421 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1433 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1436 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1439 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1443 | | | | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

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

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 165Ho | Q | Element 209Bi | Q | Element | Q | Element | Q | Element | Q |
| ZZZZZZ | ZZZZZZ | 1452 | | | | | | | | | | |
| CCV03 | CCV03 | 1500 | 93 | | 83 | | | | | | | |
| CCB03 | CCB03 | 1513 | 101 | | 102 | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

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

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 209Bi | Q | Element | Q | Element | Q | Element | Q | Element | Q |
| S0 | S0 | 1129 | 100 | | | | | | | | | |
| S2 | S2 | 1136 | 101 | | | | | | | | | |
| S3 | S3 | 1139 | 99 | | | | | | | | | |
| S4 | S4 | 1142 | 97 | | | | | | | | | |
| S5 | S5 | 1145 | 95 | | | | | | | | | |
| S6 | S6 | 1148 | 92 | | | | | | | | | |
| S7 | S7 | 1151 | 89 | | | | | | | | | |
| S8 | S8 | 1154 | 76 | | | | | | | | | |
| ICV01 | ICV01 | 1240 | 98 | | | | | | | | | |
| LLICV | LLICV | 1244 | 98 | | | | | | | | | |
| ICB01 | ICB01 | 1248 | 97 | | | | | | | | | |
| ICSA01 | ICSA01 | 1257 | 86 | | | | | | | | | |
| ICSAB01 | ICSAB01 | 1304 | 86 | | | | | | | | | |
| CCV01 | CCV01 | 1307 | 81 | | | | | | | | | |
| CCB01 | CCB01 | 1317 | 101 | | | | | | | | | |
| CRI | CRI | 1320 | 101 | | | | | | | | | |
| Q1711-12 | MW-17B-55-04 | 1324 | 99 | | | | | | | | | |
| Q1711-13 | EB01-040225 | 1327 | 101 | | | | | | | | | |
| Q1711-14 | MW-18B-56-04 | 1330 | 96 | | | | | | | | | |
| Q1711-14DUP | MW-18B-56-04 | 1333 | 99 | | | | | | | | | |
| Q1711-14L | MW-18B-56-04 | 1337 | 98 | | | | | | | | | |
| Q1711-15 | MW-18B-56-04 | 1340 | 92 | | | | | | | | | |
| Q1711-16 | MW-18B-56-04 | 1343 | 93 | | | | | | | | | |
| CCV02 | CCV02 | 1358 | 83 | | | | | | | | | |
| CCB02 | CCB02 | 1405 | 96 | | | | | | | | | |
| Q1711-14A | MW-18B-56-04 | 1408 | 89 | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1411 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1414 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1418 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1421 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1433 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1436 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1439 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1443 | | | | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

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

Lab Code: CHEM Case no.: Q1711 Sas No.: Q1711 SDG No.: Q1711

Instrument ID: P8 Start Date : 04/07/2025

Run Number: LB135332 End Date : 04/07/2025

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 209Bi | Q | Element | Q | Element | Q | Element | Q | Element | Q |
| ZZZZZZ | ZZZZZZ | 1452 | | | | | | | | | | |
| CCV03 | CCV03 | 1500 | 84 | | | | | | | | | |
| CCB03 | CCB03 | 1513 | 104 | | | | | | | | | |

Internal Standard %RI Limit: 70 -130

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

MW-18B-56-040225L

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

**Lab Code:** CHEM **Lb No.:** lb135315 **Lab Sample ID :** Q1711-01L **SDG No.:** Q1711

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

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 1470 | | 1510 | | 3 | | P |
| Antimony | 1.67 | J | 1.75 | J | 5 | | P |
| Arsenic | 0.85 | J | 0.90 | J | 6 | | P |
| Barium | 119 | | 122 | | 2 | | P |
| Beryllium | 1.00 | U | 5.00 | U | | | P |
| Cadmium | 1.00 | U | 5.00 | U | | | P |
| Chromium | 0.58 | J | 10.0 | U | 100.0 | | P |
| Copper | 2.00 | U | 10.0 | U | | | P |
| Iron | 560 | | 580 | | 4 | | P |
| Lead | 1.00 | U | 5.00 | U | | | P |
| Magnesium | 315 | J | 323 | J | 2 | | P |
| Manganese | 4.19 | | 4.75 | J | 13 | | P |
| Potassium | 23000 | | 23300 | | 1 | | P |
| Selenium | 5.00 | U | 25.0 | U | | | P |
| Sodium | 20000 | | 20100 | | 1 | | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

MW-18B-56-040225L

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

**Lab Code:** CHEM **Lb No.:** lb135332 **Lab Sample ID :** Q1711-14L **SDG No.:** Q1711

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

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 1520 | | 1560 | | 2 | | P |
| Antimony | 1.75 | J | 1.75 | J | 0 | | P |
| Arsenic | 0.93 | J | 1.00 | J | 8 | | P |
| Barium | 124 | | 121 | | 3 | | P |
| Beryllium | 1.00 | U | 5.00 | U | | | P |
| Cadmium | 1.00 | U | 5.00 | U | | | P |
| Chromium | 2.00 | U | 10.0 | U | | | P |
| Copper | 2.00 | U | 10.0 | U | | | P |
| Iron | 40.3 | J | 250 | U | 100.0 | | P |
| Lead | 1.00 | U | 5.00 | U | | | P |
| Magnesium | 399 | J | 408 | J | 2 | | P |
| Manganese | 9.43 | | 12.2 | | 29 | | P |
| Potassium | 25100 | | 25800 | | 3 | | P |
| Selenium | 5.00 | U | 25.0 | U | | | P |
| Sodium | 22000 | | 22500 | | 2 | | P |

# METAL PREPARATION & INSTRUMENT DATA

# METAL PREPARATION & ANALYICAL SUMMARY

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# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** JACOBS Engineering Group, Inc. **SDG No.:** Q1711

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

**Case No.:** Q1711 **SAS No.:** Q1711

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB167465** | | | | | | |
| PB167465BL | PB167465BL | MB | WATER | 04/04/2025 | 50.0 | 50.0 | |
| PB167465BS | PB167465BS | LCS | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-01 | MW-18B-56-040225 | SAM | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-01DUP | MW-18B-56-040225DUP | DUP | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-02 | MW-18B-56-040225MS | MS | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-03 | MW-18B-56-040225MSD | MSD | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-04 | MW-17B-55-040225 | SAM | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-08 | EB01-040225 | SAM | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-12 | MW-17B-55-040225 | SAM | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-13 | EB01-040225 | SAM | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-14 | MW-18B-56-040225 | SAM | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-14DUP | MW-18B-56-040225DUP | DUP | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-15 | MW-18B-56-040225MS | MS | WATER | 04/04/2025 | 50.0 | 50.0 | |
| Q1711-16 | MW-18B-56-040225MSD | MSD | WATER | 04/04/2025 | 50.0 | 50.0 | |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

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

**Lab code:** CHEM **Case no.:** Q1711 **Sas no.:** Q1711 **Sdg no.:** Q1711

**Instrument id number:** **Method:** **Run number:** LB135315

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

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1409 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S2 | S2 | 1 | 1415 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S3 | S3 | 1 | 1419 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S4 | S4 | 1 | 1422 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S5 | S5 | 1 | 1425 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S6 | S6 | 1 | 1428 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S7 | S7 | 1 | 1431 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S8 | S8 | 1 | 1433 | Fe,Al,K,Mg,Na |
| ICV01 | ICV01 | 1 | 1458 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| LLICV | LLICV | 1 | 1517 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| ICB01 | ICB01 | 1 | 1520 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| ICSA01 | ICSA01 | 1 | 1524 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| ICSAB01 | ICSAB01 | 1 | 1527 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCV01 | CCV01 | 1 | 1530 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCB01 | CCB01 | 1 | 1533 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CRI | CRI | 1 | 1537 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| PB167465BL | PB167465BL | 1 | 1540 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| PB167465BS | PB167465BS | 1 | 1543 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-01 | MW-18B-56-040225 | 1 | 1546 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-01DUP | MW-18B-56-040225DUP | 1 | 1549 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-01L | MW-18B-56-040225L | 5 | 1553 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-02 | MW-18B-56-040225MS | 1 | 1556 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-03 | MW-18B-56-040225MSD | 1 | 1559 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-01A | MW-18B-56-040225A | 1 | 1602 | As,K |
| CCV02 | CCV02 | 1 | 1610 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCB02 | CCB02 | 1 | 1615 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-04 | MW-17B-55-040225 | 1 | 1618 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-08 | EB01-040225 | 1 | 1621 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| CCV03 | CCV03 | 1 | 1624 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCB03 | CCB03 | 1 | 1628 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |

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**metals**
**- 14 -**
**ANALYSIS RUN LOG**

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

**Lab code:** CHEM **Case no.:** Q1711 **Sas no.:** Q1711 **Sdg no.:** Q1711

**Instrument id number:** **Method:** **Run number:** LB135332

**Start date:** 04/07/2025 **End date:** 04/07/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1129 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S2 | S2 | 1 | 1136 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S3 | S3 | 1 | 1139 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S4 | S4 | 1 | 1142 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S5 | S5 | 1 | 1145 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S6 | S6 | 1 | 1148 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S7 | S7 | 1 | 1151 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| S8 | S8 | 1 | 1154 | Fe,Al,K,Mg,Na |
| ICV01 | ICV01 | 1 | 1240 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| LLICV | LLICV | 1 | 1244 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| ICB01 | ICB01 | 1 | 1248 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| ICSA01 | ICSA01 | 1 | 1257 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| ICSAB01 | ICSAB01 | 1 | 1304 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCV01 | CCV01 | 1 | 1307 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCB01 | CCB01 | 1 | 1317 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CRI | CRI | 1 | 1320 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-12 | MW-17B-55-040225 | 1 | 1324 | Fe |
| Q1711-13 | EB01-040225 | 1 | 1327 | Fe |
| Q1711-14 | MW-18B-56-040225 | 1 | 1330 | Fe |
| Q1711-14DUP | MW-18B-56-040225DUP | 1 | 1333 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-14L | MW-18B-56-040225L | 5 | 1337 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-15 | MW-18B-56-040225MS | 1 | 1340 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-16 | MW-18B-56-040225MSD | 1 | 1343 | Al,As,Ba,Be,Cd,Cr,Cu,Fe,K,Mg,Mn,Na,Pb,Sb,Se |
| CCV02 | CCV02 | 1 | 1358 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCB02 | CCB02 | 1 | 1405 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| Q1711-14A | MW-18B-56-040225A | 1 | 1408 | As |
| CCV03 | CCV03 | 1 | 1500 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |
| CCB03 | CCB03 | 1 | 1513 | Fe,Al,As,Ba,Be,Cd,Cr,Cu,K,Mg,Mn,Na,Pb,Sb,Se |

# METAL
# RAW DATA

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7040425MS.b\
Analysis File: P7040425MS.batch.bin
DA Date-Time: 2025-04-04 16:38:09
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 005CALB.d | S00 | 2025-04-04 14:09:04 |
| 2 | 007CALS.d | S02 | 2025-04-04 14:15:42 |
| 3 | 008CALS.d | S03 | 2025-04-04 14:19:02 |
| 4 | 009CALS.d | S04 | 2025-04-04 14:22:15 |
| 5 | 010CALS.d | S05 | 2025-04-04 14:25:20 |
| 6 | 011CALS.d | S06 | 2025-04-04 14:28:16 |
| 7 | 012CALS.d | S07 | 2025-04-04 14:31:06 |
| 8 | 013CALS.d | S08 | 2025-04-04 14:33:50 |

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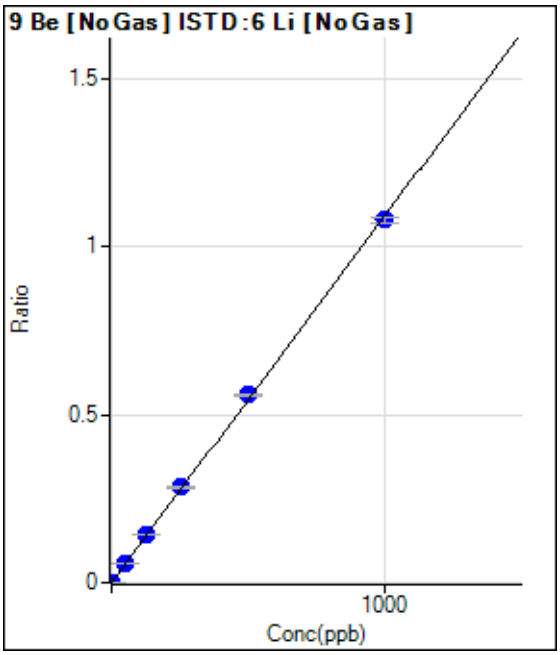
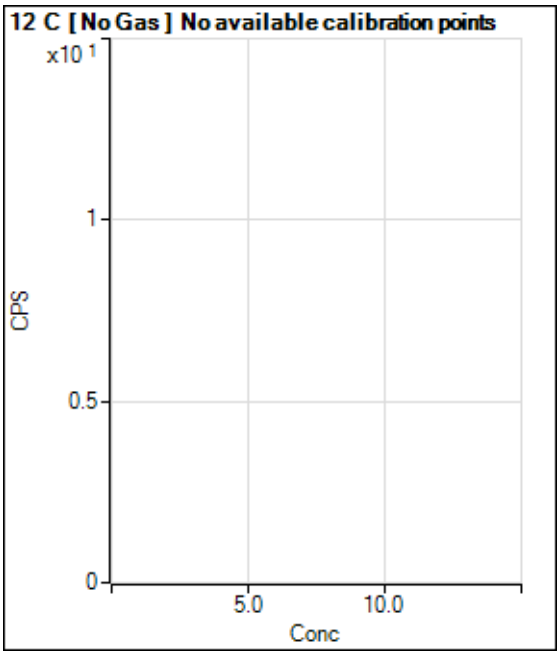
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 29.59 | 0.0000 | P | 26.9 |
| 2 | ☐ | 1.000 | 1.085 | 785.80 | 0.0012 | P | 5.1 |
| 3 | ☐ | 50.000 | 53.223 | 37361.65 | 0.0581 | P | 1.3 |
| 4 | ☐ | 125.000 | 132.075 | 94855.18 | 0.1442 | P | 0.5 |
| 5 | ☐ | 250.000 | 259.919 | 193496.05 | 0.2837 | P | 1.0 |
| 6 | ☐ | 500.000 | 512.361 | 383856.82 | 0.5593 | P | 0.6 |
| 7 | ☐ | 1000.000 | 990.294 | 741251.20 | 1.0809 | P | 1.8 |
| 8 | ☐ | | | 112.38 | 0.0002 | P | 18.3 |

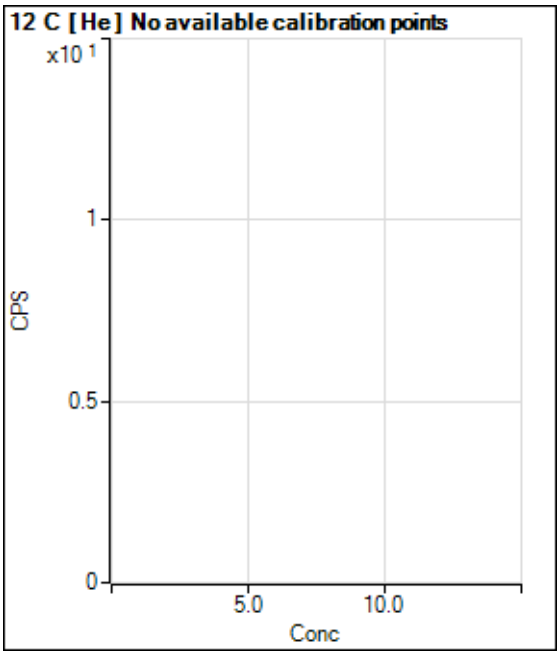
y = 0.0011 * x + 4.7272E-005
R = 0.9998
DL = 0.03497
BEC = 0.04331

Weight: <None>
Min Conc: 0

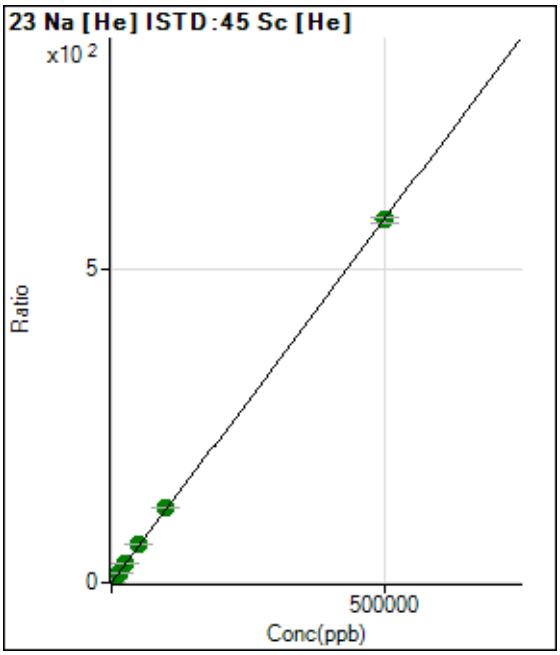



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




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




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13975.32 | 0.0531 | P | 0.5 |
| 2 | ☐ | 500.000 | 555.429 | 184022.23 | 0.6968 | P | 1.1 |
| 3 | ☐ | 5000.000 | 5353.265 | 1624227.08 | 6.2575 | A | 0.8 |
| 4 | ☐ | 12500.000 | 13060.054 | 3938192.96 | 15.1895 | A | 0.5 |
| 5 | ☐ | 25000.000 | 26294.381 | 7669206.69 | 30.5280 | A | 0.1 |
| 6 | ☐ | 50000.000 | 51947.376 | 15257810.88 | 60.2595 | A | 0.7 |
| 7 | ☐ | 100000.00 | 103006.47 | 31155811.20 | 119.4364 | A | 1.3 |
| 8 | ☐ | 500000.00 | 499121.65 | 163960488.6 | 578.5296 | A | 1.3 |

y = 0.0012 * x + 0.0531
R = 1.0000
DL = 0.7143
BEC = 45.79

Weight: <None>
Min Conc: 0

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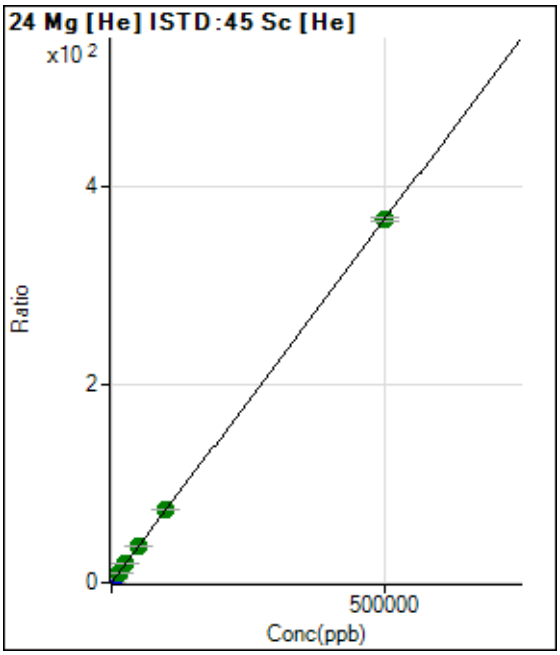
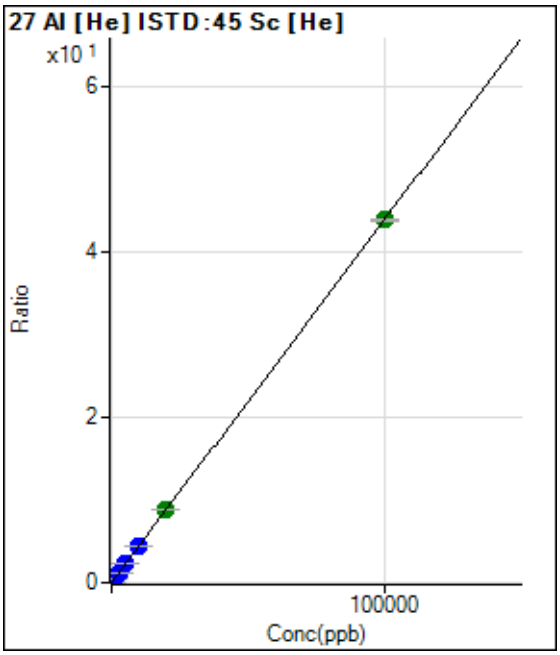
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 151.11 | 0.0006 | P | 6.7 |
| 2 | ☐ | 500.000 | 551.294 | 106945.38 | 0.4050 | P | 1.0 |
| 3 | ☐ | 5000.000 | 5169.360 | 984363.68 | 3.7923 | P | 0.8 |
| 4 | ☐ | 12500.000 | 12933.457 | 2459756.27 | 9.4873 | A | 1.1 |
| 5 | ☐ | 25000.000 | 25850.546 | 4763577.71 | 18.9621 | A | 0.4 |
| 6 | ☐ | 50000.000 | 50929.794 | 9459041.04 | 37.3578 | A | 0.7 |
| 7 | ☐ | 100000.00 | 100797.85 | 19287065.68 | 73.9363 | A | 1.0 |
| 8 | ☐ | 500000.00 | 499692.34 | 103877362.9 | 366.5274 | A | 1.0 |

y = 7.3351E-004 * x + 5.7390E-004
R = 1.0000
DL = 0.1571
BEC = 0.7824

Weight: <None>
Min Conc: 0

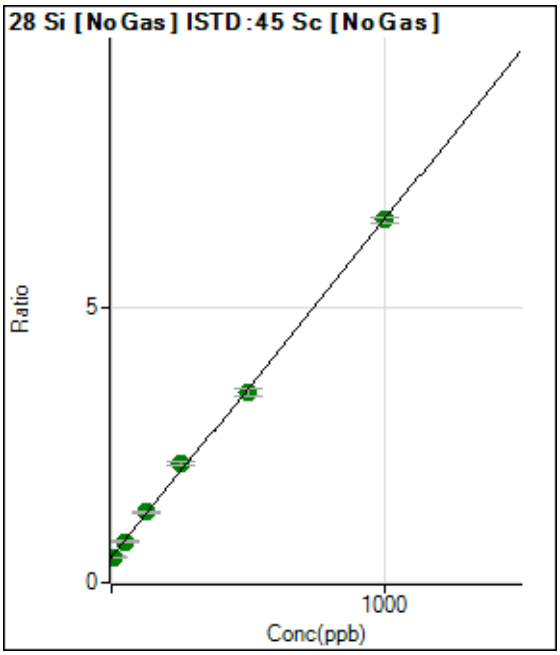



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 373.34 | 0.0014 | P | 6.1 |
| 2 | ☐ | 20.000 | 21.630 | 2878.08 | 0.0109 | P | 3.8 |
| 3 | ☐ | 1000.000 | 1034.422 | 118055.15 | 0.4548 | P | 1.1 |
| 4 | ☐ | 2500.000 | 2540.085 | 289029.80 | 1.1148 | P | 0.9 |
| 5 | ☐ | 5000.000 | 5103.771 | 562343.44 | 2.2385 | P | 0.8 |
| 6 | ☐ | 10000.000 | 9992.678 | 1109364.36 | 4.3814 | P | 1.1 |
| 7 | ☐ | 20000.000 | 20140.550 | 2303271.29 | 8.8294 | A | 0.8 |
| 8 | ☐ | 100000.00 | 99966.087 | 12418662.18 | 43.8186 | A | 0.7 |

y = 4.3832E-004 * x + 0.0014
R = 1.0000
DL = 0.5886
BEC = 3.235

Weight: <None>
Min Conc: 0

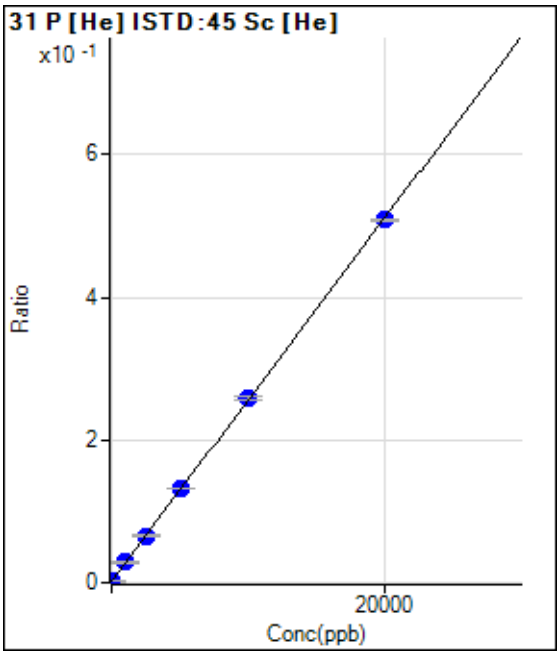
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1281360.58 | 0.4643 | A | 4.4 |
| 2 | ☐ | 10.000 | 0.201 | 1280496.01 | 0.4655 | A | 0.2 |
| 3 | ☐ | 50.000 | 46.401 | 2050301.60 | 0.7500 | A | 1.5 |
| 4 | ☐ | 125.000 | 132.862 | 3575966.82 | 1.2824 | A | 0.9 |
| 5 | ☐ | 250.000 | 278.115 | 5918683.45 | 2.1767 | A | 3.0 |
| 6 | ☐ | 500.000 | 489.070 | 9588080.90 | 3.4757 | A | 3.8 |
| 7 | ☐ | 1000.000 | 997.732 | 18555410.70 | 6.6077 | A | 1.6 |
| 8 | ☐ | | | 989562.37 | 0.3169 | M | 23.4 |

y = 0.0062 * x + 0.4643
R = 0.9993
DL = 9.88
BEC = 75.41

Weight: <None>
Min Conc: 0

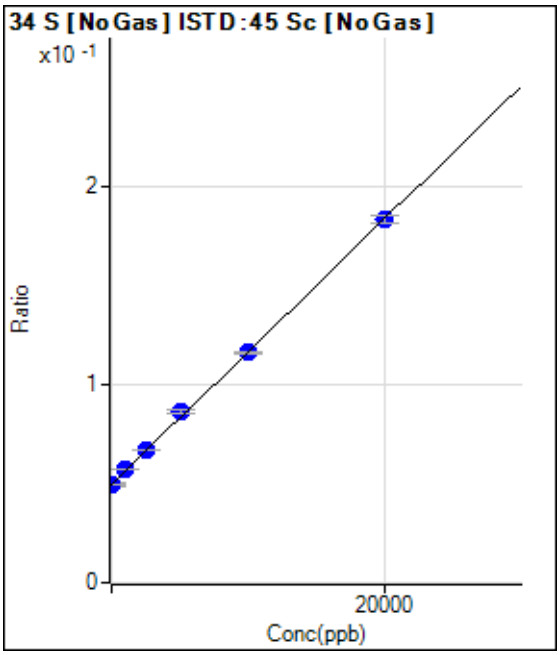



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -22.478 | 310.01 | 0.0012 | P | 6.5 |
| 2 | ☐ | 0.000 | 22.478 | 613.35 | 0.0023 | P | 7.1 |
| 3 | ☐ | 1000.000 | 1049.125 | 7386.29 | 0.0285 | P | 2.1 |
| 4 | ☐ | 2500.000 | 2522.112 | 17096.31 | 0.0659 | P | 1.0 |
| 5 | ☐ | 5000.000 | 5107.725 | 33095.83 | 0.1317 | P | 1.5 |
| 6 | ☐ | 10000.000 | 10105.288 | 65560.80 | 0.2589 | P | 1.9 |
| 7 | ☐ | 20000.000 | 19915.204 | 132676.10 | 0.5086 | P | 0.7 |
| 8 | ☐ | | | 370.01 | 0.0013 | P | 3.0 |

y = 2.5451E-005 * x + 0.0017
R = 1.0000
DL = 14.14
BEC = 68.75

Weight: <None>
Min Conc: 0

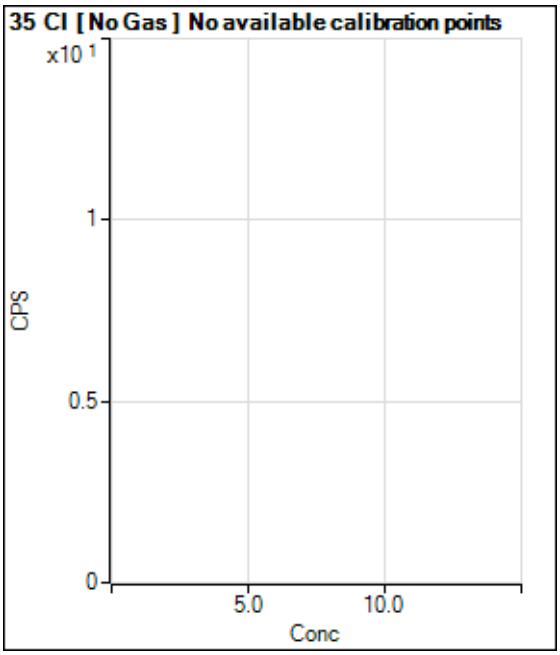
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -43.787 | 136183.50 | 0.0493 | P | 3.5 |
| 2 | ☐ | 0.000 | 43.787 | 137326.84 | 0.0499 | P | 0.5 |
| 3 | ☐ | 1000.000 | 1138.575 | 156589.24 | 0.0573 | P | 1.1 |
| 4 | ☐ | 2500.000 | 2570.465 | 186557.72 | 0.0669 | P | 0.4 |
| 5 | ☐ | 5000.000 | 5459.629 | 234661.83 | 0.0863 | P | 2.5 |
| 6 | ☐ | 10000.000 | 9920.269 | 320822.24 | 0.1163 | P | 1.4 |
| 7 | ☐ | 20000.000 | 19909.221 | 514883.16 | 0.1834 | P | 2.3 |
| 8 | ☐ | | | 112867.53 | 0.0360 | P | 12.9 |

y = 6.7170E-006 * x + 0.0496
R = 0.9997
DL = 437.1
BEC = 7389

Weight: <None>
Min Conc: 0




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

Reviewed By:mohan
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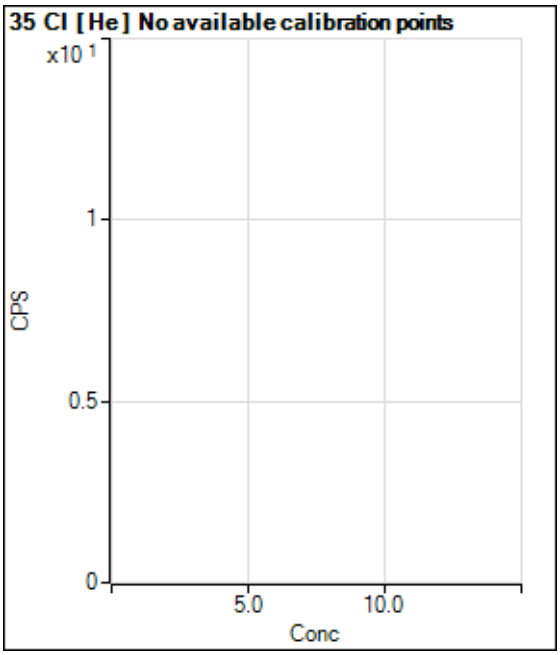
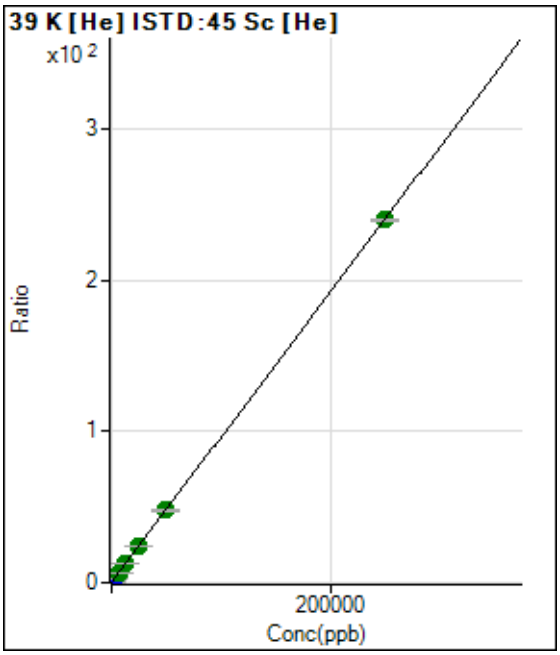
Inst Id :P7
LB :LB135315




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

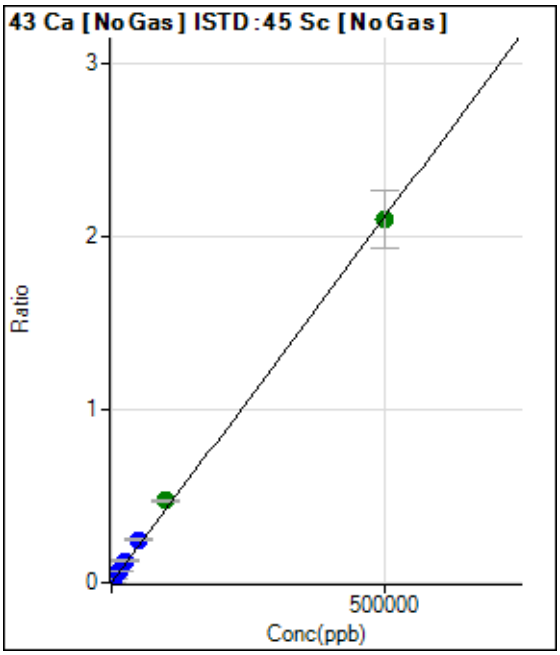



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 49826.96 | 0.1892 | P | 0.7 |
| 2 | ☐ | 500.000 | 568.906 | 194006.25 | 0.7346 | P | 0.2 |
| 3 | ☐ | 2500.000 | 2682.115 | 716507.04 | 2.7603 | P | 0.3 |
| 4 | ☐ | 6250.000 | 6320.818 | 1620018.29 | 6.2484 | A | 1.2 |
| 5 | ☐ | 12500.000 | 12612.894 | 3084892.24 | 12.2799 | A | 1.0 |
| 6 | ☐ | 25000.000 | 25143.845 | 6150722.27 | 24.2920 | A | 0.9 |
| 7 | ☐ | 50000.000 | 49722.699 | 12482407.59 | 47.8533 | A | 1.8 |
| 8 | ☐ | 250000.00 | 250031.70 | 67981408.98 | 239.8689 | A | 0.7 |

y = 9.5860E-004 * x + 0.1892
R = 1.0000
DL = 4.239
BEC = 197.4

Weight: <None>
Min Conc: 0

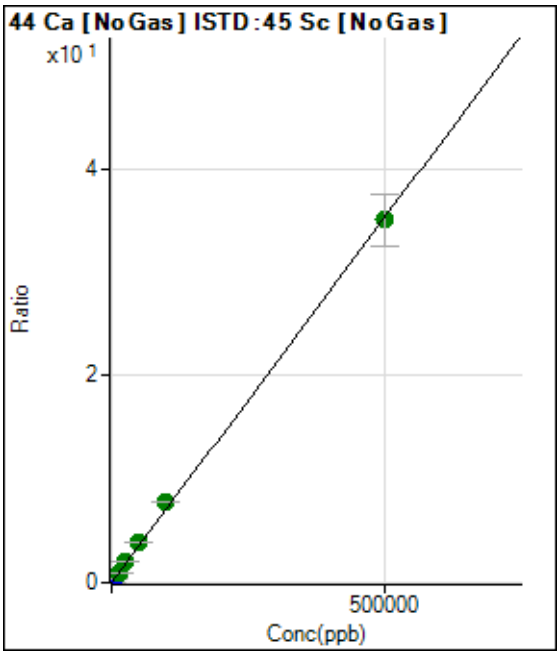
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 411.12 | 0.0001 | P | 3.2 |
| 2 | ☐ | 500.000 | 638.164 | 7833.19 | 0.0028 | P | 1.2 |
| 3 | ☐ | 5000.000 | 6028.661 | 70107.94 | 0.0256 | P | 1.7 |
| 4 | ☐ | 12500.000 | 14735.769 | 174214.94 | 0.0625 | P | 0.2 |
| 5 | ☐ | 25000.000 | 30200.068 | 347717.50 | 0.1279 | P | 2.1 |
| 6 | ☐ | 50000.000 | 58825.161 | 686779.50 | 0.2489 | P | 3.0 |
| 7 | ☐ | 100000.00 | 111834.07 | 1328684.26 | 0.4731 | A | 1.4 |
| 8 | ☐ | 500000.00 | 496424.34 | 6567233.79 | 2.0997 | A | 15.7 |

y = 4.2294E-006 * x + 1.4878E-004
R = 0.9996
DL = 3.369
BEC = 35.18

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8399.36 | 0.0030 | P | 4.5 |
| 2 | ☐ | 500.000 | 634.163 | 131278.14 | 0.0477 | P | 1.3 |
| 3 | ☐ | 5000.000 | 5857.774 | 1136680.00 | 0.4158 | P | 0.8 |
| 4 | ☐ | 12500.000 | 13860.482 | 2731916.42 | 0.9797 | A | 0.7 |
| 5 | ☐ | 25000.000 | 28326.264 | 5434619.50 | 1.9990 | A | 3.4 |
| 6 | ☐ | 50000.000 | 55239.490 | 10747658.10 | 3.8953 | A | 2.1 |
| 7 | ☐ | 100000.00 | 110983.84 | 21969185.65 | 7.8232 | A | 1.6 |
| 8 | ☐ | 500000.00 | 497070.24 | 109631225.0 | 35.0276 | A | 14.4 |

y = 7.0462E-005 * x + 0.0030
R = 0.9997
DL = 5.821
BEC = 43.19

Weight: <None>
Min Conc: 0

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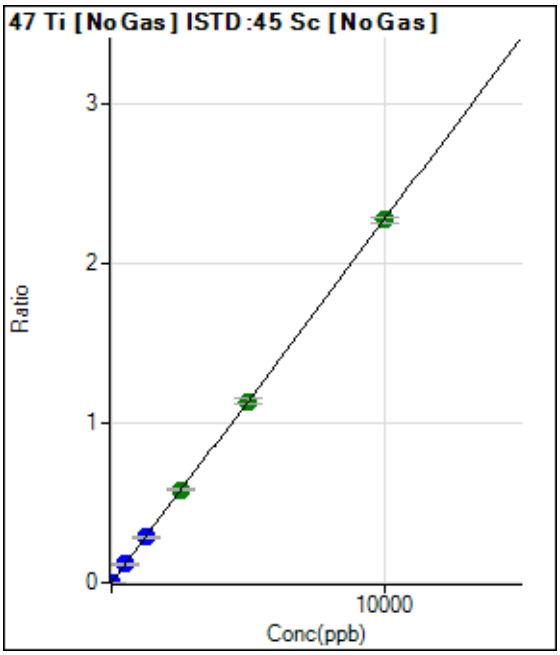
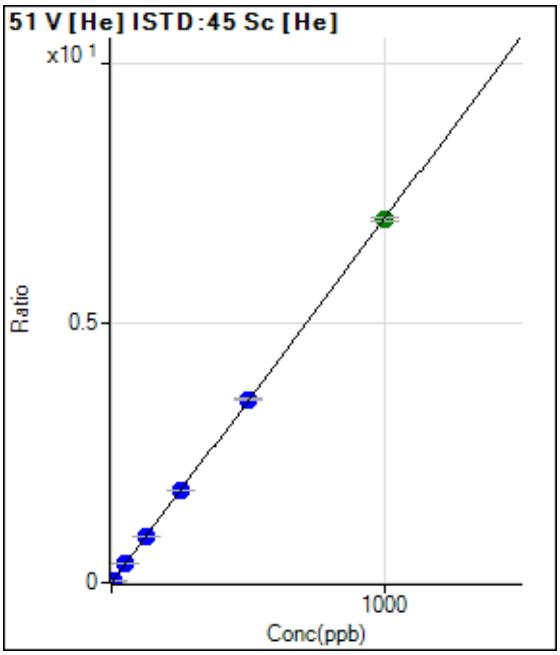
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 54.45 | 0.0000 | P | 22.2 |
| 2 | ☐ | 5.000 | 5.384 | 3429.31 | 0.0012 | P | 2.8 |
| 3 | ☐ | 500.000 | 504.786 | 314528.19 | 0.1151 | P | 1.1 |
| 4 | ☐ | 1250.000 | 1244.046 | 790667.95 | 0.2835 | P | 0.5 |
| 5 | ☐ | 2500.000 | 2559.743 | 1585997.69 | 0.5834 | A | 3.5 |
| 6 | ☐ | 5000.000 | 5000.291 | 3143671.34 | 1.1395 | A | 3.0 |
| 7 | ☐ | 10000.000 | 9985.424 | 6390259.07 | 2.2756 | A | 1.6 |
| 8 | ☐ | | | 472.24 | 0.0002 | P | 34.3 |

y = 2.2789E-004 * x + 1.9787E-005
R = 1.0000
DL = 0.05789
BEC = 0.08683

Weight: <None>
Min Conc: 0

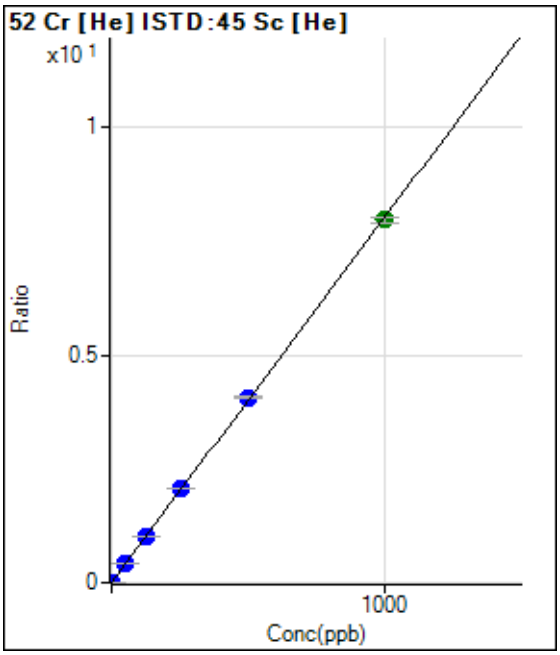



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7.78 | 0.0000 | P | 108. |
| 2 | ☐ | 5.000 | 5.293 | 9825.50 | 0.0372 | P | 1.5 |
| 3 | ☐ | 50.000 | 50.510 | 92084.42 | 0.3548 | P | 0.8 |
| 4 | ☐ | 125.000 | 125.839 | 229139.35 | 0.8838 | P | 0.1 |
| 5 | ☐ | 250.000 | 254.054 | 448219.85 | 1.7842 | P | 0.6 |
| 6 | ☐ | 500.000 | 504.423 | 896969.19 | 3.5425 | P | 0.5 |
| 7 | ☐ | 1000.000 | 996.643 | 1825850.10 | 6.9993 | A | 1.1 |
| 8 | ☐ | | | 598.91 | 0.0021 | P | 8.5 |

y = 0.0070 * x + 2.9666E-005
R = 1.0000
DL = 0.0137
BEC = 0.004224

Weight: <None>
Min Conc: 0

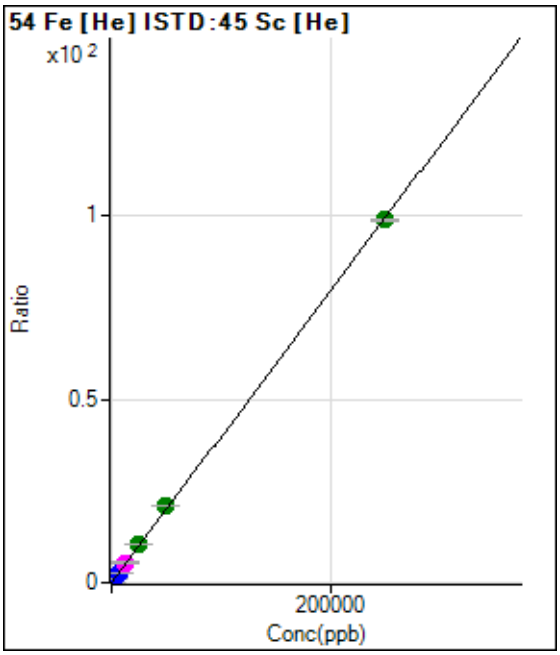
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 861.14 | 0.0033 | P | 10.5 |
| 2 | ☐ | 2.000 | 2.211 | 5542.18 | 0.0210 | P | 1.2 |
| 3 | ☐ | 50.000 | 51.624 | 108232.74 | 0.4170 | P | 0.2 |
| 4 | ☐ | 125.000 | 127.391 | 265520.08 | 1.0241 | P | 0.5 |
| 5 | ☐ | 250.000 | 258.158 | 520527.24 | 2.0720 | P | 0.5 |
| 6 | ☐ | 500.000 | 507.342 | 1030238.41 | 4.0688 | P | 0.4 |
| 7 | ☐ | 1000.000 | 993.909 | 2078500.70 | 7.9679 | A | 1.3 |
| 8 | ☐ | | | 19858.72 | 0.0701 | P | 1.9 |

y = 0.0080 * x + 0.0033
R = 0.9999
DL = 0.1287
BEC = 0.4083

Weight: <None>
Min Conc: 0

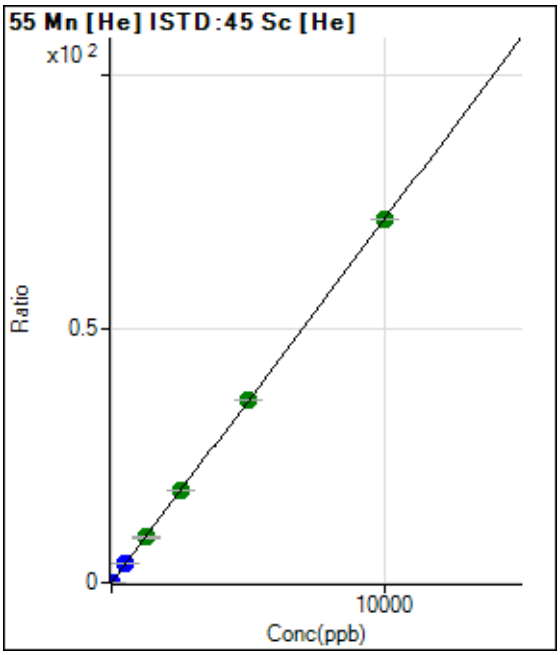



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2506.90 | 0.0095 | P | 5.7 |
| 2 | ☐ | 50.000 | 60.866 | 8892.70 | 0.0337 | P | 2.8 |
| 3 | ☐ | 2500.000 | 2783.841 | 289181.03 | 1.1141 | P | 1.0 |
| 4 | ☐ | 6250.000 | 6876.171 | 709821.62 | 2.7378 | P | 0.7 |
| 5 | ☐ | 12500.000 | 13746.945 | 1372697.41 | 5.4639 | M | 1.8 |
| 6 | ☐ | 25000.000 | 26627.924 | 2677528.54 | 10.5746 | A | 0.9 |
| 7 | ☐ | 50000.000 | 52613.001 | 5447886.83 | 20.8847 | A | 1.7 |
| 8 | ☐ | 250000.00 | 249233.76 | 28029551.53 | 98.8974 | A | 0.7 |

y = 3.9677E-004 * x + 0.0095
R = 0.9999
DL = 4.076
BEC = 24

Weight: <None>
Min Conc: 0

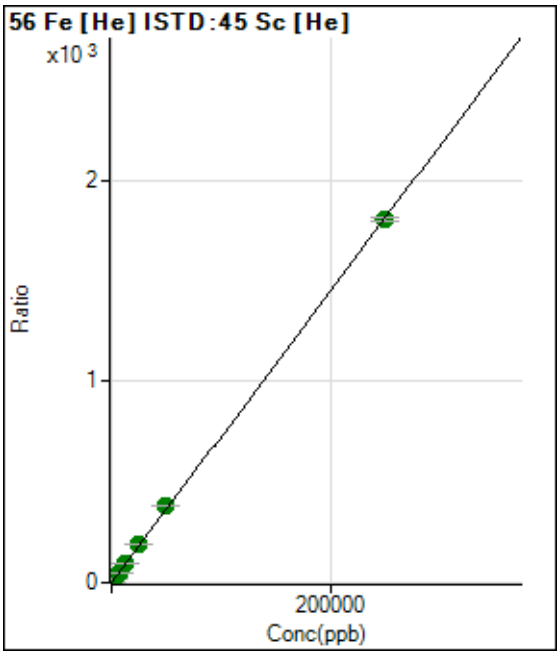
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1774.57 | 0.0067 | P | 4.0 |
| 2 | ☐ | 1.000 | 0.990 | 3648.26 | 0.0138 | P | 2.5 |
| 3 | ☐ | 500.000 | 507.637 | 943402.38 | 3.6343 | P | 0.4 |
| 4 | ☐ | 1250.000 | 1243.051 | 2304772.90 | 8.8896 | A | 1.4 |
| 5 | ☐ | 2500.000 | 2534.054 | 4550815.76 | 18.1152 | A | 1.1 |
| 6 | ☐ | 5000.000 | 5022.304 | 9089043.54 | 35.8963 | A | 0.4 |
| 7 | ☐ | 10000.000 | 9980.821 | 18608105.00 | 71.3299 | A | 0.1 |
| 8 | ☐ | | | 13065.75 | 0.0461 | P | 1.6 |

y = 0.0071 * x + 0.0067
R = 1.0000
DL = 0.1132
BEC = 0.9432

Weight: <None>
Min Conc: 0

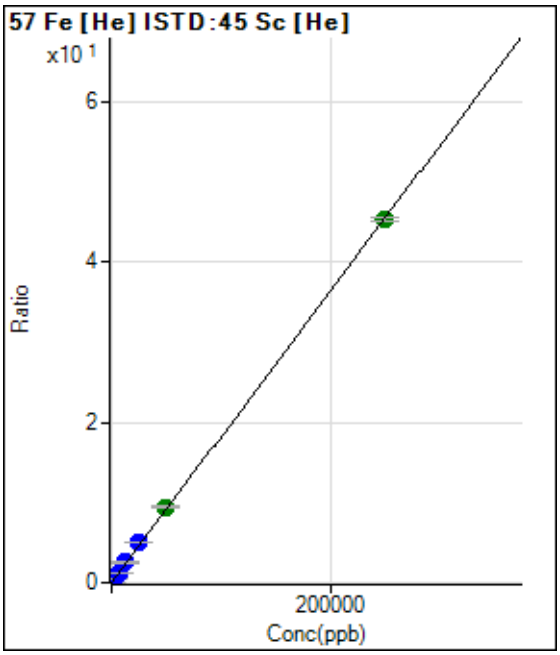



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 21637.88 | 0.0822 | P | 1.0 |
| 2 | ☐ | 50.000 | 59.518 | 135299.35 | 0.5123 | P | 1.7 |
| 3 | ☐ | 2500.000 | 2632.877 | 4960533.57 | 19.1104 | A | 1.0 |
| 4 | ☐ | 6250.000 | 6523.452 | 12244827.32 | 47.2281 | A | 0.9 |
| 5 | ☐ | 12500.000 | 13352.988 | 24263387.41 | 96.5862 | A | 0.9 |
| 6 | ☐ | 25000.000 | 26345.747 | 48231206.50 | 190.4868 | A | 0.7 |
| 7 | ☐ | 50000.000 | 52485.407 | 98971627.42 | 379.4020 | A | 0.9 |
| 8 | ☐ | 250000.00 | 249317.52 | 510686899.0 | 1,801.936 | A | 1.0 |

y = 0.0072 * x + 0.0822
R = 0.9999
DL = 0.3256
BEC = 11.37

Weight: <None>
Min Conc: 0

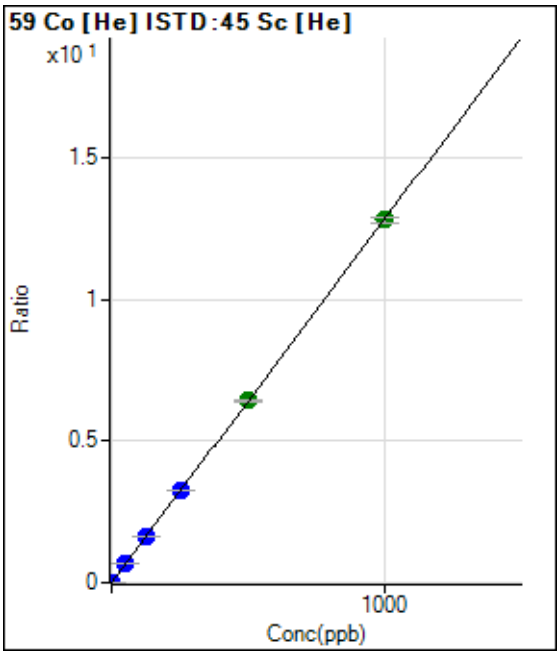
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1271.18 | 0.0048 | P | 1.4 |
| 2 | ☐ | 50.000 | 63.425 | 4315.11 | 0.0163 | P | 0.6 |
| 3 | ☐ | 2500.000 | 2759.045 | 131227.14 | 0.5056 | P | 0.5 |
| 4 | ☐ | 6250.000 | 6808.723 | 321624.88 | 1.2405 | P | 0.7 |
| 5 | ☐ | 12500.000 | 13871.578 | 633652.21 | 2.5223 | P | 0.5 |
| 6 | ☐ | 25000.000 | 27339.842 | 1257541.93 | 4.9666 | P | 0.6 |
| 7 | ☐ | 50000.000 | 52037.439 | 2464868.90 | 9.4488 | A | 0.6 |
| 8 | ☐ | 250000.00 | 249273.38 | 12822699.67 | 45.2440 | A | 1.2 |

y = 1.8148E-004 * x + 0.0048
R = 0.9999
DL = 1.148
BEC = 26.6

Weight: <None>
Min Conc: 0

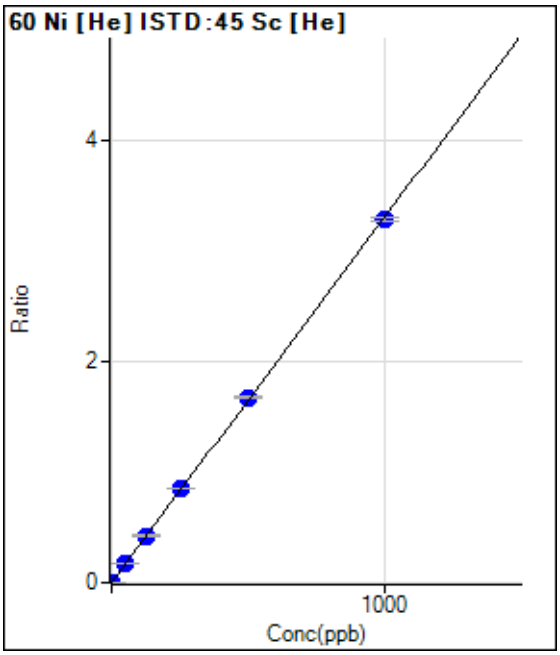



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 111.11 | 0.0004 | P | 7.2 |
| 2 | ☐ | 1.000 | 1.164 | 4058.37 | 0.0154 | P | 3.8 |
| 3 | ☐ | 50.000 | 51.106 | 170440.56 | 0.6566 | P | 0.9 |
| 4 | ☐ | 125.000 | 126.473 | 421151.55 | 1.6244 | P | 0.3 |
| 5 | ☐ | 250.000 | 255.155 | 823156.78 | 3.2767 | P | 0.5 |
| 6 | ☐ | 500.000 | 500.137 | 1626146.14 | 6.4223 | A | 0.4 |
| 7 | ☐ | 1000.000 | 998.403 | 3344210.16 | 12.8202 | A | 1.3 |
| 8 | ☐ | | | 9557.56 | 0.0337 | P | 2.0 |

y = 0.0128 * x + 4.2192E-004
R = 1.0000
DL = 0.007139
BEC = 0.03286

Weight: <None>
Min Conc: 0

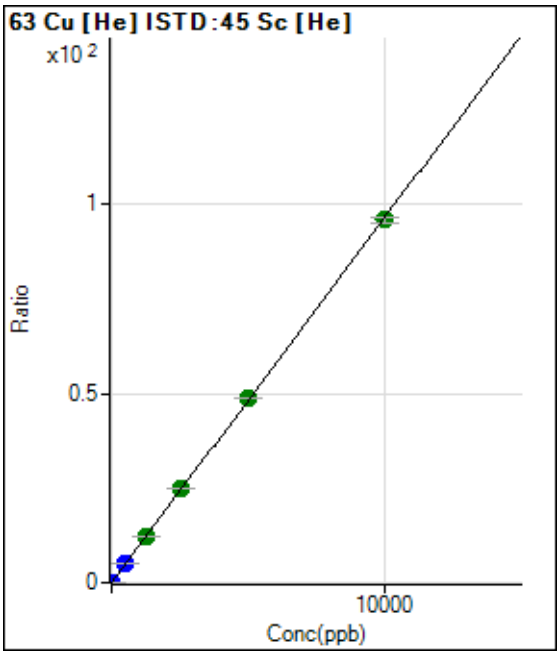
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 221.11 | 0.0008 | P | 14.0 |
| 2 | ☐ | 1.000 | 1.026 | 1116.72 | 0.0042 | P | 7.2 |
| 3 | ☐ | 50.000 | 52.453 | 45197.91 | 0.1741 | P | 1.7 |
| 4 | ☐ | 125.000 | 128.375 | 110184.41 | 0.4250 | P | 1.0 |
| 5 | ☐ | 250.000 | 258.327 | 214622.61 | 0.8543 | P | 0.5 |
| 6 | ☐ | 500.000 | 507.968 | 425162.99 | 1.6791 | P | 0.4 |
| 7 | ☐ | 1000.000 | 993.390 | 856398.35 | 3.2829 | P | 1.1 |
| 8 | ☐ | | | 3839.42 | 0.0135 | P | 3.0 |

y = 0.0033 * x + 8.3958E-004
R = 0.9999
DL = 0.1069
BEC = 0.2541

Weight: <None>
Min Conc: 0

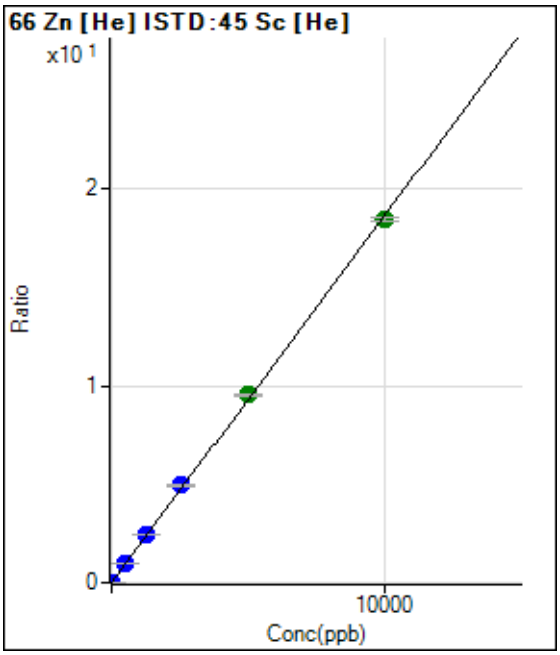



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1491.20 | 0.0057 | P | 1.7 |
| 2 | ☐ | 2.000 | 2.129 | 6916.11 | 0.0262 | P | 2.6 |
| 3 | ☐ | 500.000 | 514.689 | 1289674.68 | 4.9685 | P | 0.6 |
| 4 | ☐ | 1250.000 | 1276.062 | 3191583.04 | 12.3099 | A | 1.4 |
| 5 | ☐ | 2500.000 | 2580.910 | 6252788.17 | 24.8918 | A | 1.9 |
| 6 | ☐ | 5000.000 | 5063.227 | 12363204.68 | 48.8272 | A | 0.3 |
| 7 | ☐ | 10000.000 | 9944.167 | 25013829.90 | 95.8910 | A | 1.3 |
| 8 | ☐ | | | 8920.51 | 0.0315 | P | 2.4 |

y = 0.0096 * x + 0.0057
R = 0.9999
DL = 0.02992
BEC = 0.5873

Weight: <None>
Min Conc: 0

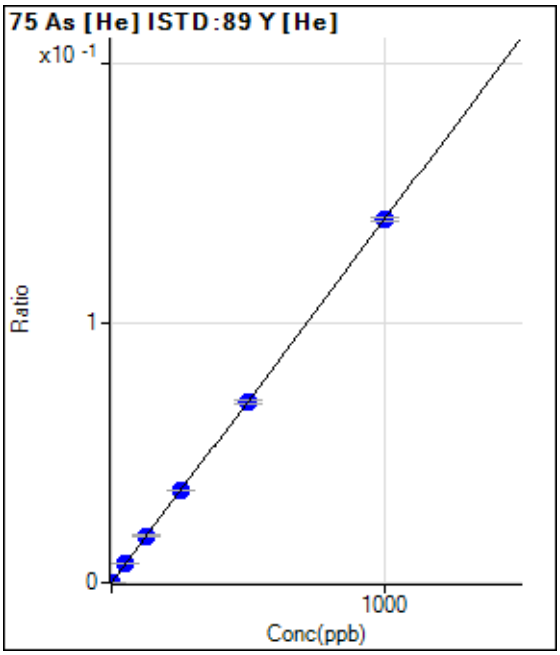
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 345.56 | 0.0013 | P | 5.1 |
| 2 | ☐ | 5.000 | 5.156 | 2883.63 | 0.0109 | P | 1.4 |
| 3 | ☐ | 500.000 | 543.494 | 263212.27 | 1.0140 | P | 0.5 |
| 4 | ☐ | 1250.000 | 1306.963 | 631742.29 | 2.4366 | P | 0.9 |
| 5 | ☐ | 2500.000 | 2651.060 | 1241303.24 | 4.9411 | P | 0.7 |
| 6 | ☐ | 5000.000 | 5122.913 | 2417385.94 | 9.5470 | A | 0.7 |
| 7 | ☐ | 10000.000 | 9891.483 | 4808305.80 | 18.4324 | A | 1.0 |
| 8 | ☐ | | | 9059.49 | 0.0320 | P | 2.5 |

y = 0.0019 * x + 0.0013
R = 0.9998
DL = 0.1083
BEC = 0.7045

Weight: <None>
Min Conc: 0

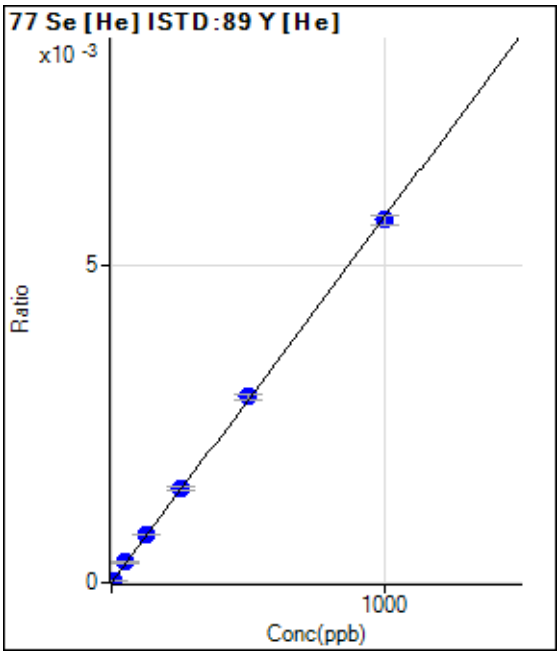



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8.89 | 0.0000 | P | 58.6 |
| 2 | ☐ | 1.000 | 1.195 | 357.79 | 0.0002 | P | 6.0 |
| 3 | ☐ | 50.000 | 51.270 | 14903.12 | 0.0072 | P | 0.4 |
| 4 | ☐ | 125.000 | 128.128 | 37403.69 | 0.0179 | P | 2.4 |
| 5 | ☐ | 250.000 | 255.025 | 73793.39 | 0.0357 | P | 0.4 |
| 6 | ☐ | 500.000 | 499.150 | 147348.94 | 0.0698 | P | 2.3 |
| 7 | ☐ | 1000.000 | 998.714 | 298258.80 | 0.1396 | P | 1.0 |
| 8 | ☐ | | | 164.45 | 0.0001 | P | 19.8 |

y = 1.3981E-004 * x + 4.3346E-006
R = 1.0000
DL = 0.05449
BEC = 0.031

Weight: <None>
Min Conc: 0

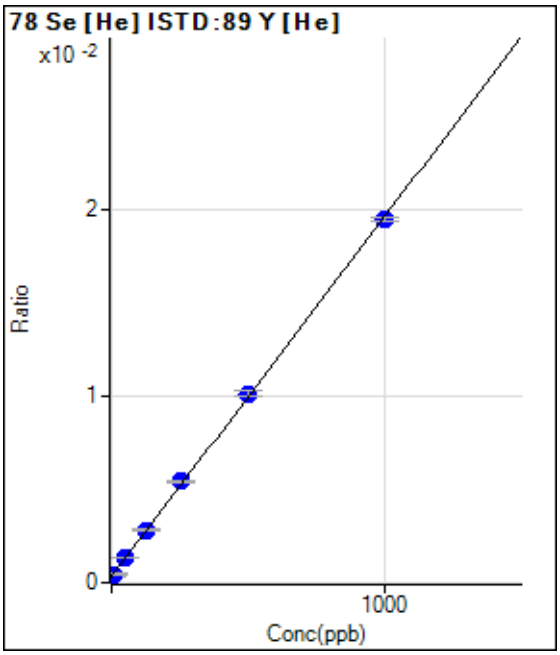
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 0.00 | 0.0000 | P | |
| 2 | ☐ | 5.000 | 5.628 | 67.78 | 0.0000 | P | 3.8 |
| 3 | ☐ | 50.000 | 56.851 | 682.24 | 0.0003 | P | 9.4 |
| 4 | ☐ | 125.000 | 130.911 | 1577.88 | 0.0008 | P | 0.7 |
| 5 | ☐ | 250.000 | 258.014 | 3082.58 | 0.0015 | P | 3.0 |
| 6 | ☐ | 500.000 | 508.929 | 6204.68 | 0.0029 | P | 2.8 |
| 7 | ☐ | 1000.000 | 992.447 | 12238.47 | 0.0057 | P | 2.5 |
| 8 | ☐ | | | 7.78 | 0.0000 | P | 26.5 |

y = 5.7730E-006 * x + 0.0000E+000
R = 0.9999
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

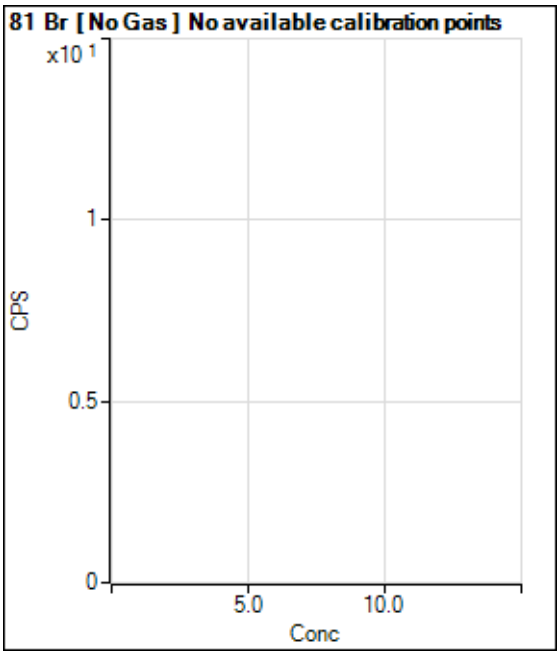



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 685.58 | 0.0003 | P | 4.5 |
| 2 | ☐ | 5.000 | 6.589 | 957.82 | 0.0005 | P | 6.7 |
| 3 | ☐ | 50.000 | 53.671 | 2839.19 | 0.0014 | P | 2.6 |
| 4 | ☐ | 125.000 | 128.337 | 5857.89 | 0.0028 | P | 2.6 |
| 5 | ☐ | 250.000 | 265.999 | 11301.08 | 0.0055 | P | 1.9 |
| 6 | ☐ | 500.000 | 508.501 | 21407.84 | 0.0101 | P | 2.4 |
| 7 | ☐ | 1000.000 | 991.141 | 41533.73 | 0.0194 | P | 1.1 |
| 8 | ☐ | | | 658.91 | 0.0003 | P | 5.3 |

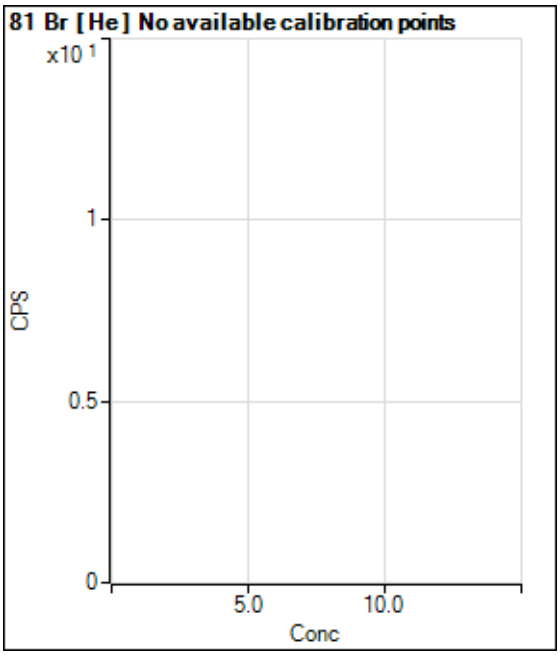
y = 1.9284E-005 * x + 3.3158E-004
R = 0.9998
DL = 2.307
BEC = 17.19

Weight: <None>
Min Conc: 0

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

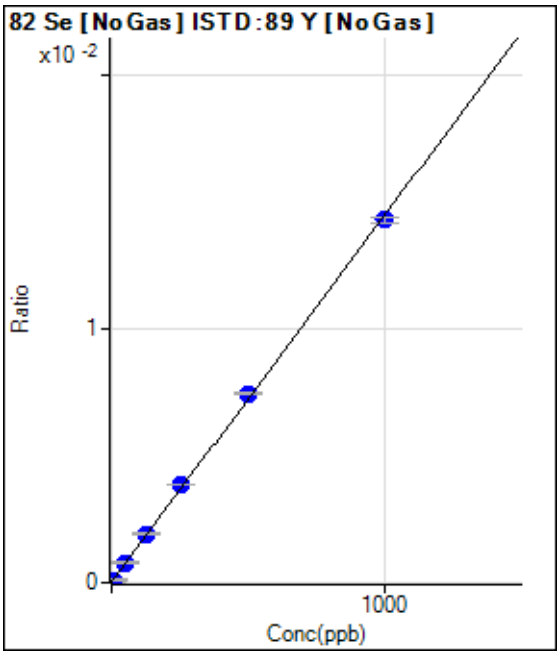



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 25258.41 | | P | 0.9 |
| 2 | ☐ | | | 24934.57 | | P | 1.0 |
| 3 | ☐ | | | 24480.40 | | P | 0.5 |
| 4 | ☐ | | | 24194.48 | | P | 0.3 |
| 5 | ☐ | | | 24374.73 | | P | 0.8 |
| 6 | ☐ | | | 24550.53 | | P | 1.1 |
| 7 | ☐ | | | 25796.06 | | P | 1.5 |
| 8 | ☐ | | | 27192.93 | | P | 3.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 312.23 | | P | 16.6 |
| 2 | ☐ | | | 235.56 | | P | 4.5 |
| 3 | ☐ | | | 184.45 | | P | 14.5 |
| 4 | ☐ | | | 193.33 | | P | 7.9 |
| 5 | ☐ | | | 205.56 | | P | 11.0 |
| 6 | ☐ | | | 181.11 | | P | 6.5 |
| 7 | ☐ | | | 165.56 | | P | 20.2 |
| 8 | ☐ | | | 228.90 | | P | 12.6 |

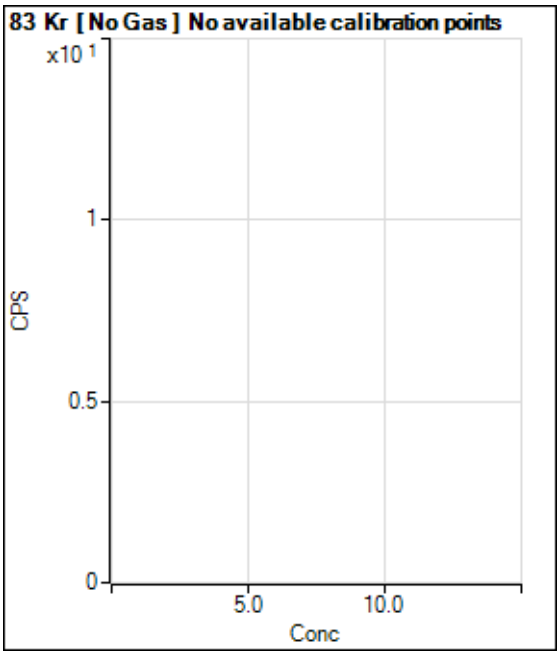
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 181.94 | 0.0000 | P | 17.5 |
| 2 | ☐ | 5.000 | 6.002 | 791.28 | 0.0001 | P | 4.4 |
| 3 | ☐ | 50.000 | 53.223 | 5483.80 | 0.0008 | P | 1.7 |
| 4 | ☐ | 125.000 | 131.746 | 13615.67 | 0.0019 | P | 1.8 |
| 5 | ☐ | 250.000 | 266.412 | 26952.85 | 0.0039 | P | 0.5 |
| 6 | ☐ | 500.000 | 513.228 | 52098.29 | 0.0074 | P | 1.3 |
| 7 | ☐ | 1000.000 | 988.273 | 102693.68 | 0.0143 | P | 1.6 |
| 8 | ☐ | | | 370.51 | 0.0000 | P | 15.2 |

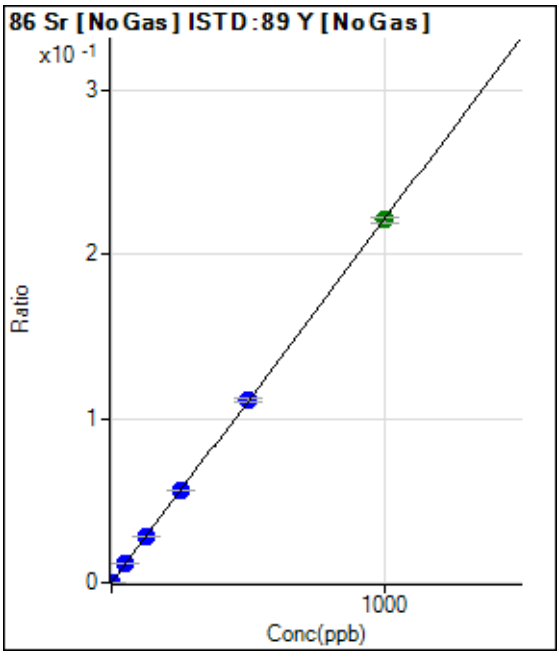
y = 1.4426E-005 * x + 2.5751E-005
R = 0.9997
DL = 0.9381
BEC = 1.785

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 330.00 | | P | 10.6 |
| 2 | ☐ | | | 343.34 | | P | 4.2 |
| 3 | ☐ | | | 362.23 | | P | 7.8 |
| 4 | ☐ | | | 414.46 | | P | 8.1 |
| 5 | ☐ | | | 327.79 | | P | 11.3 |
| 6 | ☐ | | | 327.78 | | P | 7.6 |
| 7 | ☐ | | | 343.34 | | P | 19.3 |
| 8 | ☐ | | | 378.90 | | P | 16.3 |

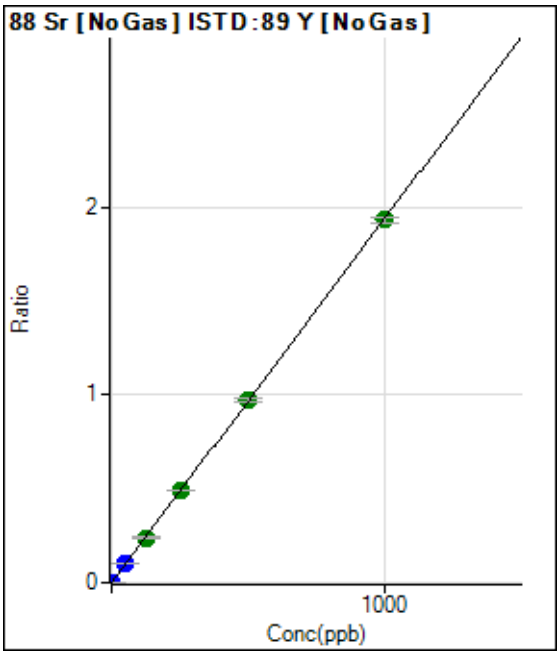
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 568.90 | 0.0001 | P | 7.0 |
| 2 | ☐ | 1.000 | 1.087 | 2260.20 | 0.0003 | P | 2.1 |
| 3 | ☐ | 50.000 | 50.736 | 78113.55 | 0.0113 | P | 0.7 |
| 4 | ☐ | 125.000 | 124.792 | 195697.45 | 0.0277 | P | 1.0 |
| 5 | ☐ | 250.000 | 253.606 | 391367.07 | 0.0562 | P | 0.2 |
| 6 | ☐ | 500.000 | 501.693 | 778710.03 | 0.1111 | P | 1.5 |
| 7 | ☐ | 1000.000 | 998.241 | 1588327.96 | 0.2209 | A | 1.5 |
| 8 | ☐ | | | 5940.15 | 0.0007 | P | 12.7 |

y = 2.2120E-004 * x + 8.0445E-005
R = 1.0000
DL = 0.07616
BEC = 0.3637

Weight: <None>
Min Conc: 0

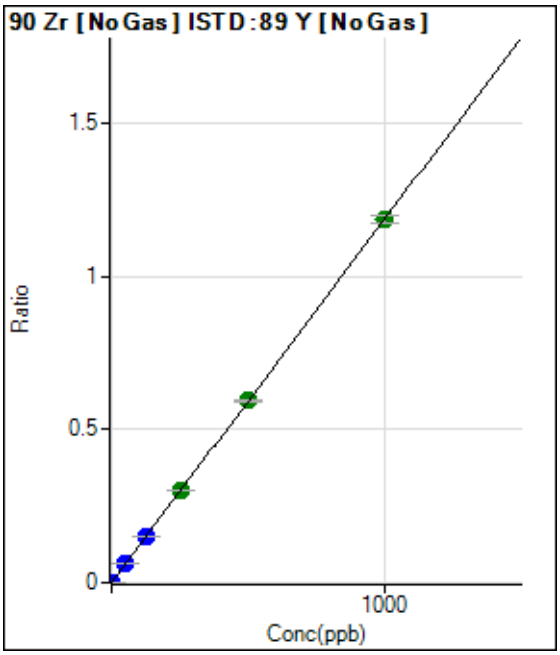



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 94.44 | 0.0000 | P | 15.2 |
| 2 | ☐ | 1.000 | 1.109 | 15222.40 | 0.0022 | P | 1.4 |
| 3 | ☐ | 50.000 | 51.169 | 685295.21 | 0.0992 | P | 0.3 |
| 4 | ☐ | 125.000 | 124.009 | 1698716.64 | 0.2403 | A | 0.9 |
| 5 | ☐ | 250.000 | 255.665 | 3451322.00 | 0.4954 | A | 0.3 |
| 6 | ☐ | 500.000 | 502.810 | 6831551.43 | 0.9743 | A | 1.9 |
| 7 | ☐ | 1000.000 | 997.244 | 13894760.35 | 1.9324 | A | 1.4 |
| 8 | ☐ | | | 48038.80 | 0.0060 | P | 14.7 |

y = 0.0019 * x + 1.3345E-005
R = 1.0000
DL = 0.003147
BEC = 0.006887

Weight: <None>
Min Conc: 0

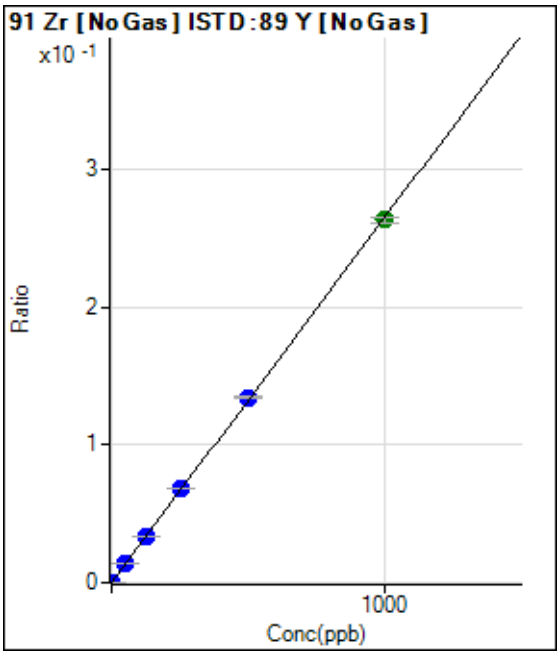
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 267.78 | 0.0000 | P | 9.2 |
| 2 | ☐ | 1.000 | 1.047 | 9001.73 | 0.0013 | P | 3.7 |
| 3 | ☐ | 50.000 | 50.655 | 415464.28 | 0.0601 | P | 0.4 |
| 4 | ☐ | 125.000 | 125.369 | 1051373.91 | 0.1487 | P | 1.1 |
| 5 | ☐ | 250.000 | 254.756 | 2105290.28 | 0.3022 | A | 0.8 |
| 6 | ☐ | 500.000 | 500.474 | 4162790.73 | 0.5936 | A | 1.4 |
| 7 | ☐ | 1000.000 | 998.495 | 8515830.01 | 1.1843 | A | 2.0 |
| 8 | ☐ | | | 4350.69 | 0.0005 | P | 14.4 |

y = 0.0012 * x + 3.7889E-005
R = 1.0000
DL = 0.008847
BEC = 0.03194

Weight: <None>
Min Conc: 0

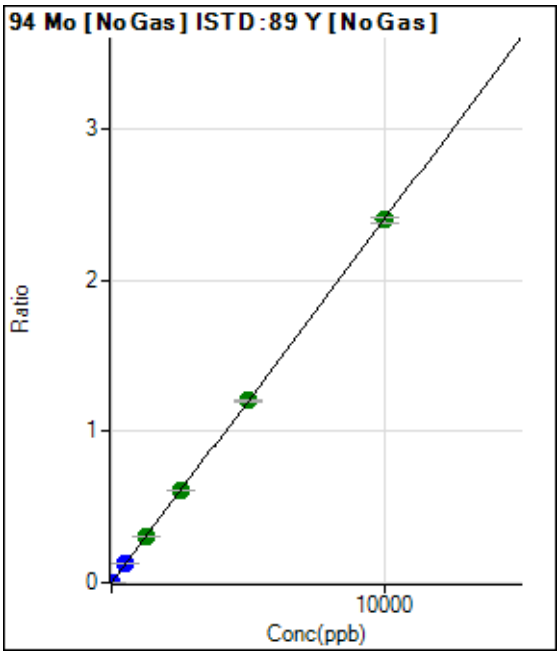



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 63.33 | 0.0000 | P | 63.3 |
| 2 | ☐ | 1.000 | 1.013 | 1949.04 | 0.0003 | P | 2.8 |
| 3 | ☐ | 50.000 | 50.868 | 93047.24 | 0.0135 | P | 0.4 |
| 4 | ☐ | 125.000 | 125.339 | 234412.54 | 0.0332 | P | 1.2 |
| 5 | ☐ | 250.000 | 256.439 | 472599.71 | 0.0678 | P | 0.3 |
| 6 | ☐ | 500.000 | 508.334 | 942905.20 | 0.1345 | P | 1.4 |
| 7 | ☐ | 1000.000 | 994.138 | 1890821.60 | 0.2630 | A | 1.5 |
| 8 | ☐ | | | 945.59 | 0.0001 | P | 17.8 |

y = 2.6451E-004 * x + 9.0082E-006
R = 0.9999
DL = 0.06464
BEC = 0.03406

Weight: <None>
Min Conc: 0

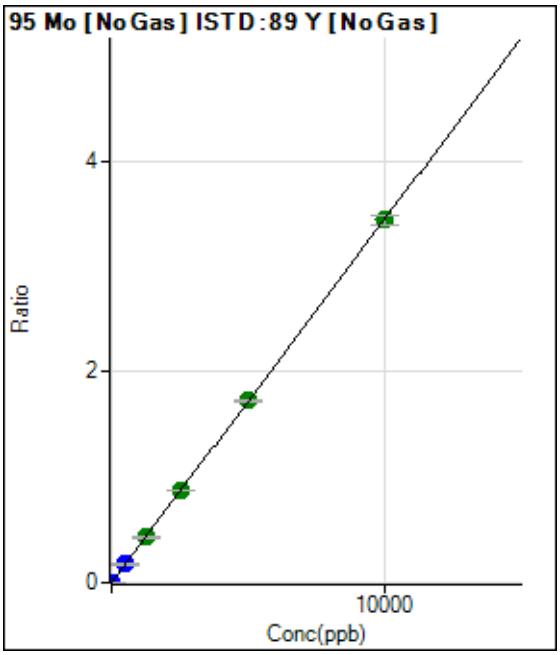
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 126.67 | 0.0000 | P | 3.7 |
| 2 | ☐ | 5.000 | 6.359 | 10880.77 | 0.0015 | P | 2.6 |
| 3 | ☐ | 500.000 | 506.398 | 841089.22 | 0.1217 | P | 0.6 |
| 4 | ☐ | 1250.000 | 1253.767 | 2129881.46 | 0.3013 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2544.828 | 4260465.98 | 0.6116 | A | 0.5 |
| 6 | ☐ | 5000.000 | 5016.041 | 8452942.44 | 1.2054 | A | 1.0 |
| 7 | ☐ | 10000.000 | 9979.981 | 17244711.55 | 2.3983 | A | 1.9 |
| 8 | ☐ | | | 4454.06 | 0.0006 | P | 17.9 |

y = 2.4031E-004 * x + 1.7917E-005
R = 1.0000
DL = 0.008239
BEC = 0.07456

Weight: <None>
Min Conc: 0

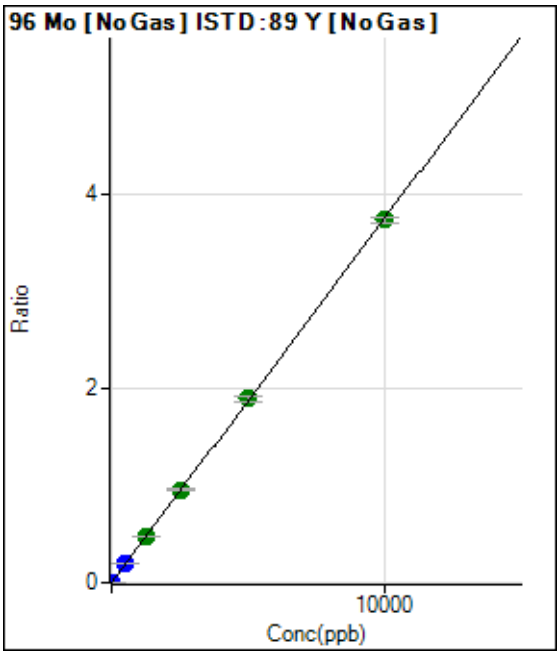



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 27.78 | 0.0000 | P | 14.8 |
| 2 | ☐ | 5.000 | 5.354 | 13024.81 | 0.0018 | P | 0.8 |
| 3 | ☐ | 500.000 | 504.383 | 1201798.91 | 0.1739 | P | 0.7 |
| 4 | ☐ | 1250.000 | 1244.654 | 3033324.50 | 0.4292 | A | 2.3 |
| 5 | ☐ | 2500.000 | 2522.069 | 6058049.91 | 0.8696 | A | 0.3 |
| 6 | ☐ | 5000.000 | 5007.868 | 12107675.10 | 1.7267 | A | 1.6 |
| 7 | ☐ | 10000.000 | 9990.997 | 24769506.85 | 3.4448 | A | 2.4 |
| 8 | ☐ | | | 3781.64 | 0.0005 | P | 22.9 |

y = 3.4479E-004 * x + 3.9336E-006
R = 1.0000
DL = 0.005049
BEC = 0.01141

Weight: <None>
Min Conc: 0

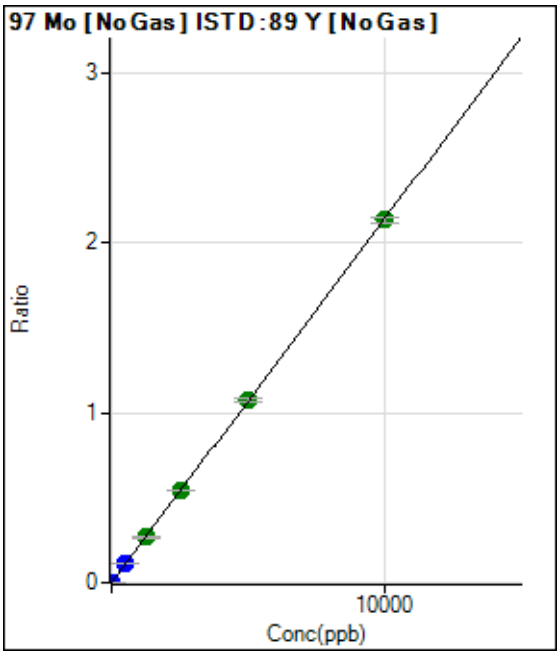
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 133.34 | 0.0000 | P | 12.1 |
| 2 | ☐ | 5.000 | 5.513 | 14715.30 | 0.0021 | P | 2.1 |
| 3 | ☐ | 500.000 | 507.751 | 1318762.40 | 0.1908 | P | 0.4 |
| 4 | ☐ | 1250.000 | 1255.847 | 3336291.51 | 0.4720 | A | 0.9 |
| 5 | ☐ | 2500.000 | 2553.570 | 6685499.21 | 0.9597 | A | 0.9 |
| 6 | ☐ | 5000.000 | 5047.226 | 13299327.16 | 1.8968 | A | 2.7 |
| 7 | ☐ | 10000.000 | 9961.876 | 26918616.82 | 3.7437 | A | 1.7 |
| 8 | ☐ | | | 16366.05 | 0.0021 | P | 17.2 |

y = 3.7581E-004 * x + 1.8860E-005
R = 1.0000
DL = 0.01819
BEC = 0.05018

Weight: <None>
Min Conc: 0

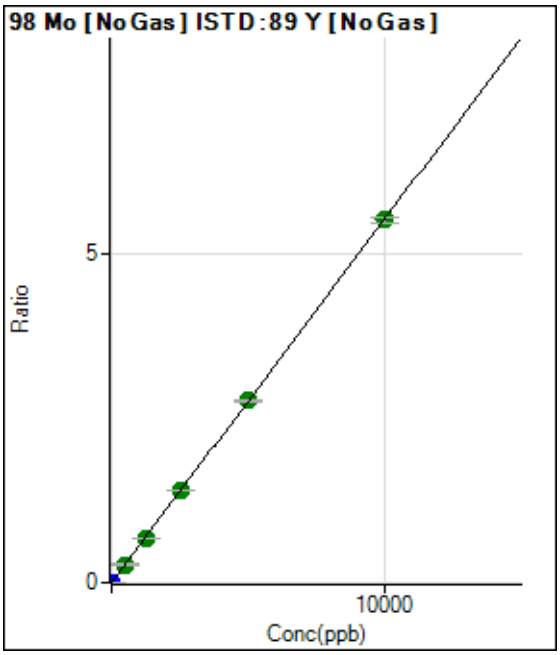



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31.11 | 0.0000 | P | 15.7 |
| 2 | ☐ | 5.000 | 5.336 | 8081.21 | 0.0011 | P | 0.9 |
| 3 | ☐ | 500.000 | 512.943 | 759490.13 | 0.1099 | P | 0.3 |
| 4 | ☐ | 1250.000 | 1247.811 | 1889815.09 | 0.2673 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2544.768 | 3798201.71 | 0.5452 | A | 0.7 |
| 6 | ☐ | 5000.000 | 5021.054 | 7543376.35 | 1.0758 | A | 1.2 |
| 7 | ☐ | 10000.000 | 9977.907 | 15371085.19 | 2.1377 | A | 1.6 |
| 8 | ☐ | | | 2584.70 | 0.0003 | P | 16.5 |

y = 2.1425E-004 * x + 4.3993E-006
R = 1.0000
DL = 0.009657
BEC = 0.02053

Weight: <None>
Min Conc: 0

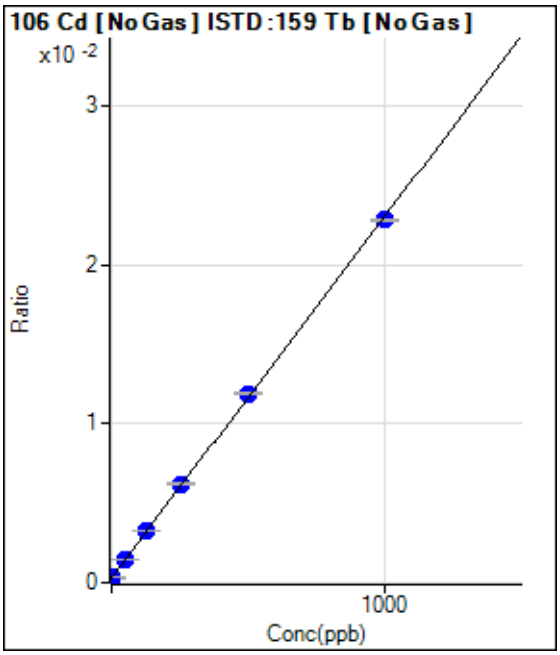
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 43.33 | 0.0000 | P | 16.3 |
| 2 | ☐ | 5.000 | 5.459 | 21272.27 | 0.0030 | P | 2.8 |
| 3 | ☐ | 500.000 | 501.078 | 1913163.25 | 0.2769 | A | 2.3 |
| 4 | ☐ | 1250.000 | 1236.340 | 4828643.26 | 0.6831 | A | 0.8 |
| 5 | ☐ | 2500.000 | 2552.170 | 9823094.72 | 1.4101 | A | 1.1 |
| 6 | ☐ | 5000.000 | 5010.810 | 19412629.29 | 2.7685 | A | 1.4 |
| 7 | ☐ | 10000.000 | 9983.206 | 39660181.08 | 5.5157 | A | 1.7 |
| 8 | ☐ | | | 5774.54 | 0.0007 | P | 17.3 |

y = 5.5250E-004 * x + 6.1366E-006
R = 1.0000
DL = 0.005441
BEC = 0.01111

Weight: <None>
Min Conc: 0

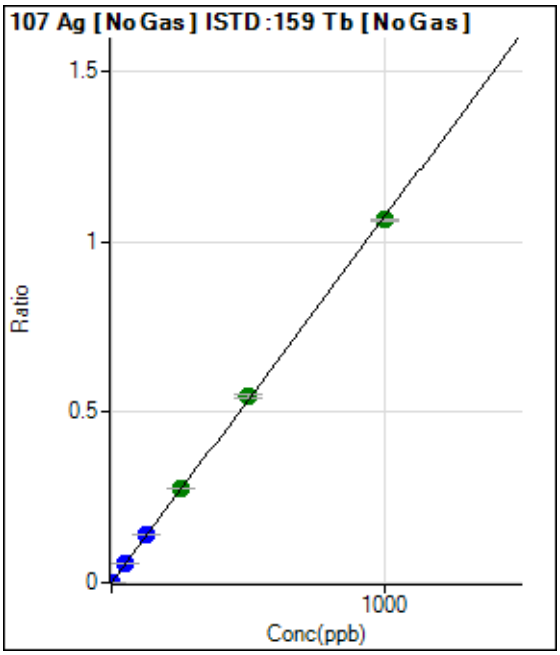



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1749.02 | 0.0003 | P | 4.7 |
| 2 | ☐ | 1.000 | 1.225 | 1920.15 | 0.0003 | P | 3.8 |
| 3 | ☐ | 50.000 | 52.733 | 8744.93 | 0.0015 | P | 1.7 |
| 4 | ☐ | 125.000 | 131.024 | 19277.34 | 0.0033 | P | 0.7 |
| 5 | ☐ | 250.000 | 260.067 | 37289.06 | 0.0062 | P | 1.6 |
| 6 | ☐ | 500.000 | 510.597 | 71477.27 | 0.0119 | P | 1.1 |
| 7 | ☐ | 1000.000 | 991.295 | 140396.64 | 0.0229 | P | 0.3 |
| 8 | ☐ | | | 2094.62 | 0.0003 | P | 0.3 |

y = 2.2768E-005 * x + 2.9719E-004
R = 0.9999
DL = 1.826
BEC = 13.05

Weight: <None>
Min Conc: 0

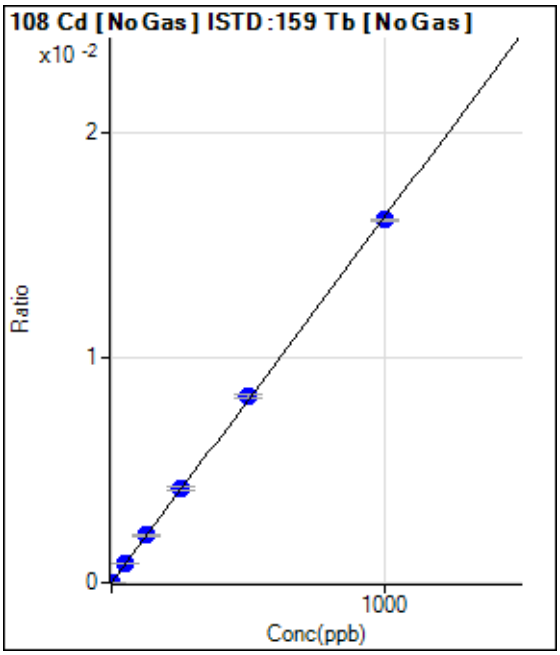
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 48.89 | 0.0000 | P | 40.3 |
| 2 | ☐ | 1.000 | 1.110 | 7087.35 | 0.0012 | P | 2.6 |
| 3 | ☐ | 50.000 | 53.219 | 333475.21 | 0.0571 | P | 1.3 |
| 4 | ☐ | 125.000 | 133.353 | 840962.60 | 0.1431 | P | 0.3 |
| 5 | ☐ | 250.000 | 257.024 | 1653924.40 | 0.2758 | A | 1.1 |
| 6 | ☐ | 500.000 | 510.445 | 3283445.54 | 0.5478 | A | 1.4 |
| 7 | ☐ | 1000.000 | 991.816 | 6533953.38 | 1.0643 | A | 0.8 |
| 8 | ☐ | | | 691.13 | 0.0001 | P | 31.0 |

y = 0.0011 * x + 8.3426E-006
R = 0.9999
DL = 0.009391
BEC = 0.007774

Weight: <None>
Min Conc: 0

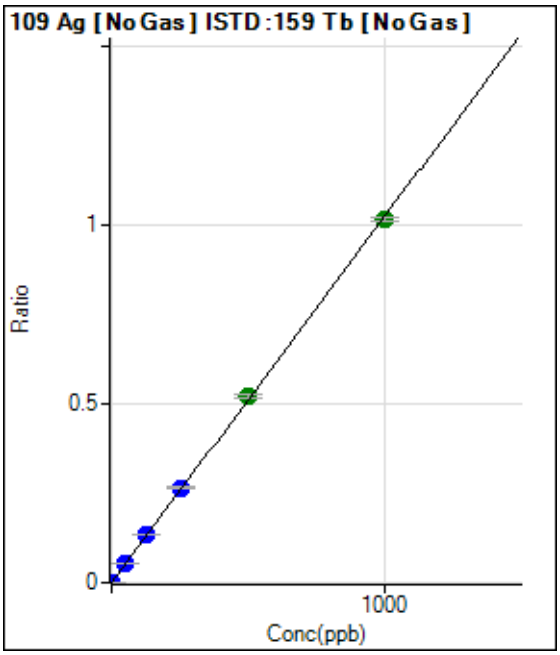



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13.33 | 0.0000 | P | 75.8 |
| 2 | ☐ | 1.000 | 1.015 | 111.11 | 0.0000 | P | 8.7 |
| 3 | ☐ | 50.000 | 52.240 | 4978.67 | 0.0009 | P | 2.3 |
| 4 | ☐ | 125.000 | 129.045 | 12354.24 | 0.0021 | P | 1.4 |
| 5 | ☐ | 250.000 | 257.529 | 25144.12 | 0.0042 | P | 2.4 |
| 6 | ☐ | 500.000 | 509.450 | 49712.79 | 0.0083 | P | 1.7 |
| 7 | ☐ | 1000.000 | 992.775 | 99210.84 | 0.0162 | P | 0.5 |
| 8 | ☐ | | | 46.67 | 0.0000 | P | 8.2 |

y = 1.6274E-005 * x + 2.2863E-006
R = 0.9999
DL = 0.3196
BEC = 0.1405

Weight: <None>
Min Conc: 0

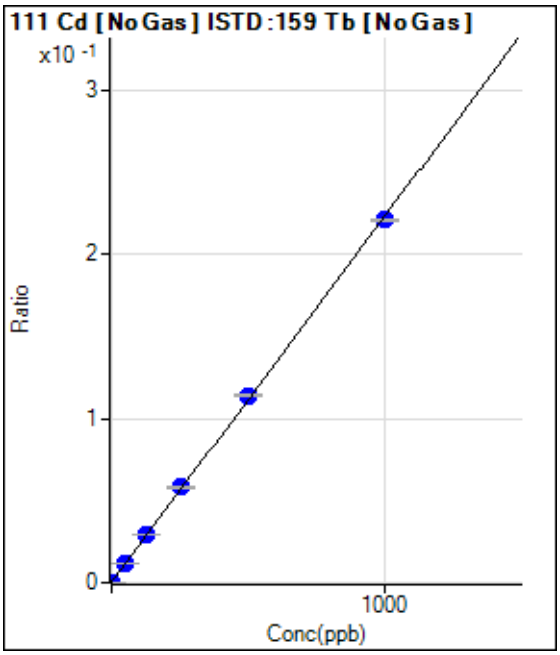
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 17.78 | 0.0000 | P | 76.6 |
| 2 | ☐ | 1.000 | 1.123 | 6799.44 | 0.0012 | P | 2.0 |
| 3 | ☐ | 50.000 | 53.025 | 316516.52 | 0.0542 | P | 1.0 |
| 4 | ☐ | 125.000 | 132.719 | 797274.62 | 0.1357 | P | 1.1 |
| 5 | ☐ | 250.000 | 259.956 | 1593523.36 | 0.2658 | P | 0.7 |
| 6 | ☐ | 500.000 | 510.341 | 3127475.09 | 0.5217 | A | 1.5 |
| 7 | ☐ | 1000.000 | 991.224 | 6220829.84 | 1.0133 | A | 1.0 |
| 8 | ☐ | | | 658.91 | 0.0001 | P | 21.2 |

y = 0.0010 * x + 3.0212E-006
R = 0.9999
DL = 0.006793
BEC = 0.002955

Weight: <None>
Min Conc: 0

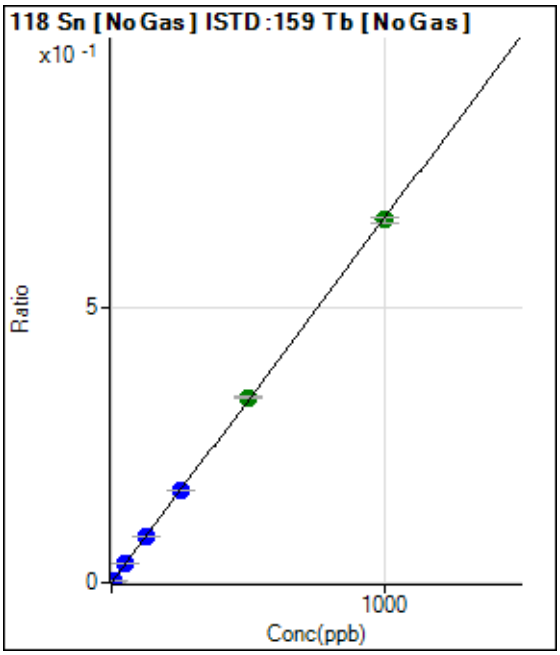



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1227.20 | 0.0002 | P | 4.3 |
| 2 | ☐ | 1.000 | 1.171 | 2771.97 | 0.0005 | P | 3.1 |
| 3 | ☐ | 50.000 | 52.427 | 69366.04 | 0.0119 | P | 0.5 |
| 4 | ☐ | 125.000 | 131.782 | 173629.03 | 0.0295 | P | 0.4 |
| 5 | ☐ | 250.000 | 259.996 | 348328.17 | 0.0581 | P | 0.9 |
| 6 | ☐ | 500.000 | 510.282 | 682262.74 | 0.1138 | P | 0.8 |
| 7 | ☐ | 1000.000 | 991.391 | 1356279.77 | 0.2209 | P | 0.6 |
| 8 | ☐ | | | 1685.79 | 0.0002 | P | 1.3 |

y = 2.2262E-004 * x + 2.0852E-004
R = 0.9999
DL = 0.1217
BEC = 0.9366

Weight: <None>
Min Conc: 0

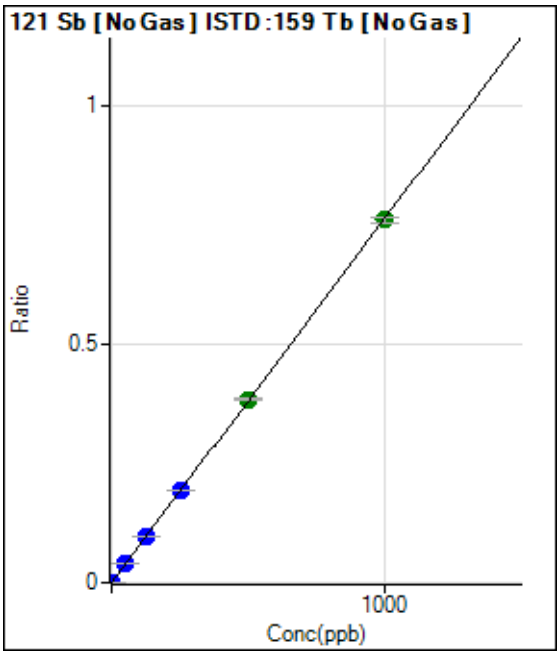
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 752.25 | 0.0001 | P | 5.0 |
| 2 | ☐ | 5.000 | 5.722 | 23167.59 | 0.0039 | P | 1.1 |
| 3 | ☐ | 50.000 | 51.256 | 199145.73 | 0.0341 | P | 1.7 |
| 4 | ☐ | 125.000 | 128.204 | 500231.64 | 0.0851 | P | 0.3 |
| 5 | ☐ | 250.000 | 252.745 | 1005560.60 | 0.1677 | P | 0.4 |
| 6 | ☐ | 500.000 | 507.838 | 2019120.86 | 0.3368 | A | 0.9 |
| 7 | ☐ | 1000.000 | 994.928 | 4050682.72 | 0.6598 | A | 1.6 |
| 8 | ☐ | | | 1570.10 | 0.0002 | P | 9.6 |

y = 6.6298E-004 * x + 1.2789E-004
R = 0.9999
DL = 0.02907
BEC = 0.1929

Weight: <None>
Min Conc: 0

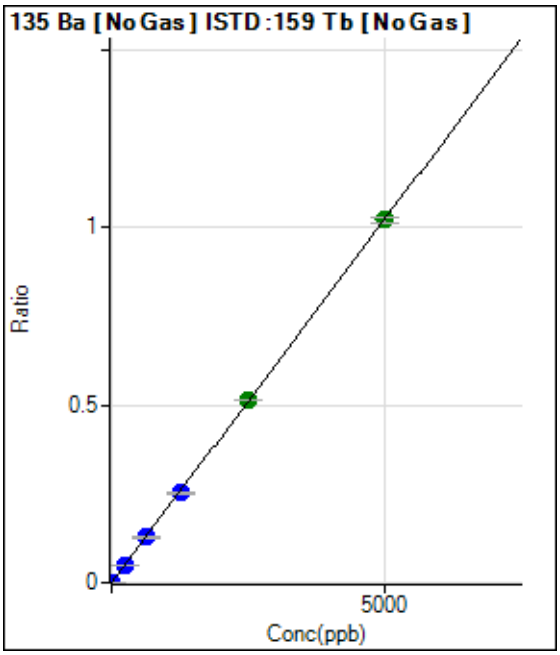



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35.55 | 0.0000 | P | 69.7 |
| 2 | ☐ | 2.000 | 2.208 | 9980.20 | 0.0017 | P | 1.9 |
| 3 | ☐ | 50.000 | 51.583 | 229700.02 | 0.0393 | P | 1.2 |
| 4 | ☐ | 125.000 | 128.145 | 574256.56 | 0.0977 | P | 0.7 |
| 5 | ☐ | 250.000 | 252.221 | 1153339.38 | 0.1923 | P | 0.7 |
| 6 | ☐ | 500.000 | 503.398 | 2301181.04 | 0.3839 | A | 1.2 |
| 7 | ☐ | 1000.000 | 997.273 | 4668627.15 | 0.7605 | A | 1.4 |
| 8 | ☐ | | | 2265.76 | 0.0003 | P | 20.0 |

y = 7.6257E-004 * x + 5.9919E-006
R = 1.0000
DL = 0.01644
BEC = 0.007858

Weight: <None>
Min Conc: 0

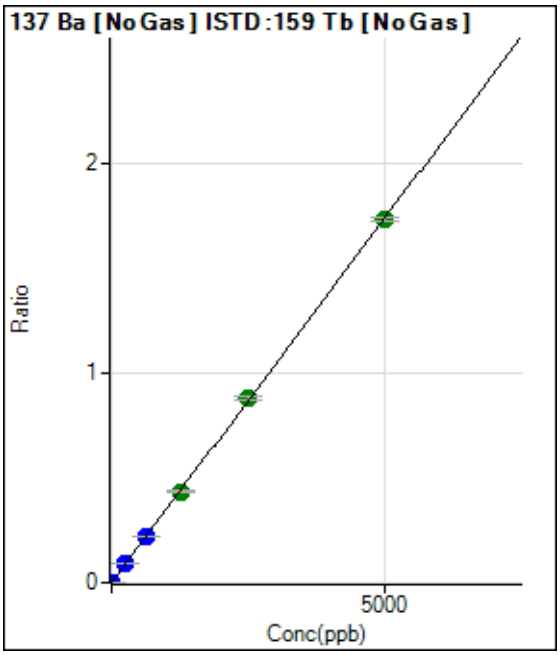
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 23.33 | 0.0000 | P | 22.6 |
| 2 | ☐ | 10.000 | 10.446 | 12622.34 | 0.0021 | P | 3.2 |
| 3 | ☐ | 250.000 | 249.441 | 297414.68 | 0.0509 | P | 0.5 |
| 4 | ☐ | 625.000 | 622.670 | 747166.29 | 0.1271 | P | 0.3 |
| 5 | ☐ | 1250.000 | 1232.991 | 1509661.99 | 0.2518 | P | 0.6 |
| 6 | ☐ | 2500.000 | 2515.406 | 3078995.51 | 0.5136 | A | 1.0 |
| 7 | ☐ | 5000.000 | 4996.867 | 6264641.16 | 1.0203 | A | 1.5 |
| 8 | ☐ | | | 2640.27 | 0.0004 | P | 18.5 |

y = 2.0419E-004 * x + 3.9528E-006
R = 1.0000
DL = 0.01312
BEC = 0.01936

Weight: <None>
Min Conc: 0

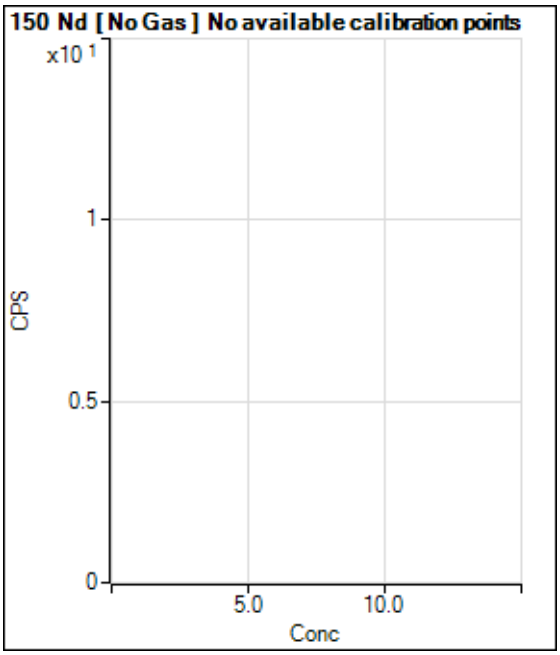



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16.67 | 0.0000 | P | 20.0 |
| 2 | ☐ | 10.000 | 10.654 | 21929.21 | 0.0037 | P | 1.1 |
| 3 | ☐ | 250.000 | 252.281 | 512880.72 | 0.0878 | P | 0.4 |
| 4 | ☐ | 625.000 | 629.906 | 1288758.31 | 0.2193 | P | 0.3 |
| 5 | ☐ | 1250.000 | 1252.799 | 2615471.68 | 0.4362 | A | 0.9 |
| 6 | ☐ | 2500.000 | 2534.720 | 5290136.76 | 0.8825 | A | 1.8 |
| 7 | ☐ | 5000.000 | 4981.212 | 10647266.92 | 1.7343 | A | 1.1 |
| 8 | ☐ | | | 4618.57 | 0.0007 | P | 15.2 |

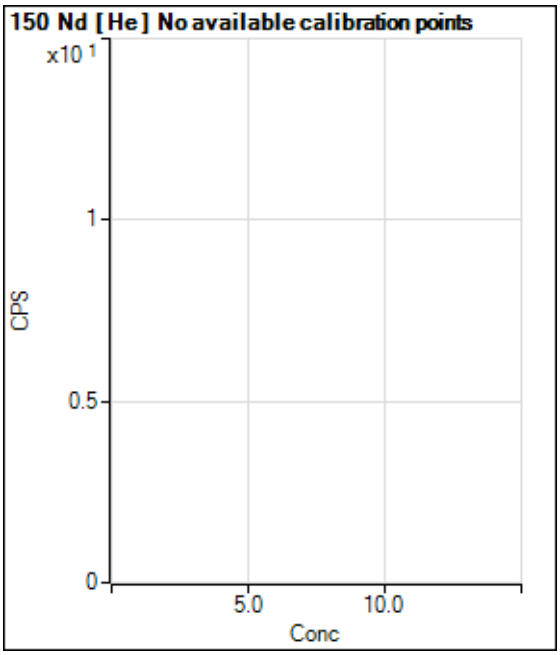
y = 3.4816E-004 * x + 2.8315E-006
R = 1.0000
DL = 0.004892
BEC = 0.008133

Weight: <None>
Min Conc: 0

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

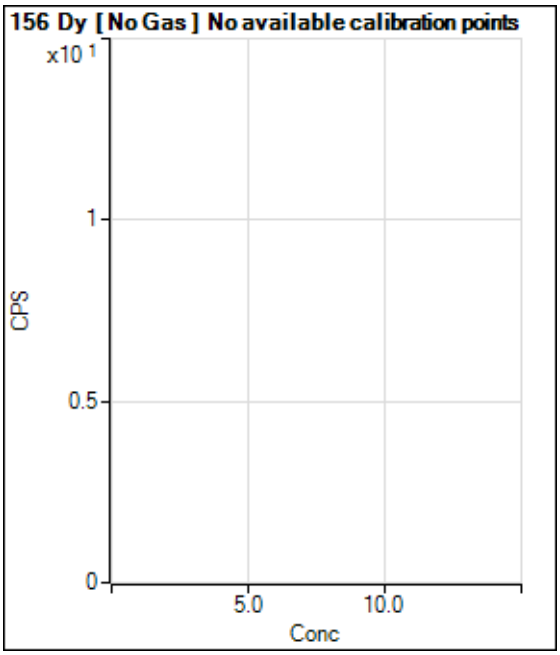



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 3.33 | | P | 173. |
| 2 | ☐ | | | 5.56 | | P | 34.7 |
| 3 | ☐ | | | 10.00 | | P | 57.7 |
| 4 | ☐ | | | 54.44 | | P | 21.5 |
| 5 | ☐ | | | 73.33 | | P | 32.8 |
| 6 | ☐ | | | 153.34 | | P | 12.1 |
| 7 | ☐ | | | 337.78 | | P | 12.2 |
| 8 | ☐ | | | 96.67 | | P | 26.0 |

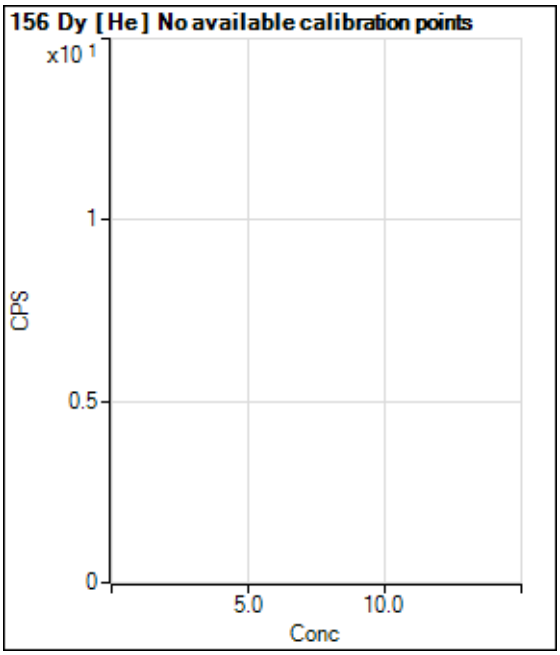



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 1.11 | | P | 173. |
| 2 | ☐ | | | 2.22 | | P | 86.6 |
| 3 | ☐ | | | 7.78 | | P | 24.7 |
| 4 | ☐ | | | 14.45 | | P | 74.2 |
| 5 | ☐ | | | 20.00 | | P | 16.7 |
| 6 | ☐ | | | 40.00 | | P | 44.1 |
| 7 | ☐ | | | 103.34 | | P | 11.2 |
| 8 | ☐ | | | 86.67 | | P | 20.0 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

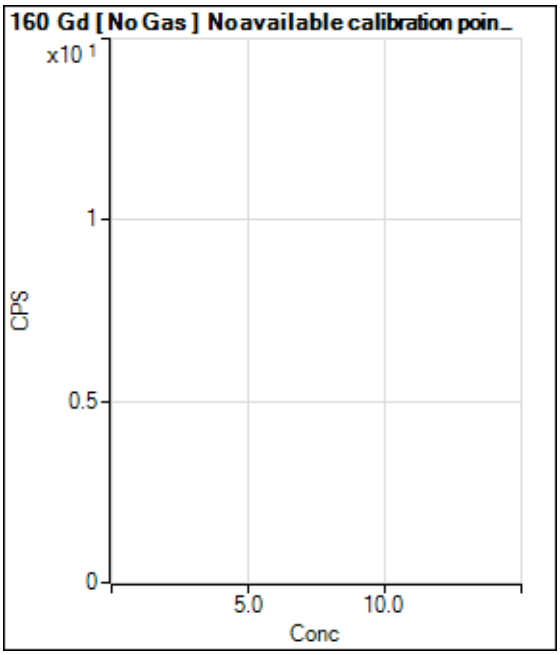



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4.44 | | P | 114. |
| 2 | ☐ | | | 7.78 | | P | 107. |
| 3 | ☐ | | | 6.67 | | P | 86.6 |
| 4 | ☐ | | | 24.44 | | P | 47.9 |
| 5 | ☐ | | | 33.33 | | P | 20.0 |
| 6 | ☐ | | | 54.44 | | P | 9.4 |
| 7 | ☐ | | | 118.89 | | P | 18.7 |
| 8 | ☐ | | | 177.78 | | P | 21.1 |

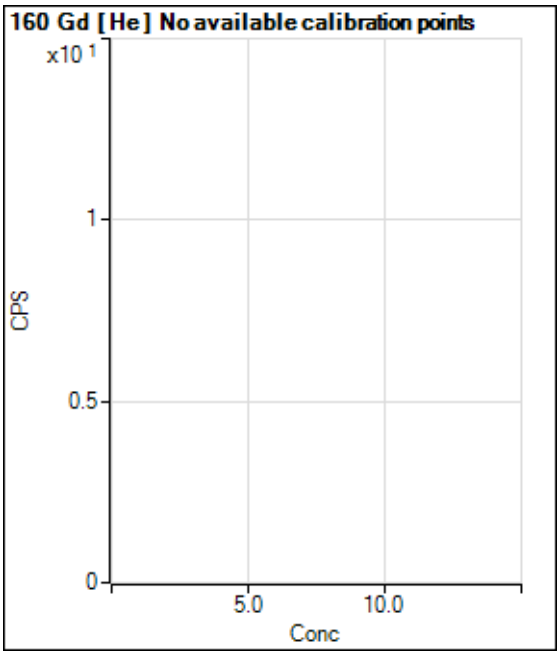



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4.44 | | P | 114. |
| 2 | ☐ | | | 5.56 | | P | 91.6 |
| 3 | ☐ | | | 23.33 | | P | NaN |
| 4 | ☐ | | | 52.22 | | P | 46.2 |
| 5 | ☐ | | | 83.33 | | P | 17.4 |
| 6 | ☐ | | | 158.89 | | P | 13.6 |
| 7 | ☐ | | | 360.01 | | P | 7.9 |
| 8 | ☐ | | | 132.23 | | P | 10.5 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

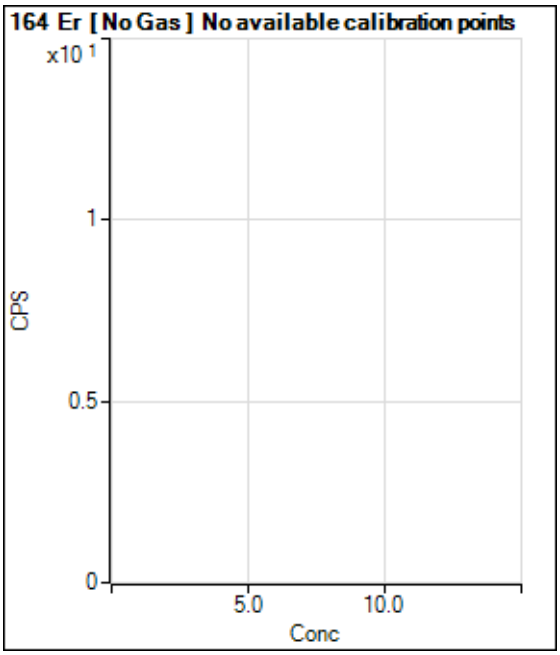



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 26.67 | | P | 37.5 |
| 2 | ☐ | | | 21.11 | | P | 9.1 |
| 3 | ☐ | | | 23.34 | | P | 49.5 |
| 4 | ☐ | | | 28.89 | | P | 17.6 |
| 5 | ☐ | | | 40.00 | | P | 14.4 |
| 6 | ☐ | | | 54.44 | | P | 27.6 |
| 7 | ☐ | | | 102.22 | | P | 13.2 |
| 8 | ☐ | | | 191.11 | | P | 9.6 |

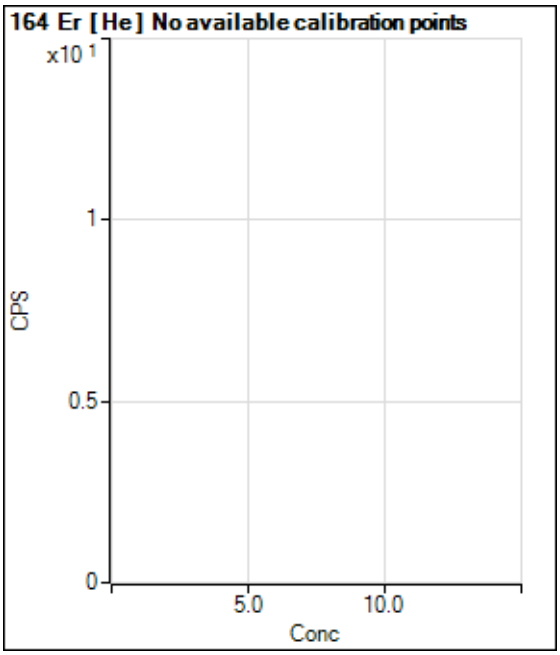



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 276.67 | | P | 14.8 |
| 2 | ☐ | | | 270.00 | | P | 20.8 |
| 3 | ☐ | | | 267.78 | | P | 8.3 |
| 4 | ☐ | | | 280.01 | | P | 19.7 |
| 5 | ☐ | | | 253.34 | | P | 16.0 |
| 6 | ☐ | | | 304.45 | | P | 10.2 |
| 7 | ☐ | | | 301.12 | | P | 0.6 |
| 8 | ☐ | | | 403.34 | | P | 6.2 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

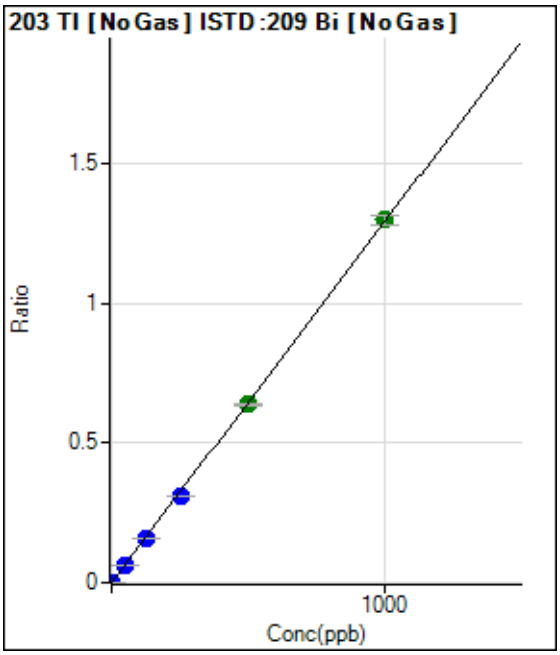



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 42.22 | | P | 52.6 |
| 2 | ☐ | | | 41.11 | | P | 28.5 |
| 3 | ☐ | | | 57.78 | | P | 14.5 |
| 4 | ☐ | | | 52.22 | | P | 32.8 |
| 5 | ☐ | | | 66.67 | | P | 8.7 |
| 6 | ☐ | | | 95.56 | | P | 22.4 |
| 7 | ☐ | | | 113.33 | | P | 23.0 |
| 8 | ☐ | | | 245.56 | | P | 19.4 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 34.44 | | P | 34.0 |
| 2 | ☐ | | | 37.78 | | P | 22.2 |
| 3 | ☐ | | | 34.44 | | P | 55.9 |
| 4 | ☐ | | | 38.89 | | P | 21.6 |
| 5 | ☐ | | | 53.33 | | P | 49.6 |
| 6 | ☐ | | | 63.33 | | P | 13.9 |
| 7 | ☐ | | | 113.34 | | P | 23.5 |
| 8 | ☐ | | | 180.00 | | P | 11.3 |

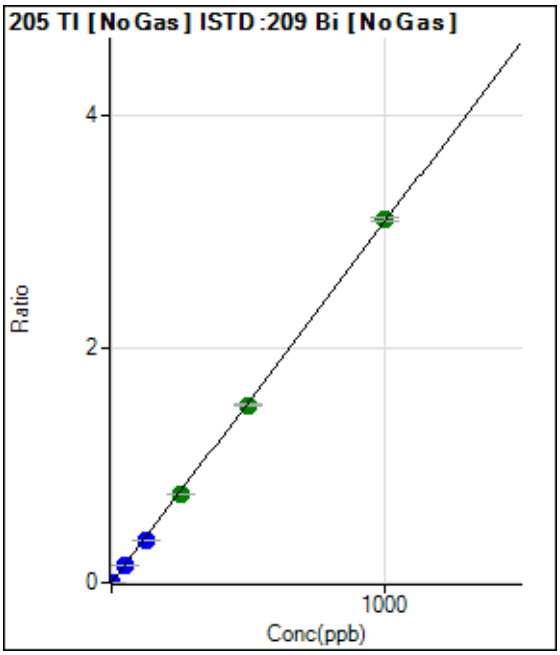
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 56.67 | 0.0000 | P | 24.0 |
| 2 | ☐ | 1.000 | 1.001 | 4644.16 | 0.0013 | P | 3.5 |
| 3 | ☐ | 50.000 | 47.643 | 222354.70 | 0.0614 | P | 0.8 |
| 4 | ☐ | 125.000 | 120.357 | 563863.86 | 0.1552 | P | 0.4 |
| 5 | ☐ | 250.000 | 239.820 | 1141915.61 | 0.3093 | P | 0.3 |
| 6 | ☐ | 500.000 | 494.636 | 2361314.69 | 0.6378 | A | 1.3 |
| 7 | ☐ | 1000.000 | 1005.925 | 4742493.68 | 1.2971 | A | 3.0 |
| 8 | ☐ | | | 668.91 | 0.0002 | P | 11.8 |

y = 0.0013 * x + 1.5820E-005
R = 0.9999
DL = 0.008841
BEC = 0.01227

Weight: <None>
Min Conc: 0

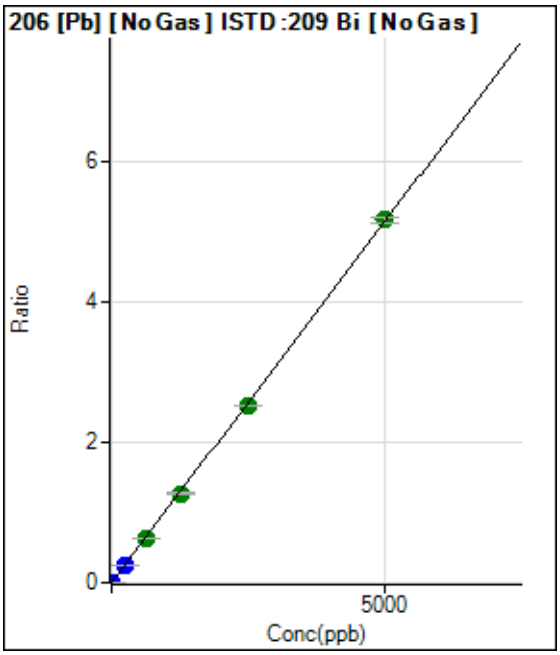



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 212.22 | 0.0001 | P | 5.9 |
| 2 | ☐ | 1.000 | 1.004 | 11192.47 | 0.0031 | P | 3.8 |
| 3 | ☐ | 50.000 | 47.034 | 524199.31 | 0.1449 | P | 0.6 |
| 4 | ☐ | 125.000 | 118.443 | 1324982.47 | 0.3647 | P | 0.4 |
| 5 | ☐ | 250.000 | 243.834 | 2772271.07 | 0.7508 | A | 0.6 |
| 6 | ☐ | 500.000 | 491.627 | 5603772.00 | 1.5137 | A | 0.9 |
| 7 | ☐ | 1000.000 | 1006.696 | 11334566.36 | 3.0994 | A | 0.9 |
| 8 | ☐ | | | 1542.32 | 0.0004 | P | 12.8 |

y = 0.0031 * x + 5.9195E-005
R = 0.9999
DL = 0.0034
BEC = 0.01923

Weight: <None>
Min Conc: 0

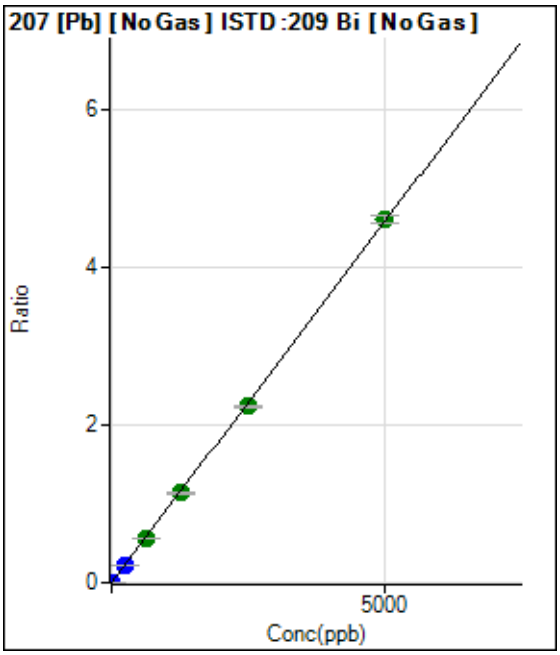
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 702.25 | 0.0002 | P | 13.7 |
| 2 | ☐ | 1.000 | 0.991 | 4309.62 | 0.0012 | P | 3.1 |
| 3 | ☐ | 250.000 | 239.817 | 891119.86 | 0.2463 | P | 1.5 |
| 4 | ☐ | 625.000 | 614.609 | 2291949.51 | 0.6309 | A | 1.9 |
| 5 | ☐ | 1250.000 | 1234.716 | 4679101.08 | 1.2672 | A | 1.8 |
| 6 | ☐ | 2500.000 | 2454.625 | 9325726.74 | 2.5189 | A | 0.3 |
| 7 | ☐ | 5000.000 | 5028.316 | 18868531.94 | 5.1599 | A | 1.3 |
| 8 | ☐ | | | 9407.81 | 0.0025 | P | 16.7 |

y = 0.0010 * x + 1.9602E-004
R = 0.9999
DL = 0.07866
BEC = 0.191

Weight: <None>
Min Conc: 0

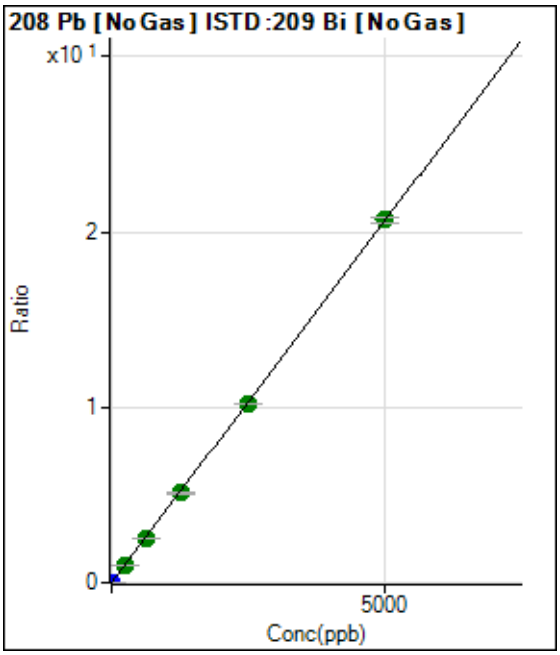



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 516.68 | 0.0001 | P | 3.2 |
| 2 | ☐ | 1.000 | 1.028 | 3849.48 | 0.0011 | P | 0.8 |
| 3 | ☐ | 250.000 | 236.455 | 782077.61 | 0.2161 | P | 1.4 |
| 4 | ☐ | 625.000 | 616.319 | 2045833.46 | 0.5631 | A | 0.7 |
| 5 | ☐ | 1250.000 | 1241.422 | 4187910.49 | 1.1342 | A | 1.1 |
| 6 | ☐ | 2500.000 | 2444.586 | 8267536.89 | 2.2332 | A | 1.2 |
| 7 | ☐ | 5000.000 | 5031.614 | 16806714.33 | 4.5964 | A | 2.0 |
| 8 | ☐ | | | 8652.84 | 0.0023 | P | 15.6 |

y = 9.1348E-004 * x + 1.4405E-004
R = 0.9999
DL = 0.01511
BEC = 0.1577

Weight: <None>
Min Conc: 0

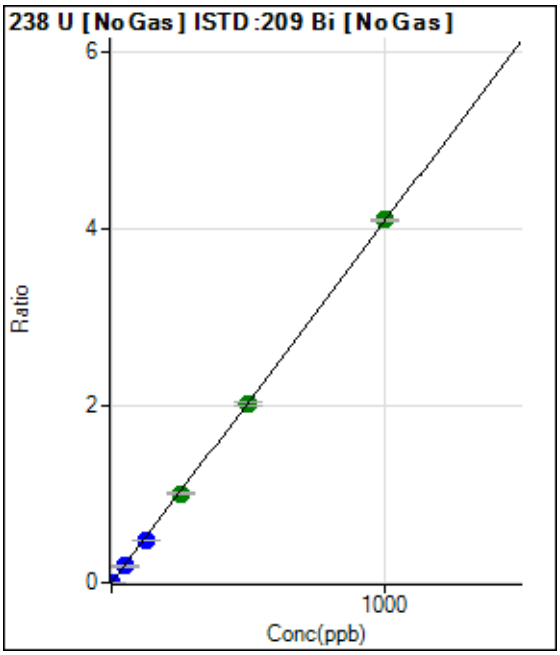
Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2613.46 | 0.0007 | P | 4.5 |
| 2 | ☐ | 1.000 | 1.016 | 17472.37 | 0.0049 | P | 2.8 |
| 3 | ☐ | 250.000 | 241.947 | 3610839.13 | 0.9979 | A | 1.8 |
| 4 | ☐ | 625.000 | 617.511 | 9248758.94 | 2.5458 | A | 0.4 |
| 5 | ☐ | 1250.000 | 1240.138 | 18876421.35 | 5.1120 | A | 0.6 |
| 6 | ☐ | 2500.000 | 2471.756 | 37718645.27 | 10.1882 | A | 0.6 |
| 7 | ☐ | 5000.000 | 5017.926 | 75630068.18 | 20.6825 | A | 1.5 |
| 8 | ☐ | | | 38386.01 | 0.0102 | P | 15.3 |

y = 0.0041 * x + 7.2901E-004
R = 1.0000
DL = 0.0241
BEC = 0.1769

Weight: <None>
Min Conc: 0

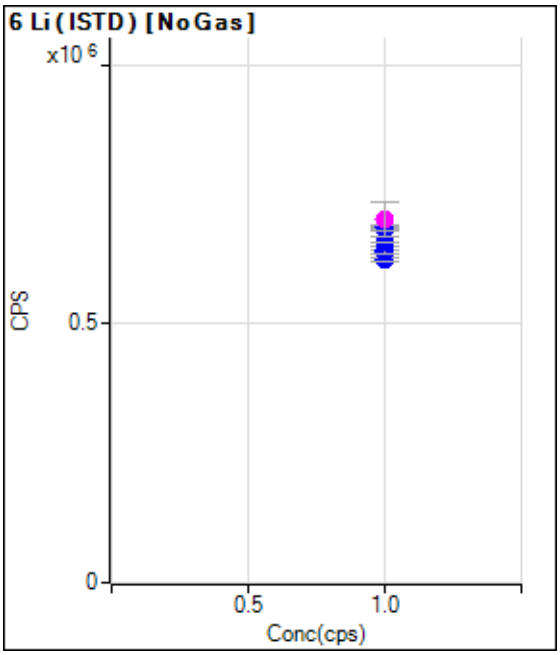



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 12.22 | 0.0000 | P | 127. |
| 2 | ☐ | 1.000 | 1.013 | 14733.82 | 0.0041 | P | 0.6 |
| 3 | ☐ | 50.000 | 45.289 | 669780.51 | 0.1851 | P | 1.3 |
| 4 | ☐ | 125.000 | 115.342 | 1712626.99 | 0.4714 | P | 0.6 |
| 5 | ☐ | 250.000 | 245.471 | 3704731.72 | 1.0033 | A | 2.1 |
| 6 | ☐ | 500.000 | 495.143 | 7492090.17 | 2.0237 | A | 1.3 |
| 7 | ☐ | 1000.000 | 1005.004 | 15021830.61 | 4.1076 | A | 0.7 |
| 8 | ☐ | | | 787.81 | 0.0002 | P | 16.5 |

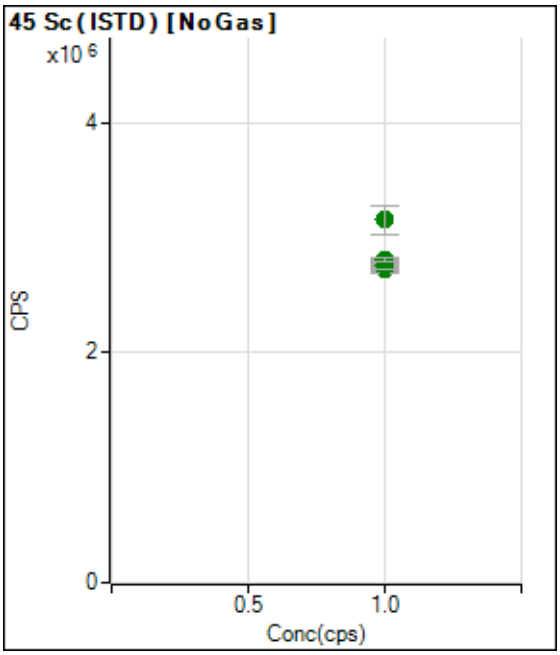
y = 0.0041 * x + 3.3740E-006
R = 0.9999
DL = 0.003161
BEC = 0.0008255

Weight: <None>
Min Conc: 0

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

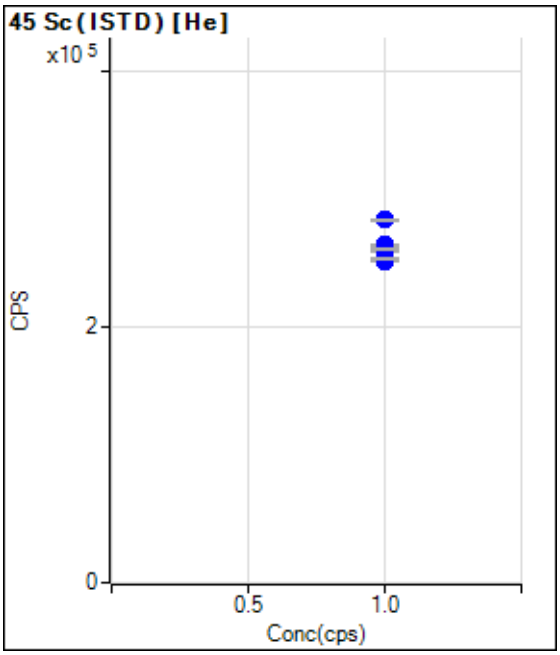



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 624264.85 | | P | 1.7 |
| 2 | ☐ | 1.000 | | 638245.47 | | P | 1.1 |
| 3 | ☐ | 1.000 | | 642711.48 | | P | 1.9 |
| 4 | ☐ | 1.000 | | 657786.30 | | P | 0.3 |
| 5 | ☐ | 1.000 | | 681966.29 | | P | 0.3 |
| 6 | ☐ | 1.000 | | 686361.59 | | P | 0.3 |
| 7 | ☐ | 1.000 | | 685907.85 | | P | 1.7 |
| 8 | ☐ | 1.000 | | 701157.15 | | M | 9.6 |

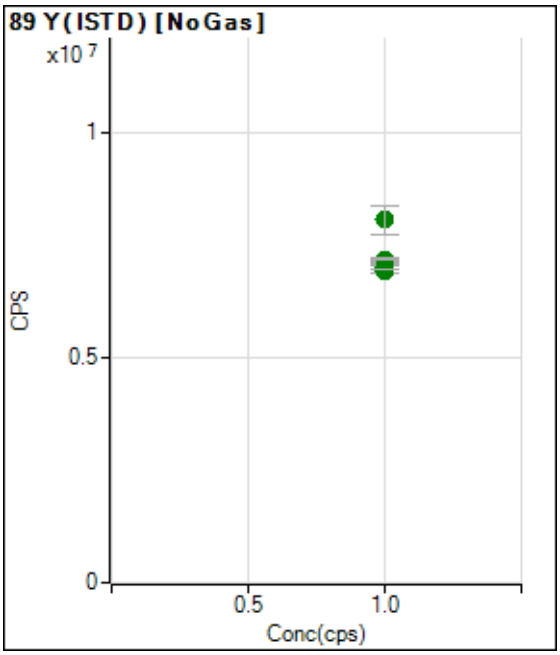



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2762364.91 | | A | 3.4 |
| 2 | ☐ | 1.000 | | 2750569.79 | | A | 0.1 |
| 3 | ☐ | 1.000 | | 2733883.75 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 2788650.51 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 2719832.41 | | A | 1.9 |
| 6 | ☐ | 1.000 | | 2759865.79 | | A | 2.0 |
| 7 | ☐ | 1.000 | | 2808456.94 | | A | 1.1 |
| 8 | ☐ | 1.000 | | 3153196.65 | | A | 7.7 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

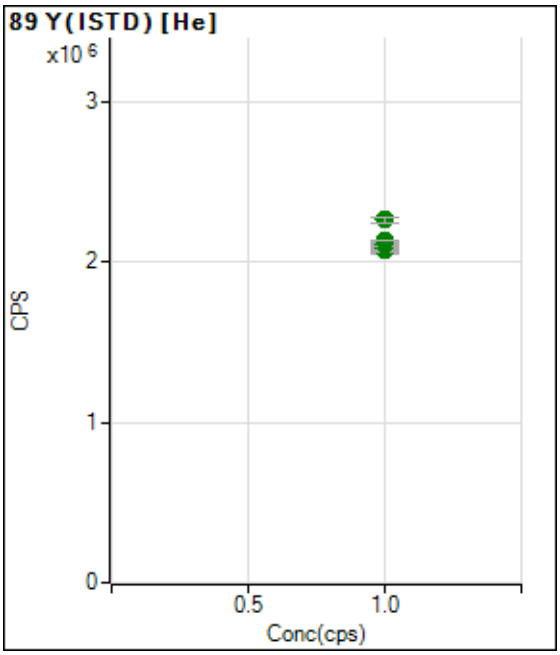



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 263306.40 | | P | 0.6 |
| 2 | ☐ | 1.000 | | 264104.92 | | P | 0.7 |
| 3 | ☐ | 1.000 | | 259581.42 | | P | 1.1 |
| 4 | ☐ | 1.000 | | 259272.32 | | P | 0.3 |
| 5 | ☐ | 1.000 | | 251219.90 | | P | 0.7 |
| 6 | ☐ | 1.000 | | 253204.94 | | P | 0.4 |
| 7 | ☐ | 1.000 | | 260874.40 | | P | 0.8 |
| 8 | ☐ | 1.000 | | 283418.84 | | P | 0.7 |

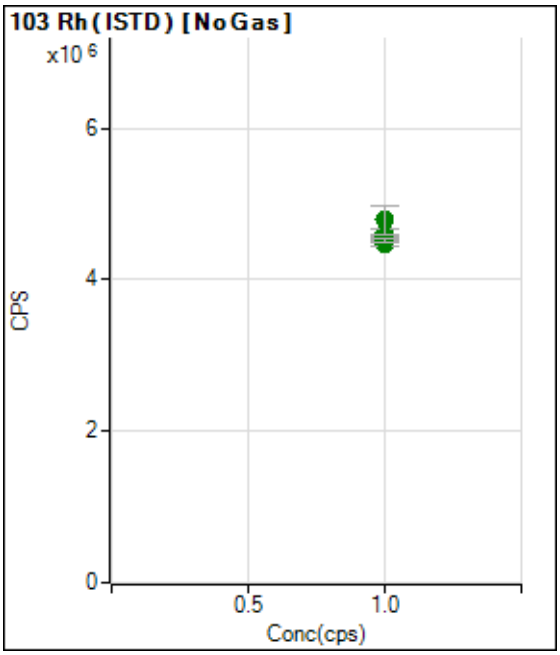



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 7068302.53 | | A | 1.3 |
| 2 | ☐ | 1.000 | | 7040377.12 | | A | 1.8 |
| 3 | ☐ | 1.000 | | 6910645.94 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 7069177.33 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 6966485.66 | | A | 0.2 |
| 6 | ☐ | 1.000 | | 7013326.77 | | A | 2.2 |
| 7 | ☐ | 1.000 | | 7190534.89 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 8054187.73 | | A | 8.3 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2069049.85 | | A | 2.4 |
| 2 | ☐ | 1.000 | | 2087027.14 | | A | 2.1 |
| 3 | ☐ | 1.000 | | 2077896.36 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 2087998.16 | | A | 1.9 |
| 5 | ☐ | 1.000 | | 2069424.26 | | A | 0.2 |
| 6 | ☐ | 1.000 | | 2111810.96 | | A | 1.5 |
| 7 | ☐ | 1.000 | | 2136007.57 | | A | 0.2 |
| 8 | ☐ | 1.000 | | 2262152.45 | | A | 1.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4631616.74 | | A | 1.2 |
| 2 | ☐ | 1.000 | | 4556360.35 | | A | 0.8 |
| 3 | ☐ | 1.000 | | 4565618.30 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 4567858.27 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 4520855.14 | | A | 0.3 |
| 6 | ☐ | 1.000 | | 4473396.01 | | A | 1.2 |
| 7 | ☐ | 1.000 | | 4525194.62 | | A | 0.9 |
| 8 | ☐ | 1.000 | | 4789135.76 | | A | 7.7 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
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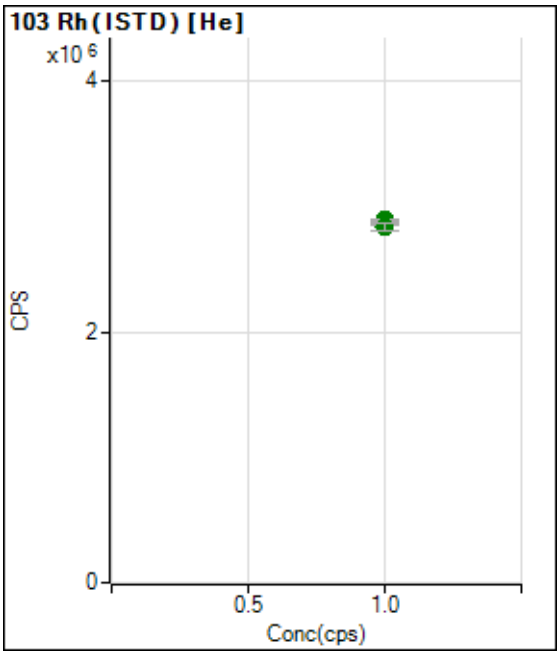
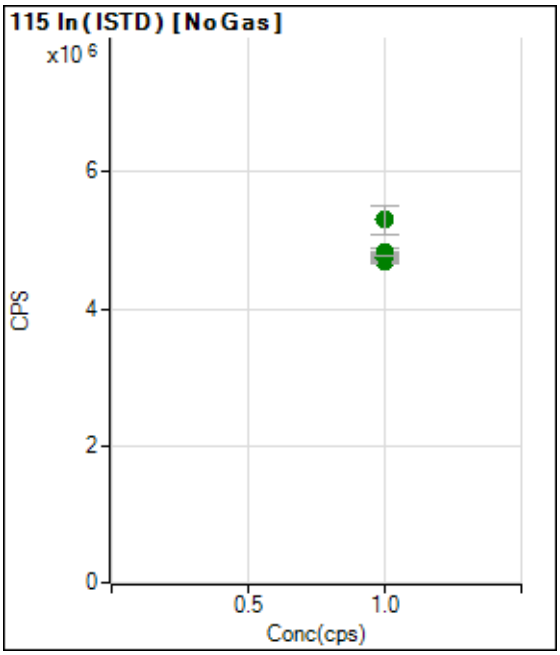
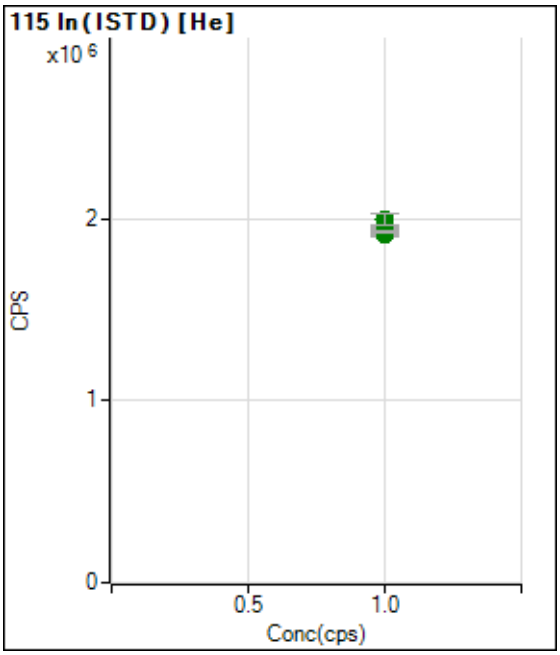



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2862402.39 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 2896737.94 | | A | 0.2 |
| 3 | ☐ | 1.000 | | 2876262.95 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 2880906.49 | | A | 1.4 |
| 5 | ☐ | 1.000 | | 2871408.85 | | A | 0.7 |
| 6 | ☐ | 1.000 | | 2864940.62 | | A | 0.2 |
| 7 | ☐ | 1.000 | | 2889667.29 | | A | 0.5 |
| 8 | ☐ | 1.000 | | 2842348.46 | | A | 2.5 |

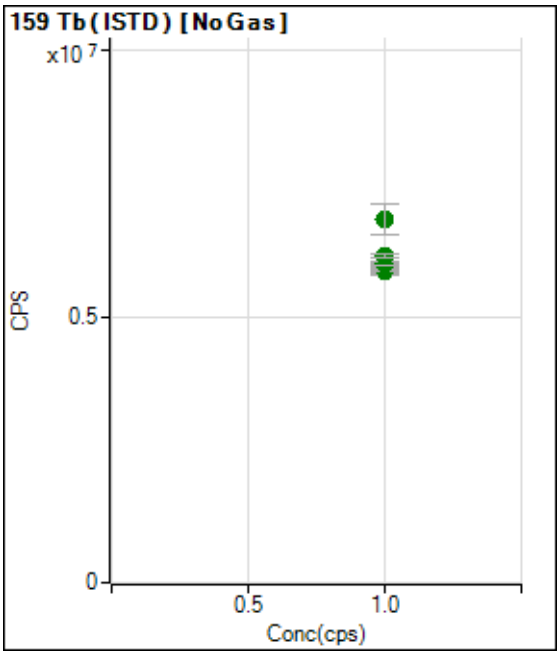



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4838504.10 | | A | 1.8 |
| 2 | ☐ | 1.000 | | 4819447.48 | | A | 0.6 |
| 3 | ☐ | 1.000 | | 4691129.35 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 4813095.03 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 4777625.38 | | A | 0.9 |
| 6 | ☐ | 1.000 | | 4739777.70 | | A | 1.6 |
| 7 | ☐ | 1.000 | | 4777468.72 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 5297689.52 | | A | 8.2 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

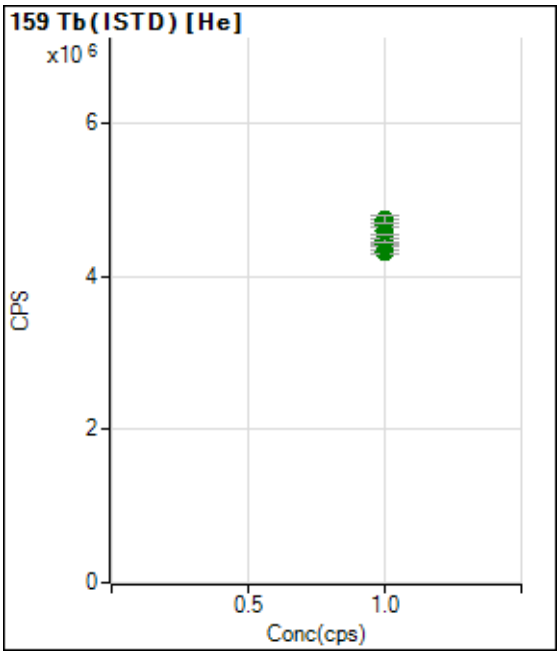



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1913072.05 | | A | 1.0 |
| 2 | ☐ | 1.000 | | 1928094.03 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 1942865.66 | | A | 2.6 |
| 4 | ☐ | 1.000 | | 1928094.15 | | A | 0.3 |
| 5 | ☐ | 1.000 | | 1945967.51 | | A | 0.5 |
| 6 | ☐ | 1.000 | | 1943675.74 | | A | 0.4 |
| 7 | ☐ | 1.000 | | 1930489.88 | | A | 0.9 |
| 8 | ☐ | 1.000 | | 1994213.01 | | A | 3.2 |

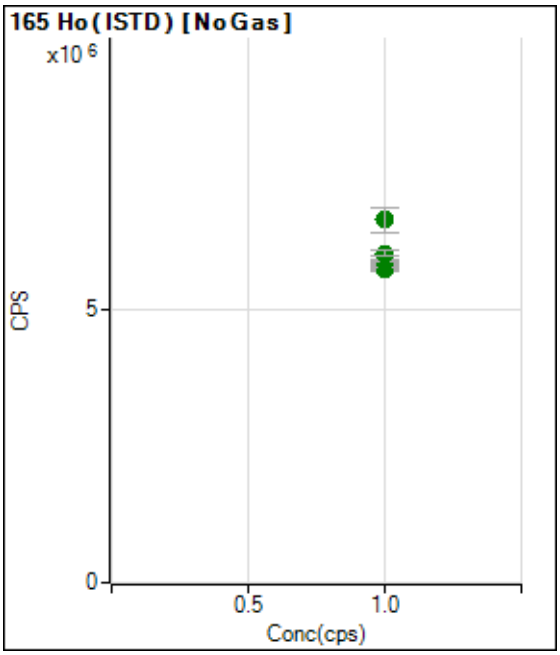



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 5885494.08 | | A | 2.0 |
| 2 | ☐ | 1.000 | | 5907757.27 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 5839196.16 | | A | 1.4 |
| 4 | ☐ | 1.000 | | 5876443.53 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 5996397.41 | | A | 0.4 |
| 6 | ☐ | 1.000 | | 5995245.60 | | A | 1.5 |
| 7 | ☐ | 1.000 | | 6139540.60 | | A | 1.1 |
| 8 | ☐ | 1.000 | | 6820557.47 | | A | 8.5 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

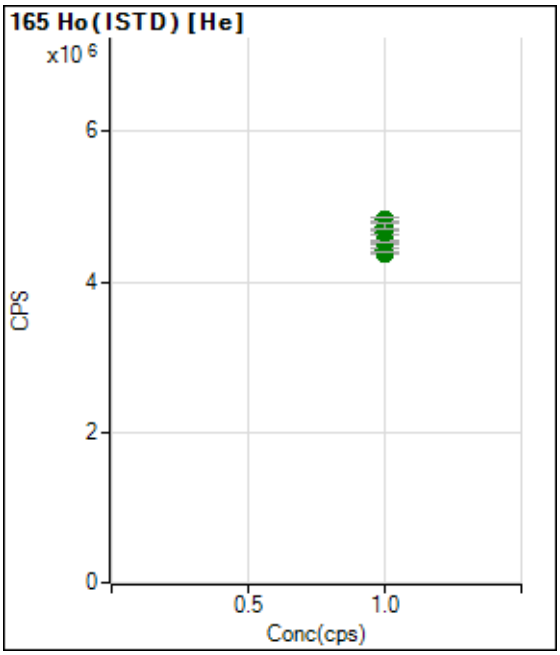



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4318109.07 | | A | 1.2 |
| 2 | ☐ | 1.000 | | 4405879.03 | | A | 1.0 |
| 3 | ☐ | 1.000 | | 4422465.39 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 4473595.14 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 4597623.47 | | A | 1.8 |
| 6 | ☐ | 1.000 | | 4675691.94 | | A | 0.8 |
| 7 | ☐ | 1.000 | | 4728580.52 | | A | 1.3 |
| 8 | ☐ | 1.000 | | 4737906.46 | | A | 2.1 |

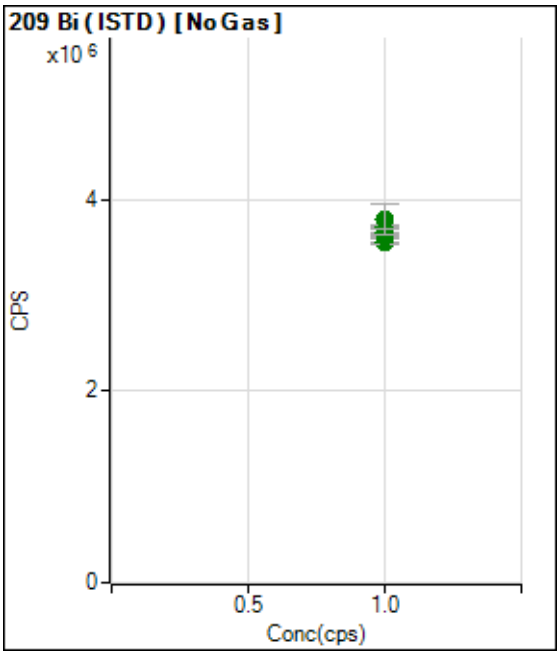



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 5807879.64 | | A | 1.7 |
| 2 | ☐ | 1.000 | | 5722058.04 | | A | 0.8 |
| 3 | ☐ | 1.000 | | 5723824.43 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 5796086.03 | | A | 1.3 |
| 5 | ☐ | 1.000 | | 5772721.16 | | A | 0.8 |
| 6 | ☐ | 1.000 | | 5878419.15 | | A | 1.0 |
| 7 | ☐ | 1.000 | | 6011624.98 | | A | 1.8 |
| 8 | ☐ | 1.000 | | 6627594.90 | | A | 7.2 |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4383949.83 | | A | 0.2 |
| 2 | ☐ | 1.000 | | 4416623.79 | | A | 1.0 |
| 3 | ☐ | 1.000 | | 4535341.81 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 4546607.99 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 4650298.02 | | A | 0.9 |
| 6 | ☐ | 1.000 | | 4703960.38 | | A | 0.1 |
| 7 | ☐ | 1.000 | | 4824387.67 | | A | 1.1 |
| 8 | ☐ | 1.000 | | 4738966.35 | | A | 1.3 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3586628.97 | | A | 1.9 |
| 2 | ☐ | 1.000 | | 3555494.29 | | A | 1.7 |
| 3 | ☐ | 1.000 | | 3618526.89 | | A | 0.5 |
| 4 | ☐ | 1.000 | | 3632845.57 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 3692534.32 | | A | 0.5 |
| 6 | ☐ | 1.000 | | 3702309.04 | | A | 1.1 |
| 7 | ☐ | 1.000 | | 3657375.92 | | A | 1.8 |
| 8 | ☐ | 1.000 | | 3783788.03 | | A | 8.6 |

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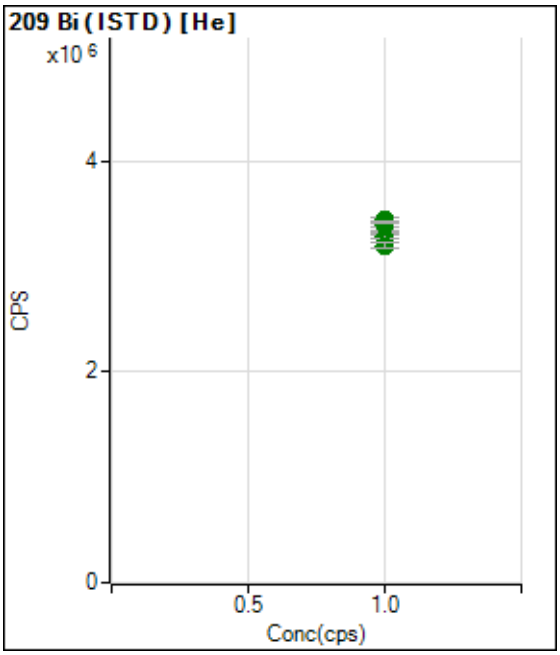
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3281809.53 | | A | 0.8 |
| 2 | ☐ | 1.000 | | 3290418.77 | | A | 1.4 |
| 3 | ☐ | 1.000 | | 3369552.94 | | A | 2.1 |
| 4 | ☐ | 1.000 | | 3393327.14 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 3442124.39 | | A | 1.5 |
| 6 | ☐ | 1.000 | | 3423865.30 | | A | 0.8 |
| 7 | ☐ | 1.000 | | 3413806.20 | | A | 0.5 |
| 8 | ☐ | 1.000 | | 3200309.71 | | A | 1.6 |

# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 11:59
AM
Inst Id :P7
LB :LB135315

**Operator Name** Jaswal

**Acq/Data Batch** D:\Agilent\ICPMH\1\DATA\P7040425MS.b

**Acq. Date-Time** 2025-04-04 12:51:02

**Report Comment** ---

**Instrument Name** G8403A JP14410463

**[No Gas]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 9 | | 6602 | 66016.09 | | | 0.865 | 5.000 |
| 24 | | 80017 | 800173.55 | | | 0.759 | 5.000 |
| 25 | | 10150 | 101497.17 | | | 0.821 | 5.000 |
| 26 | | 11447 | 114472.12 | | | 1.058 | 5.000 |
| 59 | | 44549 | 445488.35 | | | 0.258 | 5.000 |
| 113 | | 6316 | 63156.54 | | | 0.206 | 5.000 |
| 115 | | 75148 | 751479.57 | | | 0.590 | 5.000 |
| 206 | | 14463 | 144630.74 | | | 0.577 | 5.000 |
| 207 | | 12377 | 123774.18 | | | 0.400 | 5.000 |
| 208 | | 29914 | 299136.18 | | | 0.632 | 5.000 |
| 220 | | 0 | 3.90 | | | 21.066 | |

| 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 | 6565 | 6533 | 6610 | 6618 | 6683 |
| 24 | 79430 | 79608 | 80885 | 80400 | 79763 |
| 25 | 10084 | 10057 | 10166 | 10269 | 10173 |
| 26 | 11310 | 11319 | 11545 | 11540 | 11522 |
| 59 | 44485 | 44697 | 44627 | 44529 | 44407 |
| 113 | 6334 | 6312 | 6321 | 6298 | 6313 |
| 115 | 75711 | 75445 | 74849 | 75126 | 74608 |
| 206 | 14588 | 14393 | 14510 | 14410 | 14415 |
| 207 | 12415 | 12343 | 12351 | 12445 | 12333 |
| 208 | 30088 | 29692 | 30076 | 29979 | 29733 |

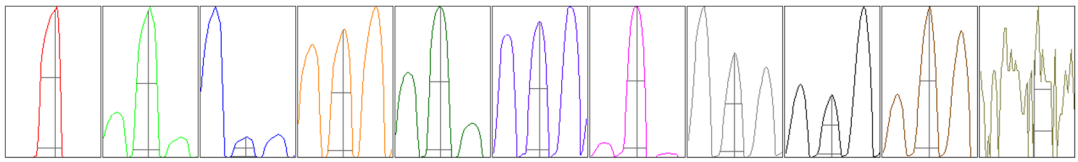
# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 11:59 AM
Inst Id :P7
LB :LB135315

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

Integration Time [sec] 0.1

**Resolution/Axis**



| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 11094.98 | 9.10 | 8.90 - 9.10 | |
| 24 | 129252.77 | 23.95 | 23.90 - 24.10 | |
| 25 | 17009.86 | 24.95 | 24.90 - 25.10 | |
| 26 | 19376.41 | 25.95 | 25.90 - 26.10 | |
| 59 | 76410.54 | 58.95 | 58.90 - 59.10 | |
| 113 | 11991.72 | 113.00 | 112.90 - 113.10 | |
| 115 | 140537.06 | 115.00 | 114.90 - 115.10 | |
| 206 | 29092.83 | 206.00 | 205.90 - 206.10 | |
| 207 | 25282.66 | 207.00 | 206.90 - 207.10 | |
| 208 | 60333.38 | 208.00 | 207.90 - 208.10 | |
| 220 | 0.45 | 220.25 | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.62 | 0.774 | 0.900 | |
| 24 | 0.66 | 0.831 | 0.900 | |
| 25 | 0.63 | 0.745 | 0.900 | |
| 26 | 0.63 | 0.783 | 0.900 | |
| 59 | 0.61 | 0.782 | 0.900 | |
| 113 | 0.54 | 0.727 | 0.900 | |
| 115 | 0.54 | 0.736 | 0.900 | |
| 206 | 0.51 | 0.756 | 0.900 | |
| 207 | 0.51 | 0.754 | 0.900 | |
| 208 | 0.51 | 0.768 | 0.900 | |
| 220 | 0.52 | 0.570 | | |

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

**Tune Parameters**

**Plasma Parameters**

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

# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 11:59
AM
Inst Id :P7
LB :LB135315

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

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 8.4 V | Deflect | 15.8 V |
| Extract 2 | -130.0 V | Cell Entrance | -30 V | Plate Bias | -35 V |
| Omega Bias | -50 V | Cell Exit | -50 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | No | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -8.0 V | | |
| H2 Flow | --- | OctP RF | 170 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 139 | Axis Gain | 0.9976 | QP Bias | -3.0 V |
| Mass Offset | 129 | Axis Offset | 0.12 | | |

**Hardware Settings**

**Torch**

| | | | |
|---|---|---|---|
| Torch H | -0.1 mm | Torch V | 0.4 mm |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.7 mV | Analog HV | 2319 V | Pulse HV | 1152 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 15195 | 151951.51 | | | 0.534 | |
| 89 | | 50529 | 505292.27 | | | 0.709 | |
| 205 | | 16946 | 169455.12 | | | 0.733 | |

| Mass | RSD% (Flag) |
|---|---|
| 59 | |
| 89 | |
| 205 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 15276 | 15246 | 15170 | 15216 | 15068 |
| 89 | 50908 | 50934 | 50267 | 50243 | 50294 |
| 205 | 17114 | 17001 | 16954 | 16790 | 16869 |

Integration Time [sec] 0.1

**Tune Parameters**

**Plasma Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.87 L/min | Dilution Gas | 0.40 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.8 mm | S/C Temp | 2 °C | | |

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 9.8 V | Deflect | 4.0 V |

# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 11:59
AM
Inst Id :P7
LB :LB135315

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -165.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -80 V | Cell Exit | -60 V | | |

**Cell Parameters**

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

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 139 | Axis Gain | 0.9976 | QP Bias | -13.0 V |
| Mass Offset | 129 | Axis Offset | 0.12 | | |

**Hardware Settings**

**Torch**

| | | | |
|---|---|---|---|
| Torch H | -0.1 mm | Torch V | 0.4 mm |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.7 mV | Analog HV | 2319 V | Pulse HV | 1152 V |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:09:04 | DataFile Name : | 005CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.23 | -0.10 | -0.13 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.01 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | -0.02 | 0.00 | 0.02 | 0.00 | N/A | ppb |
| Barium | 135-1 | 0.01 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Beryllium | 9-1 | 0.01 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.11 | 0.00 | 0.11 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | -0.16 | 0.67 | -0.51 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | -0.01 | 0.04 | -0.04 | 0.00 | N/A | ppb |
| Calcium | 43-1 | 0.51 | 0.78 | -1.29 | 0.00 | N/A | ppb |
| Calcium | 44-1 | -1.90 | -0.07 | 1.97 | 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 | 0.05 | 0.00 | N/A | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Copper | 63-2 | -0.01 | 0.01 | 0.00 | 0.00 | N/A | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 56-2 | -0.04 | -0.08 | 0.12 | 0.00 | N/A | ppb |
| Iron | 57-2 | -0.06 | 0.41 | -0.35 | 0.00 | N/A | ppb |
| Iron | 54-2 | 1.01 | -1.54 | 0.53 | 0.00 | N/A | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:09:04 | DataFile Name : | 005CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.03 | 0.02 | 0.01 | 0.00 | N/A | ppb |
| Lead | 207-1 | 0.00 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Lead | 208-1 | -0.01 | 0.00 | 0.01 | 0.00 | N/A | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | -0.06 | 0.04 | 0.02 | 0.00 | N/A | ppb |
| Manganese | 55-2 | 0.04 | -0.04 | 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 | 0.01 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.04 | -0.01 | -0.03 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -25.04 | -23.20 | -19.20 | -22.48 | | ppb |
| Potassium | 39-2 | 1.60 | -0.54 | -1.06 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 0.16 | -0.36 | 0.20 | 0.00 | N/A | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.84 | 0.18 | 0.66 | 0.00 | N/A | ppb |
| Silicon | 28-1 | -3.72 | 2.55 | 1.17 | 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 | 0.00 | 0.24 | -0.24 | 0.00 | N/A | ppb |
| Strontium | 86-1 | 0.03 | -0.01 | -0.02 | 0.00 | N/A | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | -340.64 | 121.90 | 87.37 | -43.79 | | 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 | 0.00 | 0.00 | N/A | ppb |
| Titanium | 47-1 | -0.02 | -0.01 | 0.02 | 0.00 | N/A | ppb |

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On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:09:04 | DataFile Name : | 005CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | -0.01 | -0.03 | 0.04 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | -0.02 | -0.01 | 0.02 | 0.00 | N/A | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:15:42 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 21.50 | 22.64 | 20.75 | 21.63 | 4.40 | ppb |
| Antimony | 121-1 | 2.25 | 2.18 | 2.19 | 2.21 | 1.86 | ppb |
| Arsenic | 75-2 | 1.28 | 1.13 | 1.18 | 1.20 | 6.20 | ppb |
| Barium | 135-1 | 10.63 | 10.65 | 10.06 | 10.45 | 3.23 | ppb |
| Barium | 137-1 | 10.78 | 10.55 | 10.63 | 10.65 | 1.12 | ppb |
| Beryllium | 9-1 | 1.02 | 1.12 | 1.12 | 1.09 | 5.27 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.95 | 0.96 | 1.13 | 1.01 | 9.94 | ppb |
| Cadmium | 106-1 | 1.57 | 1.51 | 0.60 | 1.23 | 44.14 | ppb |
| Cadmium | 111-1 | 1.18 | 1.23 | 1.10 | 1.17 | 5.59 | ppb |
| Calcium | 43-1 | 637.33 | 646.55 | 630.62 | 638.16 | 1.25 | ppb |
| Calcium | 44-1 | 632.36 | 643.40 | 626.73 | 634.16 | 1.34 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.21 | 2.24 | 2.18 | 2.21 | 1.36 | ppb |
| Cobalt | 59-2 | 1.19 | 1.19 | 1.11 | 1.16 | 3.95 | ppb |
| Copper | 63-2 | 2.11 | 2.21 | 2.07 | 2.13 | 3.34 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 56-2 | 59.18 | 60.82 | 58.54 | 59.52 | 1.98 | ppb |
| Iron | 57-2 | 63.97 | 62.87 | 63.43 | 63.43 | 0.87 | ppb |
| Iron | 54-2 | 58.84 | 60.33 | 63.43 | 60.87 | 3.85 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:15:42 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.97 | 0.97 | 1.03 | 0.99 | 3.67 | ppb |
| Lead | 207-1 | 1.02 | 1.03 | 1.04 | 1.03 | 0.96 | ppb |
| Lead | 208-1 | 1.00 | 0.99 | 1.05 | 1.02 | 3.34 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 549.39 | 557.66 | 546.84 | 551.29 | 1.03 | ppb |
| Manganese | 55-2 | 1.03 | 0.93 | 1.01 | 0.99 | 4.93 | ppb |
| Molybdenum | 94-1 | 6.45 | 6.16 | 6.47 | 6.36 | 2.68 | ppb |
| Molybdenum | 95-1 | 5.35 | 5.40 | 5.31 | 5.35 | 0.81 | ppb |
| Molybdenum | 96-1 | 5.63 | 5.40 | 5.51 | 5.51 | 2.16 | ppb |
| Molybdenum | 97-1 | 5.30 | 5.39 | 5.32 | 5.34 | 0.95 | ppb |
| Molybdenum | 98-1 | 5.47 | 5.30 | 5.61 | 5.46 | 2.80 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.99 | 1.13 | 0.96 | 1.03 | 8.99 | ppb |
| Phosphorus | 31-2 | 24.91 | 15.18 | 27.34 | 22.48 | 28.64 | ppb |
| Potassium | 39-2 | 567.31 | 569.87 | 569.54 | 568.91 | 0.24 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 5.80 | 6.40 | 5.81 | 6.00 | 5.77 | ppb |
| Selenium | 77-2 | 5.84 | 5.64 | 5.41 | 5.63 | 3.79 | ppb |
| Selenium | 78-2 | 7.68 | 4.75 | 7.34 | 6.59 | 24.34 | ppb |
| Silicon | 28-1 | 0.33 | 0.28 | -0.01 | 0.20 | 92.19 | ppb |
| Silver | 107-1 | 1.08 | 1.12 | 1.13 | 1.11 | 2.63 | ppb |
| Silver | 109-1 | 1.10 | 1.12 | 1.15 | 1.12 | 2.03 | ppb |
| Sodium | 23-2 | 548.86 | 562.28 | 555.14 | 555.43 | 1.21 | ppb |
| Strontium | 86-1 | 1.05 | 1.10 | 1.11 | 1.09 | 2.78 | ppb |
| Strontium | 88-1 | 1.11 | 1.09 | 1.12 | 1.11 | 1.43 | ppb |
| Sulfur | 34-1 | 27.03 | 82.63 | 21.70 | 43.79 | 77.07 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.97 | 1.04 | 1.00 | 1.00 | 3.53 | ppb |
| Thallium | 205-1 | 0.96 | 1.01 | 1.04 | 1.00 | 3.83 | ppb |
| Tin | 118-1 | 5.79 | 5.66 | 5.72 | 5.72 | 1.16 | ppb |
| Titanium | 47-1 | 5.21 | 5.47 | 5.47 | 5.38 | 2.82 | ppb |

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Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:15:42 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1.02 | 1.01 | 1.01 | 1.01 | 0.57 | ppb |
| Vanadium | 51-2 | 5.38 | 5.25 | 5.24 | 5.29 | 1.49 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 5.10 | 5.25 | 5.11 | 5.16 | 1.64 | ppb |
| Zirconium | 90-1 | 1.07 | 1.00 | 1.07 | 1.05 | 3.78 | ppb |
| Zirconium | 91-1 | 0.98 | 1.01 | 1.04 | 1.01 | 2.90 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:19:02 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1022.11 | 1036.34 | 1044.82 | 1034.42 | 1.11 | ppb |
| Antimony | 121-1 | 51.89 | 50.89 | 51.97 | 51.58 | 1.16 | ppb |
| Arsenic | 75-2 | 51.02 | 51.38 | 51.41 | 51.27 | 0.43 | ppb |
| Barium | 135-1 | 250.39 | 248.07 | 249.87 | 249.44 | 0.49 | ppb |
| Barium | 137-1 | 252.58 | 251.12 | 253.15 | 252.28 | 0.42 | ppb |
| Beryllium | 9-1 | 53.53 | 52.41 | 53.73 | 53.22 | 1.34 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 51.10 | 53.48 | 52.15 | 52.24 | 2.28 | ppb |
| Cadmium | 106-1 | 53.93 | 51.78 | 52.49 | 52.73 | 2.07 | ppb |
| Cadmium | 111-1 | 52.53 | 52.11 | 52.64 | 52.43 | 0.53 | ppb |
| Calcium | 43-1 | 6059.77 | 5915.82 | 6110.40 | 6028.66 | 1.67 | ppb |
| Calcium | 44-1 | 5865.08 | 5807.16 | 5901.08 | 5857.77 | 0.81 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 51.50 | 51.74 | 51.62 | 51.62 | 0.23 | ppb |
| Cobalt | 59-2 | 50.60 | 51.31 | 51.41 | 51.11 | 0.86 | ppb |
| Copper | 63-2 | 511.00 | 517.27 | 515.80 | 514.69 | 0.64 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 2611.44 | 2662.67 | 2624.52 | 2632.88 | 1.01 | ppb |
| Iron | 57-2 | 2746.40 | 2756.17 | 2774.56 | 2759.04 | 0.52 | ppb |
| Iron | 54-2 | 2763.15 | 2814.44 | 2773.93 | 2783.84 | 0.97 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:19:02 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 236.97 | 243.76 | 238.72 | 239.82 | 1.47 | ppb |
| Lead | 207-1 | 233.86 | 240.11 | 235.40 | 236.46 | 1.38 | ppb |
| Lead | 208-1 | 238.39 | 246.83 | 240.63 | 241.95 | 1.81 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 5130.03 | 5166.78 | 5211.27 | 5169.36 | 0.79 | ppb |
| Manganese | 55-2 | 506.77 | 509.98 | 506.16 | 507.64 | 0.40 | ppb |
| Molybdenum | 94-1 | 508.49 | 502.77 | 507.93 | 506.40 | 0.62 | ppb |
| Molybdenum | 95-1 | 508.12 | 503.76 | 501.26 | 504.38 | 0.69 | ppb |
| Molybdenum | 96-1 | 510.15 | 506.34 | 506.76 | 507.75 | 0.41 | ppb |
| Molybdenum | 97-1 | 512.29 | 514.85 | 511.69 | 512.94 | 0.33 | ppb |
| Molybdenum | 98-1 | 500.30 | 513.03 | 489.90 | 501.08 | 2.31 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 51.40 | 52.84 | 53.12 | 52.45 | 1.75 | ppb |
| Phosphorus | 31-2 | 1076.36 | 1036.05 | 1034.96 | 1049.12 | 2.25 | ppb |
| Potassium | 39-2 | 2673.34 | 2681.05 | 2691.96 | 2682.12 | 0.35 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 53.59 | 52.13 | 53.95 | 53.22 | 1.81 | ppb |
| Selenium | 77-2 | 61.65 | 57.82 | 51.08 | 56.85 | 9.41 | ppb |
| Selenium | 78-2 | 51.61 | 54.39 | 55.01 | 53.67 | 3.38 | ppb |
| Silicon | 28-1 | 48.46 | 45.15 | 45.59 | 46.40 | 3.88 | ppb |
| Silver | 107-1 | 53.53 | 52.46 | 53.68 | 53.22 | 1.25 | ppb |
| Silver | 109-1 | 53.04 | 52.46 | 53.57 | 53.03 | 1.04 | ppb |
| Sodium | 23-2 | 5303.30 | 5376.43 | 5380.07 | 5353.26 | 0.81 | ppb |
| Strontium | 86-1 | 50.70 | 51.11 | 50.40 | 50.74 | 0.71 | ppb |
| Strontium | 88-1 | 51.17 | 50.99 | 51.35 | 51.17 | 0.35 | ppb |
| Sulfur | 34-1 | 1248.59 | 1065.72 | 1101.42 | 1138.58 | 8.51 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 47.67 | 48.03 | 47.23 | 47.64 | 0.85 | ppb |
| Thallium | 205-1 | 46.94 | 47.37 | 46.80 | 47.03 | 0.63 | ppb |
| Tin | 118-1 | 51.47 | 50.31 | 51.98 | 51.26 | 1.67 | ppb |
| Titanium | 47-1 | 505.77 | 498.93 | 509.65 | 504.79 | 1.08 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:19:02 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 44.61 | 45.62 | 45.65 | 45.29 | 1.31 | ppb |
| Vanadium | 51-2 | 50.43 | 50.13 | 50.96 | 50.51 | 0.83 | ppb |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 540.35 | 545.01 | 545.12 | 543.49 | 0.50 | ppb |
| Zirconium | 90-1 | 50.52 | 50.91 | 50.53 | 50.65 | 0.44 | ppb |
| Zirconium | 91-1 | 50.75 | 50.74 | 51.11 | 50.87 | 0.42 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:22:15 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2539.85 | 2563.91 | 2516.50 | 2540.08 | 0.93 | ppb |
| Antimony | 121-1 | 128.55 | 128.76 | 127.12 | 128.14 | 0.70 | ppb |
| Arsenic | 75-2 | 125.40 | 131.47 | 127.52 | 128.13 | 2.40 | ppb |
| Barium | 135-1 | 620.61 | 623.25 | 624.15 | 622.67 | 0.30 | ppb |
| Barium | 137-1 | 629.61 | 631.90 | 628.21 | 629.91 | 0.30 | ppb |
| Beryllium | 9-1 | 131.27 | 132.41 | 132.55 | 132.08 | 0.53 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 103 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 128.00 | 131.20 | 127.93 | 129.04 | 1.45 | ppb |
| Cadmium | 106-1 | 130.96 | 130.07 | 132.04 | 131.02 | 0.75 | ppb |
| Cadmium | 111-1 | 131.24 | 132.01 | 132.10 | 131.78 | 0.36 | ppb |
| Calcium | 43-1 | 14761.35 | 14713.57 | 14732.39 | 14735.77 | 0.16 | ppb |
| Calcium | 44-1 | 13901.16 | 13753.30 | 13926.99 | 13860.48 | 0.68 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 127.18 | 128.17 | 126.82 | 127.39 | 0.55 | ppb |
| Cobalt | 59-2 | 126.41 | 126.93 | 126.09 | 126.47 | 0.34 | ppb |
| Copper | 63-2 | 1287.10 | 1284.90 | 1256.19 | 1276.06 | 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 | | | | 100 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 56-2 | 6553.07 | 6560.42 | 6456.87 | 6523.45 | 0.89 | ppb |
| Iron | 57-2 | 6802.44 | 6856.23 | 6767.50 | 6808.72 | 0.66 | ppb |
| Iron | 54-2 | 6905.22 | 6902.18 | 6821.11 | 6876.17 | 0.69 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:22:15 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 606.84 | 609.13 | 627.85 | 614.61 | 1.88 | ppb |
| Lead | 207-1 | 612.20 | 616.44 | 620.32 | 616.32 | 0.66 | ppb |
| Lead | 208-1 | 614.98 | 617.48 | 620.07 | 617.51 | 0.41 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 12894.81 | 13091.78 | 12813.79 | 12933.46 | 1.11 | ppb |
| Manganese | 55-2 | 1234.61 | 1263.72 | 1230.82 | 1243.05 | 1.45 | ppb |
| Molybdenum | 94-1 | 1267.81 | 1253.21 | 1240.27 | 1253.77 | 1.10 | ppb |
| Molybdenum | 95-1 | 1268.01 | 1253.51 | 1212.44 | 1244.65 | 2.32 | ppb |
| Molybdenum | 96-1 | 1268.67 | 1253.18 | 1245.69 | 1255.85 | 0.93 | ppb |
| Molybdenum | 97-1 | 1263.18 | 1241.07 | 1239.18 | 1247.81 | 1.07 | ppb |
| Molybdenum | 98-1 | 1247.12 | 1231.77 | 1230.12 | 1236.34 | 0.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 127.47 | 129.80 | 127.85 | 128.38 | 0.97 | ppb |
| Phosphorus | 31-2 | 2550.00 | 2497.82 | 2518.51 | 2522.11 | 1.04 | ppb |
| Potassium | 39-2 | 6393.58 | 6326.42 | 6242.45 | 6320.82 | 1.20 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 98 | | % |
| Selenium | 82-1 | 134.09 | 131.95 | 129.19 | 131.75 | 1.86 | ppb |
| Selenium | 77-2 | 129.90 | 131.64 | 131.19 | 130.91 | 0.69 | ppb |
| Selenium | 78-2 | 124.04 | 129.67 | 131.30 | 128.34 | 2.97 | ppb |
| Silicon | 28-1 | 133.42 | 130.76 | 134.40 | 132.86 | 1.42 | ppb |
| Silver | 107-1 | 133.57 | 132.85 | 133.64 | 133.35 | 0.33 | ppb |
| Silver | 109-1 | 134.16 | 132.70 | 131.30 | 132.72 | 1.07 | ppb |
| Sodium | 23-2 | 13026.71 | 13133.69 | 13019.76 | 13060.05 | 0.49 | ppb |
| Strontium | 86-1 | 125.32 | 125.72 | 123.34 | 124.79 | 1.02 | ppb |
| Strontium | 88-1 | 123.85 | 125.18 | 122.99 | 124.01 | 0.89 | ppb |
| Sulfur | 34-1 | 2617.12 | 2553.34 | 2540.93 | 2570.47 | 1.59 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 119.83 | 120.45 | 120.79 | 120.36 | 0.40 | ppb |
| Thallium | 205-1 | 118.20 | 118.20 | 118.93 | 118.44 | 0.36 | ppb |
| Tin | 118-1 | 127.80 | 128.65 | 128.17 | 128.20 | 0.33 | ppb |
| Titanium | 47-1 | 1250.26 | 1245.14 | 1236.74 | 1244.05 | 0.55 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:22:15 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 115.03 | 114.84 | 116.16 | 115.34 | 0.62 | ppb |
| Vanadium | 51-2 | 125.97 | 125.76 | 125.79 | 125.84 | 0.09 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 1313.21 | 1313.67 | 1294.01 | 1306.96 | 0.86 | ppb |
| Zirconium | 90-1 | 126.22 | 126.15 | 123.73 | 125.37 | 1.13 | ppb |
| Zirconium | 91-1 | 126.31 | 126.14 | 123.57 | 125.34 | 1.22 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:25:20 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5153.36 | 5076.30 | 5081.65 | 5103.77 | 0.84 | ppb |
| Antimony | 121-1 | 250.37 | 254.06 | 252.24 | 252.22 | 0.73 | ppb |
| Arsenic | 75-2 | 255.73 | 255.63 | 253.71 | 255.02 | 0.45 | ppb |
| Barium | 135-1 | 1225.68 | 1233.64 | 1239.65 | 1232.99 | 0.57 | ppb |
| Barium | 137-1 | 1242.78 | 1250.50 | 1265.12 | 1252.80 | 0.91 | ppb |
| Beryllium | 9-1 | 257.29 | 259.88 | 262.58 | 259.92 | 1.02 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 250.45 | 260.02 | 262.12 | 257.53 | 2.42 | ppb |
| Cadmium | 106-1 | 264.45 | 260.20 | 255.54 | 260.07 | 1.71 | ppb |
| Cadmium | 111-1 | 260.37 | 262.01 | 257.61 | 260.00 | 0.86 | ppb |
| Calcium | 43-1 | 29960.16 | 30911.60 | 29728.44 | 30200.07 | 2.08 | ppb |
| Calcium | 44-1 | 27815.71 | 29437.05 | 27726.03 | 28326.26 | 3.40 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 259.29 | 258.24 | 256.94 | 258.16 | 0.46 | ppb |
| Cobalt | 59-2 | 256.71 | 254.49 | 254.26 | 255.16 | 0.53 | ppb |
| Copper | 63-2 | 2619.35 | 2526.27 | 2597.11 | 2580.91 | 1.88 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 13431.68 | 13210.17 | 13417.12 | 13352.99 | 0.93 | ppb |
| Iron | 57-2 | 13810.57 | 13860.27 | 13943.90 | 13871.58 | 0.49 | ppb |
| Iron | 54-2 | 13459.73 | 13886.47 | 13894.63 | 13746.95 | 1.81 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:25:20 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1208.95 | 1246.29 | 1248.91 | 1234.72 | 1.81 | ppb |
| Lead | 207-1 | 1225.67 | 1251.52 | 1247.08 | 1241.42 | 1.11 | ppb |
| Lead | 208-1 | 1231.93 | 1244.65 | 1243.84 | 1240.14 | 0.57 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 25959.93 | 25753.84 | 25837.86 | 25850.55 | 0.40 | ppb |
| Manganese | 55-2 | 2515.81 | 2519.41 | 2566.95 | 2534.05 | 1.13 | ppb |
| Molybdenum | 94-1 | 2539.26 | 2559.85 | 2535.37 | 2544.83 | 0.52 | ppb |
| Molybdenum | 95-1 | 2527.89 | 2524.01 | 2514.31 | 2522.07 | 0.28 | ppb |
| Molybdenum | 96-1 | 2543.99 | 2581.04 | 2535.68 | 2553.57 | 0.95 | ppb |
| Molybdenum | 97-1 | 2525.96 | 2557.85 | 2550.49 | 2544.77 | 0.66 | ppb |
| Molybdenum | 98-1 | 2530.30 | 2542.27 | 2583.94 | 2552.17 | 1.10 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 259.90 | 257.46 | 257.62 | 258.33 | 0.53 | ppb |
| Phosphorus | 31-2 | 5066.37 | 5060.40 | 5196.41 | 5107.72 | 1.50 | ppb |
| Potassium | 39-2 | 12554.82 | 12522.75 | 12761.11 | 12612.89 | 1.03 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 266.22 | 267.80 | 265.22 | 266.41 | 0.49 | ppb |
| Selenium | 77-2 | 249.23 | 261.75 | 263.06 | 258.01 | 2.96 | ppb |
| Selenium | 78-2 | 266.35 | 271.09 | 260.56 | 266.00 | 1.98 | ppb |
| Silicon | 28-1 | 268.79 | 289.43 | 276.12 | 278.11 | 3.76 | ppb |
| Silver | 107-1 | 259.91 | 256.89 | 254.27 | 257.02 | 1.10 | ppb |
| Silver | 109-1 | 258.04 | 261.33 | 260.50 | 259.96 | 0.66 | ppb |
| Sodium | 23-2 | 26337.76 | 26274.88 | 26270.50 | 26294.38 | 0.14 | ppb |
| Strontium | 86-1 | 253.60 | 254.12 | 253.10 | 253.61 | 0.20 | ppb |
| Strontium | 88-1 | 254.81 | 256.43 | 255.76 | 255.67 | 0.32 | ppb |
| Sulfur | 34-1 | 5388.44 | 5805.60 | 5184.85 | 5459.63 | 5.80 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 240.01 | 240.54 | 238.91 | 239.82 | 0.35 | ppb |
| Thallium | 205-1 | 244.93 | 242.03 | 244.54 | 243.83 | 0.65 | ppb |
| Tin | 118-1 | 253.34 | 253.41 | 251.48 | 252.74 | 0.43 | ppb |
| Titanium | 47-1 | 2502.85 | 2661.95 | 2514.43 | 2559.74 | 3.47 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:25:20 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 239.71 | 246.78 | 249.92 | 245.47 | 2.13 | ppb |
| Vanadium | 51-2 | 254.33 | 252.31 | 255.52 | 254.05 | 0.64 | ppb |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 2636.39 | 2645.82 | 2670.97 | 2651.06 | 0.67 | ppb |
| Zirconium | 90-1 | 255.01 | 256.53 | 252.73 | 254.76 | 0.75 | ppb |
| Zirconium | 91-1 | 255.93 | 255.98 | 257.41 | 256.44 | 0.33 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:28:16 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10078.01 | 10029.63 | 9870.40 | 9992.68 | 1.09 | ppb |
| Antimony | 121-1 | 510.03 | 497.91 | 502.26 | 503.40 | 1.22 | ppb |
| Arsenic | 75-2 | 497.13 | 488.75 | 511.57 | 499.15 | 2.31 | ppb |
| Barium | 135-1 | 2535.85 | 2487.47 | 2522.90 | 2515.41 | 1.00 | ppb |
| Barium | 137-1 | 2561.37 | 2480.73 | 2562.05 | 2534.72 | 1.84 | ppb |
| Beryllium | 9-1 | 509.49 | 512.11 | 515.47 | 512.36 | 0.59 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 517.13 | 500.41 | 510.81 | 509.45 | 1.66 | ppb |
| Cadmium | 106-1 | 510.44 | 505.15 | 516.20 | 510.60 | 1.08 | ppb |
| Cadmium | 111-1 | 514.28 | 505.71 | 510.86 | 510.28 | 0.85 | ppb |
| Calcium | 43-1 | 57292.85 | 58437.15 | 60745.49 | 58825.16 | 2.99 | ppb |
| Calcium | 44-1 | 54047.87 | 55331.42 | 56339.18 | 55239.49 | 2.08 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 507.45 | 509.32 | 505.26 | 507.34 | 0.40 | ppb |
| Cobalt | 59-2 | 501.30 | 501.11 | 498.00 | 500.14 | 0.37 | ppb |
| Copper | 63-2 | 5072.59 | 5068.97 | 5048.12 | 5063.23 | 0.26 | 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 | | | | 101 | | % |
| Holmium | 165-2 | | | | 107 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 26561.83 | 26290.33 | 26185.08 | 26345.75 | 0.74 | ppb |
| Iron | 57-2 | 27474.19 | 27399.06 | 27146.28 | 27339.84 | 0.63 | ppb |
| Iron | 54-2 | 26572.78 | 26902.18 | 26408.81 | 26627.92 | 0.94 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:28:16 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2460.78 | 2445.52 | 2457.57 | 2454.62 | 0.33 | ppb |
| Lead | 207-1 | 2466.81 | 2409.77 | 2457.18 | 2444.59 | 1.25 | ppb |
| Lead | 208-1 | 2485.00 | 2457.41 | 2472.86 | 2471.76 | 0.56 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 51118.78 | 51146.81 | 50523.79 | 50929.79 | 0.69 | ppb |
| Manganese | 55-2 | 5044.80 | 4999.72 | 5022.39 | 5022.30 | 0.45 | ppb |
| Molybdenum | 94-1 | 5022.14 | 5061.33 | 4964.65 | 5016.04 | 0.97 | ppb |
| Molybdenum | 95-1 | 4987.07 | 5098.60 | 4937.94 | 5007.87 | 1.64 | ppb |
| Molybdenum | 96-1 | 5001.80 | 5199.69 | 4940.19 | 5047.23 | 2.69 | ppb |
| Molybdenum | 97-1 | 5028.45 | 5079.45 | 4955.27 | 5021.05 | 1.24 | ppb |
| Molybdenum | 98-1 | 5077.43 | 5016.38 | 4938.61 | 5010.81 | 1.39 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 509.61 | 505.81 | 508.49 | 507.97 | 0.38 | ppb |
| Phosphorus | 31-2 | 10202.62 | 10230.94 | 9882.30 | 10105.29 | 1.92 | ppb |
| Potassium | 39-2 | 25323.34 | 25217.05 | 24891.14 | 25143.84 | 0.90 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 511.05 | 520.70 | 507.94 | 513.23 | 1.30 | ppb |
| Selenium | 77-2 | 525.32 | 498.09 | 503.38 | 508.93 | 2.84 | ppb |
| Selenium | 78-2 | 522.42 | 497.57 | 505.51 | 508.50 | 2.50 | ppb |
| Silicon | 28-1 | 465.27 | 496.04 | 505.90 | 489.07 | 4.33 | ppb |
| Silver | 107-1 | 518.58 | 504.34 | 508.42 | 510.45 | 1.44 | ppb |
| Silver | 109-1 | 515.36 | 501.70 | 513.97 | 510.34 | 1.47 | ppb |
| Sodium | 23-2 | 52053.90 | 52248.52 | 51539.71 | 51947.38 | 0.70 | ppb |
| Strontium | 86-1 | 503.37 | 508.29 | 493.41 | 501.69 | 1.51 | ppb |
| Strontium | 88-1 | 503.52 | 511.77 | 493.14 | 502.81 | 1.86 | ppb |
| Sulfur | 34-1 | 9787.04 | 9766.79 | 10206.97 | 9920.27 | 2.50 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 497.90 | 487.37 | 498.64 | 494.64 | 1.27 | ppb |
| Thallium | 205-1 | 495.06 | 486.35 | 493.48 | 491.63 | 0.94 | ppb |
| Tin | 118-1 | 512.52 | 503.33 | 507.66 | 507.84 | 0.91 | ppb |
| Titanium | 47-1 | 4873.81 | 4960.33 | 5166.73 | 5000.29 | 3.01 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:28:16 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 497.69 | 487.81 | 499.93 | 495.14 | 1.30 | ppb |
| Vanadium | 51-2 | 506.96 | 504.75 | 501.56 | 504.42 | 0.54 | ppb |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 5083.29 | 5149.49 | 5135.96 | 5122.91 | 0.68 | ppb |
| Zirconium | 90-1 | 498.91 | 508.06 | 494.45 | 500.47 | 1.39 | ppb |
| Zirconium | 91-1 | 508.37 | 515.29 | 501.34 | 508.33 | 1.37 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:31:06 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20193.21 | 19954.68 | 20273.75 | 20140.55 | 0.82 | ppb |
| Antimony | 121-1 | 1010.74 | 983.17 | 997.91 | 997.27 | 1.38 | ppb |
| Arsenic | 75-2 | 1009.99 | 996.77 | 989.38 | 998.71 | 1.05 | ppb |
| Barium | 135-1 | 4910.33 | 5023.88 | 5056.39 | 4996.87 | 1.53 | ppb |
| Barium | 137-1 | 4971.49 | 4931.25 | 5040.90 | 4981.21 | 1.11 | ppb |
| Beryllium | 9-1 | 971.97 | 990.32 | 1008.59 | 990.29 | 1.85 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 988.20 | 992.35 | 997.78 | 992.78 | 0.48 | ppb |
| Cadmium | 106-1 | 988.38 | 994.77 | 990.73 | 991.30 | 0.33 | ppb |
| Cadmium | 111-1 | 992.63 | 984.80 | 996.74 | 991.39 | 0.61 | ppb |
| Calcium | 43-1 | 110233.88 | 113379.88 | 111888.47 | 111834.08 | 1.41 | ppb |
| Calcium | 44-1 | 108960.39 | 112269.35 | 111721.81 | 110983.85 | 1.60 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1008.09 | 982.71 | 990.93 | 993.91 | 1.30 | ppb |
| Cobalt | 59-2 | 1007.62 | 983.35 | 1004.23 | 998.40 | 1.32 | ppb |
| Copper | 63-2 | 10054.08 | 9806.37 | 9972.05 | 9944.17 | 1.27 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 56-2 | 52973.83 | 51981.88 | 52500.51 | 52485.41 | 0.95 | ppb |
| Iron | 57-2 | 52323.71 | 51678.41 | 52110.19 | 52037.44 | 0.63 | ppb |
| Iron | 54-2 | 53570.11 | 51853.72 | 52415.17 | 52613.00 | 1.66 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:31:06 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 5053.53 | 4953.41 | 5078.01 | 5028.32 | 1.31 | ppb |
| Lead | 207-1 | 5070.36 | 4916.88 | 5107.60 | 5031.61 | 2.01 | ppb |
| Lead | 208-1 | 5025.21 | 4938.56 | 5090.02 | 5017.93 | 1.51 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 101216.81 | 99691.27 | 101485.49 | 100797.86 | 0.96 | ppb |
| Manganese | 55-2 | 9970.56 | 9975.09 | 9996.81 | 9980.82 | 0.14 | ppb |
| Molybdenum | 94-1 | 9758.51 | 10115.53 | 10065.90 | 9979.98 | 1.94 | ppb |
| Molybdenum | 95-1 | 9713.03 | 10147.46 | 10112.51 | 9991.00 | 2.42 | ppb |
| Molybdenum | 96-1 | 9829.44 | 10148.03 | 9908.16 | 9961.88 | 1.67 | ppb |
| Molybdenum | 97-1 | 9818.71 | 10145.66 | 9969.36 | 9977.91 | 1.64 | ppb |
| Molybdenum | 98-1 | 9791.26 | 10080.53 | 10077.82 | 9983.21 | 1.67 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1005.40 | 985.25 | 989.52 | 993.39 | 1.07 | ppb |
| Phosphorus | 31-2 | 19998.37 | 19753.01 | 19994.23 | 19915.20 | 0.71 | ppb |
| Potassium | 39-2 | 50377.74 | 48666.58 | 50123.77 | 49722.70 | 1.86 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 975.73 | 1006.32 | 982.76 | 988.27 | 1.62 | ppb |
| Selenium | 77-2 | 985.91 | 1019.78 | 971.64 | 992.45 | 2.49 | ppb |
| Selenium | 78-2 | 1003.62 | 986.17 | 983.63 | 991.14 | 1.10 | ppb |
| Silicon | 28-1 | 979.09 | 1014.07 | 1000.03 | 997.73 | 1.76 | ppb |
| Silver | 107-1 | 999.07 | 983.09 | 993.28 | 991.82 | 0.82 | ppb |
| Silver | 109-1 | 999.88 | 980.49 | 993.30 | 991.22 | 1.00 | ppb |
| Sodium | 23-2 | 103199.70 | 101566.94 | 104252.79 | 103006.48 | 1.31 | ppb |
| Strontium | 86-1 | 980.87 | 1003.84 | 1010.01 | 998.24 | 1.54 | ppb |
| Strontium | 88-1 | 980.96 | 1003.53 | 1007.24 | 997.24 | 1.43 | ppb |
| Sulfur | 34-1 | 19382.71 | 20602.73 | 19742.23 | 19909.22 | 3.15 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 1002.12 | 978.02 | 1037.64 | 1005.93 | 2.98 | ppb |
| Thallium | 205-1 | 1008.22 | 996.57 | 1015.30 | 1006.70 | 0.94 | ppb |
| Tin | 118-1 | 981.42 | 990.94 | 1012.43 | 994.93 | 1.60 | ppb |
| Titanium | 47-1 | 9827.03 | 10136.55 | 9992.69 | 9985.42 | 1.55 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:31:06 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1010.54 | 997.36 | 1007.11 | 1005.00 | 0.68 | ppb |
| Vanadium | 51-2 | 995.42 | 986.36 | 1008.16 | 996.64 | 1.10 | ppb |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 9977.03 | 9788.20 | 9909.22 | 9891.48 | 0.97 | ppb |
| Zirconium | 90-1 | 975.90 | 1012.58 | 1007.00 | 998.50 | 1.98 | ppb |
| Zirconium | 91-1 | 980.23 | 1009.77 | 992.41 | 994.14 | 1.49 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:33:50 | DataFile Name : | 013CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 100038.11 | 99273.54 | 100586.61 | 99966.09 | 0.66 | ppb |
| Antimony | 121-1 | 0.33 | 0.46 | 0.50 | 0.43 | 20.37 | ppb |
| Arsenic | 75-2 | 0.47 | 0.40 | 0.60 | 0.49 | 21.02 | ppb |
| Barium | 135-1 | 1.50 | 2.00 | 2.19 | 1.90 | 18.71 | ppb |
| Barium | 137-1 | 1.62 | 2.04 | 2.20 | 1.95 | 15.28 | ppb |
| Beryllium | 9-1 | 0.13 | 0.08 | 0.09 | 0.10 | 26.07 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.24 | 0.29 | 0.31 | 0.28 | 12.28 | ppb |
| Cadmium | 106-1 | 0.47 | 0.44 | 0.39 | 0.43 | 8.72 | ppb |
| Cadmium | 111-1 | 0.16 | 0.17 | 0.19 | 0.17 | 8.14 | ppb |
| Calcium | 43-1 | 406582.23 | 534082.53 | 548608.28 | 496424.35 | 15.74 | ppb |
| Calcium | 44-1 | 415010.13 | 531036.38 | 545164.22 | 497070.24 | 14.37 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 8.53 | 8.27 | 8.21 | 8.34 | 2.02 | ppb |
| Cobalt | 59-2 | 2.53 | 2.62 | 2.62 | 2.59 | 1.99 | ppb |
| Copper | 63-2 | 2.59 | 2.73 | 2.71 | 2.68 | 2.90 | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 56-2 | 251621.98 | 246512.49 | 249818.12 | 249317.53 | 1.04 | ppb |
| Iron | 57-2 | 252288.68 | 246539.13 | 248992.36 | 249273.39 | 1.16 | ppb |
| Iron | 54-2 | 251043.61 | 248751.10 | 247906.58 | 249233.77 | 0.65 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:33:50 | DataFile Name : | 013CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1.80 | 2.38 | 2.59 | 2.26 | 18.12 | ppb |
| Lead | 207-1 | 1.92 | 2.56 | 2.63 | 2.37 | 16.59 | ppb |
| Lead | 208-1 | 1.87 | 2.47 | 2.58 | 2.31 | 16.51 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 503880.75 | 494075.35 | 501120.92 | 499692.34 | 1.01 | ppb |
| Manganese | 55-2 | 5.56 | 5.57 | 5.39 | 5.51 | 1.90 | ppb |
| Molybdenum | 94-1 | 1.77 | 2.45 | 2.53 | 2.25 | 18.53 | ppb |
| Molybdenum | 95-1 | 1.01 | 1.48 | 1.61 | 1.37 | 23.07 | ppb |
| Molybdenum | 96-1 | 4.34 | 5.78 | 6.10 | 5.41 | 17.37 | ppb |
| Molybdenum | 97-1 | 1.23 | 1.52 | 1.72 | 1.49 | 16.73 | ppb |
| Molybdenum | 98-1 | 1.05 | 1.34 | 1.50 | 1.30 | 17.49 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.98 | 3.82 | 3.74 | 3.85 | 3.16 | ppb |
| Phosphorus | 31-2 | -17.89 | -18.72 | -15.73 | -17.45 | | ppb |
| Potassium | 39-2 | 250736.50 | 248083.59 | 251275.01 | 250031.70 | 0.68 | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 1.10 | 1.18 | 1.98 | 1.42 | 34.23 | ppb |
| Selenium | 77-2 | 0.50 | 0.51 | 0.78 | 0.60 | 26.47 | ppb |
| Selenium | 78-2 | -2.92 | -2.01 | -1.32 | -2.08 | | ppb |
| Silicon | 28-1 | -33.97 | -27.28 | -10.55 | -23.93 | | ppb |
| Silver | 107-1 | 0.06 | 0.09 | 0.12 | 0.09 | 33.75 | ppb |
| Silver | 109-1 | 0.07 | 0.10 | 0.11 | 0.09 | 21.91 | ppb |
| Sodium | 23-2 | 505343.14 | 492396.65 | 499625.19 | 499121.66 | 1.30 | ppb |
| Strontium | 86-1 | 2.51 | 3.16 | 3.31 | 2.99 | 14.21 | ppb |
| Strontium | 88-1 | 2.57 | 3.33 | 3.39 | 3.10 | 14.74 | ppb |
| Sulfur | 34-1 | -2796.78 | -1826.30 | -1450.84 | -2024.64 | | ppb |
| Terbium | 159-1 | | | | 116 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.11 | 0.13 | 0.14 | 0.13 | 12.97 | ppb |
| Thallium | 205-1 | 0.10 | 0.12 | 0.13 | 0.11 | 14.94 | ppb |
| Tin | 118-1 | 0.12 | 0.17 | 0.18 | 0.16 | 21.39 | ppb |
| Titanium | 47-1 | 0.37 | 0.54 | 0.83 | 0.58 | 39.43 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:33:50 | DataFile Name : | 013CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.04 | 0.05 | 0.06 | 0.05 | 16.73 | ppb |
| Vanadium | 51-2 | 0.31 | 0.31 | 0.27 | 0.30 | 8.65 | ppb |
| Yttrium | 89-1 | | | | 114 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 16.20 | 16.94 | 16.20 | 16.45 | 2.60 | ppb |
| Zirconium | 90-1 | 0.35 | 0.46 | 0.47 | 0.43 | 15.49 | ppb |
| Zirconium | 91-1 | 0.33 | 0.43 | 0.48 | 0.41 | 19.28 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:58:50 | DataFile Name : | 015ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 480.14 | 478.90 | 472.33 | 477.12 | 0.88 | ppb |
| Antimony | 121-1 | 198.10 | 210.39 | 208.66 | 205.71 | 3.23 | ppb |
| Arsenic | 75-2 | 203.56 | 207.64 | 208.29 | 206.50 | 1.24 | ppb |
| Barium | 135-1 | 99.56 | 102.79 | 102.35 | 101.56 | 1.72 | ppb |
| Barium | 137-1 | 101.05 | 104.08 | 104.16 | 103.10 | 1.72 | ppb |
| Beryllium | 9-1 | 109.29 | 101.91 | 101.40 | 104.20 | 4.24 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 96.32 | 95.33 | 89.64 | 93.76 | 3.85 | ppb |
| Cadmium | 106-1 | 91.78 | 96.17 | 96.66 | 94.87 | 2.83 | ppb |
| Cadmium | 111-1 | 102.34 | 109.24 | 109.25 | 106.94 | 3.73 | ppb |
| Calcium | 43-1 | 2243.01 | 2243.21 | 2228.90 | 2238.38 | 0.37 | ppb |
| Calcium | 44-1 | 2206.25 | 2274.36 | 2247.70 | 2242.77 | 1.53 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 102.51 | 101.82 | 102.13 | 102.15 | 0.34 | ppb |
| Cobalt | 59-2 | 101.67 | 101.39 | 101.42 | 101.49 | 0.15 | ppb |
| Copper | 63-2 | 94.09 | 93.50 | 93.48 | 93.69 | 0.37 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | 2051.63 | 2036.96 | 2032.54 | 2040.38 | 0.49 | ppb |
| Iron | 57-2 | 2123.41 | 2104.64 | 2107.60 | 2111.88 | 0.48 | ppb |
| Iron | 54-2 | 2189.97 | 2159.31 | 2177.34 | 2175.54 | 0.71 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:58:50 | DataFile Name : | 015ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 196.27 | 193.06 | 197.45 | 195.59 | 1.16 | ppb |
| Lead | 207-1 | 189.30 | 180.21 | 184.90 | 184.80 | 2.46 | ppb |
| Lead | 208-1 | 193.00 | 185.41 | 189.83 | 189.41 | 2.01 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 1111.89 | 1114.83 | 1110.79 | 1112.50 | 0.19 | ppb |
| Manganese | 55-2 | 91.05 | 90.85 | 90.35 | 90.75 | 0.40 | ppb |
| Molybdenum | 94-1 | 0.05 | 0.06 | 0.04 | 0.05 | 13.98 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.02 | 0.03 | 0.03 | 17.59 | ppb |
| Molybdenum | 96-1 | 0.07 | 0.08 | 0.07 | 0.07 | 6.70 | ppb |
| Molybdenum | 97-1 | 0.02 | 0.03 | 0.04 | 0.03 | 25.93 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.02 | 0.03 | 25.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 102.50 | 102.27 | 102.62 | 102.46 | 0.18 | ppb |
| Phosphorus | 31-2 | -24.47 | -24.27 | -13.69 | -20.81 | | ppb |
| Potassium | 39-2 | 2028.80 | 2017.15 | 2021.04 | 2022.33 | 0.29 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 216.65 | 213.03 | 217.43 | 215.70 | 1.09 | ppb |
| Selenium | 77-2 | 200.71 | 225.81 | 220.81 | 215.78 | 6.16 | ppb |
| Selenium | 78-2 | 213.82 | 227.19 | 224.85 | 221.95 | 3.22 | ppb |
| Silicon | 28-1 | -5.72 | -7.50 | -7.71 | -6.98 | | ppb |
| Silver | 107-1 | 50.06 | 52.80 | 52.60 | 51.82 | 2.95 | ppb |
| Silver | 109-1 | 50.40 | 52.79 | 52.06 | 51.75 | 2.37 | ppb |
| Sodium | 23-2 | 1960.36 | 1958.74 | 1945.57 | 1954.89 | 0.41 | ppb |
| Strontium | 86-1 | 0.23 | 0.31 | 0.30 | 0.28 | 15.90 | ppb |
| Strontium | 88-1 | 0.25 | 0.24 | 0.26 | 0.25 | 4.55 | ppb |
| Sulfur | 34-1 | -1489.26 | -1490.52 | -1549.91 | -1509.89 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 193.67 | 182.35 | 188.49 | 188.17 | 3.01 | ppb |
| Thallium | 205-1 | 195.81 | 191.83 | 198.62 | 195.42 | 1.75 | ppb |
| Tin | 118-1 | 0.01 | 0.02 | 0.03 | 0.02 | 41.62 | ppb |
| Titanium | 47-1 | 0.07 | -0.01 | 0.02 | 0.02 | 161.43 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:58:50 | DataFile Name : | 015ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 228.00 | ppb |
| Vanadium | 51-2 | 99.33 | 98.28 | 99.64 | 99.08 | 0.72 | ppb |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | 183.39 | 179.78 | 182.54 | 181.90 | 1.04 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 19.28 | ppb |
| Zirconium | 91-1 | 0.05 | 0.05 | 0.04 | 0.05 | 14.03 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:17:08 | DataFile Name : | 019LLIC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20.71 | 19.89 | 20.77 | 20.46 | 2.40 | ppb |
| Antimony | 121-1 | 2.07 | 2.06 | 2.18 | 2.10 | 3.10 | ppb |
| Arsenic | 75-2 | 1.32 | 1.15 | 0.93 | 1.13 | 17.05 | ppb |
| Barium | 135-1 | 9.81 | 10.08 | 10.02 | 9.97 | 1.46 | ppb |
| Barium | 137-1 | 9.78 | 10.21 | 9.95 | 9.98 | 2.17 | ppb |
| Beryllium | 9-1 | 1.16 | 1.15 | 1.24 | 1.18 | 3.96 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.79 | 1.24 | 1.34 | 1.12 | 26.35 | ppb |
| Cadmium | 106-1 | -0.29 | 0.28 | -0.55 | -0.19 | | ppb |
| Cadmium | 111-1 | 1.09 | 1.03 | 0.86 | 0.99 | 11.75 | ppb |
| Calcium | 43-1 | 586.34 | 596.45 | 581.88 | 588.22 | 1.27 | ppb |
| Calcium | 44-1 | 587.77 | 599.09 | 607.71 | 598.19 | 1.67 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.16 | 2.14 | 2.09 | 2.13 | 1.61 | ppb |
| Cobalt | 59-2 | 1.09 | 1.03 | 1.07 | 1.06 | 3.11 | ppb |
| Copper | 63-2 | 1.89 | 1.87 | 2.04 | 1.93 | 4.81 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 57.35 | 55.66 | 57.11 | 56.71 | 1.61 | ppb |
| Iron | 57-2 | 59.69 | 58.12 | 58.01 | 58.61 | 1.61 | ppb |
| Iron | 54-2 | 57.71 | 55.74 | 59.04 | 57.50 | 2.89 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:17:08 | DataFile Name : | 019LLIC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.94 | 0.96 | 0.97 | 0.96 | 1.61 | ppb |
| Lead | 207-1 | 0.96 | 1.00 | 1.04 | 1.00 | 3.95 | ppb |
| Lead | 208-1 | 0.94 | 0.99 | 1.01 | 0.98 | 3.36 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 517.92 | 509.49 | 507.30 | 511.57 | 1.10 | ppb |
| Manganese | 55-2 | 1.00 | 1.01 | 0.96 | 0.99 | 2.83 | ppb |
| Molybdenum | 94-1 | 5.95 | 5.98 | 5.91 | 5.94 | 0.59 | ppb |
| Molybdenum | 95-1 | 5.21 | 5.05 | 5.06 | 5.11 | 1.72 | ppb |
| Molybdenum | 96-1 | 5.24 | 5.30 | 5.30 | 5.28 | 0.67 | ppb |
| Molybdenum | 97-1 | 5.05 | 5.22 | 5.08 | 5.12 | 1.79 | ppb |
| Molybdenum | 98-1 | 5.16 | 5.08 | 5.20 | 5.15 | 1.28 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.02 | 1.06 | 1.03 | 1.03 | 2.01 | ppb |
| Phosphorus | 31-2 | 10.79 | 20.78 | 13.39 | 14.98 | 34.59 | ppb |
| Potassium | 39-2 | 520.99 | 521.57 | 515.05 | 519.20 | 0.70 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 5.27 | 5.23 | 5.59 | 5.36 | 3.69 | ppb |
| Selenium | 77-2 | 5.78 | 5.16 | 2.59 | 4.51 | 37.47 | ppb |
| Selenium | 78-2 | 3.58 | 5.06 | 4.23 | 4.29 | 17.30 | ppb |
| Silicon | 28-1 | -10.11 | -6.29 | -6.95 | -7.78 | | ppb |
| Silver | 107-1 | 1.04 | 1.04 | 1.01 | 1.03 | 1.57 | ppb |
| Silver | 109-1 | 1.03 | 1.09 | 1.03 | 1.05 | 3.28 | ppb |
| Sodium | 23-2 | 519.94 | 514.82 | 513.52 | 516.09 | 0.66 | ppb |
| Strontium | 86-1 | 0.99 | 1.01 | 1.11 | 1.04 | 6.41 | ppb |
| Strontium | 88-1 | 1.06 | 1.04 | 1.04 | 1.05 | 1.27 | ppb |
| Sulfur | 34-1 | -1493.54 | -1414.88 | -1400.71 | -1436.38 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 1.00 | 0.96 | 1.02 | 0.99 | 3.11 | ppb |
| Thallium | 205-1 | 0.94 | 0.94 | 1.01 | 0.97 | 3.81 | ppb |
| Tin | 118-1 | 5.18 | 5.28 | 5.33 | 5.26 | 1.44 | ppb |
| Titanium | 47-1 | 5.15 | 5.04 | 5.15 | 5.11 | 1.29 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:17:08 | DataFile Name : | 019LLIC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.94 | 0.96 | 0.95 | 0.95 | 1.20 | ppb |
| Vanadium | 51-2 | 5.18 | 5.13 | 4.96 | 5.09 | 2.25 | ppb |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 4.88 | 5.13 | 4.80 | 4.94 | 3.45 | ppb |
| Zirconium | 90-1 | 1.01 | 1.04 | 1.03 | 1.02 | 1.45 | ppb |
| Zirconium | 91-1 | 1.03 | 0.98 | 0.97 | 0.99 | 3.49 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:20:36 | DataFile Name : | 020_ICB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.66 | 0.01 | 0.51 | 0.39 | 85.82 | ppb |
| Antimony | 121-1 | 0.01 | 0.00 | 0.00 | 0.01 | 69.78 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Barium | 135-1 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Barium | 137-1 | 0.01 | 0.01 | 0.01 | 0.01 | 19.42 | ppb |
| Beryllium | 9-1 | -0.02 | 0.01 | 0.02 | 0.00 | 493.01 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.14 | -0.01 | -0.14 | -0.10 | | ppb |
| Cadmium | 106-1 | 0.16 | -1.19 | -0.59 | -0.54 | | ppb |
| Cadmium | 111-1 | 0.01 | -0.08 | -0.03 | -0.03 | | ppb |
| Calcium | 43-1 | -3.87 | -1.93 | -5.83 | -3.88 | | ppb |
| Calcium | 44-1 | 0.44 | -0.09 | -0.15 | 0.07 | 475.84 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | 0.06 | 0.00 | 0.03 | 125.90 | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.02 | 0.01 | -0.03 | 0.00 | 5333.66 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 0.97 | 0.69 | 0.28 | 0.65 | 53.43 | ppb |
| Iron | 57-2 | 0.39 | 0.30 | -0.80 | -0.04 | | ppb |
| Iron | 54-2 | -0.44 | 2.93 | 1.23 | 1.24 | 135.99 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:20:36 | DataFile Name : | 020_ICB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.03 | 0.00 | -0.01 | 0.01 | 219.78 | ppb |
| Lead | 207-1 | 0.03 | 0.05 | 0.00 | 0.03 | 90.48 | ppb |
| Lead | 208-1 | 0.02 | 0.02 | 0.00 | 0.01 | 65.75 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 0.20 | 0.18 | -0.08 | 0.10 | 155.99 | ppb |
| Manganese | 55-2 | 0.02 | 0.05 | -0.04 | 0.01 | 393.31 | ppb |
| Molybdenum | 94-1 | -0.01 | -0.01 | 0.01 | 0.00 | | ppb |
| Molybdenum | 95-1 | 0.01 | 0.00 | 0.01 | 0.01 | 70.12 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.01 | 0.00 | 137.54 | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.02 | 0.00 | 239.64 | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | 64.80 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.02 | -0.07 | 0.00 | -0.02 | | ppb |
| Phosphorus | 31-2 | -23.54 | -25.03 | -17.94 | -22.17 | | ppb |
| Potassium | 39-2 | -7.33 | -8.21 | -9.63 | -8.39 | | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.03 | 0.92 | -0.17 | 0.26 | 222.97 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.50 | -1.21 | 0.65 | -0.02 | | ppb |
| Silicon | 28-1 | -8.14 | -7.29 | -9.40 | -8.28 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 159.74 | ppb |
| Sodium | 23-2 | 5.33 | 3.41 | 5.41 | 4.72 | 23.96 | ppb |
| Strontium | 86-1 | -0.02 | -0.01 | -0.05 | -0.02 | | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Sulfur | 34-1 | -1579.36 | -1458.96 | -1560.74 | -1533.02 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.50 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 21.33 | ppb |
| Tin | 118-1 | 0.00 | 0.02 | 0.02 | 0.01 | 84.18 | ppb |
| Titanium | 47-1 | -0.02 | -0.03 | -0.02 | -0.02 | | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:20:36 | DataFile Name : | 020_ICB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 0.03 | -0.04 | 0.02 | 0.00 | | ppb |
| Zirconium | 90-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Zirconium | 91-1 | -0.02 | 0.01 | 0.01 | 0.00 | 1147.87 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:24:44 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 96271.90 | 98123.89 | 96567.77 | 96987.86 | 1.03 | ppb |
| Antimony | 121-1 | 1.34 | 1.33 | 1.30 | 1.32 | 1.37 | ppb |
| Arsenic | 75-2 | 0.45 | 0.35 | 0.22 | 0.34 | 34.65 | ppb |
| Barium | 135-1 | 1.53 | 1.61 | 1.65 | 1.60 | 3.79 | ppb |
| Barium | 137-1 | 1.60 | 1.51 | 1.59 | 1.56 | 3.23 | ppb |
| Beryllium | 9-1 | 0.26 | 0.34 | 0.29 | 0.30 | 13.06 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 7.14 | 7.00 | 6.73 | 6.96 | 2.96 | ppb |
| Cadmium | 106-1 | -1.35 | -1.19 | -1.58 | -1.37 | | ppb |
| Cadmium | 111-1 | 0.14 | 0.22 | 0.21 | 0.19 | 23.05 | ppb |
| Calcium | 43-1 | 113327.73 | 111726.44 | 116395.00 | 113816.39 | 2.08 | ppb |
| Calcium | 44-1 | 111184.43 | 115151.77 | 115811.94 | 114049.38 | 2.19 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 21.22 | 21.23 | 21.11 | 21.19 | 0.30 | ppb |
| Cobalt | 59-2 | 1.32 | 1.29 | 1.26 | 1.29 | 2.11 | ppb |
| Copper | 63-2 | 9.92 | 9.81 | 9.73 | 9.82 | 0.96 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 109 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 109037.71 | 107988.02 | 108149.79 | 108391.84 | 0.52 | ppb |
| Iron | 57-2 | 107140.37 | 106024.81 | 105083.05 | 106082.74 | 0.97 | ppb |
| Iron | 54-2 | 107918.47 | 109345.52 | 107133.85 | 108132.61 | 1.04 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:24:44 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 5.22 | 5.19 | 5.14 | 5.19 | 0.79 | ppb |
| Lead | 207-1 | 4.52 | 4.36 | 4.38 | 4.42 | 1.96 | ppb |
| Lead | 208-1 | 4.79 | 4.75 | 4.61 | 4.72 | 2.02 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 99104.03 | 100069.86 | 98849.17 | 99341.02 | 0.65 | ppb |
| Manganese | 55-2 | 7.37 | 7.53 | 7.56 | 7.49 | 1.33 | ppb |
| Molybdenum | 94-1 | 1649.19 | 1740.63 | 1656.35 | 1682.06 | 3.02 | ppb |
| Molybdenum | 95-1 | 2027.00 | 2086.31 | 2025.87 | 2046.40 | 1.69 | ppb |
| Molybdenum | 96-1 | 2033.78 | 2035.99 | 1986.76 | 2018.84 | 1.38 | ppb |
| Molybdenum | 97-1 | 2063.65 | 2081.68 | 2013.15 | 2052.83 | 1.73 | ppb |
| Molybdenum | 98-1 | 2022.00 | 2105.20 | 2032.57 | 2053.25 | 2.21 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 6.41 | 6.07 | 6.25 | 6.24 | 2.73 | ppb |
| Phosphorus | 31-2 | 104202.10 | 105064.96 | 104575.53 | 104614.20 | 0.41 | ppb |
| Potassium | 39-2 | 104222.79 | 103420.40 | 102595.02 | 103412.74 | 0.79 | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | -0.08 | -0.22 | -0.12 | -0.14 | | ppb |
| Selenium | 77-2 | 0.26 | 0.77 | 0.00 | 0.34 | 114.22 | ppb |
| Selenium | 78-2 | 0.34 | -3.08 | -2.24 | -1.66 | | ppb |
| Silicon | 28-1 | -9.48 | -26.89 | -25.67 | -20.68 | | ppb |
| Silver | 107-1 | 0.01 | 0.02 | 0.03 | 0.02 | 36.74 | ppb |
| Silver | 109-1 | 0.01 | 0.02 | 0.04 | 0.02 | 49.72 | ppb |
| Sodium | 23-2 | 106507.67 | 107696.17 | 105438.77 | 106547.54 | 1.06 | ppb |
| Strontium | 86-1 | 35.76 | 36.51 | 35.35 | 35.87 | 1.64 | ppb |
| Strontium | 88-1 | 35.80 | 37.23 | 35.92 | 36.32 | 2.19 | ppb |
| Sulfur | 34-1 | 106249.07 | 104456.63 | 108512.66 | 106406.12 | 1.91 | ppb |
| Terbium | 159-1 | | | | 110 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.07 | 0.07 | 0.10 | 0.08 | 23.01 | ppb |
| Thallium | 205-1 | 0.05 | 0.07 | 0.08 | 0.06 | 22.99 | ppb |
| Tin | 118-1 | 0.49 | 0.62 | 0.66 | 0.59 | 14.92 | ppb |
| Titanium | 47-1 | 2038.45 | 2091.59 | 2105.61 | 2078.55 | 1.70 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:24:44 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.02 | 0.03 | 0.02 | 0.02 | 23.45 | ppb |
| Vanadium | 51-2 | 0.20 | 0.21 | 0.20 | 0.20 | 4.35 | ppb |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 13.58 | 14.10 | 13.55 | 13.74 | 2.22 | ppb |
| Zirconium | 90-1 | 0.03 | 0.04 | 0.04 | 0.03 | 9.67 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.04 | 0.03 | 36.74 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:27:51 | DataFile Name : | 022ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 91384.39 | 89185.21 | 90334.80 | 90301.47 | 1.22 | ppb |
| Antimony | 121-1 | 20.69 | 20.90 | 20.87 | 20.82 | 0.57 | ppb |
| Arsenic | 75-2 | 20.42 | 20.24 | 20.56 | 20.41 | 0.79 | ppb |
| Barium | 135-1 | 21.23 | 20.29 | 20.57 | 20.70 | 2.32 | ppb |
| Barium | 137-1 | 21.24 | 20.91 | 21.12 | 21.09 | 0.81 | ppb |
| Beryllium | 9-1 | 21.43 | 21.25 | 21.07 | 21.25 | 0.86 | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 27.22 | 26.38 | 25.61 | 26.40 | 3.05 | ppb |
| Cadmium | 106-1 | 22.19 | 20.81 | 20.88 | 21.29 | 3.64 | ppb |
| Cadmium | 111-1 | 19.24 | 19.74 | 19.69 | 19.56 | 1.41 | ppb |
| Calcium | 43-1 | 106576.65 | 106991.38 | 106544.02 | 106704.02 | 0.23 | ppb |
| Calcium | 44-1 | 105726.93 | 107974.01 | 107874.76 | 107191.90 | 1.18 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 40.39 | 40.50 | 40.50 | 40.46 | 0.16 | ppb |
| Cobalt | 59-2 | 21.35 | 21.04 | 21.01 | 21.13 | 0.88 | ppb |
| Copper | 63-2 | 28.18 | 27.79 | 27.62 | 27.86 | 1.03 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 111 | | % |
| Holmium | 165-2 | | | | 113 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 101611.59 | 100197.72 | 100427.36 | 100745.55 | 0.75 | ppb |
| Iron | 57-2 | 100235.44 | 99305.49 | 98853.70 | 99464.88 | 0.71 | ppb |
| Iron | 54-2 | 102124.59 | 101851.31 | 101538.47 | 101838.12 | 0.29 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:27:51 | DataFile Name : | 022ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 24.98 | 24.36 | 24.96 | 24.77 | 1.42 | ppb |
| Lead | 207-1 | 23.29 | 23.50 | 23.40 | 23.40 | 0.45 | ppb |
| Lead | 208-1 | 24.04 | 23.79 | 23.93 | 23.92 | 0.54 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 92799.27 | 92259.72 | 91447.10 | 92168.70 | 0.74 | ppb |
| Manganese | 55-2 | 25.93 | 25.73 | 25.46 | 25.71 | 0.92 | ppb |
| Molybdenum | 94-1 | 1667.23 | 1742.25 | 1717.50 | 1708.99 | 2.24 | ppb |
| Molybdenum | 95-1 | 1937.30 | 1975.66 | 1962.67 | 1958.54 | 1.00 | ppb |
| Molybdenum | 96-1 | 1893.80 | 1975.24 | 1966.42 | 1945.15 | 2.30 | ppb |
| Molybdenum | 97-1 | 1937.93 | 2004.51 | 1975.58 | 1972.67 | 1.69 | ppb |
| Molybdenum | 98-1 | 1949.69 | 2005.91 | 1985.78 | 1980.46 | 1.44 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 26.36 | 25.70 | 25.12 | 25.73 | 2.40 | ppb |
| Phosphorus | 31-2 | 98451.16 | 97875.65 | 97265.97 | 97864.26 | 0.61 | ppb |
| Potassium | 39-2 | 98270.26 | 97063.60 | 96361.89 | 97231.92 | 0.99 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 18.90 | 21.09 | 19.58 | 19.86 | 5.63 | ppb |
| Selenium | 77-2 | 19.78 | 20.17 | 17.99 | 19.31 | 6.02 | ppb |
| Selenium | 78-2 | 18.48 | 20.09 | 19.82 | 19.46 | 4.41 | ppb |
| Silicon | 28-1 | -7.23 | -5.30 | -5.90 | -6.14 | | ppb |
| Silver | 107-1 | 19.16 | 19.32 | 19.20 | 19.22 | 0.44 | ppb |
| Silver | 109-1 | 19.11 | 19.20 | 18.86 | 19.06 | 0.92 | ppb |
| Sodium | 23-2 | 100961.99 | 99727.07 | 100175.22 | 100288.09 | 0.62 | ppb |
| Strontium | 86-1 | 80.68 | 82.19 | 82.35 | 81.74 | 1.13 | ppb |
| Strontium | 88-1 | 80.91 | 83.21 | 83.95 | 82.69 | 1.92 | ppb |
| Sulfur | 34-1 | 100524.27 | 100805.42 | 104359.23 | 101896.31 | 2.10 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 114 | | % |
| Thallium | 203-1 | 19.63 | 19.87 | 19.92 | 19.81 | 0.79 | ppb |
| Thallium | 205-1 | 19.52 | 19.57 | 19.43 | 19.51 | 0.37 | ppb |
| Tin | 118-1 | 47.45 | 47.68 | 47.69 | 47.61 | 0.28 | ppb |
| Titanium | 47-1 | 1971.11 | 1987.69 | 1992.12 | 1983.64 | 0.56 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:27:51 | DataFile Name : | 022ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 47.42 | 47.22 | 48.09 | 47.58 | 0.95 | ppb |
| Vanadium | 51-2 | 20.31 | 20.12 | 20.02 | 20.15 | 0.71 | ppb |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 31.02 | 31.23 | 30.45 | 30.90 | 1.30 | ppb |
| Zirconium | 90-1 | 48.43 | 49.29 | 49.67 | 49.13 | 1.30 | ppb |
| Zirconium | 91-1 | 48.50 | 50.29 | 50.10 | 49.63 | 1.98 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:30:55 | DataFile Name : | 023CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49834.44 | 48933.01 | 49137.49 | 49301.64 | 0.96 | ppb |
| Antimony | 121-1 | 477.67 | 485.11 | 486.12 | 482.97 | 0.96 | ppb |
| Arsenic | 75-2 | 498.37 | 499.33 | 494.07 | 497.26 | 0.56 | ppb |
| Barium | 135-1 | 2386.52 | 2440.03 | 2423.75 | 2416.77 | 1.13 | ppb |
| Barium | 137-1 | 2462.90 | 2512.95 | 2483.08 | 2486.31 | 1.01 | ppb |
| Beryllium | 9-1 | 501.22 | 509.13 | 520.72 | 510.36 | 1.92 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 460.91 | 466.20 | 470.41 | 465.84 | 1.02 | ppb |
| Cadmium | 106-1 | 463.21 | 463.20 | 471.70 | 466.03 | 1.05 | ppb |
| Cadmium | 111-1 | 458.94 | 470.92 | 470.64 | 466.83 | 1.46 | ppb |
| Calcium | 43-1 | 263376.77 | 278568.61 | 272338.25 | 271427.88 | 2.81 | ppb |
| Calcium | 44-1 | 268346.06 | 273368.87 | 275441.69 | 272385.54 | 1.34 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 500.63 | 496.88 | 495.62 | 497.71 | 0.52 | ppb |
| Cobalt | 59-2 | 491.94 | 482.82 | 471.75 | 482.17 | 2.10 | ppb |
| Copper | 63-2 | 4869.39 | 4782.52 | 4720.45 | 4790.79 | 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 | | | | 112 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 127075.19 | 125081.51 | 123082.95 | 125079.88 | 1.60 | ppb |
| Iron | 57-2 | 127935.31 | 123638.15 | 122516.80 | 124696.75 | 2.29 | ppb |
| Iron | 54-2 | 126734.53 | 123546.28 | 123720.38 | 124667.06 | 1.44 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:30:55 | DataFile Name : | 023CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2503.65 | 2521.97 | 2545.62 | 2523.75 | 0.83 | ppb |
| Lead | 207-1 | 2465.10 | 2536.26 | 2535.02 | 2512.13 | 1.62 | ppb |
| Lead | 208-1 | 2489.44 | 2514.37 | 2543.82 | 2515.88 | 1.08 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 246483.77 | 239377.90 | 240042.13 | 241967.93 | 1.62 | ppb |
| Manganese | 55-2 | 4929.89 | 4831.28 | 4822.72 | 4861.30 | 1.23 | ppb |
| Molybdenum | 94-1 | 4859.24 | 4948.99 | 4955.32 | 4921.18 | 1.09 | ppb |
| Molybdenum | 95-1 | 4898.41 | 4887.95 | 4994.01 | 4926.79 | 1.19 | ppb |
| Molybdenum | 96-1 | 4889.80 | 4945.69 | 4933.77 | 4923.08 | 0.60 | ppb |
| Molybdenum | 97-1 | 4775.50 | 4886.98 | 4956.84 | 4873.11 | 1.88 | ppb |
| Molybdenum | 98-1 | 4794.72 | 4907.07 | 4987.64 | 4896.48 | 1.98 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 483.37 | 476.53 | 478.97 | 479.62 | 0.72 | ppb |
| Phosphorus | 31-2 | 9996.50 | 9938.43 | 9922.11 | 9952.35 | 0.39 | ppb |
| Potassium | 39-2 | 125017.33 | 122524.12 | 123379.87 | 123640.44 | 1.02 | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 469.92 | 473.29 | 482.22 | 475.14 | 1.34 | ppb |
| Selenium | 77-2 | 508.29 | 488.47 | 478.85 | 491.87 | 3.05 | ppb |
| Selenium | 78-2 | 484.07 | 496.58 | 482.22 | 487.63 | 1.60 | ppb |
| Silicon | 28-1 | 446.02 | 460.07 | 451.74 | 452.61 | 1.56 | ppb |
| Silver | 107-1 | 474.48 | 473.46 | 486.66 | 478.20 | 1.54 | ppb |
| Silver | 109-1 | 473.06 | 486.03 | 479.02 | 479.37 | 1.35 | ppb |
| Sodium | 23-2 | 250165.32 | 241449.96 | 245406.63 | 245673.97 | 1.78 | ppb |
| Strontium | 86-1 | 479.86 | 486.00 | 489.83 | 485.23 | 1.04 | ppb |
| Strontium | 88-1 | 482.36 | 492.52 | 490.97 | 488.62 | 1.12 | ppb |
| Sulfur | 34-1 | 7945.55 | 8428.76 | 7976.61 | 8116.97 | 3.33 | ppb |
| Terbium | 159-1 | | | | 113 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 511.42 | 508.11 | 515.62 | 511.72 | 0.74 | ppb |
| Thallium | 205-1 | 499.31 | 501.95 | 509.58 | 503.61 | 1.06 | ppb |
| Tin | 118-1 | 481.97 | 479.94 | 492.61 | 484.84 | 1.40 | ppb |
| Titanium | 47-1 | 4919.34 | 4955.29 | 4930.71 | 4935.11 | 0.37 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:30:55 | DataFile Name : | 023CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 499.27 | 509.56 | 518.93 | 509.25 | 1.93 | ppb |
| Vanadium | 51-2 | 508.20 | 496.72 | 495.90 | 500.27 | 1.37 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | 5421.49 | 5298.89 | 5317.14 | 5345.84 | 1.24 | ppb |
| Zirconium | 90-1 | 487.71 | 488.09 | 504.37 | 493.39 | 1.93 | ppb |
| Zirconium | 91-1 | 487.06 | 494.64 | 496.97 | 492.89 | 1.05 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:33:49 | DataFile Name : | 024CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.49 | 0.00 | -0.16 | -0.22 | | ppb |
| Antimony | 121-1 | 0.07 | 0.09 | 0.09 | 0.08 | 10.54 | ppb |
| Arsenic | 75-2 | -0.01 | 0.01 | -0.01 | 0.00 | | ppb |
| Barium | 135-1 | 0.02 | 0.00 | 0.01 | 0.01 | 61.56 | ppb |
| Barium | 137-1 | 0.04 | 0.03 | 0.01 | 0.03 | 57.36 | ppb |
| Beryllium | 9-1 | 0.06 | 0.03 | 0.03 | 0.04 | 43.26 | ppb |
| Bismuth | 209-1 | | | | 110 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.08 | -0.05 | -0.08 | -0.07 | | ppb |
| Cadmium | 106-1 | -0.30 | -0.54 | -1.20 | -0.68 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.01 | -0.06 | -0.02 | | ppb |
| Calcium | 43-1 | -0.07 | -4.58 | -9.39 | -4.68 | | ppb |
| Calcium | 44-1 | 6.97 | 3.57 | 4.00 | 4.85 | 38.12 | 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 | 81.83 | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Copper | 63-2 | 0.64 | 0.58 | 0.61 | 0.61 | 5.19 | 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 | | | | 110 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 1.71 | 1.78 | 1.61 | 1.70 | 5.13 | ppb |
| Iron | 57-2 | -0.71 | -2.92 | 1.74 | -0.63 | | ppb |
| Iron | 54-2 | 1.52 | 1.97 | 0.84 | 1.45 | 39.32 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:33:49 | DataFile Name : | 024CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.09 | 0.07 | 0.08 | 0.08 | 8.84 | ppb |
| Lead | 207-1 | 0.13 | 0.12 | 0.08 | 0.11 | 22.42 | ppb |
| Lead | 208-1 | 0.11 | 0.08 | 0.08 | 0.09 | 18.31 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 3.25 | 3.21 | 3.26 | 3.24 | 0.74 | ppb |
| Manganese | 55-2 | 0.14 | 0.16 | 0.13 | 0.14 | 13.26 | ppb |
| Molybdenum | 94-1 | 0.19 | 0.15 | 0.14 | 0.16 | 14.84 | ppb |
| Molybdenum | 95-1 | 0.17 | 0.08 | 0.11 | 0.12 | 36.19 | ppb |
| Molybdenum | 96-1 | 0.18 | 0.09 | 0.09 | 0.12 | 41.56 | ppb |
| Molybdenum | 97-1 | 0.16 | 0.10 | 0.10 | 0.12 | 29.20 | ppb |
| Molybdenum | 98-1 | 0.17 | 0.09 | 0.09 | 0.12 | 40.21 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.04 | 0.00 | -0.04 | -0.03 | | ppb |
| Phosphorus | 31-2 | -26.67 | -20.78 | -30.74 | -26.06 | | ppb |
| Potassium | 39-2 | 2.74 | -1.87 | -2.99 | -0.71 | | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.37 | -0.18 | 1.38 | 0.52 | 151.42 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.25 | 0.08 | 173.21 | ppb |
| Selenium | 78-2 | -1.48 | -1.15 | -1.23 | -1.29 | | ppb |
| Silicon | 28-1 | -28.04 | -27.43 | -28.45 | -27.98 | | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 14.47 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.02 | 0.02 | 38.04 | ppb |
| Sodium | 23-2 | 18.74 | 18.59 | 18.28 | 18.54 | 1.28 | ppb |
| Strontium | 86-1 | 0.02 | -0.04 | 0.03 | 0.00 | 1125.76 | ppb |
| Strontium | 88-1 | 0.01 | 0.00 | 0.00 | 0.00 | 117.36 | ppb |
| Sulfur | 34-1 | -2346.72 | -2137.42 | -2316.74 | -2266.96 | | ppb |
| Terbium | 159-1 | | | | 111 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.10 | 0.11 | 0.10 | 0.11 | 5.45 | ppb |
| Thallium | 205-1 | 0.11 | 0.10 | 0.09 | 0.10 | 8.68 | ppb |
| Tin | 118-1 | 0.07 | 0.07 | 0.04 | 0.06 | 25.53 | ppb |
| Titanium | 47-1 | 0.12 | 0.01 | 0.00 | 0.04 | 162.99 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:33:49 | DataFile Name : | 024CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.01 | 0.00 | 0.00 | 0.01 | 84.59 | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.01 | 0.00 | 52.24 | ppb |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 0.15 | 0.25 | -0.01 | 0.13 | 98.88 | ppb |
| Zirconium | 90-1 | 0.05 | 0.04 | 0.05 | 0.05 | 7.81 | ppb |
| Zirconium | 91-1 | 0.06 | 0.04 | 0.03 | 0.04 | 29.21 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:37:07 | DataFile Name : | 025LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 18.36 | 17.92 | 19.29 | 18.52 | 3.76 | ppb |
| Antimony | 121-1 | 1.97 | 2.02 | 2.04 | 2.01 | 1.71 | ppb |
| Arsenic | 75-2 | 1.20 | 1.19 | 0.90 | 1.10 | 15.71 | ppb |
| Barium | 135-1 | 9.47 | 9.34 | 9.58 | 9.47 | 1.26 | ppb |
| Barium | 137-1 | 9.58 | 9.74 | 9.94 | 9.75 | 1.88 | ppb |
| Beryllium | 9-1 | 1.04 | 1.07 | 1.00 | 1.04 | 3.38 | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.75 | 0.82 | 1.08 | 0.88 | 19.84 | ppb |
| Cadmium | 106-1 | 0.89 | 1.45 | -1.24 | 0.37 | 384.47 | ppb |
| Cadmium | 111-1 | 0.95 | 0.95 | 0.89 | 0.93 | 3.80 | ppb |
| Calcium | 43-1 | 545.39 | 576.98 | 572.63 | 565.00 | 3.03 | ppb |
| Calcium | 44-1 | 554.01 | 561.81 | 567.36 | 561.06 | 1.20 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.95 | 2.02 | 2.10 | 2.02 | 3.56 | ppb |
| Cobalt | 59-2 | 1.01 | 1.01 | 1.06 | 1.03 | 2.51 | ppb |
| Copper | 63-2 | 2.37 | 2.35 | 2.47 | 2.40 | 2.72 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 55.47 | 53.73 | 54.06 | 54.42 | 1.70 | ppb |
| Iron | 57-2 | 53.99 | 53.91 | 54.44 | 54.11 | 0.52 | ppb |
| Iron | 54-2 | 54.42 | 56.01 | 56.30 | 55.58 | 1.83 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:37:07 | DataFile Name : | 025LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1.02 | 1.01 | 1.00 | 1.01 | 1.09 | ppb |
| Lead | 207-1 | 1.02 | 0.93 | 0.99 | 0.98 | 4.74 | ppb |
| Lead | 208-1 | 0.99 | 0.96 | 1.00 | 0.98 | 2.23 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 480.74 | 488.92 | 486.76 | 485.48 | 0.87 | ppb |
| Manganese | 55-2 | 1.08 | 0.99 | 0.97 | 1.01 | 5.81 | ppb |
| Molybdenum | 94-1 | 5.79 | 5.86 | 6.05 | 5.90 | 2.35 | ppb |
| Molybdenum | 95-1 | 4.68 | 4.82 | 5.00 | 4.84 | 3.31 | ppb |
| Molybdenum | 96-1 | 4.84 | 5.02 | 5.03 | 4.96 | 2.19 | ppb |
| Molybdenum | 97-1 | 4.65 | 4.95 | 4.99 | 4.86 | 3.88 | ppb |
| Molybdenum | 98-1 | 4.93 | 4.93 | 4.82 | 4.89 | 1.31 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.03 | 1.00 | 0.96 | 1.00 | 3.18 | ppb |
| Phosphorus | 31-2 | -3.81 | -0.28 | -2.28 | -2.12 | | ppb |
| Potassium | 39-2 | 483.11 | 489.02 | 492.01 | 488.05 | 0.93 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 5.25 | 5.42 | 4.64 | 5.10 | 7.99 | ppb |
| Selenium | 77-2 | 4.31 | 7.40 | 4.61 | 5.44 | 31.33 | ppb |
| Selenium | 78-2 | 6.10 | 3.42 | 3.19 | 4.24 | 38.22 | ppb |
| Silicon | 28-1 | -28.56 | -28.87 | -27.86 | -28.43 | | ppb |
| Silver | 107-1 | 0.99 | 1.00 | 0.92 | 0.97 | 4.57 | ppb |
| Silver | 109-1 | 1.02 | 0.97 | 0.97 | 0.98 | 2.79 | ppb |
| Sodium | 23-2 | 487.69 | 505.08 | 502.40 | 498.39 | 1.88 | ppb |
| Strontium | 86-1 | 0.94 | 1.01 | 0.93 | 0.96 | 4.26 | ppb |
| Strontium | 88-1 | 1.01 | 1.03 | 1.01 | 1.02 | 0.89 | ppb |
| Sulfur | 34-1 | -2052.72 | -2086.09 | -1875.95 | -2004.92 | | ppb |
| Terbium | 159-1 | | | | 111 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 1.00 | 1.00 | 1.00 | 1.00 | 0.38 | ppb |
| Thallium | 205-1 | 0.98 | 0.97 | 1.00 | 0.98 | 1.78 | ppb |
| Tin | 118-1 | 5.00 | 5.07 | 4.94 | 5.00 | 1.31 | ppb |
| Titanium | 47-1 | 4.78 | 4.87 | 4.91 | 4.85 | 1.32 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:37:07 | DataFile Name : | 025LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.90 | 0.90 | 0.89 | 0.78 | ppb |
| Vanadium | 51-2 | 4.94 | 4.89 | 4.86 | 4.89 | 0.84 | ppb |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | 4.62 | 4.59 | 5.19 | 4.80 | 7.04 | ppb |
| Zirconium | 90-1 | 0.96 | 1.00 | 0.98 | 0.98 | 2.07 | ppb |
| Zirconium | 91-1 | 1.01 | 0.93 | 0.91 | 0.95 | 5.42 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:40:29 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -1.29 | -1.32 | -1.39 | -1.33 | | ppb |
| Antimony | 121-1 | 0.00 | 0.01 | 0.01 | 0.01 | 59.57 | ppb |
| Arsenic | 75-2 | 0.02 | -0.01 | 0.00 | 0.00 | 391.29 | ppb |
| Barium | 135-1 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Barium | 137-1 | 0.01 | 0.00 | 0.00 | 0.01 | 86.52 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.04 | 0.03 | 42.11 | ppb |
| Bismuth | 209-1 | | | | 110 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.08 | -0.05 | -0.08 | -0.07 | | ppb |
| Cadmium | 106-1 | -0.59 | 0.32 | -0.30 | -0.19 | | ppb |
| Cadmium | 111-1 | -0.03 | 0.02 | -0.02 | -0.01 | | ppb |
| Calcium | 43-1 | -2.34 | 7.11 | 1.35 | 2.04 | 233.58 | ppb |
| Calcium | 44-1 | 1.16 | 5.34 | 2.47 | 2.99 | 71.49 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.07 | -0.09 | -0.08 | -0.08 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.31 | 0.26 | 0.30 | 0.29 | 9.11 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 0.07 | -0.21 | 0.04 | -0.03 | | ppb |
| Iron | 57-2 | -6.95 | -1.99 | -2.72 | -3.89 | | ppb |
| Iron | 54-2 | 1.21 | -0.07 | 1.08 | 0.74 | 94.76 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:40:29 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.01 | 0.01 | -0.01 | 0.00 | | ppb |
| Lead | 207-1 | 0.00 | 0.03 | 0.04 | 0.03 | 75.42 | ppb |
| Lead | 208-1 | 0.00 | 0.01 | 0.02 | 0.01 | 91.19 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 0.62 | 0.78 | 0.90 | 0.77 | 18.14 | ppb |
| Manganese | 55-2 | -0.52 | -0.48 | -0.49 | -0.50 | | ppb |
| Molybdenum | 94-1 | 0.01 | 0.01 | 0.01 | 0.01 | 24.34 | ppb |
| Molybdenum | 95-1 | 0.01 | 0.01 | 0.02 | 0.02 | 30.29 | ppb |
| Molybdenum | 96-1 | 0.02 | 0.01 | 0.00 | 0.01 | 78.09 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.01 | 0.01 | 0.02 | 73.96 | ppb |
| Molybdenum | 98-1 | 0.01 | 0.01 | 0.02 | 0.01 | 22.73 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.05 | -0.07 | -0.09 | -0.07 | | ppb |
| Phosphorus | 31-2 | -31.97 | -17.47 | -21.63 | -23.69 | | ppb |
| Potassium | 39-2 | -14.62 | -10.96 | -11.95 | -12.51 | | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.22 | -0.10 | 0.06 | 0.06 | 266.79 | ppb |
| Selenium | 77-2 | 0.26 | 0.00 | 0.00 | 0.09 | 173.21 | ppb |
| Selenium | 78-2 | 3.06 | -1.02 | -0.34 | 0.56 | 386.50 | ppb |
| Silicon | 28-1 | -30.25 | -28.79 | -29.21 | -29.42 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.01 | 0.01 | 34.84 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.01 | 0.00 | 44.05 | ppb |
| Sodium | 23-2 | 10.50 | 10.87 | 10.52 | 10.63 | 1.97 | ppb |
| Strontium | 86-1 | -0.07 | -0.05 | 0.00 | -0.04 | | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | 99.69 | ppb |
| Sulfur | 34-1 | -2179.89 | -1941.63 | -1898.82 | -2006.78 | | ppb |
| Terbium | 159-1 | | | | 110 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.07 | 0.08 | 0.06 | 0.07 | 10.00 | ppb |
| Thallium | 205-1 | 0.07 | 0.07 | 0.07 | 0.07 | 4.58 | ppb |
| Tin | 118-1 | 0.01 | 0.00 | -0.01 | 0.00 | 1153.65 | ppb |
| Titanium | 47-1 | 0.03 | 0.01 | 0.03 | 0.02 | 51.06 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:40:29 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 108.49 | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 129.53 | ppb |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | -0.17 | -0.13 | 0.03 | -0.09 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.01 | 0.01 | 57.51 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | -0.01 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:43:55 | DataFile Name : | 027LCSS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10065.44 | 10173.60 | 9962.83 | 10067.29 | 1.05 | ppb |
| Antimony | 121-1 | 509.08 | 508.58 | 503.26 | 506.97 | 0.64 | ppb |
| Arsenic | 75-2 | 510.53 | 512.14 | 508.86 | 510.51 | 0.32 | ppb |
| Barium | 135-1 | 2521.85 | 2513.27 | 2528.01 | 2521.04 | 0.29 | ppb |
| Barium | 137-1 | 2599.95 | 2525.70 | 2584.50 | 2570.05 | 1.52 | ppb |
| Beryllium | 9-1 | 504.59 | 512.31 | 516.47 | 511.12 | 1.18 | ppb |
| Bismuth | 209-1 | | | | 110 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 511.39 | 497.19 | 510.43 | 506.34 | 1.57 | ppb |
| Cadmium | 106-1 | 504.37 | 501.07 | 507.30 | 504.25 | 0.62 | ppb |
| Cadmium | 111-1 | 512.21 | 505.70 | 509.46 | 509.12 | 0.64 | ppb |
| Calcium | 43-1 | 59679.46 | 59183.59 | 58424.35 | 59095.80 | 1.07 | ppb |
| Calcium | 44-1 | 56532.15 | 55723.91 | 54994.37 | 55750.14 | 1.38 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 509.81 | 510.21 | 511.93 | 510.65 | 0.22 | ppb |
| Cobalt | 59-2 | 507.18 | 501.36 | 507.55 | 505.36 | 0.69 | ppb |
| Copper | 63-2 | 5101.66 | 5090.31 | 5184.80 | 5125.59 | 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 | | | | 111 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 26646.73 | 26346.37 | 26334.63 | 26442.58 | 0.67 | ppb |
| Iron | 57-2 | 27219.05 | 27334.76 | 27567.14 | 27373.65 | 0.65 | ppb |
| Iron | 54-2 | 26379.04 | 26596.39 | 27207.99 | 26727.81 | 1.61 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:43:55 | DataFile Name : | 027LCSS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2494.47 | 2537.32 | 2526.39 | 2519.40 | 0.88 | ppb |
| Lead | 207-1 | 2510.61 | 2541.36 | 2482.23 | 2511.40 | 1.18 | ppb |
| Lead | 208-1 | 2505.59 | 2563.93 | 2502.72 | 2524.08 | 1.37 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 51013.59 | 50693.81 | 51391.52 | 51032.97 | 0.68 | ppb |
| Manganese | 55-2 | 4958.87 | 4995.54 | 5069.93 | 5008.11 | 1.13 | ppb |
| Molybdenum | 94-1 | 4966.25 | 5110.07 | 5026.67 | 5034.33 | 1.43 | ppb |
| Molybdenum | 95-1 | 4952.34 | 5108.71 | 4979.30 | 5013.45 | 1.67 | ppb |
| Molybdenum | 96-1 | 5003.37 | 5159.94 | 5086.44 | 5083.25 | 1.54 | ppb |
| Molybdenum | 97-1 | 4995.84 | 5034.62 | 4924.71 | 4985.06 | 1.12 | ppb |
| Molybdenum | 98-1 | 5005.66 | 5096.73 | 4969.64 | 5024.01 | 1.30 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 508.10 | 506.87 | 508.58 | 507.85 | 0.17 | ppb |
| Phosphorus | 31-2 | 10169.53 | 10067.64 | 10186.84 | 10141.34 | 0.64 | ppb |
| Potassium | 39-2 | 25567.95 | 25276.74 | 25427.24 | 25423.98 | 0.57 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 499.74 | 515.08 | 510.27 | 508.36 | 1.54 | ppb |
| Selenium | 77-2 | 527.13 | 512.96 | 507.25 | 515.78 | 1.98 | ppb |
| Selenium | 78-2 | 508.09 | 506.62 | 523.41 | 512.71 | 1.81 | ppb |
| Silicon | 28-1 | 521.37 | 513.22 | 511.92 | 515.51 | 0.99 | ppb |
| Silver | 107-1 | 502.51 | 502.18 | 514.03 | 506.24 | 1.33 | ppb |
| Silver | 109-1 | 524.80 | 512.21 | 522.90 | 519.97 | 1.30 | ppb |
| Sodium | 23-2 | 52276.40 | 52051.51 | 52583.97 | 52303.96 | 0.51 | ppb |
| Strontium | 86-1 | 498.70 | 504.46 | 499.57 | 500.91 | 0.62 | ppb |
| Strontium | 88-1 | 502.83 | 506.71 | 508.05 | 505.87 | 0.54 | ppb |
| Sulfur | 34-1 | 8670.32 | 8510.06 | 8098.38 | 8426.26 | 3.50 | ppb |
| Terbium | 159-1 | | | | 112 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 500.34 | 522.77 | 507.66 | 510.25 | 2.24 | ppb |
| Thallium | 205-1 | 505.34 | 508.80 | 502.58 | 505.57 | 0.62 | ppb |
| Tin | 118-1 | 507.36 | 504.13 | 513.28 | 508.26 | 0.91 | ppb |
| Titanium | 47-1 | 5082.54 | 5108.24 | 5008.37 | 5066.38 | 1.02 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:43:55 | DataFile Name : | 027LCSS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 492.56 | 506.76 | 489.85 | 496.39 | 1.83 | ppb |
| Vanadium | 51-2 | 506.78 | 509.30 | 512.15 | 509.41 | 0.53 | ppb |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 5150.61 | 5109.67 | 5159.83 | 5140.04 | 0.52 | ppb |
| Zirconium | 90-1 | 495.82 | 503.16 | 494.65 | 497.88 | 0.93 | ppb |
| Zirconium | 91-1 | 498.37 | 508.28 | 500.09 | 502.25 | 1.05 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:46:45 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1470.16 | 1464.85 | 1472.48 | 1469.16 | 0.27 | ppb |
| Antimony | 121-1 | 1.65 | 1.66 | 1.70 | 1.67 | 1.73 | ppb |
| Arsenic | 75-2 | 0.71 | 0.85 | 0.97 | 0.85 | 15.73 | ppb |
| Barium | 135-1 | 117.35 | 116.56 | 118.02 | 117.31 | 0.62 | ppb |
| Barium | 137-1 | 118.61 | 118.43 | 120.15 | 119.06 | 0.79 | ppb |
| Beryllium | 9-1 | 0.04 | 0.01 | 0.00 | 0.02 | 131.66 | ppb |
| Bismuth | 209-1 | | | | 121 | | % |
| Bismuth | 209-2 | | | | 118 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.22 | 0.09 | 0.14 | 51.62 | ppb |
| Cadmium | 106-1 | -0.32 | -1.07 | -1.13 | -0.84 | | ppb |
| Cadmium | 111-1 | 0.01 | -0.05 | -0.05 | -0.03 | | ppb |
| Calcium | 43-1 | 100775.97 | 103576.79 | 104566.47 | 102973.08 | 1.91 | ppb |
| Calcium | 44-1 | 101927.21 | 102814.14 | 103345.01 | 102695.46 | 0.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.57 | 0.60 | 0.57 | 0.58 | 2.52 | ppb |
| Cobalt | 59-2 | 0.17 | 0.16 | 0.17 | 0.17 | 5.10 | ppb |
| Copper | 63-2 | 0.29 | 0.27 | 0.24 | 0.27 | 9.47 | 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 | | | | 122 | | % |
| Holmium | 165-2 | | | | 120 | | % |
| Indium | 115-1 | | | | 121 | | % |
| Indium | 115-2 | | | | 119 | | % |
| Iron | 56-2 | 62.89 | 62.15 | 62.49 | 62.51 | 0.59 | ppb |
| Iron | 57-2 | 549.27 | 565.72 | 564.00 | 559.66 | 1.62 | ppb |
| Iron | 54-2 | 60.28 | 61.95 | 60.72 | 60.98 | 1.41 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:46:45 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.11 | 0.06 | 0.04 | 0.07 | 48.60 | ppb |
| Lead | 207-1 | 0.08 | 0.08 | 0.08 | 0.08 | 4.03 | ppb |
| Lead | 208-1 | 0.09 | 0.07 | 0.06 | 0.08 | 19.97 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 315.64 | 317.17 | 313.03 | 315.28 | 0.67 | ppb |
| Manganese | 55-2 | 4.24 | 4.08 | 4.25 | 4.19 | 2.17 | ppb |
| Molybdenum | 94-1 | 63.28 | 64.13 | 64.21 | 63.88 | 0.81 | ppb |
| Molybdenum | 95-1 | 78.04 | 77.70 | 78.28 | 78.01 | 0.38 | ppb |
| Molybdenum | 96-1 | 76.40 | 75.80 | 76.73 | 76.31 | 0.61 | ppb |
| Molybdenum | 97-1 | 78.89 | 78.31 | 79.95 | 79.05 | 1.05 | ppb |
| Molybdenum | 98-1 | 79.01 | 77.50 | 78.75 | 78.42 | 1.03 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 9.88 | 10.28 | 10.16 | 10.11 | 2.00 | ppb |
| Phosphorus | 31-2 | 9.31 | -6.83 | 3.97 | 2.15 | 382.71 | ppb |
| Potassium | 39-2 | 22998.79 | 23087.64 | 22861.25 | 22982.56 | 0.50 | ppb |
| Rhodium | 103-1 | | | | 118 | | % |
| Rhodium | 103-2 | | | | 121 | | % |
| Scandium | 45-1 | | | | 118 | | % |
| Scandium | 45-2 | | | | 118 | | % |
| Selenium | 82-1 | 1.20 | 0.88 | 1.75 | 1.28 | 34.60 | ppb |
| Selenium | 77-2 | 1.61 | 0.23 | 0.23 | 0.69 | 115.40 | ppb |
| Selenium | 78-2 | -0.35 | -1.02 | -1.87 | -1.08 | | ppb |
| Silicon | 28-1 | 480.25 | 486.09 | 492.71 | 486.35 | 1.28 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 26.85 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.01 | ppb |
| Sodium | 23-2 | 19972.57 | 19994.43 | 20050.94 | 20005.98 | 0.20 | ppb |
| Strontium | 86-1 | 551.39 | 547.44 | 552.33 | 550.39 | 0.47 | ppb |
| Strontium | 88-1 | 567.26 | 551.00 | 555.20 | 557.82 | 1.51 | ppb |
| Sulfur | 34-1 | 1164.75 | 1094.52 | 1475.74 | 1245.00 | 16.30 | ppb |
| Terbium | 159-1 | | | | 124 | | % |
| Terbium | 159-2 | | | | 122 | | % |
| Thallium | 203-1 | 0.08 | 0.07 | 0.05 | 0.07 | 18.82 | ppb |
| Thallium | 205-1 | 0.07 | 0.07 | 0.06 | 0.07 | 6.61 | ppb |
| Tin | 118-1 | 0.26 | 0.25 | 0.26 | 0.26 | 2.46 | ppb |
| Titanium | 47-1 | 0.36 | 0.22 | 0.34 | 0.30 | 25.91 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:46:45 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.13 | ppb |
| Vanadium | 51-2 | 3.79 | 3.69 | 3.63 | 3.71 | 2.19 | ppb |
| Yttrium | 89-1 | | | | 120 | | % |
| Yttrium | 89-2 | | | | 121 | | % |
| Zinc | 66-2 | 0.68 | 0.61 | 0.46 | 0.58 | 19.62 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.02 | 0.03 | 8.36 | ppb |
| Zirconium | 91-1 | 0.04 | 0.02 | 0.03 | 0.03 | 34.71 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01DUP | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:49:57 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1464.84 | 1451.31 | 1478.03 | 1464.73 | 0.91 | ppb |
| Antimony | 121-1 | 1.65 | 1.68 | 1.68 | 1.67 | 1.06 | ppb |
| Arsenic | 75-2 | 0.91 | 0.95 | 0.95 | 0.93 | 2.57 | ppb |
| Barium | 135-1 | 118.26 | 119.85 | 117.67 | 118.59 | 0.96 | ppb |
| Barium | 137-1 | 119.26 | 121.76 | 119.77 | 120.26 | 1.10 | ppb |
| Beryllium | 9-1 | 0.00 | 0.01 | 0.04 | 0.02 | 103.92 | ppb |
| Bismuth | 209-1 | | | | 121 | | % |
| Bismuth | 209-2 | | | | 117 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.25 | 0.22 | 0.14 | 0.20 | 28.19 | ppb |
| Cadmium | 106-1 | 0.06 | -0.30 | -0.20 | -0.15 | | ppb |
| Cadmium | 111-1 | 0.03 | -0.01 | 0.00 | 0.00 | 355.54 | ppb |
| Calcium | 43-1 | 100481.33 | 103348.27 | 103498.74 | 102442.78 | 1.66 | ppb |
| Calcium | 44-1 | 100952.35 | 101533.77 | 101583.20 | 101356.44 | 0.35 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.36 | 0.40 | 0.44 | 0.40 | 11.09 | ppb |
| Cobalt | 59-2 | 0.11 | 0.11 | 0.11 | 0.11 | 0.20 | ppb |
| Copper | 63-2 | 0.19 | 0.21 | 0.24 | 0.21 | 10.67 | 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 | | | | 124 | | % |
| Holmium | 165-2 | | | | 120 | | % |
| Indium | 115-1 | | | | 123 | | % |
| Indium | 115-2 | | | | 122 | | % |
| Iron | 56-2 | 61.34 | 61.60 | 60.85 | 61.26 | 0.62 | ppb |
| Iron | 57-2 | 550.10 | 558.02 | 543.25 | 550.46 | 1.34 | ppb |
| Iron | 54-2 | 57.03 | 57.83 | 56.58 | 57.15 | 1.11 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01DUP | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:49:57 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.01 | 0.04 | 0.05 | 0.03 | 59.06 | ppb |
| Lead | 207-1 | 0.06 | 0.06 | 0.06 | 0.06 | 1.64 | ppb |
| Lead | 208-1 | 0.04 | 0.05 | 0.05 | 0.04 | 10.55 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 320.90 | 315.14 | 314.41 | 316.82 | 1.12 | ppb |
| Manganese | 55-2 | 5.41 | 5.28 | 5.24 | 5.31 | 1.70 | ppb |
| Molybdenum | 94-1 | 63.29 | 62.56 | 63.65 | 63.17 | 0.88 | ppb |
| Molybdenum | 95-1 | 77.82 | 76.72 | 77.65 | 77.40 | 0.77 | ppb |
| Molybdenum | 96-1 | 76.05 | 74.99 | 75.99 | 75.68 | 0.79 | ppb |
| Molybdenum | 97-1 | 77.85 | 76.59 | 78.81 | 77.75 | 1.43 | ppb |
| Molybdenum | 98-1 | 77.50 | 77.69 | 77.85 | 77.68 | 0.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 8.97 | 9.40 | 9.03 | 9.13 | 2.56 | ppb |
| Phosphorus | 31-2 | 10.59 | 13.78 | 14.78 | 13.05 | 16.78 | ppb |
| Potassium | 39-2 | 22988.59 | 22812.86 | 23297.01 | 23032.82 | 1.06 | ppb |
| Rhodium | 103-1 | | | | 121 | | % |
| Rhodium | 103-2 | | | | 122 | | % |
| Scandium | 45-1 | | | | 119 | | % |
| Scandium | 45-2 | | | | 122 | | % |
| Selenium | 82-1 | 1.05 | 1.24 | 1.27 | 1.19 | 10.02 | ppb |
| Selenium | 77-2 | 1.13 | 0.90 | 0.45 | 0.83 | 41.74 | ppb |
| Selenium | 78-2 | -1.57 | -0.80 | -0.67 | -1.01 | | ppb |
| Silicon | 28-1 | 474.81 | 494.53 | 490.06 | 486.46 | 2.12 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 100.22 | ppb |
| Silver | 109-1 | 0.00 | 0.01 | 0.01 | 0.00 | 23.49 | ppb |
| Sodium | 23-2 | 19744.49 | 19876.68 | 19896.37 | 19839.18 | 0.42 | ppb |
| Strontium | 86-1 | 549.31 | 545.13 | 554.43 | 549.62 | 0.85 | ppb |
| Strontium | 88-1 | 562.36 | 557.84 | 561.64 | 560.62 | 0.43 | ppb |
| Sulfur | 34-1 | 1460.51 | 1784.77 | 1967.56 | 1737.61 | 14.78 | ppb |
| Terbium | 159-1 | | | | 125 | | % |
| Terbium | 159-2 | | | | 122 | | % |
| Thallium | 203-1 | 0.05 | 0.06 | 0.05 | 0.05 | 8.49 | ppb |
| Thallium | 205-1 | 0.04 | 0.04 | 0.04 | 0.04 | 4.04 | ppb |
| Tin | 118-1 | 0.24 | 0.22 | 0.23 | 0.23 | 3.91 | ppb |
| Titanium | 47-1 | 0.27 | 0.31 | 0.31 | 0.30 | 7.49 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01DUP | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:49:57 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.01 | 0.01 | 0.01 | 20.52 | ppb |
| Vanadium | 51-2 | 3.69 | 3.66 | 3.77 | 3.71 | 1.52 | ppb |
| Yttrium | 89-1 | | | | 123 | | % |
| Yttrium | 89-2 | | | | 124 | | % |
| Zinc | 66-2 | 0.60 | 0.42 | 0.29 | 0.44 | 35.35 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.26 | ppb |
| Zirconium | 91-1 | 0.02 | 0.00 | 0.01 | 0.01 | 110.92 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-04 15:53:13 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 300.08 | 302.41 | 304.61 | 302.37 | 0.75 | ppb |
| Antimony | 121-1 | 0.35 | 0.34 | 0.35 | 0.35 | 1.38 | ppb |
| Arsenic | 75-2 | 0.18 | 0.16 | 0.20 | 0.18 | 12.02 | ppb |
| Barium | 135-1 | 24.32 | 24.74 | 23.28 | 24.11 | 3.13 | ppb |
| Barium | 137-1 | 24.24 | 24.61 | 24.23 | 24.36 | 0.88 | ppb |
| Beryllium | 9-1 | 0.04 | -0.01 | 0.02 | 0.02 | 160.14 | ppb |
| Bismuth | 209-1 | | | | 112 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.08 | 0.04 | 0.01 | -0.01 | | ppb |
| Cadmium | 106-1 | 0.59 | -1.07 | -0.46 | -0.31 | | ppb |
| Cadmium | 111-1 | 0.05 | -0.07 | -0.03 | -0.02 | | ppb |
| Calcium | 43-1 | 21979.72 | 21733.89 | 22141.39 | 21951.67 | 0.93 | ppb |
| Calcium | 44-1 | 20491.98 | 20437.26 | 21006.93 | 20645.39 | 1.52 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.12 | 0.17 | 0.11 | 0.13 | 23.31 | ppb |
| Cobalt | 59-2 | 0.00 | 0.01 | 0.01 | 0.01 | 78.30 | ppb |
| Copper | 63-2 | 0.28 | 0.26 | 0.25 | 0.26 | 5.10 | 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 | | | | 112 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 113 | | % |
| Iron | 56-2 | 13.89 | 13.69 | 13.87 | 13.82 | 0.79 | ppb |
| Iron | 57-2 | 112.29 | 117.21 | 118.49 | 116.00 | 2.82 | ppb |
| Iron | 54-2 | 11.42 | 11.23 | 13.56 | 12.07 | 10.71 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-04 15:53:13 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.02 | 0.00 | -0.02 | 0.00 | | ppb |
| Lead | 207-1 | 0.03 | 0.01 | 0.03 | 0.02 | 37.18 | ppb |
| Lead | 208-1 | 0.01 | 0.01 | 0.01 | 0.01 | 51.46 | ppb |
| Lithium | 6-1 | | | | 95 | | % |
| Magnesium | 24-2 | 64.43 | 64.05 | 65.34 | 64.60 | 1.03 | ppb |
| Manganese | 55-2 | 0.90 | 0.94 | 1.01 | 0.95 | 6.12 | ppb |
| Molybdenum | 94-1 | 12.56 | 13.00 | 13.16 | 12.91 | 2.42 | ppb |
| Molybdenum | 95-1 | 15.71 | 15.46 | 15.90 | 15.69 | 1.43 | ppb |
| Molybdenum | 96-1 | 15.16 | 15.33 | 15.72 | 15.41 | 1.86 | ppb |
| Molybdenum | 97-1 | 15.62 | 15.39 | 16.00 | 15.67 | 1.97 | ppb |
| Molybdenum | 98-1 | 15.60 | 15.42 | 15.60 | 15.54 | 0.68 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.08 | 2.28 | 2.05 | 2.14 | 5.73 | ppb |
| Phosphorus | 31-2 | -21.20 | -28.15 | -22.80 | -24.05 | | ppb |
| Potassium | 39-2 | 4639.19 | 4678.06 | 4647.53 | 4654.93 | 0.44 | ppb |
| Rhodium | 103-1 | | | | 113 | | % |
| Rhodium | 103-2 | | | | 114 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | 0.29 | -0.74 | 0.01 | -0.15 | | ppb |
| Selenium | 77-2 | 0.00 | 0.48 | 0.00 | 0.16 | 173.21 | ppb |
| Selenium | 78-2 | 0.09 | 1.04 | 0.29 | 0.47 | 105.95 | ppb |
| Silicon | 28-1 | 91.69 | 88.28 | 91.76 | 90.58 | 2.19 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 12.31 | ppb |
| Sodium | 23-2 | 3998.17 | 4043.53 | 4023.02 | 4021.57 | 0.56 | ppb |
| Strontium | 86-1 | 109.99 | 111.12 | 111.92 | 111.01 | 0.87 | ppb |
| Strontium | 88-1 | 111.37 | 113.10 | 110.69 | 111.72 | 1.11 | ppb |
| Sulfur | 34-1 | -1080.00 | -1271.94 | -1058.25 | -1136.73 | | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 11.56 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.03 | 0.03 | 14.20 | ppb |
| Tin | 118-1 | 0.06 | 0.05 | 0.05 | 0.05 | 16.64 | ppb |
| Titanium | 47-1 | 0.08 | 0.04 | 0.07 | 0.06 | 35.40 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-04 15:53:13 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 32.55 | ppb |
| Vanadium | 51-2 | 0.75 | 0.77 | 0.82 | 0.78 | 4.52 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 116 | | % |
| Zinc | 66-2 | 0.31 | 0.34 | 0.36 | 0.34 | 8.64 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 27.86 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.00 | 0.01 | 74.55 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-02 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:56:27 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10143.88 | 9897.77 | 9870.65 | 9970.77 | 1.51 | ppb |
| Antimony | 121-1 | 469.06 | 478.38 | 475.12 | 474.19 | 1.00 | ppb |
| Arsenic | 75-2 | 0.86 | 0.89 | 1.03 | 0.93 | 10.15 | ppb |
| Barium | 135-1 | 2196.98 | 2273.93 | 2244.54 | 2238.48 | 1.73 | ppb |
| Barium | 137-1 | 2204.37 | 2280.70 | 2238.07 | 2241.05 | 1.71 | ppb |
| Beryllium | 9-1 | 494.08 | 494.47 | 484.10 | 490.88 | 1.20 | ppb |
| Bismuth | 209-1 | | | | 122 | | % |
| Bismuth | 209-2 | | | | 116 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 439.21 | 459.88 | 452.07 | 450.39 | 2.32 | ppb |
| Cadmium | 106-1 | 454.44 | 465.60 | 466.27 | 462.11 | 1.44 | ppb |
| Cadmium | 111-1 | 454.81 | 469.34 | 459.58 | 461.24 | 1.61 | ppb |
| Calcium | 43-1 | 148048.41 | 144609.23 | 146142.77 | 146266.80 | 1.18 | ppb |
| Calcium | 44-1 | 145098.26 | 144626.79 | 142540.43 | 144088.50 | 0.94 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 461.23 | 452.94 | 454.95 | 456.38 | 0.95 | ppb |
| Cobalt | 59-2 | 469.83 | 463.03 | 457.00 | 463.29 | 1.38 | ppb |
| Copper | 63-2 | 4241.99 | 4173.11 | 4177.00 | 4197.37 | 0.92 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 124 | | % |
| Holmium | 165-2 | | | | 120 | | % |
| Indium | 115-1 | | | | 123 | | % |
| Indium | 115-2 | | | | 119 | | % |
| Iron | 56-2 | 22283.75 | 21972.27 | 21578.02 | 21944.68 | 1.61 | ppb |
| Iron | 57-2 | 23127.37 | 22866.92 | 22936.90 | 22977.06 | 0.59 | ppb |
| Iron | 54-2 | 22001.47 | 22092.45 | 22008.88 | 22034.26 | 0.23 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-02 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:56:27 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2330.06 | 2310.92 | 2395.55 | 2345.51 | 1.89 | ppb |
| Lead | 207-1 | 2302.11 | 2314.54 | 2373.35 | 2330.00 | 1.63 | ppb |
| Lead | 208-1 | 2327.00 | 2320.07 | 2358.21 | 2335.09 | 0.87 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 47005.80 | 46127.20 | 46795.39 | 46642.79 | 0.98 | ppb |
| Manganese | 55-2 | 4209.87 | 4212.82 | 4145.26 | 4189.32 | 0.91 | ppb |
| Molybdenum | 94-1 | 2294.55 | 2299.36 | 2246.33 | 2280.08 | 1.29 | ppb |
| Molybdenum | 95-1 | 1730.78 | 1772.23 | 1754.03 | 1752.35 | 1.19 | ppb |
| Molybdenum | 96-1 | 1814.50 | 1819.21 | 1812.77 | 1815.49 | 0.18 | ppb |
| Molybdenum | 97-1 | 1771.80 | 1743.62 | 1764.82 | 1760.08 | 0.83 | ppb |
| Molybdenum | 98-1 | 1775.06 | 1779.26 | 1752.79 | 1769.03 | 0.80 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 463.21 | 462.66 | 464.56 | 463.48 | 0.21 | ppb |
| Phosphorus | 31-2 | 9.97 | 7.68 | 3.58 | 7.08 | 45.74 | ppb |
| Potassium | 39-2 | 40977.42 | 40682.80 | 40655.80 | 40772.01 | 0.44 | ppb |
| Rhodium | 103-1 | | | | 120 | | % |
| Rhodium | 103-2 | | | | 118 | | % |
| Scandium | 45-1 | | | | 120 | | % |
| Scandium | 45-2 | | | | 120 | | % |
| Selenium | 82-1 | 477.60 | 483.62 | 481.62 | 480.94 | 0.64 | ppb |
| Selenium | 77-2 | 514.67 | 461.68 | 491.30 | 489.21 | 5.43 | ppb |
| Selenium | 78-2 | 498.40 | 481.76 | 488.62 | 489.59 | 1.71 | ppb |
| Silicon | 28-1 | 443.17 | 434.69 | 436.66 | 438.17 | 1.01 | ppb |
| Silver | 107-1 | 78.84 | 80.40 | 79.52 | 79.59 | 0.98 | ppb |
| Silver | 109-1 | 77.71 | 80.06 | 78.43 | 78.73 | 1.53 | ppb |
| Sodium | 23-2 | 64143.23 | 64953.91 | 64357.86 | 64485.00 | 0.65 | ppb |
| Strontium | 86-1 | 1024.62 | 1033.49 | 1042.05 | 1033.39 | 0.84 | ppb |
| Strontium | 88-1 | 1050.29 | 1039.77 | 1037.65 | 1042.57 | 0.65 | ppb |
| Sulfur | 34-1 | 2029.82 | 2006.15 | 2182.79 | 2072.92 | 4.63 | ppb |
| Terbium | 159-1 | | | | 126 | | % |
| Terbium | 159-2 | | | | 123 | | % |
| Thallium | 203-1 | 456.52 | 470.43 | 473.77 | 466.91 | 1.96 | ppb |
| Thallium | 205-1 | 456.19 | 459.40 | 469.42 | 461.67 | 1.49 | ppb |
| Tin | 118-1 | 422.64 | 434.36 | 435.21 | 430.74 | 1.63 | ppb |
| Titanium | 47-1 | 1.86 | 1.79 | 1.95 | 1.87 | 4.34 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-02 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:56:27 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 458.94 | 457.81 | 461.44 | 459.40 | 0.40 | ppb |
| Vanadium | 51-2 | 479.03 | 475.38 | 478.75 | 477.72 | 0.43 | ppb |
| Yttrium | 89-1 | | | | 125 | | % |
| Yttrium | 89-2 | | | | 123 | | % |
| Zinc | 66-2 | 4267.30 | 4229.34 | 4110.50 | 4202.38 | 1.95 | ppb |
| Zirconium | 90-1 | 459.31 | 458.28 | 458.11 | 458.57 | 0.14 | ppb |
| Zirconium | 91-1 | 460.96 | 461.48 | 462.06 | 461.50 | 0.12 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-03 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:59:19 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10130.77 | 10312.10 | 10133.80 | 10192.22 | 1.02 | ppb |
| Antimony | 121-1 | 489.00 | 488.27 | 489.11 | 488.79 | 0.09 | ppb |
| Arsenic | 75-2 | 0.81 | 1.07 | 1.16 | 1.01 | 18.28 | ppb |
| Barium | 135-1 | 2281.98 | 2248.39 | 2223.05 | 2251.14 | 1.31 | ppb |
| Barium | 137-1 | 2297.07 | 2288.12 | 2265.06 | 2283.42 | 0.72 | ppb |
| Beryllium | 9-1 | 493.75 | 493.01 | 496.92 | 494.56 | 0.42 | ppb |
| Bismuth | 209-1 | | | | 122 | | % |
| Bismuth | 209-2 | | | | 116 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 451.87 | 467.83 | 460.38 | 460.03 | 1.74 | ppb |
| Cadmium | 106-1 | 476.96 | 469.96 | 466.09 | 471.00 | 1.17 | ppb |
| Cadmium | 111-1 | 473.32 | 470.75 | 473.03 | 472.37 | 0.30 | ppb |
| Calcium | 43-1 | 140594.28 | 148233.96 | 145315.89 | 144714.71 | 2.66 | ppb |
| Calcium | 44-1 | 142837.55 | 142831.35 | 144957.49 | 143542.13 | 0.85 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 467.78 | 463.39 | 463.48 | 464.88 | 0.54 | ppb |
| Cobalt | 59-2 | 467.83 | 460.37 | 465.63 | 464.61 | 0.82 | ppb |
| Copper | 63-2 | 4309.19 | 4300.83 | 4264.72 | 4291.58 | 0.55 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 123 | | % |
| Holmium | 165-2 | | | | 120 | | % |
| Indium | 115-1 | | | | 120 | | % |
| Indium | 115-2 | | | | 119 | | % |
| Iron | 56-2 | 22285.84 | 22557.90 | 22298.27 | 22380.67 | 0.69 | ppb |
| Iron | 57-2 | 23481.69 | 23341.71 | 23386.55 | 23403.32 | 0.31 | ppb |
| Iron | 54-2 | 22438.82 | 22117.36 | 22165.45 | 22240.54 | 0.78 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-03 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:59:19 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2418.98 | 2424.14 | 2370.90 | 2404.67 | 1.22 | ppb |
| Lead | 207-1 | 2402.16 | 2413.83 | 2386.69 | 2400.89 | 0.57 | ppb |
| Lead | 208-1 | 2413.64 | 2405.05 | 2390.52 | 2403.07 | 0.49 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 47384.82 | 46393.81 | 46517.92 | 46765.52 | 1.15 | ppb |
| Manganese | 55-2 | 4306.19 | 4254.82 | 4240.01 | 4267.01 | 0.81 | ppb |
| Molybdenum | 94-1 | 2310.19 | 2318.23 | 2330.20 | 2319.54 | 0.43 | ppb |
| Molybdenum | 95-1 | 1767.24 | 1751.46 | 1768.93 | 1762.54 | 0.55 | ppb |
| Molybdenum | 96-1 | 1810.76 | 1836.87 | 1829.41 | 1825.68 | 0.74 | ppb |
| Molybdenum | 97-1 | 1759.06 | 1797.87 | 1773.82 | 1776.92 | 1.10 | ppb |
| Molybdenum | 98-1 | 1797.96 | 1803.00 | 1791.95 | 1797.64 | 0.31 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 473.95 | 471.52 | 471.44 | 472.30 | 0.30 | ppb |
| Phosphorus | 31-2 | 0.98 | -1.96 | 2.32 | 0.45 | 490.75 | ppb |
| Potassium | 39-2 | 41911.97 | 41587.86 | 42372.73 | 41957.52 | 0.94 | ppb |
| Rhodium | 103-1 | | | | 120 | | % |
| Rhodium | 103-2 | | | | 120 | | % |
| Scandium | 45-1 | | | | 120 | | % |
| Scandium | 45-2 | | | | 120 | | % |
| Selenium | 82-1 | 487.90 | 492.68 | 489.85 | 490.14 | 0.49 | ppb |
| Selenium | 77-2 | 519.10 | 470.68 | 500.11 | 496.63 | 4.91 | ppb |
| Selenium | 78-2 | 485.30 | 483.78 | 491.67 | 486.92 | 0.86 | ppb |
| Silicon | 28-1 | 422.06 | 445.33 | 454.75 | 440.71 | 3.82 | ppb |
| Silver | 107-1 | 81.46 | 80.65 | 81.13 | 81.08 | 0.50 | ppb |
| Silver | 109-1 | 79.98 | 80.57 | 79.96 | 80.17 | 0.44 | ppb |
| Sodium | 23-2 | 65049.89 | 63948.22 | 63930.23 | 64309.45 | 1.00 | ppb |
| Strontium | 86-1 | 1027.76 | 1047.54 | 1046.06 | 1040.45 | 1.06 | ppb |
| Strontium | 88-1 | 1061.46 | 1070.92 | 1084.57 | 1072.31 | 1.08 | ppb |
| Sulfur | 34-1 | 1658.39 | 1809.11 | 1801.94 | 1756.48 | 4.84 | ppb |
| Terbium | 159-1 | | | | 125 | | % |
| Terbium | 159-2 | | | | 121 | | % |
| Thallium | 203-1 | 477.64 | 478.74 | 463.59 | 473.32 | 1.78 | ppb |
| Thallium | 205-1 | 465.85 | 474.71 | 459.85 | 466.80 | 1.60 | ppb |
| Tin | 118-1 | 446.24 | 442.62 | 441.66 | 443.51 | 0.54 | ppb |
| Titanium | 47-1 | 1.77 | 1.92 | 1.63 | 1.77 | 8.15 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-03 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:59:19 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 466.62 | 462.61 | 469.84 | 466.35 | 0.78 | ppb |
| Vanadium | 51-2 | 490.43 | 483.93 | 486.99 | 487.12 | 0.67 | ppb |
| Yttrium | 89-1 | | | | 124 | | % |
| Yttrium | 89-2 | | | | 123 | | % |
| Zinc | 66-2 | 4363.96 | 4303.64 | 4299.27 | 4322.29 | 0.84 | ppb |
| Zirconium | 90-1 | 463.00 | 470.72 | 468.17 | 467.30 | 0.84 | ppb |
| Zirconium | 91-1 | 466.18 | 473.88 | 469.06 | 469.71 | 0.83 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01A | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:02:08 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10035.80 | 10394.76 | 10251.86 | 10227.47 | 1.77 | ppb |
| Antimony | 121-1 | 480.22 | 478.95 | 482.47 | 480.55 | 0.37 | ppb |
| Arsenic | 75-2 | 1.04 | 1.00 | 1.27 | 1.10 | 13.16 | ppb |
| Barium | 135-1 | 2263.52 | 2211.88 | 2230.64 | 2235.34 | 1.17 | ppb |
| Barium | 137-1 | 2299.84 | 2236.08 | 2271.01 | 2268.98 | 1.41 | ppb |
| Beryllium | 9-1 | 501.21 | 504.69 | 505.49 | 503.80 | 0.45 | ppb |
| Bismuth | 209-1 | | | | 123 | | % |
| Bismuth | 209-2 | | | | 117 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 444.06 | 444.13 | 447.92 | 445.37 | 0.50 | ppb |
| Cadmium | 106-1 | 464.95 | 464.60 | 467.37 | 465.64 | 0.32 | ppb |
| Cadmium | 111-1 | 464.86 | 462.73 | 465.02 | 464.21 | 0.28 | ppb |
| Calcium | 43-1 | 141055.14 | 142501.82 | 148297.05 | 143951.34 | 2.66 | ppb |
| Calcium | 44-1 | 141952.80 | 144612.67 | 143366.72 | 143310.73 | 0.93 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 463.36 | 462.45 | 463.34 | 463.05 | 0.11 | ppb |
| Cobalt | 59-2 | 472.66 | 465.71 | 464.15 | 467.51 | 0.97 | ppb |
| Copper | 63-2 | 4327.80 | 4316.00 | 4200.60 | 4281.47 | 1.64 | 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 | | | | 125 | | % |
| Holmium | 165-2 | | | | 122 | | % |
| Indium | 115-1 | | | | 121 | | % |
| Indium | 115-2 | | | | 118 | | % |
| Iron | 56-2 | 22195.12 | 22072.41 | 21922.23 | 22063.25 | 0.62 | ppb |
| Iron | 57-2 | 23339.55 | 23356.15 | 23092.66 | 23262.79 | 0.63 | ppb |
| Iron | 54-2 | 22453.52 | 22319.14 | 22483.72 | 22418.79 | 0.39 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01A | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:02:08 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2379.70 | 2416.46 | 2393.46 | 2396.54 | 0.78 | ppb |
| Lead | 207-1 | 2387.67 | 2419.68 | 2392.77 | 2400.04 | 0.72 | ppb |
| Lead | 208-1 | 2377.69 | 2406.30 | 2412.05 | 2398.68 | 0.77 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 46961.70 | 46797.88 | 46882.20 | 46880.59 | 0.17 | ppb |
| Manganese | 55-2 | 4260.85 | 4265.69 | 4239.26 | 4255.27 | 0.33 | ppb |
| Molybdenum | 94-1 | 2343.48 | 2339.22 | 2362.41 | 2348.37 | 0.53 | ppb |
| Molybdenum | 95-1 | 1780.08 | 1781.68 | 1811.45 | 1791.07 | 0.99 | ppb |
| Molybdenum | 96-1 | 1834.23 | 1851.76 | 1853.36 | 1846.45 | 0.57 | ppb |
| Molybdenum | 97-1 | 1805.63 | 1788.57 | 1804.59 | 1799.59 | 0.53 | ppb |
| Molybdenum | 98-1 | 1799.82 | 1794.43 | 1812.68 | 1802.31 | 0.52 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 470.69 | 469.95 | 466.50 | 469.04 | 0.48 | ppb |
| Phosphorus | 31-2 | -1.28 | 7.66 | -1.66 | 1.57 | 335.47 | ppb |
| Potassium | 39-2 | 41443.72 | 41449.87 | 41655.75 | 41516.44 | 0.29 | ppb |
| Rhodium | 103-1 | | | | 121 | | % |
| Rhodium | 103-2 | | | | 120 | | % |
| Scandium | 45-1 | | | | 118 | | % |
| Scandium | 45-2 | | | | 120 | | % |
| Selenium | 82-1 | 488.03 | 488.89 | 498.66 | 491.86 | 1.20 | ppb |
| Selenium | 77-2 | 475.29 | 498.50 | 510.06 | 494.62 | 3.58 | ppb |
| Selenium | 78-2 | 486.23 | 499.06 | 510.78 | 498.69 | 2.46 | ppb |
| Silicon | 28-1 | 418.02 | 427.61 | 442.39 | 429.34 | 2.86 | ppb |
| Silver | 107-1 | 80.15 | 79.63 | 79.81 | 79.86 | 0.33 | ppb |
| Silver | 109-1 | 78.71 | 78.36 | 78.85 | 78.64 | 0.32 | ppb |
| Sodium | 23-2 | 64207.49 | 64570.10 | 64943.75 | 64573.78 | 0.57 | ppb |
| Strontium | 86-1 | 1052.73 | 1044.63 | 1079.65 | 1059.00 | 1.73 | ppb |
| Strontium | 88-1 | 1063.66 | 1050.86 | 1054.82 | 1056.44 | 0.62 | ppb |
| Sulfur | 34-1 | 1569.39 | 1642.10 | 1810.17 | 1673.88 | 7.38 | ppb |
| Terbium | 159-1 | | | | 128 | | % |
| Terbium | 159-2 | | | | 122 | | % |
| Thallium | 203-1 | 470.98 | 479.97 | 479.67 | 476.88 | 1.07 | ppb |
| Thallium | 205-1 | 466.74 | 469.08 | 470.34 | 468.72 | 0.39 | ppb |
| Tin | 118-1 | 430.66 | 431.09 | 435.80 | 432.52 | 0.66 | ppb |
| Titanium | 47-1 | 1.58 | 1.80 | 1.88 | 1.75 | 8.76 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01A | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:02:08 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 459.63 | 463.69 | 463.80 | 462.37 | 0.51 | ppb |
| Vanadium | 51-2 | 485.95 | 481.30 | 485.36 | 484.20 | 0.52 | ppb |
| Yttrium | 89-1 | | | | 123 | | % |
| Yttrium | 89-2 | | | | 122 | | % |
| Zinc | 66-2 | 4309.56 | 4333.88 | 4398.81 | 4347.42 | 1.06 | ppb |
| Zirconium | 90-1 | 469.40 | 472.91 | 468.04 | 470.12 | 0.54 | ppb |
| Zirconium | 91-1 | 469.56 | 468.35 | 474.95 | 470.95 | 0.75 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:10:17 | DataFile Name : | 035CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49661.02 | 49859.11 | 48341.71 | 49287.28 | 1.67 | ppb |
| Antimony | 121-1 | 488.73 | 499.88 | 502.69 | 497.10 | 1.49 | ppb |
| Arsenic | 75-2 | 496.69 | 491.89 | 496.51 | 495.03 | 0.55 | ppb |
| Barium | 135-1 | 2435.08 | 2503.28 | 2495.51 | 2477.96 | 1.51 | ppb |
| Barium | 137-1 | 2389.12 | 2514.10 | 2465.32 | 2456.18 | 2.56 | ppb |
| Beryllium | 9-1 | 513.43 | 514.63 | 504.14 | 510.73 | 1.12 | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 465.56 | 489.77 | 479.16 | 478.17 | 2.54 | ppb |
| Cadmium | 106-1 | 467.42 | 495.48 | 493.43 | 485.44 | 3.22 | ppb |
| Cadmium | 111-1 | 463.53 | 488.59 | 482.77 | 478.30 | 2.74 | ppb |
| Calcium | 43-1 | 272444.13 | 267155.31 | 275745.01 | 271781.49 | 1.59 | ppb |
| Calcium | 44-1 | 269294.82 | 265958.01 | 267869.24 | 267707.36 | 0.63 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 499.06 | 503.86 | 492.56 | 498.49 | 1.14 | ppb |
| Cobalt | 59-2 | 483.74 | 490.42 | 472.95 | 482.37 | 1.83 | ppb |
| Copper | 63-2 | 4785.88 | 4781.79 | 4718.73 | 4762.14 | 0.79 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 116 | | % |
| Holmium | 165-2 | | | | 115 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 112 | | % |
| Iron | 56-2 | 127815.12 | 127393.93 | 126692.41 | 127300.49 | 0.45 | ppb |
| Iron | 57-2 | 125492.21 | 128298.52 | 124036.00 | 125942.24 | 1.72 | ppb |
| Iron | 54-2 | 126134.32 | 128410.12 | 125454.26 | 126666.24 | 1.22 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:10:17 | DataFile Name : | 035CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2497.97 | 2522.93 | 2525.14 | 2515.34 | 0.60 | ppb |
| Lead | 207-1 | 2480.25 | 2460.58 | 2488.67 | 2476.50 | 0.58 | ppb |
| Lead | 208-1 | 2511.71 | 2520.92 | 2514.08 | 2515.57 | 0.19 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 247512.82 | 250527.23 | 249943.40 | 249327.82 | 0.64 | ppb |
| Manganese | 55-2 | 4827.50 | 4901.29 | 4782.06 | 4836.95 | 1.24 | ppb |
| Molybdenum | 94-1 | 5069.29 | 4994.26 | 5204.06 | 5089.20 | 2.09 | ppb |
| Molybdenum | 95-1 | 5083.25 | 5082.72 | 5173.37 | 5113.11 | 1.02 | ppb |
| Molybdenum | 96-1 | 5097.77 | 5096.67 | 5173.24 | 5122.56 | 0.86 | ppb |
| Molybdenum | 97-1 | 5117.13 | 5119.59 | 5202.67 | 5146.46 | 0.95 | ppb |
| Molybdenum | 98-1 | 5245.98 | 5027.10 | 5221.18 | 5164.75 | 2.32 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 477.93 | 481.92 | 468.84 | 476.23 | 1.41 | ppb |
| Phosphorus | 31-2 | 9666.48 | 9750.86 | 9550.72 | 9656.02 | 1.04 | ppb |
| Potassium | 39-2 | 125641.20 | 126884.93 | 124847.43 | 125791.19 | 0.82 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 111 | | % |
| Scandium | 45-1 | | | | 112 | | % |
| Scandium | 45-2 | | | | 116 | | % |
| Selenium | 82-1 | 465.92 | 463.58 | 479.36 | 469.62 | 1.81 | ppb |
| Selenium | 77-2 | 497.34 | 474.51 | 497.56 | 489.80 | 2.70 | ppb |
| Selenium | 78-2 | 477.18 | 478.65 | 480.38 | 478.73 | 0.33 | ppb |
| Silicon | 28-1 | 1480.03 | 1449.03 | 1512.00 | 1480.35 | 2.13 | ppb |
| Silver | 107-1 | 474.01 | 496.49 | 492.23 | 487.58 | 2.45 | ppb |
| Silver | 109-1 | 469.51 | 497.08 | 490.56 | 485.72 | 2.97 | ppb |
| Sodium | 23-2 | 247879.19 | 250412.32 | 246904.38 | 248398.63 | 0.73 | ppb |
| Strontium | 86-1 | 4939.41 | 4938.80 | 5032.17 | 4970.13 | 1.08 | ppb |
| Strontium | 88-1 | 5063.65 | 4954.48 | 5088.31 | 5035.48 | 1.41 | ppb |
| Sulfur | 34-1 | 8186.05 | 7834.45 | 8263.36 | 8094.62 | 2.82 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 117 | | % |
| Thallium | 203-1 | 501.06 | 512.42 | 513.90 | 509.13 | 1.38 | ppb |
| Thallium | 205-1 | 512.77 | 502.13 | 507.98 | 507.63 | 1.05 | ppb |
| Tin | 118-1 | 459.65 | 477.50 | 476.45 | 471.20 | 2.13 | ppb |
| Titanium | 47-1 | 4837.93 | 4805.98 | 4910.89 | 4851.60 | 1.11 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:10:17 | DataFile Name : | 035CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 504.57 | 496.48 | 518.53 | 506.53 | 2.20 | ppb |
| Vanadium | 51-2 | 501.61 | 506.54 | 497.89 | 502.02 | 0.86 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 117 | | % |
| Zinc | 66-2 | 4808.42 | 4798.27 | 4692.25 | 4766.32 | 1.35 | ppb |
| Zirconium | 90-1 | 515.14 | 519.26 | 523.61 | 519.34 | 0.82 | ppb |
| Zirconium | 91-1 | 514.88 | 511.65 | 522.23 | 516.25 | 1.05 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:15:04 | DataFile Name : | 036CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -1.45 | -1.03 | -1.15 | -1.21 | | ppb |
| Antimony | 121-1 | 0.05 | 0.06 | 0.06 | 0.06 | 9.91 | ppb |
| Arsenic | 75-2 | 0.01 | -0.02 | -0.03 | -0.01 | | ppb |
| Barium | 135-1 | 0.02 | 0.02 | 0.01 | 0.02 | 22.87 | ppb |
| Barium | 137-1 | 0.02 | 0.02 | 0.04 | 0.03 | 28.74 | ppb |
| Beryllium | 9-1 | 0.05 | 0.03 | 0.08 | 0.05 | 40.65 | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | -0.11 | -0.08 | -0.06 | | ppb |
| Cadmium | 106-1 | -1.84 | -1.50 | -2.08 | -1.81 | | ppb |
| Cadmium | 111-1 | -0.10 | -0.08 | -0.13 | -0.10 | | ppb |
| Calcium | 43-1 | 1.67 | 3.75 | 2.73 | 2.72 | 38.22 | ppb |
| Calcium | 44-1 | 10.44 | 9.88 | 12.24 | 10.85 | 11.36 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.39 | 0.41 | 0.40 | 0.40 | 3.05 | ppb |
| Cobalt | 59-2 | -0.01 | -0.02 | -0.02 | -0.01 | | ppb |
| Copper | 63-2 | 0.37 | 0.39 | 0.33 | 0.36 | 9.36 | 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 | | | | 110 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 112 | | % |
| Iron | 56-2 | 2.75 | 2.65 | 2.29 | 2.56 | 9.27 | ppb |
| Iron | 57-2 | -0.24 | 1.04 | 0.11 | 0.30 | 218.75 | ppb |
| Iron | 54-2 | 2.87 | 5.30 | 2.45 | 3.54 | 43.59 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:15:04 | DataFile Name : | 036CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.00 | 0.01 | 0.02 | 0.01 | 155.53 | ppb |
| Lead | 207-1 | 0.06 | 0.03 | 0.05 | 0.04 | 33.34 | ppb |
| Lead | 208-1 | 0.02 | 0.03 | 0.03 | 0.03 | 4.45 | ppb |
| Lithium | 6-1 | | | | 94 | | % |
| Magnesium | 24-2 | 2.21 | 2.15 | 2.22 | 2.19 | 1.89 | ppb |
| Manganese | 55-2 | 0.08 | 0.12 | 0.14 | 0.11 | 25.60 | ppb |
| Molybdenum | 94-1 | 0.11 | 0.12 | 0.10 | 0.11 | 11.27 | ppb |
| Molybdenum | 95-1 | 0.07 | 0.06 | 0.04 | 0.06 | 27.88 | ppb |
| Molybdenum | 96-1 | 0.05 | 0.07 | 0.06 | 0.06 | 19.86 | ppb |
| Molybdenum | 97-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.01 | ppb |
| Molybdenum | 98-1 | 0.06 | 0.06 | 0.06 | 0.06 | 2.68 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.07 | 0.11 | 0.12 | 0.10 | 30.33 | ppb |
| Phosphorus | 31-2 | -30.35 | -22.84 | -30.65 | -27.95 | | ppb |
| Potassium | 39-2 | 10.10 | 10.52 | 7.94 | 9.52 | 14.56 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 111 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 0.31 | -0.25 | 0.57 | 0.21 | 197.01 | ppb |
| Selenium | 77-2 | 0.50 | 0.00 | 0.25 | 0.25 | 100.09 | ppb |
| Selenium | 78-2 | -0.10 | 2.36 | -0.86 | 0.47 | 358.58 | ppb |
| Silicon | 28-1 | -8.75 | -8.16 | -8.75 | -8.55 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 33.73 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.35 | ppb |
| Sodium | 23-2 | 27.89 | 28.43 | 25.28 | 27.20 | 6.20 | ppb |
| Strontium | 86-1 | 0.03 | 0.01 | 0.03 | 0.02 | 39.06 | ppb |
| Strontium | 88-1 | 0.04 | 0.04 | 0.03 | 0.03 | 1.75 | ppb |
| Sulfur | 34-1 | -2249.86 | -2193.98 | -2131.84 | -2191.89 | | ppb |
| Terbium | 159-1 | | | | 113 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.09 | 0.09 | 0.09 | 0.09 | 1.83 | ppb |
| Thallium | 205-1 | 0.08 | 0.08 | 0.09 | 0.08 | 3.16 | ppb |
| Tin | 118-1 | 0.07 | 0.09 | 0.07 | 0.08 | 12.42 | ppb |
| Titanium | 47-1 | 0.01 | 0.03 | 0.03 | 0.02 | 45.47 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:15:04 | DataFile Name : | 036CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 12.08 | ppb |
| Vanadium | 51-2 | 0.01 | 0.01 | 0.00 | 0.00 | 76.30 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 112 | | % |
| Zinc | 66-2 | 0.84 | 0.96 | 0.91 | 0.90 | 6.48 | ppb |
| Zirconium | 90-1 | 0.03 | 0.04 | 0.03 | 0.03 | 17.04 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.03 | 0.02 | 36.02 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-04 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:18:26 | DataFile Name : | 037AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 65.04 | 64.23 | 62.94 | 64.07 | 1.65 | ppb |
| Antimony | 121-1 | 0.29 | 0.32 | 0.31 | 0.31 | 4.60 | ppb |
| Arsenic | 75-2 | 0.81 | 0.84 | 0.85 | 0.83 | 2.68 | ppb |
| Barium | 135-1 | 384.00 | 379.60 | 382.90 | 382.17 | 0.60 | ppb |
| Barium | 137-1 | 388.45 | 384.58 | 390.76 | 387.93 | 0.81 | ppb |
| Beryllium | 9-1 | 0.12 | 0.07 | 0.11 | 0.10 | 27.36 | ppb |
| Bismuth | 209-1 | | | | 125 | | % |
| Bismuth | 209-2 | | | | 122 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.05 | -0.03 | 0.01 | 307.40 | ppb |
| Cadmium | 106-1 | -0.31 | -0.73 | -1.81 | -0.95 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.04 | -0.12 | -0.06 | | ppb |
| Calcium | 43-1 | 30342.59 | 30398.36 | 30224.16 | 30321.70 | 0.29 | ppb |
| Calcium | 44-1 | 28898.34 | 29431.76 | 28795.67 | 29041.92 | 1.18 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.04 | 0.04 | 0.02 | 0.03 | 44.50 | ppb |
| Cobalt | 59-2 | 6.30 | 6.36 | 6.16 | 6.28 | 1.64 | ppb |
| Copper | 63-2 | 0.11 | 0.17 | 0.13 | 0.14 | 20.63 | 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 | | | | 125 | | % |
| Holmium | 165-2 | | | | 123 | | % |
| Indium | 115-1 | | | | 126 | | % |
| Indium | 115-2 | | | | 126 | | % |
| Iron | 56-2 | 5380.77 | 5409.99 | 5308.75 | 5366.50 | 0.97 | ppb |
| Iron | 57-2 | 5572.49 | 5656.58 | 5575.98 | 5601.68 | 0.85 | ppb |
| Iron | 54-2 | 5454.41 | 5526.94 | 5448.85 | 5476.73 | 0.80 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-04 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:18:26 | DataFile Name : | 037AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.01 | -0.01 | -0.01 | 0.00 | | ppb |
| Lead | 207-1 | 0.01 | 0.03 | 0.01 | 0.02 | 57.14 | ppb |
| Lead | 208-1 | 0.00 | 0.00 | 0.00 | 0.00 | 21.08 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 7433.18 | 7507.83 | 7321.11 | 7420.71 | 1.27 | ppb |
| Manganese | 55-2 | 450.52 | 452.22 | 447.69 | 450.15 | 0.51 | ppb |
| Molybdenum | 94-1 | 16.66 | 16.58 | 16.88 | 16.71 | 0.91 | ppb |
| Molybdenum | 95-1 | 20.97 | 20.63 | 20.46 | 20.69 | 1.26 | ppb |
| Molybdenum | 96-1 | 20.28 | 20.18 | 20.24 | 20.23 | 0.24 | ppb |
| Molybdenum | 97-1 | 20.62 | 20.64 | 20.50 | 20.59 | 0.36 | ppb |
| Molybdenum | 98-1 | 20.88 | 20.78 | 20.91 | 20.86 | 0.33 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 8.51 | 8.94 | 8.68 | 8.71 | 2.49 | ppb |
| Phosphorus | 31-2 | 269.46 | 292.26 | 280.14 | 280.62 | 4.06 | ppb |
| Potassium | 39-2 | 7460.77 | 7548.40 | 7496.16 | 7501.78 | 0.59 | ppb |
| Rhodium | 103-1 | | | | 124 | | % |
| Rhodium | 103-2 | | | | 126 | | % |
| Scandium | 45-1 | | | | 121 | | % |
| Scandium | 45-2 | | | | 124 | | % |
| Selenium | 82-1 | 0.79 | -0.59 | 0.22 | 0.14 | 492.82 | ppb |
| Selenium | 77-2 | 0.22 | 0.00 | 0.43 | 0.22 | 99.97 | ppb |
| Selenium | 78-2 | -0.90 | -1.99 | -1.20 | -1.36 | | ppb |
| Silicon | 28-1 | 2510.11 | 2580.37 | 2575.10 | 2555.19 | 1.53 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.01 | 0.00 | 47.43 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.01 | 0.00 | 75.09 | ppb |
| Sodium | 23-2 | 6451.04 | 6520.49 | 6395.97 | 6455.83 | 0.97 | ppb |
| Strontium | 86-1 | 250.97 | 249.59 | 249.61 | 250.06 | 0.32 | ppb |
| Strontium | 88-1 | 255.49 | 253.01 | 256.50 | 255.00 | 0.70 | ppb |
| Sulfur | 34-1 | -1686.89 | -1750.37 | -1769.73 | -1735.67 | | ppb |
| Terbium | 159-1 | | | | 128 | | % |
| Terbium | 159-2 | | | | 125 | | % |
| Thallium | 203-1 | 0.25 | 0.28 | 0.23 | 0.26 | 9.55 | ppb |
| Thallium | 205-1 | 0.24 | 0.25 | 0.23 | 0.24 | 3.33 | ppb |
| Tin | 118-1 | 0.23 | 0.24 | 0.25 | 0.24 | 4.33 | ppb |
| Titanium | 47-1 | 0.82 | 0.69 | 0.75 | 0.75 | 8.75 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-04 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:18:26 | DataFile Name : | 037AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.97 | ppb |
| Vanadium | 51-2 | 0.48 | 0.51 | 0.49 | 0.49 | 2.42 | ppb |
| Yttrium | 89-1 | | | | 127 | | % |
| Yttrium | 89-2 | | | | 129 | | % |
| Zinc | 66-2 | 3.54 | 3.40 | 3.61 | 3.51 | 2.91 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.63 | ppb |
| Zirconium | 91-1 | 0.01 | -0.01 | 0.01 | 0.00 | 857.83 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-08 | Instrumnet Name : | P7 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:21:37 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7.38 | 7.10 | 6.47 | 6.98 | 6.69 | ppb |
| Antimony | 121-1 | 0.00 | 0.01 | 0.01 | 0.01 | 80.88 | ppb |
| Arsenic | 75-2 | -0.01 | 0.02 | -0.01 | 0.00 | | ppb |
| Barium | 135-1 | 0.10 | 0.11 | 0.09 | 0.10 | 9.82 | ppb |
| Barium | 137-1 | 0.10 | 0.10 | 0.11 | 0.11 | 5.14 | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.03 | 0.01 | 227.72 | ppb |
| Bismuth | 209-1 | | | | 126 | | % |
| Bismuth | 209-2 | | | | 121 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.06 | -0.11 | -0.09 | -0.08 | | ppb |
| Cadmium | 106-1 | -0.63 | -0.31 | -0.46 | -0.47 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.01 | -0.02 | -0.02 | | ppb |
| Calcium | 43-1 | 19.74 | 33.48 | 26.04 | 26.42 | 26.04 | ppb |
| Calcium | 44-1 | 33.53 | 32.51 | 31.57 | 32.54 | 3.02 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.08 | 0.09 | -0.06 | -0.02 | | ppb |
| Cobalt | 59-2 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Copper | 63-2 | 0.16 | 0.11 | 0.16 | 0.14 | 16.49 | 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 | | | | 124 | | % |
| Holmium | 165-2 | | | | 120 | | % |
| Indium | 115-1 | | | | 126 | | % |
| Indium | 115-2 | | | | 124 | | % |
| Iron | 56-2 | 3.14 | 3.62 | 3.27 | 3.34 | 7.33 | ppb |
| Iron | 57-2 | 1.30 | 0.47 | 1.49 | 1.09 | 50.08 | ppb |
| Iron | 54-2 | 0.36 | 0.92 | 1.28 | 0.85 | 54.38 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-08 | Instrumnet Name : | P7 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:21:37 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.44 | 0.46 | 0.46 | 0.45 | 2.74 | ppb |
| Lead | 207-1 | 0.43 | 0.43 | 0.47 | 0.45 | 5.51 | ppb |
| Lead | 208-1 | 0.44 | 0.45 | 0.44 | 0.44 | 0.70 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 13.60 | 13.62 | 14.12 | 13.78 | 2.13 | ppb |
| Manganese | 55-2 | 0.25 | 0.30 | 0.25 | 0.27 | 11.25 | ppb |
| Molybdenum | 94-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Molybdenum | 95-1 | 0.02 | 0.01 | 0.02 | 0.01 | 37.07 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.01 | 0.00 | 115.25 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.01 | 0.01 | 0.01 | 21.53 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.36 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.05 | -0.06 | -0.05 | -0.05 | | ppb |
| Phosphorus | 31-2 | -11.04 | -16.51 | -4.30 | -10.62 | | ppb |
| Potassium | 39-2 | -20.70 | -18.86 | -19.52 | -19.69 | | ppb |
| Rhodium | 103-1 | | | | 125 | | % |
| Rhodium | 103-2 | | | | 124 | | % |
| Scandium | 45-1 | | | | 120 | | % |
| Scandium | 45-2 | | | | 122 | | % |
| Selenium | 82-1 | 0.00 | 0.39 | -0.34 | 0.02 | 2026.39 | ppb |
| Selenium | 77-2 | 0.00 | 0.22 | 0.00 | 0.07 | 173.21 | ppb |
| Selenium | 78-2 | -2.44 | -2.46 | -1.85 | -2.25 | | ppb |
| Silicon | 28-1 | -14.07 | -13.28 | -13.69 | -13.68 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Silver | 109-1 | 0.01 | 0.00 | 0.00 | 0.00 | 25.29 | ppb |
| Sodium | 23-2 | 55.64 | 59.85 | 60.22 | 58.57 | 4.34 | ppb |
| Strontium | 86-1 | 0.01 | 0.00 | 0.00 | 0.00 | 255.20 | ppb |
| Strontium | 88-1 | 0.10 | 0.10 | 0.10 | 0.10 | 3.93 | ppb |
| Sulfur | 34-1 | -3341.10 | -3298.79 | -3339.98 | -3326.62 | | ppb |
| Terbium | 159-1 | | | | 126 | | % |
| Terbium | 159-2 | | | | 123 | | % |
| Thallium | 203-1 | 0.04 | 0.03 | 0.04 | 0.04 | 19.18 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 9.25 | ppb |
| Tin | 118-1 | 0.24 | 0.22 | 0.20 | 0.22 | 10.24 | ppb |
| Titanium | 47-1 | 0.39 | 0.06 | 0.05 | 0.17 | 118.61 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-08 | Instrumnet Name : | P7 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:21:37 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 67.11 | ppb |
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.00 | 110.68 | ppb |
| Yttrium | 89-1 | | | | 125 | | % |
| Yttrium | 89-2 | | | | 126 | | % |
| Zinc | 66-2 | 0.39 | 0.49 | 0.59 | 0.49 | 20.80 | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.00 | 0.00 | 33.75 | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:24:57 | DataFile Name : | 039CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49254.92 | 47767.28 | 49346.49 | 48789.56 | 1.82 | ppb |
| Antimony | 121-1 | 481.07 | 487.45 | 483.16 | 483.89 | 0.67 | ppb |
| Arsenic | 75-2 | 471.74 | 493.52 | 496.38 | 487.21 | 2.77 | ppb |
| Barium | 135-1 | 2393.15 | 2409.99 | 2386.33 | 2396.49 | 0.51 | ppb |
| Barium | 137-1 | 2412.40 | 2398.09 | 2408.48 | 2406.32 | 0.31 | ppb |
| Beryllium | 9-1 | 504.52 | 508.88 | 508.61 | 507.34 | 0.48 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 461.80 | 464.73 | 459.41 | 461.98 | 0.58 | ppb |
| Cadmium | 106-1 | 464.64 | 469.94 | 472.74 | 469.11 | 0.88 | ppb |
| Cadmium | 111-1 | 465.50 | 467.93 | 466.56 | 466.66 | 0.26 | ppb |
| Calcium | 43-1 | 270366.80 | 268898.04 | 270252.19 | 269839.01 | 0.30 | ppb |
| Calcium | 44-1 | 260106.23 | 262300.77 | 260243.83 | 260883.61 | 0.47 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 493.00 | 491.59 | 497.19 | 493.92 | 0.59 | ppb |
| Cobalt | 59-2 | 476.01 | 480.22 | 477.76 | 478.00 | 0.44 | ppb |
| Copper | 63-2 | 4683.72 | 4705.66 | 4723.49 | 4704.29 | 0.42 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 111 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 126069.51 | 125683.93 | 126012.31 | 125921.92 | 0.17 | ppb |
| Iron | 57-2 | 124184.77 | 122811.80 | 123455.43 | 123484.00 | 0.56 | ppb |
| Iron | 54-2 | 124833.50 | 125339.54 | 124162.78 | 124778.61 | 0.47 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:24:57 | DataFile Name : | 039CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2479.18 | 2540.11 | 2507.77 | 2509.02 | 1.22 | ppb |
| Lead | 207-1 | 2439.78 | 2499.91 | 2525.51 | 2488.40 | 1.77 | ppb |
| Lead | 208-1 | 2459.86 | 2501.17 | 2516.04 | 2492.36 | 1.17 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 244330.65 | 246270.37 | 249658.83 | 246753.28 | 1.09 | ppb |
| Manganese | 55-2 | 4721.12 | 4721.91 | 4777.20 | 4740.08 | 0.68 | ppb |
| Molybdenum | 94-1 | 5090.35 | 4976.03 | 5084.43 | 5050.27 | 1.27 | ppb |
| Molybdenum | 95-1 | 5127.39 | 5036.40 | 5031.43 | 5065.08 | 1.07 | ppb |
| Molybdenum | 96-1 | 5080.30 | 5036.59 | 5047.28 | 5054.72 | 0.45 | ppb |
| Molybdenum | 97-1 | 5043.64 | 5039.23 | 5056.33 | 5046.40 | 0.18 | ppb |
| Molybdenum | 98-1 | 5053.36 | 4993.74 | 5153.11 | 5066.74 | 1.59 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 474.51 | 475.46 | 477.30 | 475.76 | 0.30 | ppb |
| Phosphorus | 31-2 | 9628.84 | 9496.82 | 9592.51 | 9572.72 | 0.71 | ppb |
| Potassium | 39-2 | 124205.74 | 122853.41 | 125496.96 | 124185.37 | 1.06 | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 113 | | % |
| Selenium | 82-1 | 477.12 | 461.88 | 469.98 | 469.66 | 1.62 | ppb |
| Selenium | 77-2 | 467.37 | 469.80 | 489.12 | 475.43 | 2.51 | ppb |
| Selenium | 78-2 | 448.75 | 475.02 | 495.85 | 473.21 | 4.99 | ppb |
| Silicon | 28-1 | 1474.29 | 1485.33 | 1480.12 | 1479.92 | 0.37 | ppb |
| Silver | 107-1 | 478.47 | 471.26 | 472.64 | 474.12 | 0.81 | ppb |
| Silver | 109-1 | 473.32 | 480.87 | 467.17 | 473.79 | 1.45 | ppb |
| Sodium | 23-2 | 247783.70 | 243482.46 | 247873.50 | 246379.89 | 1.02 | ppb |
| Strontium | 86-1 | 4901.11 | 4895.34 | 4920.12 | 4905.52 | 0.26 | ppb |
| Strontium | 88-1 | 5025.70 | 4938.24 | 5044.49 | 5002.81 | 1.13 | ppb |
| Sulfur | 34-1 | 8245.59 | 7927.45 | 8098.95 | 8090.66 | 1.97 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 114 | | % |
| Thallium | 203-1 | 503.28 | 515.40 | 518.32 | 512.33 | 1.56 | ppb |
| Thallium | 205-1 | 492.32 | 516.90 | 504.02 | 504.41 | 2.44 | ppb |
| Tin | 118-1 | 452.21 | 459.22 | 453.53 | 454.99 | 0.82 | ppb |
| Titanium | 47-1 | 4837.55 | 4725.71 | 4937.61 | 4833.62 | 2.19 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:24:57 | DataFile Name : | 039CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 486.31 | 510.21 | 503.63 | 500.05 | 2.47 | ppb |
| Vanadium | 51-2 | 494.63 | 492.21 | 492.89 | 493.25 | 0.25 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 114 | | % |
| Zinc | 66-2 | 4672.76 | 4757.47 | 4700.98 | 4710.41 | 0.92 | ppb |
| Zirconium | 90-1 | 515.38 | 501.46 | 506.95 | 507.93 | 1.38 | ppb |
| Zirconium | 91-1 | 512.98 | 503.85 | 511.77 | 509.53 | 0.97 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:28:58 | DataFile Name : | 040CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.28 | -0.55 | -1.22 | -0.68 | | ppb |
| Antimony | 121-1 | 0.05 | 0.05 | 0.06 | 0.05 | 17.16 | ppb |
| Arsenic | 75-2 | -0.01 | -0.03 | 0.01 | -0.01 | | ppb |
| Barium | 135-1 | 0.04 | 0.05 | 0.04 | 0.04 | 11.84 | ppb |
| Barium | 137-1 | 0.05 | 0.04 | 0.05 | 0.05 | 10.01 | ppb |
| Beryllium | 9-1 | 0.04 | 0.04 | 0.03 | 0.04 | 12.14 | ppb |
| Bismuth | 209-1 | | | | 112 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.05 | -0.05 | -0.11 | -0.07 | | ppb |
| Cadmium | 106-1 | -1.32 | -1.16 | -1.21 | -1.23 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.06 | -0.05 | -0.06 | | ppb |
| Calcium | 43-1 | 7.81 | 0.91 | 3.02 | 3.91 | 90.34 | ppb |
| Calcium | 44-1 | 12.27 | 13.41 | 15.13 | 13.61 | 10.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.36 | 0.35 | 0.35 | 0.35 | 1.41 | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.35 | 0.35 | 0.31 | 0.33 | 7.39 | 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 | | | | 110 | | % |
| Holmium | 165-2 | | | | 114 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 115 | | % |
| Iron | 56-2 | 3.90 | 3.66 | 3.30 | 3.62 | 8.33 | ppb |
| Iron | 57-2 | 1.41 | 2.80 | 1.30 | 1.84 | 45.31 | ppb |
| Iron | 54-2 | 4.81 | 3.42 | 4.15 | 4.13 | 16.91 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:28:58 | DataFile Name : | 040CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.02 | 0.01 | 0.02 | 0.02 | 48.43 | ppb |
| Lead | 207-1 | 0.05 | 0.05 | 0.06 | 0.05 | 8.44 | ppb |
| Lead | 208-1 | 0.03 | 0.03 | 0.03 | 0.03 | 4.39 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 4.91 | 5.19 | 4.31 | 4.80 | 9.35 | ppb |
| Manganese | 55-2 | 0.26 | 0.18 | 0.23 | 0.23 | 17.60 | ppb |
| Molybdenum | 94-1 | 0.14 | 0.09 | 0.09 | 0.10 | 28.85 | ppb |
| Molybdenum | 95-1 | 0.10 | 0.08 | 0.07 | 0.08 | 19.00 | ppb |
| Molybdenum | 96-1 | 0.08 | 0.10 | 0.09 | 0.09 | 8.01 | ppb |
| Molybdenum | 97-1 | 0.09 | 0.07 | 0.09 | 0.08 | 8.07 | ppb |
| Molybdenum | 98-1 | 0.10 | 0.09 | 0.10 | 0.10 | 1.19 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.19 | 0.15 | 0.11 | 0.15 | 26.42 | ppb |
| Phosphorus | 31-2 | -21.85 | -22.57 | -26.44 | -23.62 | | ppb |
| Potassium | 39-2 | 13.00 | 12.39 | 12.09 | 12.49 | 3.71 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 115 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | -0.35 | 0.18 | -0.33 | -0.17 | | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.87 | -1.41 | -0.47 | -0.34 | | ppb |
| Silicon | 28-1 | -8.48 | -9.55 | -9.45 | -9.16 | | ppb |
| Silver | 107-1 | 0.03 | 0.01 | 0.01 | 0.01 | 77.09 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.02 | ppb |
| Sodium | 23-2 | 27.33 | 25.82 | 25.90 | 26.35 | 3.22 | ppb |
| Strontium | 86-1 | -0.03 | 0.01 | 0.04 | 0.01 | 686.50 | ppb |
| Strontium | 88-1 | 0.05 | 0.06 | 0.07 | 0.06 | 15.40 | ppb |
| Sulfur | 34-1 | -2059.33 | -2154.43 | -2150.41 | -2121.39 | | ppb |
| Terbium | 159-1 | | | | 113 | | % |
| Terbium | 159-2 | | | | 115 | | % |
| Thallium | 203-1 | 0.07 | 0.07 | 0.08 | 0.07 | 9.57 | ppb |
| Thallium | 205-1 | 0.06 | 0.07 | 0.06 | 0.06 | 7.58 | ppb |
| Tin | 118-1 | 0.09 | 0.09 | 0.05 | 0.08 | 26.49 | ppb |
| Titanium | 47-1 | 0.06 | 0.05 | 0.09 | 0.07 | 31.06 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:28:58 | DataFile Name : | 040CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.01 | 0.00 | 0.00 | 0.01 | 36.39 | ppb |
| Vanadium | 51-2 | 0.01 | 0.00 | 0.01 | 0.01 | 66.74 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 114 | | % |
| Zinc | 66-2 | 1.13 | 1.13 | 1.03 | 1.10 | 5.23 | ppb |
| Zirconium | 90-1 | 0.04 | 0.02 | 0.05 | 0.04 | 34.22 | ppb |
| Zirconium | 91-1 | 0.03 | 0.01 | 0.03 | 0.03 | 39.52 | ppb |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:09:04 | DataFile Name : | 005CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 400 | 363 | 357 | 373 | 6.25 | cps |
| Antimony | 121-1 | 63 | 13 | 30 | 36 | 71.61 | cps |
| Arsenic | 75-2 | 3 | 10 | 13 | 9 | 57.30 | cps |
| Barium | 135-1 | 30 | 20 | 20 | 23 | 24.74 | cps |
| Barium | 137-1 | 17 | 20 | 13 | 17 | 20.01 | cps |
| Beryllium | 9-1 | 37 | 21 | 31 | 30 | 28.34 | cps |
| Bismuth | 209-1 | 3647428 | 3596688 | 3515771 | 3586629 | 1.85 | cps |
| Bismuth | 209-2 | 3253061 | 3305424 | 3286943 | 3281810 | 0.81 | cps |
| Bromine | 81-1 | 25419 | 25001 | 25355 | 25258 | 0.89 | cps |
| Bromine | 81-2 | 297 | 270 | 370 | 312 | 16.59 | cps |
| Cadmium | 108-1 | 3 | 13 | 23 | 13 | 75.02 | cps |
| Cadmium | 106-1 | 1767 | 1823 | 1657 | 1749 | 4.85 | cps |
| Cadmium | 111-1 | 1244 | 1274 | 1163 | 1227 | 4.66 | cps |
| Calcium | 43-1 | 433 | 413 | 387 | 411 | 5.69 | cps |
| Calcium | 44-1 | 8353 | 8259 | 8586 | 8399 | 2.00 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 810 | 813 | 960 | 861 | 9.95 | cps |
| Cobalt | 59-2 | 120 | 110 | 103 | 111 | 7.55 | cps |
| Copper | 63-2 | 1473 | 1527 | 1473 | 1491 | 2.07 | cps |
| Dysprosium | 156-1 | 3 | 0 | 10 | 4 | 114.60 | cps |
| Dysprosium | 156-2 | 0 | 3 | 10 | 4 | 114.60 | cps |
| Erbium | 164-1 | 67 | 37 | 23 | 42 | 52.57 | cps |
| Erbium | 164-2 | 47 | 33 | 23 | 34 | 34.00 | cps |
| Gadolinium | 160-1 | 27 | 37 | 17 | 27 | 37.50 | cps |
| Gadolinium | 160-2 | 260 | 323 | 247 | 277 | 14.80 | cps |
| Holmium | 165-1 | 5875827 | 5854381 | 5693432 | 5807880 | 1.72 | cps |
| Holmium | 165-2 | 4384166 | 4376922 | 4390762 | 4383950 | 0.16 | cps |
| Indium | 115-1 | 4938423 | 4792137 | 4784952 | 4838504 | 1.79 | cps |
| Indium | 115-2 | 1909196 | 1934664 | 1895357 | 1913072 | 1.04 | cps |
| Iron | 56-2 | 21586 | 21589 | 21739 | 21638 | 0.41 | cps |
| Iron | 57-2 | 1270 | 1297 | 1247 | 1271 | 1.97 | cps |
| Iron | 54-2 | 2617 | 2357 | 2547 | 2507 | 5.37 | cps |
| Krypton | 83-1 | 327 | 367 | 297 | 330 | 10.64 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:09:04 | DataFile Name : | 005CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 603 | 777 | 727 | 702 | 12.71 | cps |
| Lead | 207-1 | 540 | 500 | 510 | 517 | 4.03 | cps |
| Lead | 208-1 | 2520 | 2680 | 2640 | 2613 | 3.19 | cps |
| Lithium | 6-1 | 636695 | 616964 | 619136 | 624265 | 1.73 | cps |
| Magnesium | 24-2 | 140 | 160 | 153 | 151 | 6.74 | cps |
| Manganese | 55-2 | 1850 | 1713 | 1760 | 1775 | 3.92 | cps |
| Molybdenum | 94-1 | 133 | 123 | 123 | 127 | 4.56 | cps |
| Molybdenum | 95-1 | 23 | 30 | 30 | 28 | 13.86 | cps |
| Molybdenum | 96-1 | 150 | 117 | 133 | 133 | 12.50 | cps |
| Molybdenum | 97-1 | 37 | 27 | 30 | 31 | 16.37 | cps |
| Molybdenum | 98-1 | 43 | 37 | 50 | 43 | 15.38 | cps |
| Neodymium | 150-1 | 10 | 0 | 0 | 3 | 173.21 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 257 | 210 | 197 | 221 | 14.25 | cps |
| Phosphorus | 31-2 | 293 | 307 | 330 | 310 | 5.99 | cps |
| Potassium | 39-2 | 50306 | 49922 | 49253 | 49827 | 1.07 | cps |
| Rhodium | 103-1 | 4690305 | 4627774 | 4576771 | 4631617 | 1.23 | cps |
| Rhodium | 103-2 | 2876994 | 2867607 | 2842606 | 2862402 | 0.62 | cps |
| Scandium | 45-1 | 2871034 | 2718225 | 2697835 | 2762365 | 3.43 | cps |
| Scandium | 45-2 | 263699 | 264539 | 261681 | 263306 | 0.56 | cps |
| Selenium | 82-1 | 201 | 146 | 200 | 182 | 17.26 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 670 | 687 | 700 | 686 | 2.19 | cps |
| Silicon | 28-1 | 1267278 | 1304685 | 1272119 | 1281361 | 1.59 | cps |
| Silver | 107-1 | 33 | 43 | 70 | 49 | 38.78 | cps |
| Silver | 109-1 | 20 | 3 | 30 | 18 | 75.79 | cps |
| Sodium | 23-2 | 13996 | 14113 | 13816 | 13975 | 1.07 | cps |
| Strontium | 86-1 | 620 | 557 | 530 | 569 | 8.13 | cps |
| Strontium | 88-1 | 103 | 103 | 77 | 94 | 16.30 | cps |
| Sulfur | 34-1 | 135928 | 137139 | 135484 | 136183 | 0.63 | cps |
| Terbium | 159-1 | 6019662 | 5834765 | 5802055 | 5885494 | 1.99 | cps |
| Terbium | 159-2 | 4271523 | 4376506 | 4306298 | 4318109 | 1.24 | cps |
| Thallium | 203-1 | 43 | 70 | 57 | 57 | 23.53 | cps |
| Thallium | 205-1 | 217 | 200 | 220 | 212 | 5.05 | cps |
| Tin | 118-1 | 727 | 777 | 753 | 752 | 3.33 | cps |
| Titanium | 47-1 | 47 | 50 | 67 | 54 | 19.68 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:09:04 | DataFile Name : | 005CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 30 | 0 | 7 | 12 | 128.87 | cps |
| Vanadium | 51-2 | 7 | 0 | 17 | 8 | 107.84 | cps |
| Yttrium | 89-1 | 7145786 | 7088615 | 6970507 | 7068303 | 1.26 | cps |
| Yttrium | 89-2 | 2124868 | 2049455 | 2032827 | 2069050 | 2.37 | cps |
| Zinc | 66-2 | 340 | 333 | 363 | 346 | 4.56 | cps |
| Zirconium | 90-1 | 287 | 240 | 277 | 268 | 9.18 | cps |
| Zirconium | 91-1 | 30 | 53 | 107 | 63 | 62.06 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:15:42 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2880 | 2974 | 2780 | 2878 | 3.36 | cps |
| Antimony | 121-1 | 10057 | 9887 | 9997 | 9980 | 0.86 | cps |
| Arsenic | 75-2 | 380 | 333 | 360 | 358 | 6.54 | cps |
| Barium | 135-1 | 12679 | 12923 | 12265 | 12622 | 2.63 | cps |
| Barium | 137-1 | 21904 | 21810 | 22074 | 21929 | 0.61 | cps |
| Beryllium | 9-1 | 748 | 801 | 808 | 786 | 4.19 | cps |
| Bismuth | 209-1 | 3594919 | 3587198 | 3484366 | 3555494 | 1.74 | cps |
| Bismuth | 209-2 | 3310752 | 3237265 | 3323239 | 3290419 | 1.41 | cps |
| Bromine | 81-1 | 25108 | 25048 | 24648 | 24935 | 1.00 | cps |
| Bromine | 81-2 | 240 | 243 | 223 | 236 | 4.55 | cps |
| Cadmium | 108-1 | 103 | 107 | 123 | 111 | 9.65 | cps |
| Cadmium | 106-1 | 1940 | 1967 | 1853 | 1920 | 3.09 | cps |
| Cadmium | 111-1 | 2749 | 2862 | 2705 | 2772 | 2.93 | cps |
| Calcium | 43-1 | 7825 | 7925 | 7749 | 7833 | 1.13 | cps |
| Calcium | 44-1 | 130961 | 132981 | 129893 | 131278 | 1.19 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5578 | 5564 | 5484 | 5542 | 0.91 | cps |
| Cobalt | 59-2 | 4161 | 4131 | 3884 | 4058 | 3.74 | cps |
| Copper | 63-2 | 6898 | 7068 | 6782 | 6916 | 2.09 | cps |
| Dysprosium | 156-1 | 0 | 7 | 17 | 8 | 107.84 | cps |
| Dysprosium | 156-2 | 7 | 0 | 10 | 6 | 91.64 | cps |
| Erbium | 164-1 | 30 | 40 | 53 | 41 | 28.47 | cps |
| Erbium | 164-2 | 47 | 37 | 30 | 38 | 22.21 | cps |
| Gadolinium | 160-1 | 20 | 23 | 20 | 21 | 9.11 | cps |
| Gadolinium | 160-2 | 333 | 227 | 250 | 270 | 20.77 | cps |
| Holmium | 165-1 | 5669832 | 5737277 | 5759066 | 5722058 | 0.81 | cps |
| Holmium | 165-2 | 4462420 | 4373967 | 4413485 | 4416624 | 1.00 | cps |
| Indium | 115-1 | 4798929 | 4849877 | 4809537 | 4819447 | 0.56 | cps |
| Indium | 115-2 | 1927076 | 1922030 | 1935176 | 1928094 | 0.34 | cps |
| Iron | 56-2 | 135484 | 136799 | 133615 | 135299 | 1.18 | cps |
| Iron | 57-2 | 4367 | 4257 | 4321 | 4315 | 1.28 | cps |
| Iron | 54-2 | 8733 | 8773 | 9173 | 8893 | 2.74 | cps |
| Krypton | 83-1 | 350 | 327 | 353 | 343 | 4.23 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:15:42 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4297 | 4257 | 4374 | 4310 | 1.38 | cps |
| Lead | 207-1 | 3857 | 3891 | 3801 | 3849 | 1.18 | cps |
| Lead | 208-1 | 17455 | 17278 | 17685 | 17472 | 1.17 | cps |
| Lithium | 6-1 | 645109 | 631227 | 638400 | 638245 | 1.09 | cps |
| Magnesium | 24-2 | 107224 | 107395 | 106217 | 106945 | 0.59 | cps |
| Manganese | 55-2 | 3737 | 3517 | 3690 | 3648 | 3.18 | cps |
| Molybdenum | 94-1 | 10921 | 10771 | 10951 | 10881 | 0.89 | cps |
| Molybdenum | 95-1 | 12889 | 13403 | 12782 | 13025 | 2.55 | cps |
| Molybdenum | 96-1 | 14891 | 14711 | 14544 | 14715 | 1.18 | cps |
| Molybdenum | 97-1 | 7942 | 8336 | 7966 | 8081 | 2.73 | cps |
| Molybdenum | 98-1 | 21102 | 21095 | 21619 | 21272 | 1.41 | cps |
| Neodymium | 150-1 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Neodymium | 150-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Nickel | 60-2 | 1090 | 1200 | 1060 | 1117 | 6.60 | cps |
| Phosphorus | 31-2 | 633 | 560 | 647 | 613 | 7.61 | cps |
| Potassium | 39-2 | 194773 | 192838 | 194408 | 194006 | 0.53 | cps |
| Rhodium | 103-1 | 4562331 | 4515346 | 4591404 | 4556360 | 0.84 | cps |
| Rhodium | 103-2 | 2893574 | 2893995 | 2902645 | 2896738 | 0.18 | cps |
| Scandium | 45-1 | 2751242 | 2748734 | 2751733 | 2750570 | 0.06 | cps |
| Scandium | 45-2 | 265701 | 262184 | 264431 | 264105 | 0.67 | cps |
| Selenium | 82-1 | 762 | 849 | 763 | 791 | 6.28 | cps |
| Selenium | 77-2 | 70 | 67 | 67 | 68 | 2.84 | cps |
| Selenium | 78-2 | 997 | 867 | 1010 | 958 | 8.27 | cps |
| Silicon | 28-1 | 1282974 | 1281068 | 1277446 | 1280496 | 0.22 | cps |
| Silver | 107-1 | 6782 | 7205 | 7275 | 7087 | 3.77 | cps |
| Silver | 109-1 | 6578 | 6815 | 7005 | 6799 | 3.15 | cps |
| Sodium | 23-2 | 183122 | 184774 | 184171 | 184022 | 0.45 | cps |
| Strontium | 86-1 | 2184 | 2334 | 2264 | 2260 | 3.32 | cps |
| Strontium | 88-1 | 15121 | 15298 | 15248 | 15222 | 0.60 | cps |
| Sulfur | 34-1 | 137051 | 137953 | 136977 | 137327 | 0.40 | cps |
| Terbium | 159-1 | 5829132 | 5932330 | 5961810 | 5907757 | 1.18 | cps |
| Terbium | 159-2 | 4450956 | 4360996 | 4405685 | 4405879 | 1.02 | cps |
| Thallium | 203-1 | 4534 | 4851 | 4547 | 4644 | 3.86 | cps |
| Thallium | 205-1 | 10861 | 11375 | 11341 | 11192 | 2.57 | cps |
| Tin | 118-1 | 23125 | 23015 | 23362 | 23168 | 0.77 | cps |
| Titanium | 47-1 | 3320 | 3480 | 3487 | 3429 | 2.75 | cps |

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Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:15:42 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 14985 | 14785 | 14431 | 14734 | 1.90 | cps |
| Vanadium | 51-2 | 10053 | 9683 | 9740 | 9826 | 2.03 | cps |
| Yttrium | 89-1 | 6969822 | 7186166 | 6965143 | 7040377 | 1.79 | cps |
| Yttrium | 89-2 | 2077869 | 2048330 | 2134883 | 2087027 | 2.11 | cps |
| Zinc | 66-2 | 2874 | 2910 | 2867 | 2884 | 0.81 | cps |
| Zirconium | 90-1 | 9110 | 8803 | 9093 | 9002 | 1.92 | cps |
| Zirconium | 91-1 | 1877 | 1987 | 1983 | 1949 | 3.21 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:19:02 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 118053 | 117952 | 118160 | 118055 | 0.09 | cps |
| Antimony | 121-1 | 228941 | 230325 | 229833 | 229700 | 0.31 | cps |
| Arsenic | 75-2 | 14974 | 14858 | 14878 | 14903 | 0.42 | cps |
| Barium | 135-1 | 295797 | 300577 | 295870 | 297415 | 0.92 | cps |
| Barium | 137-1 | 508755 | 518797 | 511090 | 512881 | 1.02 | cps |
| Beryllium | 9-1 | 37894 | 37290 | 36901 | 37362 | 1.34 | cps |
| Bismuth | 209-1 | 3636793 | 3601142 | 3617646 | 3618527 | 0.49 | cps |
| Bismuth | 209-2 | 3397247 | 3420785 | 3290627 | 3369553 | 2.06 | cps |
| Bromine | 81-1 | 24510 | 24347 | 24584 | 24480 | 0.50 | cps |
| Bromine | 81-2 | 157 | 210 | 187 | 184 | 14.49 | cps |
| Cadmium | 108-1 | 4824 | 5178 | 4934 | 4979 | 3.63 | cps |
| Cadmium | 106-1 | 8823 | 8759 | 8653 | 8745 | 0.98 | cps |
| Cadmium | 111-1 | 68859 | 70081 | 69158 | 69366 | 0.92 | cps |
| Calcium | 43-1 | 69974 | 69589 | 70761 | 70108 | 0.85 | cps |
| Calcium | 44-1 | 1130051 | 1139736 | 1140253 | 1136680 | 0.51 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 109272 | 108181 | 107245 | 108233 | 0.94 | cps |
| Cobalt | 59-2 | 170777 | 170637 | 169907 | 170441 | 0.27 | cps |
| Copper | 63-2 | 1295749 | 1292562 | 1280714 | 1289675 | 0.61 | cps |
| Dysprosium | 156-1 | 10 | 0 | 10 | 7 | 86.60 | cps |
| Dysprosium | 156-2 | 23 | 23 | 23 | 23 | 0.00 | cps |
| Erbium | 164-1 | 50 | 57 | 67 | 58 | 14.52 | cps |
| Erbium | 164-2 | 23 | 23 | 57 | 34 | 55.89 | cps |
| Gadolinium | 160-1 | 17 | 37 | 17 | 23 | 49.48 | cps |
| Gadolinium | 160-2 | 253 | 293 | 257 | 268 | 8.29 | cps |
| Holmium | 165-1 | 5701858 | 5747113 | 5722503 | 5723824 | 0.40 | cps |
| Holmium | 165-2 | 4569725 | 4553293 | 4483008 | 4535342 | 1.02 | cps |
| Indium | 115-1 | 4657346 | 4741998 | 4674044 | 4691129 | 0.96 | cps |
| Indium | 115-2 | 2001862 | 1918632 | 1908104 | 1942866 | 2.64 | cps |
| Iron | 56-2 | 4979118 | 5002564 | 4899918 | 4960534 | 1.08 | cps |
| Iron | 57-2 | 132192 | 130730 | 130759 | 131227 | 0.64 | cps |
| Iron | 54-2 | 290479 | 291523 | 285541 | 289181 | 1.11 | cps |
| Krypton | 83-1 | 333 | 363 | 390 | 362 | 7.83 | cps |

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Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:19:02 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 885035 | 901439 | 886886 | 891120 | 1.01 | cps |
| Lead | 207-1 | 777436 | 790375 | 778422 | 782078 | 0.92 | cps |
| Lead | 208-1 | 3575883 | 3666140 | 3590494 | 3610839 | 1.34 | cps |
| Lithium | 6-1 | 648082 | 651358 | 628694 | 642711 | 1.91 | cps |
| Magnesium | 24-2 | 988570 | 981175 | 983346 | 984364 | 0.39 | cps |
| Manganese | 55-2 | 953024 | 945091 | 932092 | 943402 | 1.12 | cps |
| Molybdenum | 94-1 | 837162 | 836953 | 849153 | 841089 | 0.83 | cps |
| Molybdenum | 95-1 | 1200126 | 1203063 | 1202207 | 1201799 | 0.13 | cps |
| Molybdenum | 96-1 | 1313397 | 1318084 | 1324806 | 1318762 | 0.43 | cps |
| Molybdenum | 97-1 | 751866 | 764023 | 762581 | 759490 | 0.87 | cps |
| Molybdenum | 98-1 | 1893493 | 1963237 | 1882760 | 1913163 | 2.28 | cps |
| Neodymium | 150-1 | 7 | 7 | 17 | 10 | 57.72 | cps |
| Neodymium | 150-2 | 10 | 7 | 7 | 8 | 24.71 | cps |
| Nickel | 60-2 | 44830 | 45409 | 45355 | 45198 | 0.71 | cps |
| Phosphorus | 31-2 | 7655 | 7278 | 7225 | 7386 | 3.17 | cps |
| Potassium | 39-2 | 722850 | 714256 | 712415 | 716507 | 0.78 | cps |
| Rhodium | 103-1 | 4528663 | 4551331 | 4616861 | 4565618 | 1.00 | cps |
| Rhodium | 103-2 | 2847238 | 2890591 | 2890960 | 2876263 | 0.87 | cps |
| Scandium | 45-1 | 2714456 | 2764822 | 2722374 | 2733884 | 0.99 | cps |
| Scandium | 45-2 | 262674 | 258856 | 257214 | 259581 | 1.08 | cps |
| Selenium | 82-1 | 5472 | 5387 | 5593 | 5484 | 1.88 | cps |
| Selenium | 77-2 | 747 | 690 | 610 | 682 | 10.06 | cps |
| Selenium | 78-2 | 2784 | 2854 | 2880 | 2839 | 1.76 | cps |
| Silicon | 28-1 | 2070326 | 2052395 | 2028184 | 2050302 | 1.03 | cps |
| Silver | 107-1 | 332330 | 334054 | 334041 | 333475 | 0.30 | cps |
| Silver | 109-1 | 313711 | 318267 | 317572 | 316517 | 0.78 | cps |
| Sodium | 23-2 | 1628460 | 1626726 | 1617495 | 1624227 | 0.36 | cps |
| Strontium | 86-1 | 77372 | 78866 | 78102 | 78114 | 0.96 | cps |
| Strontium | 88-1 | 679324 | 684418 | 692143 | 685295 | 0.94 | cps |
| Sulfur | 34-1 | 157491 | 157017 | 155259 | 156589 | 0.75 | cps |
| Terbium | 159-1 | 5785212 | 5933757 | 5798619 | 5839196 | 1.41 | cps |
| Terbium | 159-2 | 4461716 | 4386551 | 4419129 | 4422465 | 0.85 | cps |
| Thallium | 203-1 | 223594 | 223104 | 220366 | 222355 | 0.78 | cps |
| Thallium | 205-1 | 525744 | 525386 | 521468 | 524199 | 0.45 | cps |
| Tin | 118-1 | 198160 | 198689 | 200588 | 199146 | 0.64 | cps |
| Titanium | 47-1 | 312923 | 314418 | 316243 | 314528 | 0.53 | cps |

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On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:19:02 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 663026 | 671394 | 674922 | 669781 | 0.91 | cps |
| Vanadium | 51-2 | 93045 | 91143 | 92065 | 92084 | 1.03 | cps |
| Yttrium | 89-1 | 6850019 | 6926165 | 6955754 | 6910646 | 0.79 | cps |
| Yttrium | 89-2 | 2098051 | 2067126 | 2068512 | 2077896 | 0.84 | cps |
| Zinc | 66-2 | 264820 | 263216 | 261601 | 263212 | 0.61 | cps |
| Zirconium | 90-1 | 410718 | 418521 | 417153 | 415464 | 1.00 | cps |
| Zirconium | 91-1 | 92020 | 93019 | 94103 | 93047 | 1.12 | cps |

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Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:22:15 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 289338 | 290884 | 286868 | 289030 | 0.70 | cps |
| Antimony | 121-1 | 573769 | 574620 | 574381 | 574257 | 0.08 | cps |
| Arsenic | 75-2 | 37417 | 37982 | 36812 | 37404 | 1.56 | cps |
| Barium | 135-1 | 741653 | 744738 | 755108 | 747166 | 0.94 | cps |
| Barium | 137-1 | 1282922 | 1287456 | 1295897 | 1288758 | 0.51 | cps |
| Beryllium | 9-1 | 93922 | 95283 | 95360 | 94855 | 0.85 | cps |
| Bismuth | 209-1 | 3621767 | 3624597 | 3652173 | 3632846 | 0.46 | cps |
| Bismuth | 209-2 | 3376247 | 3381201 | 3422533 | 3393327 | 0.75 | cps |
| Bromine | 81-1 | 24237 | 24100 | 24247 | 24194 | 0.34 | cps |
| Bromine | 81-2 | 180 | 210 | 190 | 193 | 7.90 | cps |
| Cadmium | 108-1 | 12205 | 12509 | 12349 | 12354 | 1.23 | cps |
| Cadmium | 106-1 | 19189 | 19069 | 19573 | 19277 | 1.37 | cps |
| Cadmium | 111-1 | 172210 | 173198 | 175478 | 173629 | 0.97 | cps |
| Calcium | 43-1 | 174838 | 174972 | 172834 | 174215 | 0.69 | cps |
| Calcium | 44-1 | 2745028 | 2726806 | 2723915 | 2731916 | 0.42 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 265385 | 266354 | 264821 | 265520 | 0.29 | cps |
| Cobalt | 59-2 | 421411 | 421423 | 420621 | 421152 | 0.11 | cps |
| Copper | 63-2 | 3222900 | 3204273 | 3147576 | 3191583 | 1.23 | cps |
| Dysprosium | 156-1 | 23 | 37 | 13 | 24 | 47.91 | cps |
| Dysprosium | 156-2 | 37 | 80 | 40 | 52 | 46.17 | cps |
| Erbium | 164-1 | 57 | 67 | 33 | 52 | 32.76 | cps |
| Erbium | 164-2 | 40 | 30 | 47 | 39 | 21.57 | cps |
| Gadolinium | 160-1 | 33 | 30 | 23 | 29 | 17.63 | cps |
| Gadolinium | 160-2 | 333 | 283 | 223 | 280 | 19.67 | cps |
| Holmium | 165-1 | 5763450 | 5745607 | 5879201 | 5796086 | 1.25 | cps |
| Holmium | 165-2 | 4579981 | 4542903 | 4516940 | 4546608 | 0.70 | cps |
| Indium | 115-1 | 4829488 | 4766176 | 4843621 | 4813095 | 0.86 | cps |
| Indium | 115-2 | 1935351 | 1926494 | 1922438 | 1928094 | 0.34 | cps |
| Iron | 56-2 | 12314505 | 12278025 | 12141951 | 12244827 | 0.74 | cps |
| Iron | 57-2 | 321700 | 322912 | 320263 | 321625 | 0.41 | cps |
| Iron | 54-2 | 713629 | 710409 | 705427 | 709822 | 0.58 | cps |
| Krypton | 83-1 | 440 | 377 | 427 | 414 | 8.06 | cps |

Reviewed By:mohan
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Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:22:15 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2255972 | 2266239 | 2353638 | 2291950 | 2.34 | cps |
| Lead | 207-1 | 2025939 | 2041538 | 2070023 | 2045833 | 1.09 | cps |
| Lead | 208-1 | 9182680 | 9227199 | 9336398 | 9248759 | 0.86 | cps |
| Lithium | 6-1 | 655309 | 659112 | 658938 | 657786 | 0.33 | cps |
| Magnesium | 24-2 | 2455254 | 2482594 | 2441421 | 2459756 | 0.85 | cps |
| Manganese | 55-2 | 2291803 | 2336238 | 2286278 | 2304773 | 1.19 | cps |
| Molybdenum | 94-1 | 2137611 | 2123612 | 2128421 | 2129881 | 0.33 | cps |
| Molybdenum | 95-1 | 3067339 | 3047491 | 2985143 | 3033325 | 1.41 | cps |
| Molybdenum | 96-1 | 3345077 | 3320820 | 3342977 | 3336292 | 0.40 | cps |
| Molybdenum | 97-1 | 1898737 | 1874877 | 1895832 | 1889815 | 0.69 | cps |
| Molybdenum | 98-1 | 4834143 | 4798629 | 4853157 | 4828643 | 0.57 | cps |
| Neodymium | 150-1 | 43 | 67 | 53 | 54 | 21.51 | cps |
| Neodymium | 150-2 | 27 | 10 | 7 | 14 | 74.18 | cps |
| Nickel | 60-2 | 109540 | 111078 | 109936 | 110184 | 0.72 | cps |
| Phosphorus | 31-2 | 17300 | 16886 | 17103 | 17096 | 1.21 | cps |
| Potassium | 39-2 | 1639980 | 1616652 | 1603423 | 1620018 | 1.14 | cps |
| Rhodium | 103-1 | 4606615 | 4553945 | 4543015 | 4567858 | 0.74 | cps |
| Rhodium | 103-2 | 2916295 | 2889486 | 2836939 | 2880906 | 1.40 | cps |
| Scandium | 45-1 | 2793789 | 2804986 | 2767176 | 2788651 | 0.70 | cps |
| Scandium | 45-2 | 259568 | 258510 | 259738 | 259272 | 0.26 | cps |
| Selenium | 82-1 | 13752 | 13603 | 13492 | 13616 | 0.96 | cps |
| Selenium | 77-2 | 1600 | 1570 | 1563 | 1578 | 1.24 | cps |
| Selenium | 78-2 | 5811 | 5851 | 5911 | 5858 | 0.86 | cps |
| Silicon | 28-1 | 3592321 | 3560804 | 3574776 | 3575967 | 0.44 | cps |
| Silver | 107-1 | 838869 | 834311 | 849708 | 840963 | 0.94 | cps |
| Silver | 109-1 | 802671 | 793841 | 795312 | 797275 | 0.59 | cps |
| Sodium | 23-2 | 3932694 | 3948714 | 3933171 | 3938193 | 0.23 | cps |
| Strontium | 86-1 | 195045 | 196659 | 195388 | 195697 | 0.43 | cps |
| Strontium | 88-1 | 1683821 | 1710479 | 1701851 | 1698717 | 0.80 | cps |
| Sulfur | 34-1 | 187776 | 187327 | 184571 | 186558 | 0.93 | cps |
| Terbium | 159-1 | 5852528 | 5851927 | 5924876 | 5876444 | 0.71 | cps |
| Terbium | 159-2 | 4497486 | 4436799 | 4486501 | 4473595 | 0.72 | cps |
| Thallium | 203-1 | 559690 | 563005 | 568897 | 563864 | 0.83 | cps |
| Thallium | 205-1 | 1318176 | 1319289 | 1337482 | 1324982 | 0.82 | cps |
| Tin | 118-1 | 496617 | 499870 | 504207 | 500232 | 0.76 | cps |
| Titanium | 47-1 | 796067 | 795982 | 779955 | 790668 | 1.17 | cps |

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On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:22:15 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1702741 | 1701218 | 1733922 | 1712627 | 1.08 | cps |
| Vanadium | 51-2 | 229632 | 228326 | 229460 | 229139 | 0.31 | cps |
| Yttrium | 89-1 | 7015777 | 7051022 | 7140732 | 7069177 | 0.91 | cps |
| Yttrium | 89-2 | 2133720 | 2065952 | 2064322 | 2087998 | 1.90 | cps |
| Zinc | 66-2 | 635490 | 633122 | 626615 | 631742 | 0.73 | cps |
| Zirconium | 90-1 | 1050598 | 1055295 | 1048229 | 1051374 | 0.34 | cps |
| Zirconium | 91-1 | 234453 | 235318 | 233466 | 234413 | 0.40 | cps |

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| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:25:20 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 565153 | 563566 | 558311 | 562343 | 0.64 | cps |
| Antimony | 121-1 | 1149408 | 1158264 | 1152346 | 1153339 | 0.39 | cps |
| Arsenic | 75-2 | 73819 | 73970 | 73591 | 73793 | 0.26 | cps |
| Barium | 135-1 | 1506652 | 1505931 | 1516402 | 1509662 | 0.39 | cps |
| Barium | 137-1 | 2604816 | 2602863 | 2638736 | 2615472 | 0.77 | cps |
| Beryllium | 9-1 | 191860 | 193861 | 194768 | 193496 | 0.77 | cps |
| Bismuth | 209-1 | 3689926 | 3676731 | 3710946 | 3692534 | 0.47 | cps |
| Bismuth | 209-2 | 3384572 | 3461327 | 3480474 | 3442124 | 1.47 | cps |
| Bromine | 81-1 | 24507 | 24454 | 24163 | 24375 | 0.76 | cps |
| Bromine | 81-2 | 180 | 223 | 213 | 206 | 11.04 | cps |
| Cadmium | 108-1 | 24551 | 25312 | 25569 | 25144 | 2.11 | cps |
| Cadmium | 106-1 | 38036 | 37194 | 36636 | 37289 | 1.89 | cps |
| Cadmium | 111-1 | 350202 | 349963 | 344820 | 348328 | 0.87 | cps |
| Calcium | 43-1 | 346464 | 348627 | 348062 | 347717 | 0.32 | cps |
| Calcium | 44-1 | 5360920 | 5532836 | 5410103 | 5434620 | 1.63 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 520353 | 524639 | 516589 | 520527 | 0.77 | cps |
| Cobalt | 59-2 | 824304 | 827234 | 817933 | 823157 | 0.58 | cps |
| Copper | 63-2 | 6316636 | 6167277 | 6274452 | 6252788 | 1.23 | cps |
| Dysprosium | 156-1 | 33 | 40 | 27 | 33 | 20.00 | cps |
| Dysprosium | 156-2 | 77 | 100 | 73 | 83 | 17.44 | cps |
| Erbium | 164-1 | 60 | 70 | 70 | 67 | 8.66 | cps |
| Erbium | 164-2 | 23 | 73 | 63 | 53 | 49.61 | cps |
| Gadolinium | 160-1 | 37 | 47 | 37 | 40 | 14.43 | cps |
| Gadolinium | 160-2 | 300 | 227 | 233 | 253 | 16.01 | cps |
| Holmium | 165-1 | 5772334 | 5726068 | 5819762 | 5772721 | 0.81 | cps |
| Holmium | 165-2 | 4643956 | 4612312 | 4694626 | 4650298 | 0.89 | cps |
| Indium | 115-1 | 4828858 | 4750400 | 4753618 | 4777625 | 0.93 | cps |
| Indium | 115-2 | 1939810 | 1958047 | 1940045 | 1945968 | 0.54 | cps |
| Iron | 56-2 | 24292674 | 24186780 | 24310709 | 24263387 | 0.28 | cps |
| Iron | 57-2 | 627909 | 637929 | 635118 | 633652 | 0.82 | cps |
| Iron | 54-2 | 1337694 | 1397035 | 1383363 | 1372697 | 2.26 | cps |
| Krypton | 83-1 | 370 | 313 | 300 | 328 | 11.34 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:25:20 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4578200 | 4702678 | 4756425 | 4679101 | 1.95 | cps |
| Lead | 207-1 | 4131866 | 4203896 | 4227970 | 4187910 | 1.19 | cps |
| Lead | 208-1 | 18738185 | 18863984 | 19027095 | 18876421 | 0.77 | cps |
| Lithium | 6-1 | 683088 | 683338 | 679473 | 681966 | 0.32 | cps |
| Magnesium | 24-2 | 4761353 | 4781757 | 4747624 | 4763578 | 0.36 | cps |
| Manganese | 55-2 | 4496920 | 4558843 | 4596684 | 4550816 | 1.11 | cps |
| Molybdenum | 94-1 | 4261641 | 4284658 | 4235098 | 4260466 | 0.58 | cps |
| Molybdenum | 95-1 | 6086984 | 6061350 | 6025816 | 6058050 | 0.51 | cps |
| Molybdenum | 96-1 | 6676845 | 6755918 | 6623735 | 6685499 | 0.99 | cps |
| Molybdenum | 97-1 | 3779470 | 3816922 | 3798213 | 3798202 | 0.49 | cps |
| Molybdenum | 98-1 | 9763127 | 9782979 | 9923178 | 9823095 | 0.89 | cps |
| Neodymium | 150-1 | 67 | 100 | 53 | 73 | 32.78 | cps |
| Neodymium | 150-2 | 17 | 23 | 20 | 20 | 16.65 | cps |
| Nickel | 60-2 | 214918 | 215525 | 213425 | 214623 | 0.50 | cps |
| Phosphorus | 31-2 | 32678 | 33042 | 33567 | 33096 | 1.35 | cps |
| Potassium | 39-2 | 3056558 | 3086440 | 3111679 | 3084892 | 0.89 | cps |
| Rhodium | 103-1 | 4514714 | 4537365 | 4510486 | 4520855 | 0.32 | cps |
| Rhodium | 103-2 | 2858379 | 2896188 | 2859660 | 2871409 | 0.75 | cps |
| Scandium | 45-1 | 2730992 | 2663557 | 2764948 | 2719832 | 1.90 | cps |
| Scandium | 45-2 | 250041 | 253122 | 250498 | 251220 | 0.66 | cps |
| Selenium | 82-1 | 27000 | 27086 | 26773 | 26953 | 0.60 | cps |
| Selenium | 77-2 | 2970 | 3127 | 3150 | 3083 | 3.18 | cps |
| Selenium | 78-2 | 11288 | 11505 | 11111 | 11301 | 1.74 | cps |
| Silicon | 28-1 | 5787874 | 5983521 | 5984655 | 5918683 | 1.91 | cps |
| Silver | 107-1 | 1679060 | 1648086 | 1634627 | 1653924 | 1.38 | cps |
| Silver | 109-1 | 1588055 | 1597143 | 1595372 | 1593523 | 0.30 | cps |
| Sodium | 23-2 | 7645804 | 7721567 | 7640248 | 7669207 | 0.59 | cps |
| Strontium | 86-1 | 392323 | 392071 | 389707 | 391367 | 0.37 | cps |
| Strontium | 88-1 | 3448252 | 3460884 | 3444830 | 3451322 | 0.24 | cps |
| Sulfur | 34-1 | 234392 | 236068 | 233525 | 234662 | 0.55 | cps |
| Terbium | 159-1 | 6020056 | 5978372 | 5990764 | 5996397 | 0.36 | cps |
| Terbium | 159-2 | 4639759 | 4649317 | 4503795 | 4597623 | 1.77 | cps |
| Thallium | 203-1 | 1142029 | 1140448 | 1143270 | 1141916 | 0.12 | cps |
| Thallium | 205-1 | 2782782 | 2739954 | 2794077 | 2772271 | 1.03 | cps |
| Tin | 118-1 | 1011918 | 1005172 | 999592 | 1005561 | 0.61 | cps |
| Titanium | 47-1 | 1557738 | 1615851 | 1584404 | 1585998 | 1.83 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:25:20 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 3615156 | 3708453 | 3790586 | 3704732 | 2.37 | cps |
| Vanadium | 51-2 | 446618 | 448519 | 449522 | 448220 | 0.33 | cps |
| Yttrium | 89-1 | 6983679 | 6964948 | 6950830 | 6966486 | 0.24 | cps |
| Yttrium | 89-2 | 2064404 | 2069428 | 2074441 | 2069424 | 0.24 | cps |
| Zinc | 66-2 | 1228647 | 1248232 | 1247031 | 1241303 | 0.88 | cps |
| Zirconium | 90-1 | 2112565 | 2119460 | 2083846 | 2105290 | 0.90 | cps |
| Zirconium | 91-1 | 472826 | 471651 | 473322 | 472600 | 0.18 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:28:16 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1113913 | 1113942 | 1100239 | 1109364 | 0.71 | cps |
| Antimony | 121-1 | 2290735 | 2302107 | 2310702 | 2301181 | 0.44 | cps |
| Arsenic | 75-2 | 147330 | 146185 | 148532 | 147349 | 0.80 | cps |
| Barium | 135-1 | 3049632 | 3079499 | 3107855 | 3078996 | 0.95 | cps |
| Barium | 137-1 | 5252286 | 5236661 | 5381463 | 5290137 | 1.50 | cps |
| Beryllium | 9-1 | 382743 | 383517 | 385311 | 383857 | 0.34 | cps |
| Bismuth | 209-1 | 3656648 | 3730488 | 3719791 | 3702309 | 1.08 | cps |
| Bismuth | 209-2 | 3430026 | 3449173 | 3392398 | 3423865 | 0.84 | cps |
| Bromine | 81-1 | 24764 | 24654 | 24233 | 24551 | 1.14 | cps |
| Bromine | 81-2 | 193 | 170 | 180 | 181 | 6.47 | cps |
| Cadmium | 108-1 | 49581 | 49391 | 50167 | 49713 | 0.81 | cps |
| Cadmium | 106-1 | 70199 | 71535 | 72698 | 71477 | 1.75 | cps |
| Cadmium | 111-1 | 675546 | 683857 | 687385 | 682263 | 0.89 | cps |
| Calcium | 43-1 | 680830 | 686019 | 693489 | 686780 | 0.93 | cps |
| Calcium | 44-1 | 10702091 | 10823502 | 10717382 | 10747658 | 0.62 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1025892 | 1034669 | 1030154 | 1030238 | 0.43 | cps |
| Cobalt | 59-2 | 1622710 | 1629987 | 1625742 | 1626146 | 0.22 | cps |
| Copper | 63-2 | 12331296 | 12382261 | 12376058 | 12363205 | 0.22 | cps |
| Dysprosium | 156-1 | 50 | 60 | 53 | 54 | 9.35 | cps |
| Dysprosium | 156-2 | 180 | 137 | 160 | 159 | 13.65 | cps |
| Erbium | 164-1 | 87 | 120 | 80 | 96 | 22.43 | cps |
| Erbium | 164-2 | 53 | 67 | 70 | 63 | 13.93 | cps |
| Gadolinium | 160-1 | 40 | 53 | 70 | 54 | 27.61 | cps |
| Gadolinium | 160-2 | 313 | 270 | 330 | 304 | 10.17 | cps |
| Holmium | 165-1 | 5890829 | 5816712 | 5927716 | 5878419 | 0.96 | cps |
| Holmium | 165-2 | 4699716 | 4706731 | 4705435 | 4703960 | 0.08 | cps |
| Indium | 115-1 | 4696643 | 4696079 | 4826611 | 4739778 | 1.59 | cps |
| Indium | 115-2 | 1939114 | 1952793 | 1939120 | 1943676 | 0.41 | cps |
| Iron | 56-2 | 48412323 | 48150014 | 48131283 | 48231207 | 0.33 | cps |
| Iron | 57-2 | 1258141 | 1260787 | 1253698 | 1257542 | 0.28 | cps |
| Iron | 54-2 | 2660176 | 2706180 | 2666230 | 2677529 | 0.93 | cps |
| Krypton | 83-1 | 327 | 353 | 303 | 328 | 7.63 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:28:16 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 9233962 | 9362032 | 9381187 | 9325727 | 0.86 | cps |
| Lead | 207-1 | 8240329 | 8212352 | 8349929 | 8267537 | 0.88 | cps |
| Lead | 208-1 | 37454327 | 37786580 | 37915028 | 37718645 | 0.63 | cps |
| Lithium | 6-1 | 688213 | 686077 | 684794 | 686362 | 0.25 | cps |
| Magnesium | 24-2 | 9452253 | 9503290 | 9421581 | 9459041 | 0.44 | cps |
| Manganese | 55-2 | 9089394 | 9051863 | 9125874 | 9089044 | 0.41 | cps |
| Molybdenum | 94-1 | 8357039 | 8424702 | 8577087 | 8452942 | 1.33 | cps |
| Molybdenum | 95-1 | 11906663 | 12176475 | 12239888 | 12107675 | 1.46 | cps |
| Molybdenum | 96-1 | 13016045 | 13534943 | 13346994 | 13299327 | 1.98 | cps |
| Molybdenum | 97-1 | 7459976 | 7537818 | 7632335 | 7543376 | 1.14 | cps |
| Molybdenum | 98-1 | 19424988 | 19196982 | 19615918 | 19412629 | 1.08 | cps |
| Neodymium | 150-1 | 150 | 137 | 173 | 153 | 12.10 | cps |
| Neodymium | 150-2 | 53 | 20 | 47 | 40 | 44.09 | cps |
| Nickel | 60-2 | 424647 | 423525 | 427317 | 425163 | 0.46 | cps |
| Phosphorus | 31-2 | 65898 | 66400 | 64385 | 65561 | 1.60 | cps |
| Potassium | 39-2 | 6167009 | 6171098 | 6114060 | 6150722 | 0.52 | cps |
| Rhodium | 103-1 | 4424568 | 4464606 | 4531014 | 4473396 | 1.20 | cps |
| Rhodium | 103-2 | 2868081 | 2869029 | 2857712 | 2864941 | 0.22 | cps |
| Scandium | 45-1 | 2807943 | 2773973 | 2697681 | 2759866 | 2.05 | cps |
| Scandium | 45-2 | 252084 | 253306 | 254225 | 253205 | 0.42 | cps |
| Selenium | 82-1 | 51227 | 52206 | 52862 | 52098 | 1.58 | cps |
| Selenium | 77-2 | 6428 | 6151 | 6035 | 6205 | 3.26 | cps |
| Selenium | 78-2 | 22057 | 21235 | 20932 | 21408 | 2.72 | cps |
| Silicon | 28-1 | 9347958 | 9760424 | 9655861 | 9588081 | 2.24 | cps |
| Silver | 107-1 | 3277531 | 3281345 | 3291460 | 3283446 | 0.22 | cps |
| Silver | 109-1 | 3102940 | 3109648 | 3169837 | 3127475 | 1.18 | cps |
| Sodium | 23-2 | 15221571 | 15352512 | 15199349 | 15257811 | 0.54 | cps |
| Strontium | 86-1 | 771576 | 779336 | 785218 | 778710 | 0.88 | cps |
| Strontium | 88-1 | 6756064 | 6868826 | 6869765 | 6831551 | 0.96 | cps |
| Sulfur | 34-1 | 323958 | 319662 | 318846 | 320822 | 0.86 | cps |
| Terbium | 159-1 | 5889706 | 6063074 | 6032956 | 5995246 | 1.55 | cps |
| Terbium | 159-2 | 4633281 | 4696315 | 4697480 | 4675692 | 0.79 | cps |
| Thallium | 203-1 | 2347717 | 2344445 | 2391782 | 2361315 | 1.12 | cps |
| Thallium | 205-1 | 5573548 | 5586079 | 5651689 | 5603772 | 0.75 | cps |
| Tin | 118-1 | 2002044 | 2024021 | 2031298 | 2019121 | 0.75 | cps |
| Titanium | 47-1 | 3118816 | 3135775 | 3176423 | 3143671 | 0.94 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:28:16 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7438061 | 7437568 | 7600642 | 7492090 | 1.25 | cps |
| Vanadium | 51-2 | 897501 | 897921 | 895486 | 896969 | 0.15 | cps |
| Yttrium | 89-1 | 6924454 | 6926459 | 7189068 | 7013327 | 2.17 | cps |
| Yttrium | 89-2 | 2119619 | 2139214 | 2076601 | 2111811 | 1.52 | cps |
| Zinc | 66-2 | 2388036 | 2430857 | 2433265 | 2417386 | 1.05 | cps |
| Zirconium | 90-1 | 4097784 | 4174185 | 4216404 | 4162791 | 1.44 | cps |
| Zirconium | 91-1 | 931187 | 944131 | 953398 | 942905 | 1.18 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:31:06 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2297929 | 2304261 | 2307625 | 2303271 | 0.21 | cps |
| Antimony | 121-1 | 4682496 | 4653660 | 4669726 | 4668627 | 0.31 | cps |
| Arsenic | 75-2 | 301401 | 298316 | 295059 | 298259 | 1.06 | cps |
| Barium | 135-1 | 6091084 | 6367256 | 6335584 | 6264641 | 2.41 | cps |
| Barium | 137-1 | 10515332 | 10656688 | 10769781 | 10647267 | 1.20 | cps |
| Beryllium | 9-1 | 738456 | 744711 | 740586 | 741251 | 0.43 | cps |
| Bismuth | 209-1 | 3630466 | 3733444 | 3608218 | 3657376 | 1.83 | cps |
| Bismuth | 209-2 | 3408756 | 3432253 | 3400410 | 3413806 | 0.48 | cps |
| Bromine | 81-1 | 25422 | 25766 | 26200 | 25796 | 1.51 | cps |
| Bromine | 81-2 | 133 | 200 | 163 | 166 | 20.17 | cps |
| Cadmium | 108-1 | 97716 | 100257 | 99660 | 99211 | 1.34 | cps |
| Cadmium | 106-1 | 138517 | 142428 | 140244 | 140397 | 1.40 | cps |
| Cadmium | 111-1 | 1343768 | 1362130 | 1362941 | 1356280 | 0.80 | cps |
| Calcium | 43-1 | 1320273 | 1330977 | 1334803 | 1328684 | 0.57 | cps |
| Calcium | 44-1 | 21743125 | 21958333 | 22206099 | 21969186 | 1.05 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2097789 | 2075146 | 2062568 | 2078501 | 0.86 | cps |
| Cobalt | 59-2 | 3358571 | 3326004 | 3348055 | 3344210 | 0.50 | cps |
| Copper | 63-2 | 25166406 | 24908235 | 24966849 | 25013830 | 0.54 | cps |
| Dysprosium | 156-1 | 143 | 113 | 100 | 119 | 18.67 | cps |
| Dysprosium | 156-2 | 357 | 333 | 390 | 360 | 7.91 | cps |
| Erbium | 164-1 | 83 | 130 | 127 | 113 | 22.97 | cps |
| Erbium | 164-2 | 113 | 140 | 87 | 113 | 23.53 | cps |
| Gadolinium | 160-1 | 100 | 90 | 117 | 102 | 13.18 | cps |
| Gadolinium | 160-2 | 300 | 300 | 303 | 301 | 0.64 | cps |
| Holmium | 165-1 | 5913838 | 6125933 | 5995104 | 6011625 | 1.78 | cps |
| Holmium | 165-2 | 4877078 | 4772117 | 4823968 | 4824388 | 1.09 | cps |
| Indium | 115-1 | 4795377 | 4772049 | 4764980 | 4777469 | 0.33 | cps |
| Indium | 115-2 | 1949161 | 1914664 | 1927645 | 1930490 | 0.90 | cps |
| Iron | 56-2 | 99401082 | 98977939 | 98535862 | 98971627 | 0.44 | cps |
| Iron | 57-2 | 2466198 | 2471703 | 2456706 | 2464869 | 0.31 | cps |
| Iron | 54-2 | 5519794 | 5421776 | 5402091 | 5447887 | 1.16 | cps |
| Krypton | 83-1 | 307 | 303 | 420 | 343 | 19.34 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:31:06 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 18826629 | 18977092 | 18801875 | 18868532 | 0.50 | cps |
| Lead | 207-1 | 16815648 | 16769160 | 16835335 | 16806714 | 0.20 | cps |
| Lead | 208-1 | 75195869 | 75995470 | 75698866 | 75630068 | 0.53 | cps |
| Lithium | 6-1 | 696056 | 688948 | 672720 | 685908 | 1.74 | cps |
| Magnesium | 24-2 | 19272083 | 19261413 | 19327701 | 19287066 | 0.18 | cps |
| Manganese | 55-2 | 18496717 | 18777903 | 18549695 | 18608105 | 0.80 | cps |
| Molybdenum | 94-1 | 16890410 | 17414068 | 17429657 | 17244712 | 1.78 | cps |
| Molybdenum | 95-1 | 24120965 | 25064128 | 25123427 | 24769507 | 2.27 | cps |
| Molybdenum | 96-1 | 26605738 | 27320171 | 26829941 | 26918617 | 1.36 | cps |
| Molybdenum | 97-1 | 15151394 | 15571623 | 15390238 | 15371085 | 1.37 | cps |
| Molybdenum | 98-1 | 38962829 | 39897951 | 40119764 | 39660181 | 1.55 | cps |
| Neodymium | 150-1 | 383 | 327 | 303 | 338 | 12.18 | cps |
| Neodymium | 150-2 | 97 | 97 | 117 | 103 | 11.17 | cps |
| Nickel | 60-2 | 862477 | 857662 | 849056 | 856398 | 0.79 | cps |
| Phosphorus | 31-2 | 132572 | 132881 | 132575 | 132676 | 0.13 | cps |
| Potassium | 39-2 | 12584697 | 12338134 | 12524392 | 12482408 | 1.03 | cps |
| Rhodium | 103-1 | 4483747 | 4561367 | 4530470 | 4525195 | 0.86 | cps |
| Rhodium | 103-2 | 2905961 | 2886433 | 2876608 | 2889667 | 0.52 | cps |
| Scandium | 45-1 | 2830912 | 2774702 | 2819757 | 2808457 | 1.06 | cps |
| Scandium | 45-2 | 259579 | 263405 | 259639 | 260874 | 0.84 | cps |
| Selenium | 82-1 | 101565 | 104179 | 102337 | 102694 | 1.31 | cps |
| Selenium | 77-2 | 12148 | 12602 | 11965 | 12238 | 2.68 | cps |
| Selenium | 78-2 | 42016 | 41418 | 41167 | 41534 | 1.05 | cps |
| Silicon | 28-1 | 18380855 | 18613432 | 18671946 | 18555411 | 0.83 | cps |
| Silver | 107-1 | 6513090 | 6548061 | 6540709 | 6533953 | 0.28 | cps |
| Silver | 109-1 | 6209779 | 6221532 | 6231179 | 6220830 | 0.17 | cps |
| Sodium | 23-2 | 31061322 | 31020722 | 31385390 | 31155811 | 0.64 | cps |
| Strontium | 86-1 | 1563308 | 1591286 | 1610390 | 1588328 | 1.49 | cps |
| Strontium | 88-1 | 13690631 | 13930312 | 14063338 | 13894760 | 1.36 | cps |
| Sulfur | 34-1 | 509072 | 521702 | 513875 | 514883 | 1.24 | cps |
| Terbium | 159-1 | 6075129 | 6207038 | 6136455 | 6139541 | 1.08 | cps |
| Terbium | 159-2 | 4795082 | 4709666 | 4680993 | 4728581 | 1.26 | cps |
| Thallium | 203-1 | 4691297 | 4708351 | 4827833 | 4742494 | 1.57 | cps |
| Thallium | 205-1 | 11269452 | 11455155 | 11279092 | 11334566 | 0.92 | cps |
| Tin | 118-1 | 3953673 | 4078663 | 4119712 | 4050683 | 2.14 | cps |
| Titanium | 47-1 | 6339826 | 6409660 | 6421292 | 6390259 | 0.69 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:31:06 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 14994562 | 15218779 | 14852151 | 15021831 | 1.23 | cps |
| Vanadium | 51-2 | 1814636 | 1824628 | 1838287 | 1825850 | 0.65 | cps |
| Yttrium | 89-1 | 7202468 | 7163686 | 7205451 | 7190535 | 0.32 | cps |
| Yttrium | 89-2 | 2134405 | 2140583 | 2133035 | 2136008 | 0.19 | cps |
| Zinc | 66-2 | 4826049 | 4804509 | 4794359 | 4808306 | 0.34 | cps |
| Zirconium | 90-1 | 8337137 | 8603931 | 8606422 | 8515830 | 1.82 | cps |
| Zirconium | 91-1 | 1867523 | 1913445 | 1891496 | 1890822 | 1.21 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:33:50 | DataFile Name : | 013CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 12422176 | 12417055 | 12416756 | 12418662 | 0.02 | cps |
| Antimony | 121-1 | 1950 | 2357 | 2490 | 2266 | 12.42 | cps |
| Arsenic | 75-2 | 160 | 137 | 197 | 164 | 18.39 | cps |
| Barium | 135-1 | 2324 | 2717 | 2880 | 2640 | 10.84 | cps |
| Barium | 137-1 | 4244 | 4704 | 4908 | 4619 | 7.36 | cps |
| Beryllium | 9-1 | 149 | 94 | 94 | 112 | 28.50 | cps |
| Bismuth | 209-1 | 4157925 | 3633421 | 3560017 | 3783788 | 8.62 | cps |
| Bismuth | 209-2 | 3258493 | 3179637 | 3162800 | 3200310 | 1.60 | cps |
| Bromine | 81-1 | 26210 | 27542 | 27826 | 27193 | 3.17 | cps |
| Bromine | 81-2 | 260 | 203 | 223 | 229 | 12.56 | cps |
| Cadmium | 108-1 | 47 | 47 | 47 | 47 | 0.00 | cps |
| Cadmium | 106-1 | 2304 | 2024 | 1957 | 2095 | 8.78 | cps |
| Cadmium | 111-1 | 1833 | 1620 | 1604 | 1686 | 7.59 | cps |
| Calcium | 43-1 | 5902361 | 6885919 | 6913421 | 6567234 | 8.77 | cps |
| Calcium | 44-1 | 100372535 | 114065875 | 114455265 | 109631225 | 7.32 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 20284 | 19846 | 19446 | 19859 | 2.11 | cps |
| Cobalt | 59-2 | 9336 | 9727 | 9610 | 9558 | 2.10 | cps |
| Copper | 63-2 | 8673 | 9126 | 8963 | 8921 | 2.58 | cps |
| Dysprosium | 156-1 | 137 | 210 | 187 | 178 | 21.07 | cps |
| Dysprosium | 156-2 | 143 | 117 | 137 | 132 | 10.50 | cps |
| Erbium | 164-1 | 193 | 257 | 287 | 246 | 19.40 | cps |
| Erbium | 164-2 | 193 | 190 | 157 | 180 | 11.26 | cps |
| Gadolinium | 160-1 | 170 | 203 | 200 | 191 | 9.61 | cps |
| Gadolinium | 160-2 | 430 | 380 | 400 | 403 | 6.24 | cps |
| Holmium | 165-1 | 7167192 | 6446897 | 6268696 | 6627595 | 7.18 | cps |
| Holmium | 165-2 | 4759173 | 4790208 | 4667518 | 4738966 | 1.35 | cps |
| Indium | 115-1 | 5797585 | 5090150 | 5005334 | 5297690 | 8.21 | cps |
| Indium | 115-2 | 2011905 | 2047090 | 1923644 | 1994213 | 3.19 | cps |
| Iron | 56-2 | 515182819 | 508399272 | 508478606 | 510686899 | 0.76 | cps |
| Iron | 57-2 | 12972058 | 12768821 | 12727220 | 12822700 | 1.02 | cps |
| Iron | 54-2 | 28219750 | 28165805 | 27703100 | 28029552 | 1.01 | cps |
| Krypton | 83-1 | 350 | 450 | 337 | 379 | 16.35 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:33:50 | DataFile Name : | 013CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8493 | 9573 | 10157 | 9408 | 8.98 | cps |
| Lead | 207-1 | 7879 | 9010 | 9070 | 8653 | 7.75 | cps |
| Lead | 208-1 | 35101 | 39620 | 40437 | 38386 | 7.49 | cps |
| Lithium | 6-1 | 778552 | 671212 | 653708 | 701157 | 9.64 | cps |
| Magnesium | 24-2 | 104702675 | 103413205 | 103516208 | 103877363 | 0.69 | cps |
| Manganese | 55-2 | 13173 | 13286 | 12739 | 13066 | 2.21 | cps |
| Molybdenum | 94-1 | 3911 | 4694 | 4757 | 4454 | 10.59 | cps |
| Molybdenum | 95-1 | 3110 | 3981 | 4254 | 3782 | 15.79 | cps |
| Molybdenum | 96-1 | 14548 | 16987 | 17564 | 16366 | 9.78 | cps |
| Molybdenum | 97-1 | 2357 | 2560 | 2837 | 2585 | 9.32 | cps |
| Molybdenum | 98-1 | 5181 | 5801 | 6341 | 5775 | 10.06 | cps |
| Neodymium | 150-1 | 100 | 70 | 120 | 97 | 26.03 | cps |
| Neodymium | 150-2 | 77 | 77 | 107 | 87 | 19.98 | cps |
| Nickel | 60-2 | 3961 | 3844 | 3714 | 3839 | 3.21 | cps |
| Phosphorus | 31-2 | 367 | 363 | 380 | 370 | 2.38 | cps |
| Potassium | 39-2 | 68143059 | 67913881 | 67887287 | 67981409 | 0.21 | cps |
| Rhodium | 103-1 | 5209619 | 4641354 | 4516434 | 4789136 | 7.71 | cps |
| Rhodium | 103-2 | 2869941 | 2896030 | 2761074 | 2842348 | 2.52 | cps |
| Scandium | 45-1 | 3432071 | 3048185 | 2979334 | 3153197 | 7.74 | cps |
| Scandium | 45-2 | 283287 | 285351 | 281619 | 283419 | 0.66 | cps |
| Selenium | 82-1 | 367 | 332 | 413 | 371 | 10.99 | cps |
| Selenium | 77-2 | 7 | 7 | 10 | 8 | 24.71 | cps |
| Selenium | 78-2 | 633 | 663 | 680 | 659 | 3.59 | cps |
| Silicon | 28-1 | 875565 | 903282 | 1189840 | 989562 | 17.58 | cps |
| Silver | 107-1 | 537 | 670 | 867 | 691 | 24.02 | cps |
| Silver | 109-1 | 560 | 680 | 737 | 659 | 13.69 | cps |
| Sodium | 23-2 | 165932418 | 162859754 | 163089294 | 163960489 | 1.04 | cps |
| Strontium | 86-1 | 5604 | 6048 | 6168 | 5940 | 5.00 | cps |
| Strontium | 88-1 | 44037 | 50115 | 49965 | 48039 | 7.22 | cps |
| Sulfur | 34-1 | 105868 | 113897 | 118838 | 112868 | 5.80 | cps |
| Terbium | 159-1 | 7484080 | 6585131 | 6392461 | 6820557 | 8.54 | cps |
| Terbium | 159-2 | 4816432 | 4769527 | 4627761 | 4737906 | 2.07 | cps |
| Thallium | 203-1 | 643 | 667 | 697 | 669 | 4.00 | cps |
| Thallium | 205-1 | 1463 | 1550 | 1613 | 1542 | 4.88 | cps |
| Tin | 118-1 | 1543 | 1583 | 1583 | 1570 | 1.47 | cps |
| Titanium | 47-1 | 360 | 437 | 620 | 472 | 28.29 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:33:50 | DataFile Name : | 013CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 770 | 707 | 887 | 788 | 11.59 | cps |
| Vanadium | 51-2 | 633 | 627 | 537 | 599 | 9.02 | cps |
| Yttrium | 89-1 | 8817947 | 7748764 | 7595852 | 8054188 | 8.27 | cps |
| Yttrium | 89-2 | 2300587 | 2265081 | 2220789 | 2262152 | 1.77 | cps |
| Zinc | 66-2 | 8923 | 9383 | 8873 | 9059 | 3.11 | cps |
| Zirconium | 90-1 | 4011 | 4481 | 4561 | 4351 | 6.83 | cps |
| Zirconium | 91-1 | 840 | 960 | 1037 | 946 | 10.48 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:58:50 | DataFile Name : | 015ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 60161 | 60361 | 59997 | 60173 | 0.30 | cps |
| Antimony | 121-1 | 958117 | 987215 | 989162 | 978164 | 1.78 | cps |
| Arsenic | 75-2 | 65514 | 65413 | 66877 | 65935 | 1.24 | cps |
| Barium | 135-1 | 128957 | 129163 | 129933 | 129351 | 0.40 | cps |
| Barium | 137-1 | 223142 | 222986 | 225457 | 223862 | 0.62 | cps |
| Beryllium | 9-1 | 69151 | 67580 | 68569 | 68433 | 1.16 | cps |
| Bismuth | 209-1 | 3748970 | 3946767 | 3846162 | 3847299 | 2.57 | cps |
| Bismuth | 209-2 | 3541079 | 3537749 | 3498435 | 3525754 | 0.67 | cps |
| Bromine | 81-1 | 28097 | 29934 | 29419 | 29150 | 3.25 | cps |
| Bromine | 81-2 | 327 | 260 | 260 | 282 | 13.64 | cps |
| Cadmium | 108-1 | 9957 | 9560 | 9083 | 9533 | 4.59 | cps |
| Cadmium | 106-1 | 15138 | 15302 | 15528 | 15323 | 1.28 | cps |
| Cadmium | 111-1 | 145822 | 150917 | 152487 | 149742 | 2.33 | cps |
| Calcium | 43-1 | 27772 | 27973 | 28123 | 27956 | 0.63 | cps |
| Calcium | 44-1 | 456842 | 474029 | 474072 | 468314 | 2.12 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 234175 | 233984 | 236507 | 234889 | 0.60 | cps |
| Cobalt | 59-2 | 370797 | 371974 | 374929 | 372567 | 0.57 | cps |
| Copper | 63-2 | 259217 | 259117 | 261068 | 259801 | 0.42 | cps |
| Dysprosium | 156-1 | 10 | 17 | 7 | 11 | 45.82 | cps |
| Dysprosium | 156-2 | 17 | 3 | 10 | 10 | 66.70 | cps |
| Erbium | 164-1 | 47 | 30 | 23 | 33 | 36.07 | cps |
| Erbium | 164-2 | 63 | 27 | 43 | 44 | 41.30 | cps |
| Gadolinium | 160-1 | 47 | 23 | 20 | 30 | 48.44 | cps |
| Gadolinium | 160-2 | 250 | 287 | 293 | 277 | 8.43 | cps |
| Holmium | 165-1 | 6288693 | 6041465 | 6133272 | 6154477 | 2.03 | cps |
| Holmium | 165-2 | 4725527 | 4803266 | 4761270 | 4763354 | 0.82 | cps |
| Indium | 115-1 | 5282678 | 5221574 | 5118463 | 5207572 | 1.59 | cps |
| Indium | 115-2 | 2114864 | 2140948 | 2097273 | 2117695 | 1.04 | cps |
| Iron | 56-2 | 4233549 | 4228289 | 4251612 | 4237817 | 0.29 | cps |
| Iron | 57-2 | 110795 | 110476 | 111480 | 110917 | 0.46 | cps |
| Iron | 54-2 | 249429 | 247428 | 251389 | 249415 | 0.79 | cps |
| Krypton | 83-1 | 347 | 417 | 443 | 402 | 12.41 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:58:50 | DataFile Name : | 015ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 755778 | 782642 | 780007 | 772809 | 1.92 | cps |
| Lead | 207-1 | 648807 | 650276 | 650165 | 649749 | 0.13 | cps |
| Lead | 208-1 | 2984874 | 3018877 | 3012060 | 3005270 | 0.60 | cps |
| Lithium | 6-1 | 579470 | 607333 | 619283 | 602029 | 3.39 | cps |
| Magnesium | 24-2 | 231744 | 233730 | 234674 | 233383 | 0.64 | cps |
| Manganese | 55-2 | 186663 | 187356 | 187777 | 187265 | 0.30 | cps |
| Molybdenum | 94-1 | 227 | 240 | 213 | 227 | 5.88 | cps |
| Molybdenum | 95-1 | 107 | 93 | 120 | 107 | 12.50 | cps |
| Molybdenum | 96-1 | 333 | 363 | 340 | 346 | 4.56 | cps |
| Molybdenum | 97-1 | 70 | 83 | 97 | 83 | 16.00 | cps |
| Molybdenum | 98-1 | 200 | 213 | 147 | 187 | 18.90 | cps |
| Neodymium | 150-1 | 13 | 13 | 10 | 12 | 15.73 | cps |
| Neodymium | 150-2 | 7 | 0 | 7 | 4 | 86.60 | cps |
| Nickel | 60-2 | 96401 | 96746 | 97826 | 96991 | 0.77 | cps |
| Phosphorus | 31-2 | 320 | 323 | 403 | 349 | 13.52 | cps |
| Potassium | 39-2 | 605956 | 606345 | 612082 | 608128 | 0.56 | cps |
| Rhodium | 103-1 | 5063575 | 4873124 | 4911407 | 4949368 | 2.04 | cps |
| Rhodium | 103-2 | 3203682 | 3108430 | 3141116 | 3151076 | 1.54 | cps |
| Scandium | 45-1 | 2882287 | 2902818 | 2936872 | 2907326 | 0.95 | cps |
| Scandium | 45-2 | 283948 | 285625 | 287822 | 285799 | 0.68 | cps |
| Selenium | 82-1 | 23550 | 23480 | 23846 | 23625 | 0.82 | cps |
| Selenium | 77-2 | 2667 | 2937 | 2927 | 2844 | 5.38 | cps |
| Selenium | 78-2 | 10254 | 10617 | 10717 | 10529 | 2.32 | cps |
| Silicon | 28-1 | 1236663 | 1213770 | 1224180 | 1224871 | 0.94 | cps |
| Silver | 107-1 | 340729 | 348655 | 350907 | 346764 | 1.54 | cps |
| Silver | 109-1 | 326782 | 332081 | 330833 | 329898 | 0.84 | cps |
| Sodium | 23-2 | 660211 | 663575 | 664286 | 662691 | 0.33 | cps |
| Strontium | 86-1 | 983 | 1137 | 1110 | 1077 | 7.61 | cps |
| Strontium | 88-1 | 3741 | 3570 | 3877 | 3729 | 4.12 | cps |
| Sulfur | 34-1 | 114223 | 115012 | 115190 | 114808 | 0.45 | cps |
| Terbium | 159-1 | 6342307 | 6153091 | 6216407 | 6237269 | 1.54 | cps |
| Terbium | 159-2 | 4747595 | 4781732 | 4808208 | 4779178 | 0.64 | cps |
| Thallium | 203-1 | 936284 | 928094 | 934856 | 933078 | 0.47 | cps |
| Thallium | 205-1 | 2260248 | 2331224 | 2352216 | 2314563 | 2.08 | cps |
| Tin | 118-1 | 857 | 880 | 907 | 881 | 2.84 | cps |
| Titanium | 47-1 | 100 | 50 | 70 | 73 | 34.32 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 14:58:50 | DataFile Name : | 015ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 33 | 7 | 17 | 19 | 71.30 | cps |
| Vanadium | 51-2 | 198085 | 197152 | 201406 | 198881 | 1.12 | cps |
| Yttrium | 89-1 | 7473717 | 7577219 | 7540734 | 7530557 | 0.70 | cps |
| Yttrium | 89-2 | 2301696 | 2252936 | 2296137 | 2283590 | 1.17 | cps |
| Zinc | 66-2 | 97402 | 96057 | 98274 | 97244 | 1.15 | cps |
| Zirconium | 90-1 | 423 | 457 | 493 | 458 | 7.65 | cps |
| Zirconium | 91-1 | 173 | 173 | 150 | 166 | 8.14 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:17:08 | DataFile Name : | 019LLIC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3007 | 2877 | 2970 | 2951 | 2.27 | cps |
| Antimony | 121-1 | 10147 | 10054 | 10587 | 10263 | 2.78 | cps |
| Arsenic | 75-2 | 433 | 370 | 300 | 368 | 18.13 | cps |
| Barium | 135-1 | 12863 | 13163 | 13029 | 13018 | 1.16 | cps |
| Barium | 137-1 | 21840 | 22692 | 22054 | 22195 | 2.00 | cps |
| Beryllium | 9-1 | 795 | 792 | 838 | 808 | 3.23 | cps |
| Bismuth | 209-1 | 3865059 | 3870886 | 3795755 | 3843900 | 1.09 | cps |
| Bismuth | 209-2 | 3424635 | 3415312 | 3421992 | 3420646 | 0.14 | cps |
| Bromine | 81-1 | 28264 | 27552 | 27977 | 27931 | 1.28 | cps |
| Bromine | 81-2 | 243 | 210 | 250 | 234 | 9.14 | cps |
| Cadmium | 108-1 | 97 | 143 | 153 | 131 | 23.07 | cps |
| Cadmium | 106-1 | 1863 | 1937 | 1810 | 1870 | 3.40 | cps |
| Cadmium | 111-1 | 2894 | 2792 | 2550 | 2745 | 6.43 | cps |
| Calcium | 43-1 | 7705 | 7802 | 7472 | 7660 | 2.22 | cps |
| Calcium | 44-1 | 130321 | 132175 | 131310 | 131269 | 0.71 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5888 | 5795 | 5651 | 5778 | 2.06 | cps |
| Cobalt | 59-2 | 4127 | 3857 | 4011 | 3998 | 3.39 | cps |
| Copper | 63-2 | 6845 | 6712 | 7142 | 6899 | 3.19 | cps |
| Dysprosium | 156-1 | 7 | 10 | 10 | 9 | 21.63 | cps |
| Dysprosium | 156-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Erbium | 164-1 | 37 | 47 | 50 | 44 | 15.61 | cps |
| Erbium | 164-2 | 30 | 30 | 40 | 33 | 17.32 | cps |
| Gadolinium | 160-1 | 33 | 10 | 40 | 28 | 56.71 | cps |
| Gadolinium | 160-2 | 270 | 210 | 293 | 258 | 16.68 | cps |
| Holmium | 165-1 | 6152030 | 6107594 | 6121682 | 6127102 | 0.37 | cps |
| Holmium | 165-2 | 4684618 | 4641516 | 4647864 | 4657999 | 0.50 | cps |
| Indium | 115-1 | 5213804 | 5212208 | 5238413 | 5221475 | 0.28 | cps |
| Indium | 115-2 | 2085088 | 2057107 | 2036644 | 2059613 | 1.18 | cps |
| Iron | 56-2 | 142323 | 137506 | 139685 | 139838 | 1.72 | cps |
| Iron | 57-2 | 4487 | 4364 | 4334 | 4395 | 1.85 | cps |
| Iron | 54-2 | 9290 | 8979 | 9300 | 9190 | 1.98 | cps |
| Krypton | 83-1 | 393 | 390 | 330 | 371 | 9.60 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:17:08 | DataFile Name : | 019LLIC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4501 | 4591 | 4537 | 4543 | 1.00 | cps |
| Lead | 207-1 | 3954 | 4094 | 4157 | 4068 | 2.56 | cps |
| Lead | 208-1 | 17871 | 18559 | 18568 | 18333 | 2.18 | cps |
| Lithium | 6-1 | 605989 | 606113 | 599978 | 604027 | 0.58 | cps |
| Magnesium | 24-2 | 109019 | 106233 | 105190 | 106814 | 1.85 | cps |
| Manganese | 55-2 | 3984 | 3954 | 3831 | 3923 | 2.07 | cps |
| Molybdenum | 94-1 | 10857 | 11131 | 10871 | 10953 | 1.41 | cps |
| Molybdenum | 95-1 | 13500 | 13373 | 13219 | 13364 | 1.05 | cps |
| Molybdenum | 96-1 | 14914 | 15385 | 15221 | 15174 | 1.57 | cps |
| Molybdenum | 97-1 | 8156 | 8599 | 8259 | 8338 | 2.78 | cps |
| Molybdenum | 98-1 | 21433 | 21516 | 21800 | 21583 | 0.89 | cps |
| Neodymium | 150-1 | 0 | 7 | 7 | 4 | 86.60 | cps |
| Neodymium | 150-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Nickel | 60-2 | 1203 | 1230 | 1197 | 1210 | 1.46 | cps |
| Phosphorus | 31-2 | 580 | 647 | 590 | 606 | 5.94 | cps |
| Potassium | 39-2 | 197328 | 195616 | 192764 | 195236 | 1.18 | cps |
| Rhodium | 103-1 | 4965638 | 4931408 | 5011343 | 4969463 | 0.81 | cps |
| Rhodium | 103-2 | 3206314 | 3054216 | 3131046 | 3130525 | 2.43 | cps |
| Scandium | 45-1 | 2931266 | 2920546 | 2863032 | 2904948 | 1.26 | cps |
| Scandium | 45-2 | 286541 | 283828 | 282250 | 284206 | 0.76 | cps |
| Selenium | 82-1 | 764 | 774 | 805 | 781 | 2.73 | cps |
| Selenium | 77-2 | 77 | 67 | 33 | 59 | 38.54 | cps |
| Selenium | 78-2 | 920 | 960 | 920 | 933 | 2.47 | cps |
| Silicon | 28-1 | 1178565 | 1242878 | 1206834 | 1209426 | 2.67 | cps |
| Silver | 107-1 | 7242 | 7148 | 6968 | 7120 | 1.95 | cps |
| Silver | 109-1 | 6758 | 7125 | 6725 | 6869 | 3.23 | cps |
| Sodium | 23-2 | 187878 | 184417 | 182966 | 185087 | 1.36 | cps |
| Strontium | 86-1 | 2247 | 2320 | 2470 | 2346 | 4.85 | cps |
| Strontium | 88-1 | 15555 | 15585 | 15311 | 15484 | 0.97 | cps |
| Sulfur | 34-1 | 116080 | 117198 | 115163 | 116147 | 0.88 | cps |
| Terbium | 159-1 | 6411763 | 6380106 | 6358869 | 6383579 | 0.42 | cps |
| Terbium | 159-2 | 4810968 | 4650800 | 4704089 | 4721952 | 1.73 | cps |
| Thallium | 203-1 | 5044 | 4851 | 5054 | 4983 | 2.30 | cps |
| Thallium | 205-1 | 11468 | 11488 | 12009 | 11655 | 2.63 | cps |
| Tin | 118-1 | 22848 | 23132 | 23292 | 23091 | 0.97 | cps |
| Titanium | 47-1 | 3500 | 3410 | 3417 | 3443 | 1.46 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:17:08 | DataFile Name : | 019LLIC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 14792 | 15172 | 14688 | 14884 | 1.71 | cps |
| Vanadium | 51-2 | 10434 | 10230 | 9843 | 10169 | 2.95 | cps |
| Yttrium | 89-1 | 7501871 | 7655745 | 7564405 | 7574007 | 1.02 | cps |
| Yttrium | 89-2 | 2296875 | 2237286 | 2226609 | 2253590 | 1.68 | cps |
| Zinc | 66-2 | 2984 | 3084 | 2894 | 2987 | 3.18 | cps |
| Zirconium | 90-1 | 9256 | 9710 | 9510 | 9492 | 2.40 | cps |
| Zirconium | 91-1 | 2120 | 2047 | 2014 | 2060 | 2.65 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:20:36 | DataFile Name : | 020_ICB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 480 | 397 | 457 | 444 | 9.67 | cps |
| Antimony | 121-1 | 87 | 53 | 57 | 66 | 28.01 | cps |
| Arsenic | 75-2 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Barium | 135-1 | 13 | 20 | 17 | 17 | 20.01 | cps |
| Barium | 137-1 | 40 | 37 | 33 | 37 | 9.10 | cps |
| Beryllium | 9-1 | 17 | 34 | 41 | 31 | 39.09 | cps |
| Bismuth | 209-1 | 3800521 | 3866120 | 3896318 | 3854320 | 1.27 | cps |
| Bismuth | 209-2 | 3557811 | 3533545 | 3580517 | 3557291 | 0.66 | cps |
| Bromine | 81-1 | 28434 | 28261 | 27947 | 28214 | 0.88 | cps |
| Bromine | 81-2 | 193 | 247 | 253 | 231 | 14.23 | cps |
| Cadmium | 108-1 | 0 | 13 | 0 | 4 | 173.21 | cps |
| Cadmium | 106-1 | 1890 | 1740 | 1807 | 1812 | 4.15 | cps |
| Cadmium | 111-1 | 1330 | 1225 | 1291 | 1282 | 4.12 | cps |
| Calcium | 43-1 | 390 | 410 | 363 | 388 | 6.04 | cps |
| Calcium | 44-1 | 9056 | 8856 | 8880 | 8931 | 1.23 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 950 | 1050 | 913 | 971 | 7.28 | cps |
| Cobalt | 59-2 | 77 | 90 | 70 | 79 | 12.91 | cps |
| Copper | 63-2 | 1647 | 1600 | 1503 | 1583 | 4.62 | cps |
| Dysprosium | 156-1 | 13 | 0 | 7 | 7 | 99.98 | cps |
| Dysprosium | 156-2 | 13 | 3 | 0 | 6 | 124.93 | cps |
| Erbium | 164-1 | 60 | 47 | 40 | 49 | 20.83 | cps |
| Erbium | 164-2 | 33 | 20 | 23 | 26 | 27.15 | cps |
| Gadolinium | 160-1 | 13 | 40 | 27 | 27 | 50.01 | cps |
| Gadolinium | 160-2 | 250 | 287 | 247 | 261 | 8.50 | cps |
| Holmium | 165-1 | 6161200 | 6351544 | 6157921 | 6223555 | 1.78 | cps |
| Holmium | 165-2 | 4835044 | 4778160 | 4767332 | 4793512 | 0.76 | cps |
| Indium | 115-1 | 5200783 | 5279941 | 5242093 | 5240939 | 0.76 | cps |
| Indium | 115-2 | 2087123 | 2047554 | 2101734 | 2078804 | 1.35 | cps |
| Iron | 56-2 | 25068 | 24283 | 23448 | 24266 | 3.34 | cps |
| Iron | 57-2 | 1377 | 1360 | 1303 | 1347 | 2.86 | cps |
| Iron | 54-2 | 2627 | 2977 | 2787 | 2797 | 6.27 | cps |
| Krypton | 83-1 | 353 | 283 | 363 | 333 | 13.08 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:20:36 | DataFile Name : | 020_ICB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 857 | 770 | 737 | 788 | 7.86 | cps |
| Lead | 207-1 | 637 | 730 | 570 | 646 | 12.45 | cps |
| Lead | 208-1 | 3013 | 3060 | 2883 | 2986 | 3.07 | cps |
| Lithium | 6-1 | 596739 | 599209 | 601749 | 599233 | 0.42 | cps |
| Magnesium | 24-2 | 203 | 197 | 143 | 181 | 18.16 | cps |
| Manganese | 55-2 | 1943 | 1987 | 1793 | 1908 | 5.32 | cps |
| Molybdenum | 94-1 | 123 | 127 | 153 | 134 | 12.23 | cps |
| Molybdenum | 95-1 | 63 | 40 | 43 | 49 | 25.81 | cps |
| Molybdenum | 96-1 | 143 | 143 | 167 | 151 | 8.91 | cps |
| Molybdenum | 97-1 | 30 | 30 | 63 | 41 | 46.81 | cps |
| Molybdenum | 98-1 | 63 | 50 | 63 | 59 | 13.07 | cps |
| Neodymium | 150-1 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Neodymium | 150-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Nickel | 60-2 | 257 | 167 | 237 | 220 | 21.48 | cps |
| Phosphorus | 31-2 | 323 | 310 | 360 | 331 | 7.82 | cps |
| Potassium | 39-2 | 51209 | 50527 | 50115 | 50617 | 1.09 | cps |
| Rhodium | 103-1 | 4975516 | 4967972 | 4931741 | 4958410 | 0.47 | cps |
| Rhodium | 103-2 | 3145099 | 3062936 | 3109009 | 3105681 | 1.33 | cps |
| Scandium | 45-1 | 2945561 | 2915767 | 2927833 | 2929720 | 0.51 | cps |
| Scandium | 45-2 | 281046 | 278593 | 278413 | 279351 | 0.53 | cps |
| Selenium | 82-1 | 194 | 297 | 177 | 223 | 29.12 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 787 | 690 | 760 | 746 | 6.70 | cps |
| Silicon | 28-1 | 1220015 | 1222853 | 1189961 | 1210943 | 1.51 | cps |
| Silver | 107-1 | 43 | 40 | 60 | 48 | 22.43 | cps |
| Silver | 109-1 | 17 | 43 | 23 | 28 | 49.95 | cps |
| Sodium | 23-2 | 16652 | 15888 | 16522 | 16354 | 2.50 | cps |
| Strontium | 86-1 | 563 | 600 | 533 | 566 | 5.90 | cps |
| Strontium | 88-1 | 70 | 117 | 73 | 87 | 30.04 | cps |
| Sulfur | 34-1 | 114948 | 116143 | 114622 | 115238 | 0.69 | cps |
| Terbium | 159-1 | 6281057 | 6444942 | 6365065 | 6363688 | 1.29 | cps |
| Terbium | 159-2 | 4823530 | 4778859 | 4772456 | 4791615 | 0.58 | cps |
| Thallium | 203-1 | 113 | 110 | 120 | 114 | 4.45 | cps |
| Thallium | 205-1 | 323 | 370 | 330 | 341 | 7.40 | cps |
| Tin | 118-1 | 807 | 890 | 903 | 867 | 6.04 | cps |
| Titanium | 47-1 | 43 | 37 | 47 | 42 | 12.06 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:20:36 | DataFile Name : | 020_ICB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 10 | 3 | 13 | 9 | 57.30 | cps |
| Vanadium | 51-2 | 7 | 7 | 10 | 8 | 24.71 | cps |
| Yttrium | 89-1 | 7387854 | 7611550 | 7617484 | 7538963 | 1.74 | cps |
| Yttrium | 89-2 | 2305820 | 2239203 | 2209182 | 2251402 | 2.20 | cps |
| Zinc | 66-2 | 383 | 343 | 373 | 367 | 5.68 | cps |
| Zirconium | 90-1 | 280 | 227 | 330 | 279 | 18.53 | cps |
| Zirconium | 91-1 | 33 | 97 | 83 | 71 | 46.96 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:24:44 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11515177 | 11669346 | 11550338 | 11578287 | 0.70 | cps |
| Antimony | 121-1 | 6765 | 6545 | 6408 | 6573 | 2.74 | cps |
| Arsenic | 75-2 | 150 | 120 | 77 | 116 | 31.90 | cps |
| Barium | 135-1 | 2087 | 2140 | 2187 | 2138 | 2.34 | cps |
| Barium | 137-1 | 3681 | 3390 | 3564 | 3545 | 4.12 | cps |
| Beryllium | 9-1 | 200 | 264 | 226 | 230 | 13.91 | cps |
| Bismuth | 209-1 | 3736045 | 3779438 | 3827868 | 3781117 | 1.21 | cps |
| Bismuth | 209-2 | 3463616 | 3451691 | 3427424 | 3447577 | 0.53 | cps |
| Bromine | 81-1 | 28237 | 27980 | 28367 | 28195 | 0.70 | cps |
| Bromine | 81-2 | 337 | 357 | 420 | 371 | 11.72 | cps |
| Cadmium | 108-1 | 780 | 747 | 717 | 748 | 4.24 | cps |
| Cadmium | 106-1 | 1753 | 1737 | 1673 | 1721 | 2.45 | cps |
| Cadmium | 111-1 | 1578 | 1660 | 1630 | 1623 | 2.55 | cps |
| Calcium | 43-1 | 1382553 | 1374583 | 1382213 | 1379783 | 0.33 | cps |
| Calcium | 44-1 | 22599286 | 23603865 | 22913729 | 23038960 | 2.23 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 47287 | 47043 | 47056 | 47129 | 0.29 | cps |
| Cobalt | 59-2 | 4724 | 4594 | 4534 | 4617 | 2.10 | cps |
| Copper | 63-2 | 27649 | 27191 | 27155 | 27332 | 1.01 | cps |
| Dysprosium | 156-1 | 57 | 13 | 30 | 33 | 65.58 | cps |
| Dysprosium | 156-2 | 20 | 13 | 20 | 18 | 21.66 | cps |
| Erbium | 164-1 | 53 | 73 | 63 | 63 | 15.79 | cps |
| Erbium | 164-2 | 57 | 47 | 47 | 50 | 11.55 | cps |
| Gadolinium | 160-1 | 20 | 57 | 13 | 30 | 77.79 | cps |
| Gadolinium | 160-2 | 257 | 267 | 303 | 276 | 8.92 | cps |
| Holmium | 165-1 | 6303581 | 6325999 | 6380634 | 6336738 | 0.63 | cps |
| Holmium | 165-2 | 4815333 | 4864839 | 4746782 | 4808985 | 1.23 | cps |
| Indium | 115-1 | 5178237 | 5118412 | 5199355 | 5165334 | 0.81 | cps |
| Indium | 115-2 | 2053371 | 2082674 | 2052764 | 2062936 | 0.83 | cps |
| Iron | 56-2 | 215056950 | 211764784 | 213301677 | 213374470 | 0.77 | cps |
| Iron | 57-2 | 5307189 | 5221810 | 5205203 | 5244734 | 1.04 | cps |
| Iron | 54-2 | 11686733 | 11773295 | 11601555 | 11687194 | 0.73 | cps |
| Krypton | 83-1 | 397 | 417 | 447 | 420 | 5.99 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:24:44 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 20759 | 20863 | 20950 | 20857 | 0.46 | cps |
| Lead | 207-1 | 15949 | 15589 | 15853 | 15797 | 1.18 | cps |
| Lead | 208-1 | 76540 | 76798 | 75557 | 76299 | 0.86 | cps |
| Lithium | 6-1 | 600039 | 630941 | 615806 | 615595 | 2.51 | cps |
| Magnesium | 24-2 | 19836378 | 19914770 | 19784978 | 19845375 | 0.33 | cps |
| Manganese | 55-2 | 16216 | 16429 | 16576 | 16407 | 1.10 | cps |
| Molybdenum | 94-1 | 3009786 | 3113509 | 3058285 | 3060527 | 1.70 | cps |
| Molybdenum | 95-1 | 5307475 | 5354187 | 5366692 | 5342785 | 0.58 | cps |
| Molybdenum | 96-1 | 5804301 | 5695112 | 5736585 | 5745332 | 0.96 | cps |
| Molybdenum | 97-1 | 3357600 | 3319606 | 3313845 | 3330350 | 0.71 | cps |
| Molybdenum | 98-1 | 8483707 | 8657234 | 8628031 | 8589657 | 1.08 | cps |
| Neodymium | 150-1 | 30 | 23 | 23 | 26 | 15.07 | cps |
| Neodymium | 150-2 | 10 | 10 | 13 | 11 | 17.30 | cps |
| Nickel | 60-2 | 6008 | 5668 | 5861 | 5846 | 2.92 | cps |
| Phosphorus | 31-2 | 724143 | 725946 | 726722 | 725604 | 0.18 | cps |
| Potassium | 39-2 | 27313985 | 26948582 | 26887670 | 27050079 | 0.85 | cps |
| Rhodium | 103-1 | 4856649 | 4742115 | 4766924 | 4788563 | 1.26 | cps |
| Rhodium | 103-2 | 3057567 | 3037776 | 2958262 | 3017869 | 1.74 | cps |
| Scandium | 45-1 | 2883549 | 2908003 | 2806892 | 2866148 | 1.84 | cps |
| Scandium | 45-2 | 272875 | 271310 | 272870 | 272352 | 0.33 | cps |
| Selenium | 82-1 | 187 | 169 | 184 | 180 | 5.59 | cps |
| Selenium | 77-2 | 3 | 10 | 0 | 4 | 114.60 | cps |
| Selenium | 78-2 | 750 | 610 | 637 | 666 | 11.17 | cps |
| Silicon | 28-1 | 1170448 | 868668 | 859514 | 966210 | 18.31 | cps |
| Silver | 107-1 | 157 | 220 | 270 | 216 | 26.35 | cps |
| Silver | 109-1 | 107 | 163 | 257 | 176 | 43.14 | cps |
| Sodium | 23-2 | 33698564 | 33878928 | 33359858 | 33645783 | 0.78 | cps |
| Strontium | 86-1 | 60688 | 60704 | 60691 | 60694 | 0.01 | cps |
| Strontium | 88-1 | 526944 | 537086 | 534834 | 532955 | 1.00 | cps |
| Sulfur | 34-1 | 2201032 | 2184686 | 2185197 | 2190305 | 0.42 | cps |
| Terbium | 159-1 | 6582390 | 6428681 | 6405323 | 6472131 | 1.49 | cps |
| Terbium | 159-2 | 4870341 | 4854117 | 4757134 | 4827197 | 1.27 | cps |
| Thallium | 203-1 | 393 | 407 | 567 | 456 | 21.17 | cps |
| Thallium | 205-1 | 767 | 1013 | 1120 | 967 | 18.75 | cps |
| Tin | 118-1 | 3000 | 3480 | 3640 | 3374 | 9.87 | cps |
| Titanium | 47-1 | 1339583 | 1386161 | 1346936 | 1357560 | 1.84 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:24:44 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 393 | 450 | 287 | 377 | 22.02 | cps |
| Vanadium | 51-2 | 383 | 410 | 383 | 392 | 3.93 | cps |
| Yttrium | 89-1 | 7594042 | 7443086 | 7683067 | 7573398 | 1.60 | cps |
| Yttrium | 89-2 | 2217985 | 2240772 | 2207682 | 2222146 | 0.76 | cps |
| Zinc | 66-2 | 7265 | 7482 | 7248 | 7332 | 1.78 | cps |
| Zirconium | 90-1 | 567 | 593 | 633 | 598 | 5.61 | cps |
| Zirconium | 91-1 | 110 | 113 | 150 | 124 | 17.83 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:27:51 | DataFile Name : | 022ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11075452 | 10821503 | 11043109 | 10980021 | 1.26 | cps |
| Antimony | 121-1 | 104909 | 107643 | 106789 | 106447 | 1.31 | cps |
| Arsenic | 75-2 | 6512 | 6491 | 6655 | 6553 | 1.36 | cps |
| Barium | 135-1 | 28846 | 27998 | 28198 | 28347 | 1.56 | cps |
| Barium | 137-1 | 49191 | 49148 | 49332 | 49224 | 0.20 | cps |
| Beryllium | 9-1 | 14723 | 14028 | 14305 | 14352 | 2.44 | cps |
| Bismuth | 209-1 | 3898108 | 3896568 | 3894425 | 3896367 | 0.05 | cps |
| Bismuth | 209-2 | 3579602 | 3588155 | 3543014 | 3570257 | 0.67 | cps |
| Bromine | 81-1 | 29296 | 29724 | 30288 | 29769 | 1.67 | cps |
| Bromine | 81-2 | 393 | 383 | 350 | 376 | 6.04 | cps |
| Cadmium | 108-1 | 2960 | 2914 | 2810 | 2895 | 2.65 | cps |
| Cadmium | 106-1 | 5334 | 5204 | 5181 | 5240 | 1.58 | cps |
| Cadmium | 111-1 | 29859 | 31067 | 30799 | 30575 | 2.07 | cps |
| Calcium | 43-1 | 1345191 | 1330543 | 1334425 | 1336720 | 0.57 | cps |
| Calcium | 44-1 | 22233751 | 22371827 | 22510583 | 22372054 | 0.62 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 90386 | 90741 | 91418 | 90848 | 0.58 | cps |
| Cobalt | 59-2 | 75897 | 74896 | 75361 | 75385 | 0.66 | cps |
| Copper | 63-2 | 76699 | 75744 | 75851 | 76098 | 0.69 | cps |
| Dysprosium | 156-1 | 20 | 33 | 20 | 24 | 31.49 | cps |
| Dysprosium | 156-2 | 40 | 30 | 20 | 30 | 33.33 | cps |
| Erbium | 164-1 | 67 | 53 | 50 | 57 | 15.57 | cps |
| Erbium | 164-2 | 53 | 70 | 50 | 58 | 18.55 | cps |
| Gadolinium | 160-1 | 50 | 37 | 33 | 40 | 22.05 | cps |
| Gadolinium | 160-2 | 317 | 323 | 307 | 316 | 2.66 | cps |
| Holmium | 165-1 | 6478713 | 6398191 | 6513007 | 6463304 | 0.91 | cps |
| Holmium | 165-2 | 5021900 | 4976815 | 4919207 | 4972641 | 1.04 | cps |
| Indium | 115-1 | 5190715 | 5290689 | 5184142 | 5221849 | 1.14 | cps |
| Indium | 115-2 | 2066986 | 2109415 | 2048524 | 2074975 | 1.50 | cps |
| Iron | 56-2 | 203067710 | 200475424 | 202440270 | 201994468 | 0.67 | cps |
| Iron | 57-2 | 5031039 | 4990174 | 5004695 | 5008636 | 0.41 | cps |
| Iron | 54-2 | 11206002 | 11189024 | 11238238 | 11211088 | 0.22 | cps |
| Krypton | 83-1 | 373 | 347 | 377 | 366 | 4.50 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:27:51 | DataFile Name : | 022ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 100676 | 98171 | 100518 | 99788 | 1.41 | cps |
| Lead | 207-1 | 83497 | 84212 | 83820 | 83843 | 0.43 | cps |
| Lead | 208-1 | 389146 | 384836 | 386968 | 386984 | 0.56 | cps |
| Lithium | 6-1 | 628055 | 603452 | 620782 | 617430 | 2.05 | cps |
| Magnesium | 24-2 | 18820597 | 18732942 | 18707059 | 18753533 | 0.32 | cps |
| Manganese | 55-2 | 53097 | 52769 | 52615 | 52827 | 0.47 | cps |
| Molybdenum | 94-1 | 3152115 | 3252916 | 3185939 | 3196990 | 1.60 | cps |
| Molybdenum | 95-1 | 5255011 | 5292314 | 5223476 | 5256934 | 0.66 | cps |
| Molybdenum | 96-1 | 5599184 | 5767226 | 5704286 | 5690232 | 1.49 | cps |
| Molybdenum | 97-1 | 3266447 | 3336576 | 3267120 | 3290048 | 1.22 | cps |
| Molybdenum | 98-1 | 8474521 | 8610282 | 8468670 | 8517824 | 0.94 | cps |
| Neodymium | 150-1 | 23 | 30 | 23 | 26 | 15.07 | cps |
| Neodymium | 150-2 | 23 | 30 | 10 | 21 | 48.24 | cps |
| Nickel | 60-2 | 24310 | 23739 | 23382 | 23810 | 1.97 | cps |
| Phosphorus | 31-2 | 693271 | 690023 | 690865 | 691387 | 0.24 | cps |
| Potassium | 39-2 | 26098274 | 25808447 | 25814215 | 25906979 | 0.64 | cps |
| Rhodium | 103-1 | 4931847 | 4904617 | 4867176 | 4901213 | 0.66 | cps |
| Rhodium | 103-2 | 3097114 | 3039777 | 3024530 | 3053807 | 1.25 | cps |
| Scandium | 45-1 | 2983286 | 2939366 | 2960317 | 2960990 | 0.74 | cps |
| Scandium | 45-2 | 276492 | 276813 | 278887 | 277397 | 0.47 | cps |
| Selenium | 82-1 | 2348 | 2564 | 2379 | 2430 | 4.79 | cps |
| Selenium | 77-2 | 260 | 267 | 240 | 256 | 5.43 | cps |
| Selenium | 78-2 | 1567 | 1647 | 1650 | 1621 | 2.91 | cps |
| Silicon | 28-1 | 1252396 | 1268867 | 1266989 | 1262751 | 0.71 | cps |
| Silver | 107-1 | 136730 | 139985 | 138190 | 138302 | 1.18 | cps |
| Silver | 109-1 | 129926 | 132472 | 129308 | 130569 | 1.28 | cps |
| Sodium | 23-2 | 32368027 | 32009491 | 32394170 | 32257229 | 0.67 | cps |
| Strontium | 86-1 | 141036 | 141874 | 141230 | 141380 | 0.31 | cps |
| Strontium | 88-1 | 1233496 | 1252839 | 1255790 | 1247375 | 0.97 | cps |
| Sulfur | 34-1 | 2162445 | 2136160 | 2222051 | 2173552 | 2.02 | cps |
| Terbium | 159-1 | 6648222 | 6749881 | 6705980 | 6701361 | 0.76 | cps |
| Terbium | 159-2 | 4858492 | 4928061 | 4988448 | 4925000 | 1.32 | cps |
| Thallium | 203-1 | 98721 | 99893 | 100108 | 99574 | 0.75 | cps |
| Thallium | 205-1 | 234505 | 235058 | 233222 | 234262 | 0.40 | cps |
| Tin | 118-1 | 210011 | 214256 | 212882 | 212383 | 1.02 | cps |
| Titanium | 47-1 | 1340141 | 1331517 | 1343994 | 1338551 | 0.48 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:27:51 | DataFile Name : | 022ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 755514 | 752094 | 765405 | 757671 | 0.91 | cps |
| Vanadium | 51-2 | 39438 | 39117 | 39228 | 39261 | 0.41 | cps |
| Yttrium | 89-1 | 7867133 | 7769142 | 7718818 | 7785031 | 0.97 | cps |
| Yttrium | 89-2 | 2277145 | 2290692 | 2311477 | 2293104 | 0.75 | cps |
| Zinc | 66-2 | 16342 | 16473 | 16192 | 16336 | 0.86 | cps |
| Zirconium | 90-1 | 452177 | 454474 | 455049 | 453900 | 0.33 | cps |
| Zirconium | 91-1 | 101001 | 103411 | 102367 | 102260 | 1.18 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:30:55 | DataFile Name : | 023CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6149494 | 6103996 | 6141527 | 6131672 | 0.40 | cps |
| Antimony | 121-1 | 2428594 | 2465317 | 2478014 | 2457308 | 1.04 | cps |
| Arsenic | 75-2 | 158898 | 157988 | 159383 | 158756 | 0.45 | cps |
| Barium | 135-1 | 3248899 | 3320277 | 3308190 | 3292455 | 1.16 | cps |
| Barium | 137-1 | 5717001 | 5830610 | 5778891 | 5775500 | 0.98 | cps |
| Beryllium | 9-1 | 348210 | 350205 | 352620 | 350345 | 0.63 | cps |
| Bismuth | 209-1 | 3835069 | 3813279 | 3792862 | 3813737 | 0.55 | cps |
| Bismuth | 209-2 | 3305029 | 3403719 | 3372501 | 3360416 | 1.50 | cps |
| Bromine | 81-1 | 27082 | 27502 | 28761 | 27782 | 3.15 | cps |
| Bromine | 81-2 | 180 | 160 | 173 | 171 | 5.95 | cps |
| Cadmium | 108-1 | 50026 | 50578 | 51190 | 50598 | 1.15 | cps |
| Cadmium | 106-1 | 72296 | 72262 | 73776 | 72778 | 1.19 | cps |
| Cadmium | 111-1 | 682577 | 700050 | 701765 | 694797 | 1.53 | cps |
| Calcium | 43-1 | 3278675 | 3426831 | 3432612 | 3379373 | 2.58 | cps |
| Calcium | 44-1 | 55654368 | 56026634 | 57840096 | 56507032 | 2.07 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1130263 | 1134008 | 1133350 | 1132540 | 0.18 | cps |
| Cobalt | 59-2 | 1778288 | 1764346 | 1727278 | 1756637 | 1.50 | cps |
| Copper | 63-2 | 13219066 | 13124593 | 12979678 | 13107779 | 0.92 | cps |
| Dysprosium | 156-1 | 127 | 120 | 123 | 123 | 2.70 | cps |
| Dysprosium | 156-2 | 207 | 223 | 173 | 201 | 12.66 | cps |
| Erbium | 164-1 | 153 | 163 | 153 | 157 | 3.69 | cps |
| Erbium | 164-2 | 147 | 153 | 127 | 142 | 9.76 | cps |
| Gadolinium | 160-1 | 103 | 83 | 137 | 108 | 25.00 | cps |
| Gadolinium | 160-2 | 320 | 313 | 370 | 334 | 9.26 | cps |
| Holmium | 165-1 | 6490017 | 6501264 | 6532147 | 6507809 | 0.34 | cps |
| Holmium | 165-2 | 4807936 | 4911811 | 4828620 | 4849456 | 1.13 | cps |
| Indium | 115-1 | 5139127 | 5267016 | 5137408 | 5181184 | 1.43 | cps |
| Indium | 115-2 | 2033120 | 2023735 | 2038276 | 2031711 | 0.36 | cps |
| Iron | 56-2 | 258556976 | 257271236 | 253657610 | 256495274 | 0.99 | cps |
| Iron | 57-2 | 6537467 | 6386703 | 6341207 | 6421792 | 1.60 | cps |
| Iron | 54-2 | 14158039 | 13952176 | 13999246 | 14036487 | 0.77 | cps |
| Krypton | 83-1 | 373 | 423 | 373 | 390 | 7.40 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:30:55 | DataFile Name : | 023CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 9853237 | 9868945 | 9908154 | 9876779 | 0.29 | cps |
| Lead | 207-1 | 8636436 | 8835213 | 8783646 | 8751765 | 1.18 | cps |
| Lead | 208-1 | 39352102 | 39520360 | 39769135 | 39547199 | 0.53 | cps |
| Lithium | 6-1 | 636454 | 630154 | 620384 | 628997 | 1.29 | cps |
| Magnesium | 24-2 | 50895866 | 49966654 | 50203606 | 50355375 | 0.96 | cps |
| Manganese | 55-2 | 9919147 | 9826595 | 9828437 | 9858060 | 0.54 | cps |
| Molybdenum | 94-1 | 9087718 | 9333312 | 9309430 | 9243487 | 1.47 | cps |
| Molybdenum | 95-1 | 13143829 | 13225943 | 13461140 | 13276971 | 1.24 | cps |
| Molybdenum | 96-1 | 14300990 | 14585968 | 14495029 | 14460662 | 1.01 | cps |
| Molybdenum | 97-1 | 7962413 | 8216733 | 8302256 | 8160468 | 2.17 | cps |
| Molybdenum | 98-1 | 20615894 | 21276212 | 21542657 | 21144921 | 2.26 | cps |
| Neodymium | 150-1 | 167 | 200 | 210 | 192 | 11.80 | cps |
| Neodymium | 150-2 | 107 | 67 | 63 | 79 | 30.57 | cps |
| Nickel | 60-2 | 449807 | 448279 | 451451 | 449846 | 0.35 | cps |
| Phosphorus | 31-2 | 72113 | 72477 | 72501 | 72363 | 0.30 | cps |
| Potassium | 39-2 | 33789455 | 33477152 | 33776729 | 33681112 | 0.52 | cps |
| Rhodium | 103-1 | 4777574 | 4755976 | 4743624 | 4759058 | 0.36 | cps |
| Rhodium | 103-2 | 2952999 | 2987036 | 3015968 | 2985334 | 1.06 | cps |
| Scandium | 45-1 | 2942926 | 2908185 | 2979727 | 2943613 | 1.22 | cps |
| Scandium | 45-2 | 281507 | 284572 | 285130 | 283736 | 0.69 | cps |
| Selenium | 82-1 | 52956 | 53783 | 54584 | 53774 | 1.51 | cps |
| Selenium | 77-2 | 6692 | 6381 | 6378 | 6484 | 2.78 | cps |
| Selenium | 78-2 | 22043 | 22420 | 22220 | 22228 | 0.85 | cps |
| Silicon | 28-1 | 9448482 | 9588561 | 9671606 | 9569549 | 1.18 | cps |
| Silver | 107-1 | 3394640 | 3385870 | 3490856 | 3423789 | 1.70 | cps |
| Silver | 109-1 | 3224261 | 3311172 | 3273418 | 3269617 | 1.33 | cps |
| Sodium | 23-2 | 81634845 | 79649025 | 81112825 | 80798899 | 1.27 | cps |
| Strontium | 86-1 | 826687 | 844286 | 847683 | 839552 | 1.34 | cps |
| Strontium | 88-1 | 7274043 | 7489635 | 7437414 | 7400364 | 1.52 | cps |
| Sulfur | 34-1 | 303130 | 308991 | 307542 | 306554 | 1.00 | cps |
| Terbium | 159-1 | 6667149 | 6664201 | 6684556 | 6671969 | 0.16 | cps |
| Terbium | 159-2 | 4833275 | 4825501 | 4911406 | 4856727 | 0.98 | cps |
| Thallium | 203-1 | 2529136 | 2498472 | 2521832 | 2516480 | 0.64 | cps |
| Thallium | 205-1 | 5895731 | 5893280 | 5950738 | 5913249 | 0.55 | cps |
| Tin | 118-1 | 2131265 | 2121355 | 2183967 | 2145529 | 1.57 | cps |
| Titanium | 47-1 | 3299274 | 3284157 | 3348253 | 3310561 | 1.01 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:30:55 | DataFile Name : | 023CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7825845 | 7941633 | 8044366 | 7937281 | 1.38 | cps |
| Vanadium | 51-2 | 1004705 | 992708 | 993019 | 996811 | 0.69 | cps |
| Yttrium | 89-1 | 7782298 | 7847668 | 7817591 | 7815852 | 0.42 | cps |
| Yttrium | 89-2 | 2280389 | 2262946 | 2307222 | 2283519 | 0.98 | cps |
| Zinc | 66-2 | 2844165 | 2810119 | 2825327 | 2826537 | 0.60 | cps |
| Zirconium | 90-1 | 4502082 | 4543448 | 4676982 | 4574171 | 2.00 | cps |
| Zirconium | 91-1 | 1002683 | 1026825 | 1027714 | 1019074 | 1.39 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:33:49 | DataFile Name : | 024CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 330 | 387 | 367 | 361 | 7.96 | cps |
| Antimony | 121-1 | 410 | 497 | 470 | 459 | 9.67 | cps |
| Arsenic | 75-2 | 7 | 13 | 7 | 9 | 43.25 | cps |
| Barium | 135-1 | 47 | 30 | 43 | 40 | 22.05 | cps |
| Barium | 137-1 | 117 | 77 | 47 | 80 | 43.90 | cps |
| Beryllium | 9-1 | 68 | 48 | 51 | 56 | 19.45 | cps |
| Bismuth | 209-1 | 3945747 | 3901417 | 4011992 | 3953052 | 1.41 | cps |
| Bismuth | 209-2 | 3558082 | 3508487 | 3639935 | 3568835 | 1.86 | cps |
| Bromine | 81-1 | 28100 | 28658 | 29493 | 28750 | 2.44 | cps |
| Bromine | 81-2 | 280 | 207 | 207 | 231 | 18.32 | cps |
| Cadmium | 108-1 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Cadmium | 106-1 | 1887 | 1850 | 1767 | 1835 | 3.35 | cps |
| Cadmium | 111-1 | 1383 | 1335 | 1272 | 1330 | 4.17 | cps |
| Calcium | 43-1 | 427 | 367 | 317 | 370 | 14.89 | cps |
| Calcium | 44-1 | 10157 | 9337 | 9657 | 9717 | 4.26 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 900 | 940 | 957 | 932 | 3.12 | cps |
| Cobalt | 59-2 | 83 | 87 | 113 | 94 | 17.41 | cps |
| Copper | 63-2 | 3247 | 3070 | 3137 | 3151 | 2.83 | cps |
| Dysprosium | 156-1 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Dysprosium | 156-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 20 | 30 | 47 | 32 | 41.81 | cps |
| Erbium | 164-2 | 37 | 40 | 40 | 39 | 4.94 | cps |
| Gadolinium | 160-1 | 17 | 33 | 17 | 22 | 43.28 | cps |
| Gadolinium | 160-2 | 257 | 287 | 317 | 287 | 10.47 | cps |
| Holmium | 165-1 | 6302590 | 6400593 | 6307756 | 6336980 | 0.87 | cps |
| Holmium | 165-2 | 4839276 | 4723926 | 4851076 | 4804759 | 1.46 | cps |
| Indium | 115-1 | 5365806 | 5264866 | 5308755 | 5313142 | 0.95 | cps |
| Indium | 115-2 | 2099998 | 2101530 | 2105787 | 2102438 | 0.14 | cps |
| Iron | 56-2 | 25889 | 25949 | 25535 | 25791 | 0.87 | cps |
| Iron | 57-2 | 1287 | 1173 | 1400 | 1287 | 8.81 | cps |
| Iron | 54-2 | 2774 | 2814 | 2684 | 2757 | 2.42 | cps |
| Krypton | 83-1 | 337 | 400 | 287 | 341 | 16.65 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:33:49 | DataFile Name : | 024CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1130 | 1060 | 1120 | 1103 | 3.43 | cps |
| Lead | 207-1 | 1027 | 990 | 877 | 964 | 8.11 | cps |
| Lead | 208-1 | 4610 | 4164 | 4184 | 4319 | 5.84 | cps |
| Lithium | 6-1 | 627457 | 630183 | 637832 | 631824 | 0.85 | cps |
| Magnesium | 24-2 | 810 | 800 | 807 | 806 | 0.63 | cps |
| Manganese | 55-2 | 2124 | 2160 | 2080 | 2121 | 1.89 | cps |
| Molybdenum | 94-1 | 467 | 417 | 390 | 424 | 9.17 | cps |
| Molybdenum | 95-1 | 457 | 247 | 313 | 339 | 31.67 | cps |
| Molybdenum | 96-1 | 630 | 410 | 390 | 477 | 27.94 | cps |
| Molybdenum | 97-1 | 287 | 190 | 200 | 226 | 23.57 | cps |
| Molybdenum | 98-1 | 740 | 413 | 423 | 526 | 35.35 | cps |
| Neodymium | 150-1 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 197 | 227 | 197 | 207 | 8.38 | cps |
| Phosphorus | 31-2 | 293 | 333 | 263 | 297 | 11.84 | cps |
| Potassium | 39-2 | 52550 | 51176 | 50741 | 51489 | 1.83 | cps |
| Rhodium | 103-1 | 4977534 | 4974621 | 4958989 | 4970381 | 0.20 | cps |
| Rhodium | 103-2 | 3205033 | 3164644 | 3086253 | 3151977 | 1.92 | cps |
| Scandium | 45-1 | 2873879 | 2833519 | 2903757 | 2870385 | 1.23 | cps |
| Scandium | 45-2 | 273905 | 273026 | 272256 | 273062 | 0.30 | cps |
| Selenium | 82-1 | 231 | 177 | 343 | 250 | 33.90 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 703 | 707 | 697 | 702 | 0.73 | cps |
| Silicon | 28-1 | 838110 | 836963 | 839575 | 838216 | 0.16 | cps |
| Silver | 107-1 | 207 | 183 | 170 | 187 | 9.94 | cps |
| Silver | 109-1 | 180 | 90 | 157 | 142 | 32.84 | cps |
| Sodium | 23-2 | 20487 | 20374 | 20217 | 20359 | 0.67 | cps |
| Strontium | 86-1 | 630 | 553 | 647 | 610 | 8.16 | cps |
| Strontium | 88-1 | 227 | 100 | 143 | 157 | 41.09 | cps |
| Sulfur | 34-1 | 97338 | 99954 | 98934 | 98742 | 1.34 | cps |
| Terbium | 159-1 | 6498551 | 6494232 | 6546075 | 6512952 | 0.44 | cps |
| Terbium | 159-2 | 4888122 | 4721570 | 4850268 | 4819987 | 1.81 | cps |
| Thallium | 203-1 | 590 | 623 | 583 | 599 | 3.58 | cps |
| Thallium | 205-1 | 1527 | 1437 | 1343 | 1436 | 6.39 | cps |
| Tin | 118-1 | 1137 | 1147 | 1030 | 1104 | 5.85 | cps |
| Titanium | 47-1 | 133 | 60 | 57 | 83 | 52.00 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:33:49 | DataFile Name : | 024CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 183 | 47 | 70 | 100 | 73.11 | cps |
| Vanadium | 51-2 | 13 | 13 | 20 | 16 | 24.76 | cps |
| Yttrium | 89-1 | 7423947 | 7643600 | 7511097 | 7526215 | 1.47 | cps |
| Yttrium | 89-2 | 2320785 | 2284725 | 2263500 | 2289670 | 1.26 | cps |
| Zinc | 66-2 | 437 | 483 | 353 | 424 | 15.52 | cps |
| Zirconium | 90-1 | 707 | 667 | 703 | 692 | 3.21 | cps |
| Zirconium | 91-1 | 177 | 143 | 133 | 151 | 15.01 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:37:07 | DataFile Name : | 025LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2654 | 2590 | 2724 | 2656 | 2.51 | cps |
| Antimony | 121-1 | 9763 | 10170 | 10210 | 10048 | 2.46 | cps |
| Arsenic | 75-2 | 393 | 387 | 293 | 358 | 15.63 | cps |
| Barium | 135-1 | 12536 | 12602 | 12826 | 12655 | 1.20 | cps |
| Barium | 137-1 | 21586 | 22381 | 22665 | 22211 | 2.52 | cps |
| Beryllium | 9-1 | 735 | 775 | 708 | 739 | 4.53 | cps |
| Bismuth | 209-1 | 4004458 | 4029203 | 3933697 | 3989119 | 1.24 | cps |
| Bismuth | 209-2 | 3566323 | 3642433 | 3548925 | 3585894 | 1.39 | cps |
| Bromine | 81-1 | 30117 | 29961 | 29750 | 29943 | 0.62 | cps |
| Bromine | 81-2 | 217 | 287 | 200 | 234 | 19.62 | cps |
| Cadmium | 108-1 | 93 | 103 | 130 | 109 | 17.41 | cps |
| Cadmium | 106-1 | 2054 | 2177 | 1760 | 1997 | 10.72 | cps |
| Cadmium | 111-1 | 2716 | 2768 | 2658 | 2714 | 2.03 | cps |
| Calcium | 43-1 | 7205 | 7649 | 7435 | 7430 | 2.99 | cps |
| Calcium | 44-1 | 123475 | 125936 | 124430 | 124614 | 1.00 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5301 | 5444 | 5534 | 5427 | 2.17 | cps |
| Cobalt | 59-2 | 3761 | 3751 | 3861 | 3791 | 1.61 | cps |
| Copper | 63-2 | 8002 | 7909 | 8139 | 8017 | 1.44 | cps |
| Dysprosium | 156-1 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Dysprosium | 156-2 | 3 | 0 | 17 | 7 | 132.33 | cps |
| Erbium | 164-1 | 93 | 40 | 43 | 59 | 50.74 | cps |
| Erbium | 164-2 | 40 | 23 | 23 | 29 | 33.32 | cps |
| Gadolinium | 160-1 | 23 | 27 | 27 | 26 | 7.55 | cps |
| Gadolinium | 160-2 | 297 | 267 | 250 | 271 | 8.72 | cps |
| Holmium | 165-1 | 6386619 | 6366603 | 6233963 | 6329062 | 1.31 | cps |
| Holmium | 165-2 | 4748422 | 4846672 | 4746382 | 4780492 | 1.20 | cps |
| Indium | 115-1 | 5281859 | 5301022 | 5237828 | 5273570 | 0.61 | cps |
| Indium | 115-2 | 2103296 | 2161157 | 2039555 | 2101336 | 2.89 | cps |
| Iron | 56-2 | 135431 | 131398 | 130450 | 132426 | 2.00 | cps |
| Iron | 57-2 | 4101 | 4081 | 4057 | 4079 | 0.53 | cps |
| Iron | 54-2 | 8723 | 8866 | 8789 | 8793 | 0.82 | cps |
| Krypton | 83-1 | 320 | 323 | 357 | 333 | 6.08 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:37:07 | DataFile Name : | 025LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4974 | 4958 | 4798 | 4910 | 1.99 | cps |
| Lead | 207-1 | 4301 | 3997 | 4141 | 4146 | 3.66 | cps |
| Lead | 208-1 | 19292 | 18832 | 19042 | 19055 | 1.21 | cps |
| Lithium | 6-1 | 622755 | 635215 | 619577 | 625849 | 1.32 | cps |
| Magnesium | 24-2 | 99023 | 100318 | 98657 | 99332 | 0.88 | cps |
| Manganese | 55-2 | 4051 | 3857 | 3767 | 3892 | 3.72 | cps |
| Molybdenum | 94-1 | 10881 | 10911 | 11301 | 11031 | 2.13 | cps |
| Molybdenum | 95-1 | 12502 | 12759 | 13263 | 12841 | 3.01 | cps |
| Molybdenum | 96-1 | 14194 | 14587 | 14661 | 14481 | 1.73 | cps |
| Molybdenum | 97-1 | 7722 | 8149 | 8242 | 8038 | 3.45 | cps |
| Molybdenum | 98-1 | 21069 | 20892 | 20464 | 20808 | 1.49 | cps |
| Neodymium | 150-1 | 10 | 13 | 0 | 8 | 89.21 | cps |
| Neodymium | 150-2 | 3 | 7 | 3 | 4 | 43.40 | cps |
| Nickel | 60-2 | 1187 | 1153 | 1110 | 1150 | 3.34 | cps |
| Phosphorus | 31-2 | 463 | 487 | 467 | 472 | 2.67 | cps |
| Potassium | 39-2 | 182888 | 183769 | 182317 | 182991 | 0.40 | cps |
| Rhodium | 103-1 | 4921513 | 5053258 | 4943198 | 4972656 | 1.42 | cps |
| Rhodium | 103-2 | 3157012 | 3126519 | 3082867 | 3122133 | 1.19 | cps |
| Scandium | 45-1 | 2934293 | 2954179 | 2892335 | 2926936 | 1.08 | cps |
| Scandium | 45-2 | 280357 | 279281 | 275873 | 278504 | 0.84 | cps |
| Selenium | 82-1 | 784 | 795 | 711 | 763 | 5.96 | cps |
| Selenium | 77-2 | 57 | 97 | 60 | 71 | 31.21 | cps |
| Selenium | 78-2 | 1023 | 900 | 887 | 937 | 8.04 | cps |
| Silicon | 28-1 | 846452 | 846551 | 846753 | 846585 | 0.02 | cps |
| Silver | 107-1 | 6958 | 7155 | 6532 | 6882 | 4.63 | cps |
| Silver | 109-1 | 6735 | 6558 | 6478 | 6590 | 1.99 | cps |
| Sodium | 23-2 | 173347 | 178311 | 175275 | 175644 | 1.42 | cps |
| Strontium | 86-1 | 2234 | 2324 | 2200 | 2252 | 2.83 | cps |
| Strontium | 88-1 | 15265 | 15338 | 15121 | 15241 | 0.72 | cps |
| Sulfur | 34-1 | 105179 | 105229 | 107109 | 105839 | 1.04 | cps |
| Terbium | 159-1 | 6468958 | 6591065 | 6541907 | 6533977 | 0.94 | cps |
| Terbium | 159-2 | 4879128 | 4892460 | 4714736 | 4828775 | 2.05 | cps |
| Thallium | 203-1 | 5238 | 5284 | 5121 | 5214 | 1.61 | cps |
| Thallium | 205-1 | 12322 | 12252 | 12379 | 12318 | 0.52 | cps |
| Tin | 118-1 | 22261 | 23012 | 22274 | 22516 | 1.91 | cps |
| Titanium | 47-1 | 3257 | 3334 | 3294 | 3295 | 1.16 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:37:07 | DataFile Name : | 025LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 14495 | 14792 | 14425 | 14570 | 1.34 | cps |
| Vanadium | 51-2 | 9730 | 9596 | 9416 | 9581 | 1.64 | cps |
| Yttrium | 89-1 | 7723480 | 7655305 | 7672292 | 7683692 | 0.46 | cps |
| Yttrium | 89-2 | 2277846 | 2263565 | 2256099 | 2265837 | 0.49 | cps |
| Zinc | 66-2 | 2780 | 2757 | 3030 | 2856 | 5.31 | cps |
| Zirconium | 90-1 | 9070 | 9356 | 9193 | 9206 | 1.56 | cps |
| Zirconium | 91-1 | 2130 | 1957 | 1917 | 2001 | 5.67 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:40:29 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 240 | 233 | 227 | 233 | 2.86 | cps |
| Antimony | 121-1 | 53 | 107 | 103 | 88 | 34.04 | cps |
| Arsenic | 75-2 | 17 | 7 | 10 | 11 | 45.82 | cps |
| Barium | 135-1 | 10 | 30 | 17 | 19 | 53.91 | cps |
| Barium | 137-1 | 43 | 27 | 23 | 31 | 34.44 | cps |
| Beryllium | 9-1 | 44 | 41 | 54 | 46 | 15.03 | cps |
| Bismuth | 209-1 | 3952448 | 4005790 | 3908202 | 3955480 | 1.24 | cps |
| Bismuth | 209-2 | 3630820 | 3552150 | 3518893 | 3567288 | 1.61 | cps |
| Bromine | 81-1 | 29349 | 29052 | 28287 | 28896 | 1.90 | cps |
| Bromine | 81-2 | 113 | 167 | 103 | 128 | 26.65 | cps |
| Cadmium | 108-1 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Cadmium | 106-1 | 1807 | 1963 | 1903 | 1891 | 4.18 | cps |
| Cadmium | 111-1 | 1287 | 1381 | 1341 | 1336 | 3.53 | cps |
| Calcium | 43-1 | 417 | 517 | 450 | 461 | 11.04 | cps |
| Calcium | 44-1 | 9377 | 9880 | 9373 | 9543 | 3.06 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 773 | 710 | 743 | 742 | 4.27 | cps |
| Cobalt | 59-2 | 70 | 63 | 97 | 77 | 23.01 | cps |
| Copper | 63-2 | 2434 | 2277 | 2410 | 2374 | 3.56 | cps |
| Dysprosium | 156-1 | 10 | 3 | 10 | 8 | 49.52 | cps |
| Dysprosium | 156-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 50 | 37 | 57 | 48 | 21.31 | cps |
| Erbium | 164-2 | 27 | 27 | 27 | 27 | 0.00 | cps |
| Gadolinium | 160-1 | 33 | 20 | 37 | 30 | 29.40 | cps |
| Gadolinium | 160-2 | 243 | 270 | 237 | 250 | 7.06 | cps |
| Holmium | 165-1 | 6300874 | 6284003 | 6240254 | 6275044 | 0.50 | cps |
| Holmium | 165-2 | 4746477 | 4779990 | 4827628 | 4784699 | 0.85 | cps |
| Indium | 115-1 | 5308907 | 5344439 | 5211053 | 5288133 | 1.31 | cps |
| Indium | 115-2 | 2122982 | 2097190 | 2056971 | 2092381 | 1.59 | cps |
| Iron | 56-2 | 23261 | 22457 | 23158 | 22959 | 1.91 | cps |
| Iron | 57-2 | 1003 | 1243 | 1217 | 1155 | 11.39 | cps |
| Iron | 54-2 | 2814 | 2644 | 2794 | 2750 | 3.38 | cps |
| Krypton | 83-1 | 347 | 353 | 383 | 361 | 5.41 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:40:29 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 743 | 833 | 717 | 764 | 8.00 | cps |
| Lead | 207-1 | 583 | 703 | 713 | 667 | 10.85 | cps |
| Lead | 208-1 | 2877 | 3144 | 3134 | 3051 | 4.95 | cps |
| Lithium | 6-1 | 623487 | 622615 | 618773 | 621625 | 0.40 | cps |
| Magnesium | 24-2 | 290 | 320 | 347 | 319 | 8.89 | cps |
| Manganese | 55-2 | 850 | 917 | 917 | 894 | 4.30 | cps |
| Molybdenum | 94-1 | 153 | 157 | 150 | 153 | 2.17 | cps |
| Molybdenum | 95-1 | 67 | 67 | 90 | 74 | 18.09 | cps |
| Molybdenum | 96-1 | 200 | 163 | 160 | 174 | 12.72 | cps |
| Molybdenum | 97-1 | 80 | 47 | 50 | 59 | 31.17 | cps |
| Molybdenum | 98-1 | 93 | 97 | 117 | 102 | 12.35 | cps |
| Neodymium | 150-1 | 0 | 10 | 10 | 7 | 86.60 | cps |
| Neodymium | 150-2 | 13 | 0 | 0 | 4 | 173.21 | cps |
| Nickel | 60-2 | 187 | 173 | 157 | 172 | 8.73 | cps |
| Phosphorus | 31-2 | 263 | 363 | 337 | 321 | 16.13 | cps |
| Potassium | 39-2 | 49293 | 49758 | 49912 | 49654 | 0.65 | cps |
| Rhodium | 103-1 | 5025063 | 5005799 | 5049205 | 5026689 | 0.43 | cps |
| Rhodium | 103-2 | 3129765 | 3187014 | 3145959 | 3154246 | 0.94 | cps |
| Scandium | 45-1 | 3000173 | 2889126 | 2913300 | 2934200 | 1.99 | cps |
| Scandium | 45-2 | 281318 | 278399 | 280751 | 280156 | 0.55 | cps |
| Selenium | 82-1 | 224 | 187 | 207 | 206 | 8.82 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 870 | 713 | 740 | 774 | 10.82 | cps |
| Silicon | 28-1 | 834204 | 829242 | 828612 | 830686 | 0.37 | cps |
| Silver | 107-1 | 77 | 87 | 103 | 89 | 15.15 | cps |
| Silver | 109-1 | 47 | 37 | 63 | 49 | 27.55 | cps |
| Sodium | 23-2 | 18354 | 18284 | 18324 | 18321 | 0.19 | cps |
| Strontium | 86-1 | 500 | 540 | 630 | 557 | 11.96 | cps |
| Strontium | 88-1 | 103 | 137 | 120 | 120 | 13.89 | cps |
| Sulfur | 34-1 | 104977 | 105715 | 107438 | 106043 | 1.19 | cps |
| Terbium | 159-1 | 6369459 | 6450970 | 6555313 | 6458581 | 1.44 | cps |
| Terbium | 159-2 | 4944547 | 4774972 | 4730527 | 4816682 | 2.34 | cps |
| Thallium | 203-1 | 430 | 457 | 377 | 421 | 9.67 | cps |
| Thallium | 205-1 | 1050 | 1117 | 1017 | 1061 | 4.80 | cps |
| Tin | 118-1 | 867 | 837 | 787 | 830 | 4.87 | cps |
| Titanium | 47-1 | 80 | 63 | 77 | 73 | 12.03 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:40:29 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 33 | 17 | 17 | 22 | 43.28 | cps |
| Vanadium | 51-2 | 13 | 7 | 17 | 12 | 41.65 | cps |
| Yttrium | 89-1 | 7730294 | 7724719 | 7750460 | 7735158 | 0.18 | cps |
| Yttrium | 89-2 | 2228027 | 2286861 | 2277129 | 2264005 | 1.39 | cps |
| Zinc | 66-2 | 280 | 300 | 383 | 321 | 17.07 | cps |
| Zirconium | 90-1 | 390 | 317 | 387 | 364 | 11.36 | cps |
| Zirconium | 91-1 | 80 | 77 | 47 | 68 | 27.08 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:43:55 | DataFile Name : | 027LCSS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1223583 | 1230170 | 1199213 | 1217655 | 1.34 | cps |
| Antimony | 121-1 | 2545813 | 2585925 | 2536578 | 2556105 | 1.03 | cps |
| Arsenic | 75-2 | 162203 | 160357 | 157799 | 160120 | 1.38 | cps |
| Barium | 135-1 | 3376768 | 3421688 | 3411776 | 3403411 | 0.69 | cps |
| Barium | 137-1 | 5936074 | 5863222 | 5947442 | 5915579 | 0.77 | cps |
| Beryllium | 9-1 | 342713 | 352515 | 356639 | 350623 | 2.04 | cps |
| Bismuth | 209-1 | 3994718 | 3888597 | 3985227 | 3956181 | 1.48 | cps |
| Bismuth | 209-2 | 3494751 | 3554773 | 3526115 | 3525213 | 0.85 | cps |
| Bromine | 81-1 | 28875 | 27696 | 27913 | 28162 | 2.23 | cps |
| Bromine | 81-2 | 167 | 210 | 190 | 189 | 11.48 | cps |
| Cadmium | 108-1 | 54592 | 53967 | 54920 | 54493 | 0.89 | cps |
| Cadmium | 106-1 | 77254 | 78049 | 78306 | 77870 | 0.70 | cps |
| Cadmium | 111-1 | 749145 | 752035 | 751018 | 750733 | 0.20 | cps |
| Calcium | 43-1 | 738129 | 737669 | 733117 | 736305 | 0.38 | cps |
| Calcium | 44-1 | 11650649 | 11573141 | 11498698 | 11574163 | 0.66 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1133556 | 1128426 | 1127082 | 1129688 | 0.30 | cps |
| Cobalt | 59-2 | 1805652 | 1775452 | 1789209 | 1790104 | 0.84 | cps |
| Copper | 63-2 | 13640012 | 13537507 | 13726052 | 13634524 | 0.69 | cps |
| Dysprosium | 156-1 | 70 | 83 | 47 | 67 | 27.83 | cps |
| Dysprosium | 156-2 | 173 | 203 | 157 | 178 | 13.30 | cps |
| Erbium | 164-1 | 107 | 90 | 77 | 91 | 16.50 | cps |
| Erbium | 164-2 | 87 | 70 | 77 | 78 | 10.79 | cps |
| Gadolinium | 160-1 | 53 | 57 | 77 | 62 | 20.29 | cps |
| Gadolinium | 160-2 | 273 | 350 | 360 | 328 | 14.47 | cps |
| Holmium | 165-1 | 6442322 | 6482163 | 6429702 | 6451396 | 0.42 | cps |
| Holmium | 165-2 | 4843413 | 4780695 | 4799358 | 4807822 | 0.67 | cps |
| Indium | 115-1 | 5316499 | 5234634 | 5256073 | 5269069 | 0.81 | cps |
| Indium | 115-2 | 2075044 | 2045048 | 2016452 | 2045515 | 1.43 | cps |
| Iron | 56-2 | 53415271 | 52533404 | 52271154 | 52739943 | 1.14 | cps |
| Iron | 57-2 | 1370899 | 1369422 | 1374770 | 1371697 | 0.20 | cps |
| Iron | 54-2 | 2904420 | 2912803 | 2966170 | 2927798 | 1.14 | cps |
| Krypton | 83-1 | 390 | 380 | 360 | 377 | 4.06 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:43:55 | DataFile Name : | 027LCSS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 10225792 | 10125107 | 10332033 | 10227644 | 1.01 | cps |
| Lead | 207-1 | 9162018 | 9027841 | 9036929 | 9075596 | 0.83 | cps |
| Lead | 208-1 | 41256148 | 41095276 | 41110965 | 41154130 | 0.22 | cps |
| Lithium | 6-1 | 622220 | 630379 | 632615 | 628405 | 0.87 | cps |
| Magnesium | 24-2 | 10374445 | 10254751 | 10348601 | 10325932 | 0.61 | cps |
| Manganese | 55-2 | 9826502 | 9846668 | 9947811 | 9873660 | 0.66 | cps |
| Molybdenum | 94-1 | 9338422 | 9499686 | 9459497 | 9432535 | 0.89 | cps |
| Molybdenum | 95-1 | 13360931 | 13626203 | 13444258 | 13477131 | 1.01 | cps |
| Molybdenum | 96-1 | 14712865 | 15000879 | 14968942 | 14894229 | 1.06 | cps |
| Molybdenum | 97-1 | 8375158 | 8344287 | 8262441 | 8327296 | 0.70 | cps |
| Molybdenum | 98-1 | 21640095 | 21783464 | 21501341 | 21641633 | 0.65 | cps |
| Neodymium | 150-1 | 130 | 137 | 173 | 147 | 15.91 | cps |
| Neodymium | 150-2 | 40 | 47 | 80 | 56 | 38.57 | cps |
| Nickel | 60-2 | 465658 | 462064 | 461517 | 463080 | 0.49 | cps |
| Phosphorus | 31-2 | 72243 | 71144 | 71654 | 71680 | 0.77 | cps |
| Potassium | 39-2 | 6847649 | 6734355 | 6743331 | 6775111 | 0.93 | cps |
| Rhodium | 103-1 | 5006992 | 4997570 | 4935900 | 4980154 | 0.78 | cps |
| Rhodium | 103-2 | 3093394 | 3117694 | 3083850 | 3098312 | 0.56 | cps |
| Scandium | 45-1 | 2922592 | 2945224 | 2965068 | 2944295 | 0.72 | cps |
| Scandium | 45-2 | 277249 | 275778 | 274524 | 275850 | 0.49 | cps |
| Selenium | 82-1 | 56611 | 57679 | 57845 | 57378 | 1.17 | cps |
| Selenium | 77-2 | 6915 | 6632 | 6495 | 6680 | 3.21 | cps |
| Selenium | 78-2 | 23018 | 22621 | 23122 | 22920 | 1.15 | cps |
| Silicon | 28-1 | 10739286 | 10674519 | 10722847 | 10712217 | 0.31 | cps |
| Silver | 107-1 | 3536181 | 3593078 | 3645865 | 3591708 | 1.53 | cps |
| Silver | 109-1 | 3518185 | 3491371 | 3533154 | 3514237 | 0.60 | cps |
| Sodium | 23-2 | 16812584 | 16651558 | 16745234 | 16736459 | 0.48 | cps |
| Strontium | 86-1 | 863797 | 863835 | 865984 | 864539 | 0.14 | cps |
| Strontium | 88-1 | 7624053 | 7595569 | 7709303 | 7642975 | 0.77 | cps |
| Sulfur | 34-1 | 315263 | 314534 | 308454 | 312751 | 1.20 | cps |
| Terbium | 159-1 | 6557717 | 6667637 | 6609541 | 6611632 | 0.83 | cps |
| Terbium | 159-2 | 4927836 | 4820525 | 4816713 | 4855025 | 1.30 | cps |
| Thallium | 203-1 | 2577306 | 2621303 | 2608830 | 2602480 | 0.87 | cps |
| Thallium | 205-1 | 6215358 | 6091660 | 6166637 | 6157885 | 1.01 | cps |
| Tin | 118-1 | 2206684 | 2229361 | 2250052 | 2228699 | 0.97 | cps |
| Titanium | 47-1 | 3385174 | 3428642 | 3384253 | 3399357 | 0.75 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | PB167465BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB167465BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:43:55 | DataFile Name : | 027LCSS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 8042043 | 8054050 | 7978701 | 8024931 | 0.50 | cps |
| Vanadium | 51-2 | 986749 | 986389 | 987405 | 986848 | 0.05 | cps |
| Yttrium | 89-1 | 7824683 | 7735788 | 7830861 | 7797111 | 0.68 | cps |
| Yttrium | 89-2 | 2272352 | 2239406 | 2217903 | 2243220 | 1.22 | cps |
| Zinc | 66-2 | 2661201 | 2626053 | 2639764 | 2642339 | 0.67 | cps |
| Zirconium | 90-1 | 4601834 | 4616989 | 4594618 | 4604481 | 0.25 | cps |
| Zirconium | 91-1 | 1031549 | 1040115 | 1035931 | 1035865 | 0.41 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:46:45 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 200472 | 200101 | 200394 | 200322 | 0.10 | cps |
| Antimony | 121-1 | 9293 | 9376 | 9413 | 9361 | 0.66 | cps |
| Arsenic | 75-2 | 260 | 307 | 357 | 308 | 15.71 | cps |
| Barium | 135-1 | 176344 | 175116 | 173770 | 175077 | 0.74 | cps |
| Barium | 137-1 | 303886 | 303342 | 301617 | 302948 | 0.39 | cps |
| Beryllium | 9-1 | 61 | 41 | 31 | 45 | 34.40 | cps |
| Bismuth | 209-1 | 4287022 | 4374079 | 4405026 | 4355376 | 1.40 | cps |
| Bismuth | 209-2 | 3911615 | 3893405 | 3797233 | 3867418 | 1.59 | cps |
| Bromine | 81-1 | 52199 | 57217 | 60360 | 56592 | 7.27 | cps |
| Bromine | 81-2 | 7649 | 7926 | 8246 | 7940 | 3.76 | cps |
| Cadmium | 108-1 | 30 | 43 | 27 | 33 | 26.45 | cps |
| Cadmium | 106-1 | 2134 | 2007 | 1957 | 2032 | 4.48 | cps |
| Cadmium | 111-1 | 1549 | 1451 | 1421 | 1474 | 4.54 | cps |
| Calcium | 43-1 | 1411247 | 1443141 | 1408671 | 1421020 | 1.35 | cps |
| Calcium | 44-1 | 23781524 | 23867408 | 23196017 | 23614983 | 1.55 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2427 | 2500 | 2437 | 2455 | 1.62 | cps |
| Cobalt | 59-2 | 820 | 760 | 813 | 798 | 4.12 | cps |
| Copper | 63-2 | 2640 | 2560 | 2484 | 2561 | 3.06 | cps |
| Dysprosium | 156-1 | 27 | 3 | 23 | 18 | 71.00 | cps |
| Dysprosium | 156-2 | 20 | 3 | 0 | 8 | 137.80 | cps |
| Erbium | 164-1 | 50 | 67 | 47 | 54 | 19.68 | cps |
| Erbium | 164-2 | 30 | 40 | 37 | 36 | 14.32 | cps |
| Gadolinium | 160-1 | 33 | 23 | 40 | 32 | 26.04 | cps |
| Gadolinium | 160-2 | 287 | 283 | 277 | 282 | 1.80 | cps |
| Holmium | 165-1 | 7060935 | 7091856 | 7091245 | 7081345 | 0.25 | cps |
| Holmium | 165-2 | 5313868 | 5251666 | 5227456 | 5264330 | 0.85 | cps |
| Indium | 115-1 | 5890677 | 5834791 | 5842597 | 5856022 | 0.52 | cps |
| Indium | 115-2 | 2246084 | 2278531 | 2303851 | 2276155 | 1.27 | cps |
| Iron | 56-2 | 166608 | 165234 | 165383 | 165742 | 0.45 | cps |
| Iron | 57-2 | 32442 | 33427 | 33207 | 33025 | 1.57 | cps |
| Iron | 54-2 | 10380 | 10604 | 10414 | 10466 | 1.15 | cps |
| Krypton | 83-1 | 277 | 297 | 257 | 277 | 7.23 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:46:45 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1343 | 1140 | 1067 | 1183 | 12.11 | cps |
| Lead | 207-1 | 923 | 947 | 973 | 948 | 2.64 | cps |
| Lead | 208-1 | 4780 | 4477 | 4380 | 4546 | 4.59 | cps |
| Lithium | 6-1 | 699019 | 702273 | 691744 | 697679 | 0.77 | cps |
| Magnesium | 24-2 | 72047 | 72523 | 71311 | 71961 | 0.85 | cps |
| Manganese | 55-2 | 11491 | 11171 | 11488 | 11383 | 1.62 | cps |
| Molybdenum | 94-1 | 129803 | 132150 | 130143 | 130698 | 0.97 | cps |
| Molybdenum | 95-1 | 229424 | 229489 | 227407 | 228773 | 0.52 | cps |
| Molybdenum | 96-1 | 244930 | 244156 | 243052 | 244046 | 0.39 | cps |
| Molybdenum | 97-1 | 144140 | 143733 | 144325 | 144066 | 0.21 | cps |
| Molybdenum | 98-1 | 372228 | 366806 | 366559 | 368531 | 0.87 | cps |
| Neodymium | 150-1 | 13 | 7 | 20 | 13 | 49.99 | cps |
| Neodymium | 150-2 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Nickel | 60-2 | 10397 | 10821 | 10661 | 10626 | 2.01 | cps |
| Phosphorus | 31-2 | 617 | 490 | 573 | 560 | 11.50 | cps |
| Potassium | 39-2 | 6902339 | 6940967 | 6847932 | 6897079 | 0.68 | cps |
| Rhodium | 103-1 | 5485163 | 5427704 | 5449512 | 5454126 | 0.53 | cps |
| Rhodium | 103-2 | 3476015 | 3488350 | 3424609 | 3462991 | 0.98 | cps |
| Scandium | 45-1 | 3309868 | 3293178 | 3184107 | 3262384 | 2.09 | cps |
| Scandium | 45-2 | 310416 | 310962 | 309806 | 310394 | 0.19 | cps |
| Selenium | 82-1 | 367 | 329 | 430 | 375 | 13.54 | cps |
| Selenium | 77-2 | 23 | 3 | 3 | 10 | 115.51 | cps |
| Selenium | 78-2 | 817 | 773 | 750 | 780 | 4.34 | cps |
| Silicon | 28-1 | 11324307 | 11385488 | 11138327 | 11282707 | 1.14 | cps |
| Silver | 107-1 | 170 | 140 | 123 | 144 | 16.37 | cps |
| Silver | 109-1 | 107 | 110 | 130 | 116 | 10.92 | cps |
| Sodium | 23-2 | 7201971 | 7222520 | 7215963 | 7213485 | 0.15 | cps |
| Strontium | 86-1 | 1040505 | 1037870 | 1029877 | 1036084 | 0.53 | cps |
| Strontium | 88-1 | 9371102 | 9144841 | 9062744 | 9192896 | 1.74 | cps |
| Sulfur | 34-1 | 190173 | 187660 | 189598 | 189144 | 0.70 | cps |
| Terbium | 159-1 | 7358518 | 7356397 | 7209823 | 7308246 | 1.17 | cps |
| Terbium | 159-2 | 5375874 | 5327279 | 5157441 | 5286865 | 2.17 | cps |
| Thallium | 203-1 | 510 | 450 | 380 | 447 | 14.57 | cps |
| Thallium | 205-1 | 1203 | 1203 | 1120 | 1176 | 4.09 | cps |
| Tin | 118-1 | 2190 | 2167 | 2184 | 2180 | 0.55 | cps |
| Titanium | 47-1 | 340 | 227 | 307 | 291 | 20.01 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:46:45 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 133 | 127 | 150 | 137 | 8.79 | cps |
| Vanadium | 51-2 | 8279 | 8066 | 7915 | 8087 | 2.26 | cps |
| Yttrium | 89-1 | 8525343 | 8565071 | 8423879 | 8504764 | 0.86 | cps |
| Yttrium | 89-2 | 2514176 | 2478996 | 2537586 | 2510253 | 1.17 | cps |
| Zinc | 66-2 | 800 | 763 | 670 | 744 | 9.00 | cps |
| Zirconium | 90-1 | 603 | 617 | 563 | 594 | 4.67 | cps |
| Zirconium | 91-1 | 177 | 133 | 133 | 148 | 16.93 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01DUP | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:49:57 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 207160 | 205403 | 209733 | 207432 | 1.05 | cps |
| Antimony | 121-1 | 9316 | 9457 | 9433 | 9402 | 0.80 | cps |
| Arsenic | 75-2 | 337 | 350 | 353 | 347 | 2.54 | cps |
| Barium | 135-1 | 178197 | 179913 | 176334 | 178148 | 1.00 | cps |
| Barium | 137-1 | 306386 | 311617 | 306027 | 308010 | 1.02 | cps |
| Beryllium | 9-1 | 34 | 38 | 58 | 43 | 29.13 | cps |
| Bismuth | 209-1 | 4349333 | 4288208 | 4329104 | 4322215 | 0.72 | cps |
| Bismuth | 209-2 | 3865350 | 3857421 | 3799855 | 3840875 | 0.93 | cps |
| Bromine | 81-1 | 58074 | 64313 | 65990 | 62792 | 6.64 | cps |
| Bromine | 81-2 | 8362 | 8392 | 8629 | 8461 | 1.73 | cps |
| Cadmium | 108-1 | 47 | 43 | 33 | 41 | 16.89 | cps |
| Cadmium | 106-1 | 2204 | 2134 | 2147 | 2161 | 1.72 | cps |
| Cadmium | 111-1 | 1580 | 1523 | 1523 | 1542 | 2.13 | cps |
| Calcium | 43-1 | 1421855 | 1434320 | 1433634 | 1429937 | 0.49 | cps |
| Calcium | 44-1 | 23800796 | 23478026 | 23444092 | 23574305 | 0.84 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1970 | 2097 | 2207 | 2091 | 5.66 | cps |
| Cobalt | 59-2 | 587 | 587 | 590 | 588 | 0.33 | cps |
| Copper | 63-2 | 2414 | 2490 | 2564 | 2489 | 3.01 | cps |
| Dysprosium | 156-1 | 3 | 3 | 13 | 7 | 86.65 | cps |
| Dysprosium | 156-2 | 3 | 10 | 20 | 11 | 75.52 | cps |
| Erbium | 164-1 | 60 | 73 | 43 | 59 | 25.53 | cps |
| Erbium | 164-2 | 37 | 20 | 30 | 29 | 29.04 | cps |
| Gadolinium | 160-1 | 20 | 30 | 30 | 27 | 21.65 | cps |
| Gadolinium | 160-2 | 320 | 280 | 260 | 287 | 10.66 | cps |
| Holmium | 165-1 | 7275928 | 7242682 | 7028109 | 7182239 | 1.87 | cps |
| Holmium | 165-2 | 5309370 | 5356913 | 5152843 | 5273042 | 2.02 | cps |
| Indium | 115-1 | 6001086 | 6011084 | 5878242 | 5963471 | 1.24 | cps |
| Indium | 115-2 | 2362944 | 2309666 | 2343006 | 2338539 | 1.15 | cps |
| Iron | 56-2 | 169163 | 169912 | 168608 | 169228 | 0.39 | cps |
| Iron | 57-2 | 33694 | 34182 | 33407 | 33761 | 1.16 | cps |
| Iron | 54-2 | 10350 | 10460 | 10327 | 10379 | 0.69 | cps |
| Krypton | 83-1 | 313 | 303 | 360 | 326 | 9.29 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01DUP | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:49:57 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 900 | 1000 | 1053 | 984 | 7.91 | cps |
| Lead | 207-1 | 873 | 853 | 867 | 864 | 1.18 | cps |
| Lead | 208-1 | 3877 | 3984 | 3977 | 3946 | 1.51 | cps |
| Lithium | 6-1 | 653354 | 657362 | 646613 | 652443 | 0.83 | cps |
| Magnesium | 24-2 | 75963 | 74657 | 74683 | 75101 | 0.99 | cps |
| Manganese | 55-2 | 14624 | 14324 | 14277 | 14408 | 1.31 | cps |
| Molybdenum | 94-1 | 132288 | 132422 | 132957 | 132556 | 0.27 | cps |
| Molybdenum | 95-1 | 233128 | 232760 | 232457 | 232782 | 0.14 | cps |
| Molybdenum | 96-1 | 248455 | 248090 | 248098 | 248214 | 0.08 | cps |
| Molybdenum | 97-1 | 144928 | 144409 | 146617 | 145318 | 0.79 | cps |
| Molybdenum | 98-1 | 371996 | 377707 | 373487 | 374397 | 0.79 | cps |
| Neodymium | 150-1 | 40 | 7 | 10 | 19 | 97.18 | cps |
| Neodymium | 150-2 | 10 | 7 | 3 | 7 | 50.03 | cps |
| Nickel | 60-2 | 9810 | 10277 | 9910 | 9999 | 2.46 | cps |
| Phosphorus | 31-2 | 650 | 677 | 687 | 671 | 2.82 | cps |
| Potassium | 39-2 | 7155313 | 7106346 | 7275153 | 7178937 | 1.21 | cps |
| Rhodium | 103-1 | 5689458 | 5626857 | 5563449 | 5626588 | 1.12 | cps |
| Rhodium | 103-2 | 3484788 | 3504298 | 3515983 | 3501690 | 0.45 | cps |
| Scandium | 45-1 | 3344525 | 3280285 | 3273951 | 3299587 | 1.18 | cps |
| Scandium | 45-2 | 321934 | 322173 | 323029 | 322378 | 0.18 | cps |
| Selenium | 82-1 | 356 | 384 | 383 | 374 | 4.31 | cps |
| Selenium | 77-2 | 17 | 13 | 7 | 12 | 41.65 | cps |
| Selenium | 78-2 | 773 | 810 | 820 | 801 | 3.07 | cps |
| Silicon | 28-1 | 11330800 | 11511369 | 11399033 | 11413734 | 0.80 | cps |
| Silver | 107-1 | 77 | 63 | 100 | 80 | 23.20 | cps |
| Silver | 109-1 | 47 | 60 | 60 | 56 | 13.85 | cps |
| Sodium | 23-2 | 7384107 | 7438942 | 7466085 | 7429712 | 0.56 | cps |
| Strontium | 86-1 | 1056244 | 1061606 | 1065418 | 1061090 | 0.43 | cps |
| Strontium | 88-1 | 9466367 | 9510150 | 9448300 | 9474939 | 0.34 | cps |
| Sulfur | 34-1 | 198808 | 202134 | 205764 | 202235 | 1.72 | cps |
| Terbium | 159-1 | 7378723 | 7350388 | 7338202 | 7355771 | 0.28 | cps |
| Terbium | 159-2 | 5176819 | 5289556 | 5330433 | 5265603 | 1.51 | cps |
| Thallium | 203-1 | 333 | 377 | 363 | 358 | 6.20 | cps |
| Thallium | 205-1 | 763 | 773 | 740 | 759 | 2.25 | cps |
| Tin | 118-1 | 2124 | 2027 | 2067 | 2072 | 2.34 | cps |
| Titanium | 47-1 | 273 | 297 | 297 | 289 | 4.66 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01DUP | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:49:57 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 103 | 147 | 137 | 129 | 17.61 | cps |
| Vanadium | 51-2 | 8356 | 8292 | 8562 | 8404 | 1.68 | cps |
| Yttrium | 89-1 | 8687042 | 8797945 | 8681597 | 8722195 | 0.75 | cps |
| Yttrium | 89-2 | 2566522 | 2562740 | 2572765 | 2567342 | 0.20 | cps |
| Zinc | 66-2 | 783 | 677 | 600 | 687 | 13.41 | cps |
| Zirconium | 90-1 | 560 | 547 | 517 | 541 | 4.10 | cps |
| Zirconium | 91-1 | 113 | 77 | 97 | 96 | 19.21 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-04 15:53:13 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 39551 | 39330 | 39999 | 39627 | 0.86 | cps |
| Antimony | 121-1 | 1820 | 1810 | 1860 | 1830 | 1.45 | cps |
| Arsenic | 75-2 | 73 | 63 | 77 | 71 | 9.76 | cps |
| Barium | 135-1 | 33553 | 34228 | 32236 | 33339 | 3.04 | cps |
| Barium | 137-1 | 56980 | 58021 | 57198 | 57400 | 0.96 | cps |
| Beryllium | 9-1 | 54 | 21 | 41 | 39 | 43.47 | cps |
| Bismuth | 209-1 | 4071223 | 4023730 | 3987392 | 4027448 | 1.04 | cps |
| Bismuth | 209-2 | 3586012 | 3664660 | 3584326 | 3611666 | 1.27 | cps |
| Bromine | 81-1 | 41381 | 41241 | 40064 | 40896 | 1.77 | cps |
| Bromine | 81-2 | 2850 | 2800 | 2687 | 2779 | 3.01 | cps |
| Cadmium | 108-1 | 7 | 20 | 17 | 14 | 48.02 | cps |
| Cadmium | 106-1 | 2097 | 1847 | 1943 | 1962 | 6.43 | cps |
| Cadmium | 111-1 | 1486 | 1309 | 1362 | 1386 | 6.58 | cps |
| Calcium | 43-1 | 280762 | 283657 | 279651 | 281357 | 0.74 | cps |
| Calcium | 44-1 | 4363057 | 4445955 | 4422290 | 4410434 | 0.97 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1263 | 1353 | 1227 | 1281 | 5.09 | cps |
| Cobalt | 59-2 | 130 | 163 | 180 | 158 | 16.14 | cps |
| Copper | 63-2 | 2477 | 2394 | 2394 | 2421 | 1.99 | cps |
| Dysprosium | 156-1 | 7 | 3 | 13 | 8 | 65.47 | cps |
| Dysprosium | 156-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Erbium | 164-1 | 60 | 40 | 27 | 42 | 39.73 | cps |
| Erbium | 164-2 | 30 | 60 | 50 | 47 | 32.73 | cps |
| Gadolinium | 160-1 | 47 | 33 | 33 | 38 | 20.39 | cps |
| Gadolinium | 160-2 | 257 | 247 | 260 | 254 | 2.73 | cps |
| Holmium | 165-1 | 6589621 | 6466608 | 6500521 | 6518917 | 0.97 | cps |
| Holmium | 165-2 | 4837141 | 4936440 | 4973937 | 4915839 | 1.44 | cps |
| Indium | 115-1 | 5469700 | 5485808 | 5508024 | 5487844 | 0.35 | cps |
| Indium | 115-2 | 2177496 | 2127085 | 2170658 | 2158413 | 1.27 | cps |
| Iron | 56-2 | 54314 | 53177 | 54080 | 53857 | 1.12 | cps |
| Iron | 57-2 | 7499 | 7662 | 7805 | 7655 | 2.01 | cps |
| Iron | 54-2 | 4181 | 4104 | 4417 | 4234 | 3.86 | cps |
| Krypton | 83-1 | 387 | 440 | 423 | 417 | 6.55 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-04 15:53:13 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 870 | 777 | 710 | 786 | 10.23 | cps |
| Lead | 207-1 | 683 | 627 | 677 | 662 | 4.68 | cps |
| Lead | 208-1 | 3200 | 3047 | 2997 | 3081 | 3.44 | cps |
| Lithium | 6-1 | 589143 | 598734 | 591481 | 593119 | 0.84 | cps |
| Magnesium | 24-2 | 14230 | 13960 | 14377 | 14189 | 1.49 | cps |
| Manganese | 55-2 | 3917 | 3941 | 4144 | 4001 | 3.12 | cps |
| Molybdenum | 94-1 | 24644 | 25686 | 25462 | 25264 | 2.17 | cps |
| Molybdenum | 95-1 | 44013 | 43595 | 43926 | 43845 | 0.50 | cps |
| Molybdenum | 96-1 | 46413 | 47260 | 47453 | 47042 | 1.18 | cps |
| Molybdenum | 97-1 | 27199 | 26998 | 27486 | 27228 | 0.90 | cps |
| Molybdenum | 98-1 | 70034 | 69692 | 69046 | 69590 | 0.72 | cps |
| Neodymium | 150-1 | 10 | 7 | 10 | 9 | 21.63 | cps |
| Neodymium | 150-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Nickel | 60-2 | 2297 | 2457 | 2260 | 2338 | 4.47 | cps |
| Phosphorus | 31-2 | 360 | 303 | 347 | 337 | 8.80 | cps |
| Potassium | 39-2 | 1379281 | 1372045 | 1376720 | 1376015 | 0.27 | cps |
| Rhodium | 103-1 | 5271992 | 5191723 | 5300695 | 5254803 | 1.07 | cps |
| Rhodium | 103-2 | 3271879 | 3246843 | 3251720 | 3256814 | 0.41 | cps |
| Scandium | 45-1 | 3015350 | 3080852 | 2981521 | 3025908 | 1.67 | cps |
| Scandium | 45-2 | 297493 | 293573 | 296429 | 295832 | 0.69 | cps |
| Selenium | 82-1 | 243 | 123 | 208 | 191 | 32.25 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 813 | 847 | 800 | 820 | 2.93 | cps |
| Silicon | 28-1 | 3102356 | 3105129 | 3068813 | 3092100 | 0.65 | cps |
| Silver | 107-1 | 47 | 43 | 50 | 47 | 7.15 | cps |
| Silver | 109-1 | 33 | 37 | 37 | 36 | 5.42 | cps |
| Sodium | 23-2 | 1394321 | 1391382 | 1397876 | 1394526 | 0.23 | cps |
| Strontium | 86-1 | 198167 | 201592 | 198861 | 199540 | 0.91 | cps |
| Strontium | 88-1 | 1751963 | 1791692 | 1717354 | 1753670 | 2.12 | cps |
| Sulfur | 34-1 | 127785 | 126589 | 126787 | 127054 | 0.50 | cps |
| Terbium | 159-1 | 6750669 | 6770536 | 6777051 | 6766085 | 0.20 | cps |
| Terbium | 159-2 | 4923893 | 4875016 | 4878471 | 4892460 | 0.56 | cps |
| Thallium | 203-1 | 243 | 207 | 237 | 229 | 8.53 | cps |
| Thallium | 205-1 | 530 | 527 | 597 | 551 | 7.17 | cps |
| Tin | 118-1 | 1143 | 1070 | 1093 | 1102 | 3.40 | cps |
| Titanium | 47-1 | 113 | 87 | 103 | 101 | 13.32 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-04 15:53:13 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 43 | 47 | 30 | 40 | 22.05 | cps |
| Vanadium | 51-2 | 1567 | 1603 | 1707 | 1626 | 4.47 | cps |
| Yttrium | 89-1 | 8118070 | 8174996 | 8006271 | 8099779 | 1.06 | cps |
| Yttrium | 89-2 | 2439855 | 2407496 | 2373229 | 2406860 | 1.38 | cps |
| Zinc | 66-2 | 560 | 570 | 590 | 573 | 2.66 | cps |
| Zirconium | 90-1 | 463 | 460 | 540 | 488 | 9.28 | cps |
| Zirconium | 91-1 | 93 | 117 | 80 | 97 | 19.20 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-02 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:56:27 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1398705 | 1375854 | 1363695 | 1379418 | 1.29 | cps |
| Antimony | 121-1 | 2696405 | 2681067 | 2679719 | 2685731 | 0.35 | cps |
| Arsenic | 75-2 | 310 | 333 | 377 | 340 | 9.95 | cps |
| Barium | 135-1 | 3381614 | 3412365 | 3389684 | 3394554 | 0.47 | cps |
| Barium | 137-1 | 5785413 | 5835750 | 5763119 | 5794761 | 0.64 | cps |
| Beryllium | 9-1 | 355181 | 364176 | 354806 | 358054 | 1.48 | cps |
| Bismuth | 209-1 | 4398970 | 4413018 | 4340988 | 4384325 | 0.87 | cps |
| Bismuth | 209-2 | 3753402 | 3828034 | 3824309 | 3801915 | 1.11 | cps |
| Bromine | 81-1 | 57077 | 62130 | 63298 | 60835 | 5.44 | cps |
| Bromine | 81-2 | 8172 | 8442 | 8529 | 8381 | 2.22 | cps |
| Cadmium | 108-1 | 53900 | 55021 | 54432 | 54451 | 1.03 | cps |
| Cadmium | 106-1 | 80237 | 80093 | 80716 | 80349 | 0.41 | cps |
| Cadmium | 111-1 | 764818 | 769440 | 758266 | 764175 | 0.73 | cps |
| Calcium | 43-1 | 2086851 | 2049204 | 2030806 | 2055620 | 1.39 | cps |
| Calcium | 44-1 | 34075887 | 34145479 | 33001029 | 33740798 | 1.90 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1163355 | 1151741 | 1149772 | 1154956 | 0.64 | cps |
| Cobalt | 59-2 | 1897283 | 1885015 | 1849104 | 1877134 | 1.33 | cps |
| Copper | 63-2 | 12864871 | 12758689 | 12692478 | 12772013 | 0.68 | cps |
| Dysprosium | 156-1 | 117 | 80 | 87 | 94 | 20.68 | cps |
| Dysprosium | 156-2 | 247 | 160 | 173 | 193 | 24.14 | cps |
| Erbium | 164-1 | 110 | 100 | 80 | 97 | 15.80 | cps |
| Erbium | 164-2 | 83 | 40 | 97 | 73 | 40.40 | cps |
| Gadolinium | 160-1 | 90 | 100 | 127 | 106 | 17.96 | cps |
| Gadolinium | 160-2 | 393 | 337 | 370 | 367 | 7.77 | cps |
| Holmium | 165-1 | 7179698 | 7236772 | 7173655 | 7196708 | 0.48 | cps |
| Holmium | 165-2 | 5256317 | 5266173 | 5222881 | 5248457 | 0.43 | cps |
| Indium | 115-1 | 6019979 | 5883313 | 5889900 | 5931064 | 1.30 | cps |
| Indium | 115-2 | 2311951 | 2266117 | 2267067 | 2281712 | 1.15 | cps |
| Iron | 56-2 | 50672028 | 50369489 | 49163681 | 50068399 | 1.59 | cps |
| Iron | 57-2 | 1321466 | 1317203 | 1313150 | 1317273 | 0.32 | cps |
| Iron | 54-2 | 2748228 | 2781971 | 2754511 | 2761570 | 0.65 | cps |
| Krypton | 83-1 | 310 | 377 | 380 | 356 | 11.11 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-02 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:56:27 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 10518447 | 10465368 | 10671564 | 10551793 | 1.01 | cps |
| Lead | 207-1 | 9251342 | 9330992 | 9411900 | 9331412 | 0.86 | cps |
| Lead | 208-1 | 42193169 | 42201921 | 42195430 | 42196840 | 0.01 | cps |
| Lithium | 6-1 | 658582 | 674728 | 671444 | 668252 | 1.28 | cps |
| Magnesium | 24-2 | 10843095 | 10726759 | 10815599 | 10795151 | 0.56 | cps |
| Manganese | 55-2 | 9462854 | 9546322 | 9335819 | 9448332 | 1.12 | cps |
| Molybdenum | 94-1 | 4877823 | 4885414 | 4748488 | 4837242 | 1.59 | cps |
| Molybdenum | 95-1 | 5278924 | 5402439 | 5319784 | 5333716 | 1.18 | cps |
| Molybdenum | 96-1 | 6032181 | 6044605 | 5992563 | 6023116 | 0.45 | cps |
| Molybdenum | 97-1 | 3357977 | 3302800 | 3325957 | 3328911 | 0.83 | cps |
| Molybdenum | 98-1 | 8675361 | 8691219 | 8518383 | 8628321 | 1.11 | cps |
| Neodymium | 150-1 | 180 | 180 | 160 | 173 | 6.66 | cps |
| Neodymium | 150-2 | 47 | 53 | 23 | 41 | 38.32 | cps |
| Nickel | 60-2 | 481548 | 484874 | 483894 | 483439 | 0.35 | cps |
| Phosphorus | 31-2 | 630 | 617 | 580 | 609 | 4.25 | cps |
| Potassium | 39-2 | 12412503 | 12423678 | 12339551 | 12391911 | 0.37 | cps |
| Rhodium | 103-1 | 5648034 | 5582380 | 5507358 | 5579257 | 1.26 | cps |
| Rhodium | 103-2 | 3382500 | 3331181 | 3430609 | 3381430 | 1.47 | cps |
| Scandium | 45-1 | 3331969 | 3349654 | 3284755 | 3322126 | 1.01 | cps |
| Scandium | 45-2 | 314479 | 317030 | 315092 | 315534 | 0.42 | cps |
| Selenium | 82-1 | 61174 | 61908 | 61339 | 61474 | 0.63 | cps |
| Selenium | 77-2 | 7425 | 6878 | 7172 | 7158 | 3.82 | cps |
| Selenium | 78-2 | 24848 | 24831 | 24664 | 24781 | 0.41 | cps |
| Silicon | 28-1 | 10639149 | 10520708 | 10356764 | 10505540 | 1.35 | cps |
| Silver | 107-1 | 637824 | 634106 | 631187 | 634372 | 0.52 | cps |
| Silver | 109-1 | 598843 | 601485 | 593051 | 597793 | 0.72 | cps |
| Sodium | 23-2 | 23395458 | 23883152 | 23519438 | 23599349 | 1.07 | cps |
| Strontium | 86-1 | 2005611 | 2021898 | 2028268 | 2018593 | 0.58 | cps |
| Strontium | 88-1 | 18002913 | 17813037 | 17686385 | 17834112 | 0.89 | cps |
| Sulfur | 34-1 | 210803 | 211390 | 211191 | 211128 | 0.14 | cps |
| Terbium | 159-1 | 7538196 | 7349318 | 7396091 | 7427868 | 1.32 | cps |
| Terbium | 159-2 | 5281670 | 5402443 | 5276337 | 5320150 | 1.34 | cps |
| Thallium | 203-1 | 2589577 | 2677019 | 2651997 | 2639531 | 1.71 | cps |
| Thallium | 205-1 | 6178582 | 6242033 | 6273990 | 6231535 | 0.78 | cps |
| Tin | 118-1 | 2113212 | 2117357 | 2134996 | 2121855 | 0.55 | cps |
| Titanium | 47-1 | 1480 | 1433 | 1527 | 1480 | 3.15 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-02 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:56:27 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 8251416 | 8257378 | 8186923 | 8231906 | 0.47 | cps |
| Vanadium | 51-2 | 1057967 | 1058428 | 1059412 | 1058602 | 0.07 | cps |
| Yttrium | 89-1 | 8845905 | 8841161 | 8796200 | 8827756 | 0.31 | cps |
| Yttrium | 89-2 | 2499097 | 2580721 | 2528587 | 2536135 | 1.63 | cps |
| Zinc | 66-2 | 2500963 | 2498829 | 2413773 | 2471188 | 2.01 | cps |
| Zirconium | 90-1 | 4819420 | 4806033 | 4779853 | 4801768 | 0.42 | cps |
| Zirconium | 91-1 | 1078638 | 1079273 | 1075133 | 1077681 | 0.21 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-03 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:59:19 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1401764 | 1427541 | 1400340 | 1409882 | 1.09 | cps |
| Antimony | 121-1 | 2746171 | 2753002 | 2755662 | 2751612 | 0.18 | cps |
| Arsenic | 75-2 | 293 | 393 | 427 | 371 | 18.70 | cps |
| Barium | 135-1 | 3431453 | 3394382 | 3353626 | 3393154 | 1.15 | cps |
| Barium | 137-1 | 5889680 | 5890067 | 5826353 | 5868700 | 0.62 | cps |
| Beryllium | 9-1 | 360936 | 359736 | 362137 | 360937 | 0.33 | cps |
| Bismuth | 209-1 | 4345899 | 4385172 | 4385546 | 4372206 | 0.52 | cps |
| Bismuth | 209-2 | 3874612 | 3832280 | 3735275 | 3814056 | 1.87 | cps |
| Bromine | 81-1 | 57161 | 61943 | 64119 | 61074 | 5.83 | cps |
| Bromine | 81-2 | 8042 | 8439 | 8673 | 8385 | 3.80 | cps |
| Cadmium | 108-1 | 54174 | 56309 | 55372 | 55285 | 1.94 | cps |
| Cadmium | 106-1 | 82161 | 81309 | 80599 | 81356 | 0.96 | cps |
| Cadmium | 111-1 | 777532 | 776399 | 779571 | 777834 | 0.21 | cps |
| Calcium | 43-1 | 2000125 | 2081583 | 2027942 | 2036550 | 2.03 | cps |
| Calcium | 44-1 | 33855235 | 33417118 | 33703782 | 33658712 | 0.66 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1183972 | 1173433 | 1171563 | 1176323 | 0.57 | cps |
| Cobalt | 59-2 | 1895797 | 1866483 | 1884413 | 1882231 | 0.79 | cps |
| Copper | 63-2 | 13114173 | 13095094 | 12961800 | 13057022 | 0.64 | cps |
| Dysprosium | 156-1 | 83 | 77 | 127 | 96 | 28.41 | cps |
| Dysprosium | 156-2 | 220 | 180 | 173 | 191 | 13.21 | cps |
| Erbium | 164-1 | 87 | 117 | 87 | 97 | 17.92 | cps |
| Erbium | 164-2 | 73 | 80 | 80 | 78 | 4.95 | cps |
| Gadolinium | 160-1 | 103 | 93 | 87 | 94 | 8.88 | cps |
| Gadolinium | 160-2 | 403 | 327 | 347 | 359 | 11.08 | cps |
| Holmium | 165-1 | 7323738 | 7019035 | 7151351 | 7164708 | 2.13 | cps |
| Holmium | 165-2 | 5254277 | 5197431 | 5318958 | 5256889 | 1.16 | cps |
| Indium | 115-1 | 5751179 | 5873641 | 5782801 | 5802540 | 1.10 | cps |
| Indium | 115-2 | 2291073 | 2225212 | 2305252 | 2273846 | 1.88 | cps |
| Iron | 56-2 | 50853328 | 51498898 | 50814794 | 51055673 | 0.75 | cps |
| Iron | 57-2 | 1346363 | 1338998 | 1339152 | 1341504 | 0.31 | cps |
| Iron | 54-2 | 2812564 | 2773665 | 2774684 | 2786971 | 0.80 | cps |
| Krypton | 83-1 | 290 | 347 | 343 | 327 | 9.73 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-03 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:59:19 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 10788124 | 10908799 | 10670164 | 10789029 | 1.11 | cps |
| Lead | 207-1 | 9536947 | 9669843 | 9561944 | 9589578 | 0.74 | cps |
| Lead | 208-1 | 43236084 | 43471504 | 43212681 | 43306756 | 0.33 | cps |
| Lithium | 6-1 | 669702 | 668477 | 667639 | 668606 | 0.16 | cps |
| Magnesium | 24-2 | 10968605 | 10744444 | 10753787 | 10822279 | 1.17 | cps |
| Manganese | 55-2 | 9713025 | 9601869 | 9551228 | 9622040 | 0.86 | cps |
| Molybdenum | 94-1 | 4894768 | 4851085 | 4902342 | 4882731 | 0.57 | cps |
| Molybdenum | 95-1 | 5372216 | 5258469 | 5339436 | 5323374 | 1.10 | cps |
| Molybdenum | 96-1 | 5999751 | 6011059 | 6018805 | 6009872 | 0.16 | cps |
| Molybdenum | 97-1 | 3322773 | 3354104 | 3327008 | 3334628 | 0.51 | cps |
| Molybdenum | 98-1 | 8758122 | 8674112 | 8667259 | 8699831 | 0.58 | cps |
| Neodymium | 150-1 | 163 | 150 | 150 | 154 | 4.99 | cps |
| Neodymium | 150-2 | 33 | 67 | 50 | 50 | 33.34 | cps |
| Nickel | 60-2 | 494427 | 492129 | 491155 | 492570 | 0.34 | cps |
| Phosphorus | 31-2 | 560 | 537 | 570 | 556 | 3.08 | cps |
| Potassium | 39-2 | 12738455 | 12646567 | 12860913 | 12748645 | 0.84 | cps |
| Rhodium | 103-1 | 5627787 | 5481637 | 5525412 | 5544945 | 1.35 | cps |
| Rhodium | 103-2 | 3396028 | 3420503 | 3466787 | 3427772 | 1.05 | cps |
| Scandium | 45-1 | 3362771 | 3319398 | 3298783 | 3326984 | 0.98 | cps |
| Scandium | 45-2 | 315574 | 315728 | 315160 | 315487 | 0.09 | cps |
| Selenium | 82-1 | 62280 | 62112 | 62087 | 62160 | 0.17 | cps |
| Selenium | 77-2 | 7512 | 6925 | 7385 | 7274 | 4.25 | cps |
| Selenium | 78-2 | 24290 | 24621 | 25101 | 24671 | 1.65 | cps |
| Silicon | 28-1 | 10300370 | 10643069 | 10768377 | 10570605 | 2.29 | cps |
| Silver | 107-1 | 643783 | 639919 | 643262 | 642322 | 0.33 | cps |
| Silver | 109-1 | 602149 | 609023 | 603905 | 605026 | 0.59 | cps |
| Sodium | 23-2 | 23808572 | 23417046 | 23368305 | 23531308 | 1.03 | cps |
| Strontium | 86-1 | 2005077 | 2018408 | 2026373 | 2016619 | 0.53 | cps |
| Strontium | 88-1 | 18133993 | 18069493 | 18398065 | 18200517 | 0.96 | cps |
| Sulfur | 34-1 | 204362 | 205087 | 203654 | 204368 | 0.35 | cps |
| Terbium | 159-1 | 7364358 | 7393650 | 7388130 | 7382046 | 0.21 | cps |
| Terbium | 159-2 | 5334301 | 5174678 | 5174246 | 5227742 | 1.77 | cps |
| Thallium | 203-1 | 2676672 | 2707115 | 2621660 | 2668482 | 1.62 | cps |
| Thallium | 205-1 | 6233379 | 6409233 | 6209134 | 6283915 | 1.74 | cps |
| Tin | 118-1 | 2179713 | 2170601 | 2164312 | 2171542 | 0.36 | cps |
| Titanium | 47-1 | 1427 | 1517 | 1290 | 1411 | 8.09 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-03 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 15:59:19 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 8288155 | 8291198 | 8421604 | 8333652 | 0.91 | cps |
| Vanadium | 51-2 | 1086911 | 1073037 | 1077879 | 1079276 | 0.65 | cps |
| Yttrium | 89-1 | 8816529 | 8707567 | 8754353 | 8759483 | 0.62 | cps |
| Yttrium | 89-2 | 2506693 | 2548524 | 2557996 | 2537738 | 1.08 | cps |
| Zinc | 66-2 | 2566510 | 2532274 | 2525151 | 2541312 | 0.87 | cps |
| Zirconium | 90-1 | 4842048 | 4861927 | 4861494 | 4855156 | 0.23 | cps |
| Zirconium | 91-1 | 1087244 | 1091528 | 1086248 | 1088340 | 0.26 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

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|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01A | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:02:08 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1392448 | 1437435 | 1412928 | 1414270 | 1.59 | cps |
| Antimony | 121-1 | 2734495 | 2760325 | 2766209 | 2753676 | 0.61 | cps |
| Arsenic | 75-2 | 383 | 367 | 447 | 399 | 10.58 | cps |
| Barium | 135-1 | 3451150 | 3413287 | 3424397 | 3429611 | 0.57 | cps |
| Barium | 137-1 | 5979004 | 5883692 | 5944642 | 5935779 | 0.81 | cps |
| Beryllium | 9-1 | 358452 | 357744 | 356539 | 357578 | 0.27 | cps |
| Bismuth | 209-1 | 4421280 | 4415953 | 4433227 | 4423486 | 0.20 | cps |
| Bismuth | 209-2 | 3881147 | 3890221 | 3796691 | 3856020 | 1.34 | cps |
| Bromine | 81-1 | 58760 | 60514 | 64453 | 61242 | 4.76 | cps |
| Bromine | 81-2 | 8256 | 8229 | 8543 | 8342 | 2.08 | cps |
| Cadmium | 108-1 | 53980 | 54642 | 54824 | 54482 | 0.81 | cps |
| Cadmium | 106-1 | 81266 | 82191 | 82238 | 81898 | 0.67 | cps |
| Cadmium | 111-1 | 774314 | 780117 | 779910 | 778114 | 0.42 | cps |
| Calcium | 43-1 | 1978841 | 1973262 | 2025295 | 1992466 | 1.43 | cps |
| Calcium | 44-1 | 33178822 | 33362948 | 32621441 | 33054404 | 1.17 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1176006 | 1169792 | 1168128 | 1171309 | 0.35 | cps |
| Cobalt | 59-2 | 1920669 | 1886091 | 1873499 | 1893420 | 1.29 | cps |
| Copper | 63-2 | 13207044 | 13127189 | 12733406 | 13022546 | 1.95 | cps |
| Dysprosium | 156-1 | 80 | 83 | 150 | 104 | 37.81 | cps |
| Dysprosium | 156-2 | 213 | 163 | 193 | 190 | 13.24 | cps |
| Erbium | 164-1 | 113 | 127 | 113 | 118 | 6.53 | cps |
| Erbium | 164-2 | 63 | 80 | 67 | 70 | 12.60 | cps |
| Gadolinium | 160-1 | 73 | 123 | 90 | 96 | 26.65 | cps |
| Gadolinium | 160-2 | 373 | 347 | 327 | 349 | 6.71 | cps |
| Holmium | 165-1 | 7249163 | 7191212 | 7337463 | 7259279 | 1.01 | cps |
| Holmium | 165-2 | 5319988 | 5407944 | 5347114 | 5358349 | 0.84 | cps |
| Indium | 115-1 | 5848966 | 5929218 | 5828316 | 5868833 | 0.91 | cps |
| Indium | 115-2 | 2281748 | 2261699 | 2257093 | 2266847 | 0.58 | cps |
| Iron | 56-2 | 50785773 | 50336998 | 49827033 | 50316601 | 0.95 | cps |
| Iron | 57-2 | 1341904 | 1338387 | 1318867 | 1333053 | 0.93 | cps |
| Iron | 54-2 | 2822148 | 2795936 | 2807087 | 2808391 | 0.47 | cps |
| Krypton | 83-1 | 363 | 307 | 357 | 342 | 9.05 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01A | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:02:08 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 10797023 | 10950598 | 10888809 | 10878810 | 0.71 | cps |
| Lead | 207-1 | 9643818 | 9761351 | 9690537 | 9698569 | 0.61 | cps |
| Lead | 208-1 | 43330860 | 43799432 | 44075837 | 43735376 | 0.86 | cps |
| Lithium | 6-1 | 655191 | 649387 | 646168 | 650249 | 0.70 | cps |
| Magnesium | 24-2 | 10900574 | 10826386 | 10809522 | 10845494 | 0.45 | cps |
| Manganese | 55-2 | 9637218 | 9616061 | 9524437 | 9592572 | 0.62 | cps |
| Molybdenum | 94-1 | 4915809 | 4900824 | 4893543 | 4903392 | 0.23 | cps |
| Molybdenum | 95-1 | 5357350 | 5355531 | 5383574 | 5365485 | 0.29 | cps |
| Molybdenum | 96-1 | 6016967 | 6066975 | 6003690 | 6029211 | 0.55 | cps |
| Molybdenum | 97-1 | 3376736 | 3340712 | 3332588 | 3350012 | 0.70 | cps |
| Molybdenum | 98-1 | 8679814 | 8643150 | 8632501 | 8651822 | 0.29 | cps |
| Neodymium | 150-1 | 123 | 143 | 173 | 147 | 17.16 | cps |
| Neodymium | 150-2 | 27 | 30 | 40 | 32 | 21.53 | cps |
| Nickel | 60-2 | 492371 | 489960 | 484739 | 489023 | 0.80 | cps |
| Phosphorus | 31-2 | 543 | 613 | 537 | 564 | 7.52 | cps |
| Potassium | 39-2 | 12631464 | 12591270 | 12611084 | 12611273 | 0.16 | cps |
| Rhodium | 103-1 | 5637208 | 5596434 | 5530307 | 5587983 | 0.97 | cps |
| Rhodium | 103-2 | 3423679 | 3508228 | 3351060 | 3427656 | 2.29 | cps |
| Scandium | 45-1 | 3316119 | 3273208 | 3228265 | 3272531 | 1.34 | cps |
| Scandium | 45-2 | 316443 | 315389 | 314332 | 315388 | 0.33 | cps |
| Selenium | 82-1 | 61676 | 61708 | 62227 | 61870 | 0.50 | cps |
| Selenium | 77-2 | 7048 | 7329 | 7252 | 7210 | 2.01 | cps |
| Selenium | 78-2 | 24938 | 25352 | 25075 | 25121 | 0.84 | cps |
| Silicon | 28-1 | 10074979 | 10137866 | 10292557 | 10168467 | 1.10 | cps |
| Silver | 107-1 | 642287 | 645857 | 643930 | 644025 | 0.28 | cps |
| Silver | 109-1 | 600815 | 605403 | 606040 | 604086 | 0.47 | cps |
| Sodium | 23-2 | 23565130 | 23619220 | 23676141 | 23620164 | 0.24 | cps |
| Strontium | 86-1 | 2033310 | 2015188 | 2059215 | 2035905 | 1.09 | cps |
| Strontium | 88-1 | 17990466 | 17752026 | 17617893 | 17786795 | 1.06 | cps |
| Sulfur | 34-1 | 199545 | 198561 | 199480 | 199195 | 0.28 | cps |
| Terbium | 159-1 | 7467049 | 7557555 | 7518386 | 7514330 | 0.60 | cps |
| Terbium | 159-2 | 5262254 | 5248754 | 5300522 | 5270510 | 0.51 | cps |
| Thallium | 203-1 | 2685167 | 2733126 | 2742098 | 2720130 | 1.13 | cps |
| Thallium | 205-1 | 6353514 | 6377717 | 6419836 | 6383689 | 0.53 | cps |
| Tin | 118-1 | 2132959 | 2160950 | 2173263 | 2155724 | 0.96 | cps |
| Titanium | 47-1 | 1260 | 1410 | 1443 | 1371 | 7.12 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-01A | Instrumnet Name : | P7 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:02:08 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 8305712 | 8368952 | 8403594 | 8359419 | 0.59 | cps |
| Vanadium | 51-2 | 1079952 | 1066066 | 1071442 | 1072487 | 0.65 | cps |
| Yttrium | 89-1 | 8728678 | 8717902 | 8619519 | 8688700 | 0.69 | cps |
| Yttrium | 89-2 | 2568788 | 2546552 | 2462776 | 2526038 | 2.21 | cps |
| Zinc | 66-2 | 2541495 | 2547327 | 2576815 | 2555213 | 0.74 | cps |
| Zirconium | 90-1 | 4860015 | 4890357 | 4785317 | 4845230 | 1.12 | cps |
| Zirconium | 91-1 | 1084195 | 1080081 | 1082946 | 1082407 | 0.19 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:10:17 | DataFile Name : | 035CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6655988 | 6599038 | 6512781 | 6589269 | 1.09 | cps |
| Antimony | 121-1 | 2592592 | 2614105 | 2610225 | 2605641 | 0.44 | cps |
| Arsenic | 75-2 | 168307 | 165323 | 167526 | 167052 | 0.93 | cps |
| Barium | 135-1 | 3458796 | 3505172 | 3469593 | 3477854 | 0.70 | cps |
| Barium | 137-1 | 5786297 | 6002533 | 5844465 | 5877765 | 1.90 | cps |
| Beryllium | 9-1 | 338928 | 340017 | 337304 | 338750 | 0.40 | cps |
| Bismuth | 209-1 | 3970263 | 3995925 | 3961127 | 3975772 | 0.45 | cps |
| Bismuth | 209-2 | 3524533 | 3477206 | 3503554 | 3501765 | 0.68 | cps |
| Bromine | 81-1 | 32646 | 33772 | 34641 | 33687 | 2.97 | cps |
| Bromine | 81-2 | 603 | 483 | 517 | 534 | 11.59 | cps |
| Cadmium | 108-1 | 52722 | 54676 | 53113 | 53504 | 1.93 | cps |
| Cadmium | 106-1 | 76098 | 79399 | 78521 | 78006 | 2.19 | cps |
| Cadmium | 111-1 | 719301 | 747342 | 733233 | 733292 | 1.91 | cps |
| Calcium | 43-1 | 3530897 | 3527641 | 3593776 | 3550771 | 1.05 | cps |
| Calcium | 44-1 | 58146064 | 58508401 | 58163701 | 58272722 | 0.35 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1223778 | 1220110 | 1214116 | 1219335 | 0.40 | cps |
| Cobalt | 59-2 | 1899279 | 1901474 | 1866553 | 1889102 | 1.04 | cps |
| Copper | 63-2 | 14111592 | 13923361 | 13985792 | 14006915 | 0.68 | cps |
| Dysprosium | 156-1 | 190 | 157 | 160 | 169 | 10.87 | cps |
| Dysprosium | 156-2 | 233 | 247 | 270 | 250 | 7.42 | cps |
| Erbium | 164-1 | 213 | 213 | 160 | 196 | 15.75 | cps |
| Erbium | 164-2 | 137 | 190 | 157 | 161 | 16.72 | cps |
| Gadolinium | 160-1 | 130 | 133 | 153 | 139 | 9.09 | cps |
| Gadolinium | 160-2 | 360 | 347 | 280 | 329 | 13.03 | cps |
| Holmium | 165-1 | 6781643 | 6737932 | 6689111 | 6736229 | 0.69 | cps |
| Holmium | 165-2 | 5016714 | 5098914 | 5050799 | 5055476 | 0.82 | cps |
| Indium | 115-1 | 5357669 | 5401351 | 5428245 | 5395755 | 0.66 | cps |
| Indium | 115-2 | 2140026 | 2140673 | 2124196 | 2134965 | 0.44 | cps |
| Iron | 56-2 | 282464909 | 278016423 | 281436229 | 280639187 | 0.83 | cps |
| Iron | 57-2 | 6965055 | 7031804 | 6919958 | 6972273 | 0.81 | cps |
| Iron | 54-2 | 15304841 | 15386245 | 15301296 | 15330794 | 0.31 | cps |
| Krypton | 83-1 | 353 | 447 | 377 | 392 | 12.38 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:10:17 | DataFile Name : | 035CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 10177455 | 10345549 | 10264437 | 10262480 | 0.82 | cps |
| Lead | 207-1 | 8995834 | 8982171 | 9005594 | 8994533 | 0.13 | cps |
| Lead | 208-1 | 41103815 | 41521217 | 41047920 | 41224317 | 0.63 | cps |
| Lithium | 6-1 | 604756 | 605288 | 612950 | 607665 | 0.75 | cps |
| Magnesium | 24-2 | 55510974 | 55484976 | 56346847 | 55780933 | 0.88 | cps |
| Manganese | 55-2 | 10549897 | 10577291 | 10504828 | 10544005 | 0.35 | cps |
| Molybdenum | 94-1 | 9834410 | 9917336 | 10096851 | 9949532 | 1.35 | cps |
| Molybdenum | 95-1 | 14148946 | 14481057 | 14401172 | 14343725 | 1.21 | cps |
| Molybdenum | 96-1 | 15465749 | 15827027 | 15696240 | 15663005 | 1.17 | cps |
| Molybdenum | 97-1 | 8850499 | 9063543 | 8999323 | 8971122 | 1.22 | cps |
| Molybdenum | 98-1 | 23398121 | 22950574 | 23289771 | 23212822 | 1.01 | cps |
| Neodymium | 150-1 | 267 | 333 | 200 | 267 | 25.00 | cps |
| Neodymium | 150-2 | 103 | 133 | 107 | 114 | 14.37 | cps |
| Nickel | 60-2 | 483062 | 481005 | 476338 | 480135 | 0.72 | cps |
| Phosphorus | 31-2 | 75756 | 75458 | 75244 | 75486 | 0.34 | cps |
| Potassium | 39-2 | 36883034 | 36782160 | 36840481 | 36835225 | 0.14 | cps |
| Rhodium | 103-1 | 4966867 | 5110771 | 4984798 | 5020812 | 1.56 | cps |
| Rhodium | 103-2 | 3170452 | 3184979 | 3158714 | 3171382 | 0.41 | cps |
| Scandium | 45-1 | 3063853 | 3121619 | 3081090 | 3088854 | 0.96 | cps |
| Scandium | 45-2 | 305757 | 301937 | 307343 | 305012 | 0.91 | cps |
| Selenium | 82-1 | 54467 | 55472 | 56038 | 55326 | 1.44 | cps |
| Selenium | 77-2 | 6958 | 6585 | 6932 | 6825 | 3.05 | cps |
| Selenium | 78-2 | 23105 | 22985 | 23155 | 23081 | 0.38 | cps |
| Silicon | 28-1 | 29343491 | 29300855 | 30115095 | 29586480 | 1.55 | cps |
| Silver | 107-1 | 3538411 | 3653585 | 3596634 | 3596210 | 1.60 | cps |
| Silver | 109-1 | 3338874 | 3484718 | 3414734 | 3412775 | 2.14 | cps |
| Sodium | 23-2 | 87856975 | 87645655 | 87965445 | 87822692 | 0.19 | cps |
| Strontium | 86-1 | 8821033 | 9027919 | 8987542 | 8945498 | 1.23 | cps |
| Strontium | 88-1 | 79209442 | 79329247 | 79603019 | 79380569 | 0.25 | cps |
| Sulfur | 34-1 | 320535 | 319206 | 323938 | 321226 | 0.76 | cps |
| Terbium | 159-1 | 6956353 | 6857567 | 6809085 | 6874335 | 1.09 | cps |
| Terbium | 159-2 | 5145799 | 4988448 | 5017102 | 5050450 | 1.66 | cps |
| Thallium | 203-1 | 2565248 | 2640356 | 2624927 | 2610177 | 1.52 | cps |
| Thallium | 205-1 | 6268081 | 6177764 | 6195283 | 6213709 | 0.77 | cps |
| Tin | 118-1 | 2120789 | 2171808 | 2151707 | 2148101 | 1.20 | cps |
| Titanium | 47-1 | 3378005 | 3418965 | 3448236 | 3415069 | 1.03 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:10:17 | DataFile Name : | 035CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 8187663 | 8108531 | 8394897 | 8230364 | 1.80 | cps |
| Vanadium | 51-2 | 1077117 | 1074102 | 1074678 | 1075299 | 0.15 | cps |
| Yttrium | 89-1 | 8072783 | 8263142 | 8073566 | 8136497 | 1.35 | cps |
| Yttrium | 89-2 | 2423553 | 2403811 | 2413201 | 2413522 | 0.41 | cps |
| Zinc | 66-2 | 2739892 | 2699944 | 2687574 | 2709137 | 1.01 | cps |
| Zirconium | 90-1 | 4932801 | 5089525 | 5014345 | 5012223 | 1.56 | cps |
| Zirconium | 91-1 | 1099504 | 1118383 | 1115310 | 1111066 | 0.91 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:15:04 | DataFile Name : | 036CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 227 | 273 | 263 | 254 | 9.66 | cps |
| Antimony | 121-1 | 297 | 327 | 343 | 322 | 7.34 | cps |
| Arsenic | 75-2 | 13 | 3 | 0 | 6 | 124.93 | cps |
| Barium | 135-1 | 57 | 57 | 47 | 53 | 10.82 | cps |
| Barium | 137-1 | 77 | 70 | 107 | 84 | 23.13 | cps |
| Beryllium | 9-1 | 61 | 48 | 78 | 62 | 24.19 | cps |
| Bismuth | 209-1 | 4031451 | 3997465 | 3943166 | 3990694 | 1.12 | cps |
| Bismuth | 209-2 | 3589633 | 3513378 | 3617750 | 3573587 | 1.51 | cps |
| Bromine | 81-1 | 30989 | 30772 | 30782 | 30848 | 0.40 | cps |
| Bromine | 81-2 | 277 | 377 | 320 | 324 | 15.46 | cps |
| Cadmium | 108-1 | 17 | 3 | 7 | 9 | 78.08 | cps |
| Cadmium | 106-1 | 1730 | 1697 | 1667 | 1698 | 1.87 | cps |
| Cadmium | 111-1 | 1259 | 1232 | 1205 | 1232 | 2.19 | cps |
| Calcium | 43-1 | 463 | 487 | 467 | 472 | 2.67 | cps |
| Calcium | 44-1 | 11235 | 11055 | 11368 | 11219 | 1.40 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1847 | 1853 | 1877 | 1859 | 0.85 | cps |
| Cobalt | 59-2 | 90 | 50 | 63 | 68 | 30.05 | cps |
| Copper | 63-2 | 2670 | 2670 | 2544 | 2628 | 2.78 | cps |
| Dysprosium | 156-1 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Dysprosium | 156-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 53 | 47 | 83 | 61 | 31.96 | cps |
| Erbium | 164-2 | 53 | 30 | 43 | 42 | 27.72 | cps |
| Gadolinium | 160-1 | 20 | 20 | 20 | 20 | 0.00 | cps |
| Gadolinium | 160-2 | 213 | 223 | 320 | 252 | 23.36 | cps |
| Holmium | 165-1 | 6385705 | 6334635 | 6363458 | 6361266 | 0.40 | cps |
| Holmium | 165-2 | 4784222 | 4768972 | 4840019 | 4797738 | 0.78 | cps |
| Indium | 115-1 | 5368212 | 5455380 | 5413757 | 5412450 | 0.81 | cps |
| Indium | 115-2 | 2149788 | 2119891 | 2158072 | 2142584 | 0.94 | cps |
| Iron | 56-2 | 29579 | 28617 | 28524 | 28907 | 2.02 | cps |
| Iron | 57-2 | 1387 | 1417 | 1400 | 1401 | 1.07 | cps |
| Iron | 54-2 | 3090 | 3284 | 3030 | 3135 | 4.22 | cps |
| Krypton | 83-1 | 320 | 430 | 347 | 366 | 15.70 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:15:04 | DataFile Name : | 036CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 770 | 820 | 857 | 816 | 5.33 | cps |
| Lead | 207-1 | 793 | 680 | 733 | 736 | 7.71 | cps |
| Lead | 208-1 | 3347 | 3344 | 3310 | 3334 | 0.61 | cps |
| Lithium | 6-1 | 577398 | 578102 | 596418 | 583973 | 1.85 | cps |
| Magnesium | 24-2 | 637 | 607 | 637 | 627 | 2.76 | cps |
| Manganese | 55-2 | 2120 | 2147 | 2227 | 2165 | 2.56 | cps |
| Molybdenum | 94-1 | 347 | 373 | 327 | 349 | 6.71 | cps |
| Molybdenum | 95-1 | 230 | 180 | 140 | 183 | 24.60 | cps |
| Molybdenum | 96-1 | 303 | 367 | 317 | 329 | 10.15 | cps |
| Molybdenum | 97-1 | 100 | 97 | 103 | 100 | 3.33 | cps |
| Molybdenum | 98-1 | 313 | 293 | 300 | 302 | 3.37 | cps |
| Neodymium | 150-1 | 10 | 7 | 0 | 6 | 91.64 | cps |
| Neodymium | 150-2 | 7 | 0 | 7 | 4 | 86.60 | cps |
| Nickel | 60-2 | 307 | 343 | 360 | 337 | 8.11 | cps |
| Phosphorus | 31-2 | 283 | 330 | 280 | 298 | 9.39 | cps |
| Potassium | 39-2 | 57669 | 56294 | 56849 | 56937 | 1.22 | cps |
| Rhodium | 103-1 | 5157861 | 5073330 | 5062346 | 5097846 | 1.03 | cps |
| Rhodium | 103-2 | 3172610 | 3152696 | 3239456 | 3188254 | 1.43 | cps |
| Scandium | 45-1 | 2973070 | 2956183 | 2910694 | 2946649 | 1.09 | cps |
| Scandium | 45-2 | 289910 | 282431 | 288804 | 287048 | 1.41 | cps |
| Selenium | 82-1 | 242 | 174 | 264 | 227 | 20.84 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 767 | 873 | 733 | 791 | 9.24 | cps |
| Silicon | 28-1 | 1220206 | 1224043 | 1194564 | 1212938 | 1.32 | cps |
| Silver | 107-1 | 113 | 153 | 120 | 129 | 16.63 | cps |
| Silver | 109-1 | 83 | 73 | 90 | 82 | 10.20 | cps |
| Sodium | 23-2 | 24757 | 24296 | 23788 | 24280 | 1.99 | cps |
| Strontium | 86-1 | 700 | 653 | 670 | 674 | 3.51 | cps |
| Strontium | 88-1 | 650 | 637 | 617 | 634 | 2.64 | cps |
| Sulfur | 34-1 | 102631 | 103158 | 102786 | 102858 | 0.26 | cps |
| Terbium | 159-1 | 6779473 | 6451007 | 6673552 | 6634678 | 2.53 | cps |
| Terbium | 159-2 | 4795101 | 4839265 | 4808414 | 4814260 | 0.47 | cps |
| Thallium | 203-1 | 520 | 530 | 523 | 524 | 0.97 | cps |
| Thallium | 205-1 | 1263 | 1223 | 1270 | 1252 | 2.02 | cps |
| Tin | 118-1 | 1193 | 1207 | 1173 | 1191 | 1.41 | cps |
| Titanium | 47-1 | 67 | 80 | 77 | 74 | 9.32 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:15:04 | DataFile Name : | 036CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 73 | 67 | 80 | 73 | 9.09 | cps |
| Vanadium | 51-2 | 20 | 23 | 10 | 18 | 39.03 | cps |
| Yttrium | 89-1 | 7995365 | 7825742 | 7777456 | 7866188 | 1.45 | cps |
| Yttrium | 89-2 | 2325089 | 2315781 | 2328023 | 2322964 | 0.28 | cps |
| Zinc | 66-2 | 837 | 877 | 867 | 860 | 2.42 | cps |
| Zirconium | 90-1 | 617 | 650 | 543 | 603 | 9.04 | cps |
| Zirconium | 91-1 | 100 | 110 | 127 | 112 | 12.01 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-04 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:18:26 | DataFile Name : | 037AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9887 | 9646 | 9453 | 9662 | 2.25 | cps |
| Antimony | 121-1 | 1743 | 1907 | 1833 | 1828 | 4.48 | cps |
| Arsenic | 75-2 | 313 | 320 | 330 | 321 | 2.61 | cps |
| Barium | 135-1 | 593560 | 587693 | 584692 | 588648 | 0.77 | cps |
| Barium | 137-1 | 1023799 | 1015199 | 1017392 | 1018797 | 0.44 | cps |
| Beryllium | 9-1 | 121 | 81 | 104 | 102 | 19.72 | cps |
| Bismuth | 209-1 | 4610690 | 4355494 | 4443216 | 4469800 | 2.90 | cps |
| Bismuth | 209-2 | 4056196 | 4014593 | 3955050 | 4008613 | 1.27 | cps |
| Bromine | 81-1 | 57375 | 62023 | 64008 | 61135 | 5.57 | cps |
| Bromine | 81-2 | 7689 | 7966 | 8012 | 7889 | 2.22 | cps |
| Cadmium | 108-1 | 20 | 23 | 13 | 19 | 26.96 | cps |
| Cadmium | 106-1 | 2197 | 2127 | 1913 | 2079 | 7.10 | cps |
| Cadmium | 111-1 | 1554 | 1506 | 1363 | 1474 | 6.72 | cps |
| Calcium | 43-1 | 434727 | 429052 | 425969 | 429916 | 1.03 | cps |
| Calcium | 44-1 | 6900062 | 6922809 | 6763442 | 6862104 | 1.26 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1177 | 1177 | 1107 | 1153 | 3.50 | cps |
| Cobalt | 59-2 | 26874 | 26791 | 25926 | 26530 | 1.98 | cps |
| Copper | 63-2 | 2237 | 2384 | 2257 | 2292 | 3.47 | cps |
| Dysprosium | 156-1 | 27 | 33 | 17 | 26 | 32.81 | cps |
| Dysprosium | 156-2 | 20 | 47 | 33 | 33 | 40.01 | cps |
| Erbium | 164-1 | 47 | 33 | 73 | 51 | 39.85 | cps |
| Erbium | 164-2 | 37 | 47 | 57 | 47 | 21.43 | cps |
| Gadolinium | 160-1 | 47 | 60 | 60 | 56 | 13.85 | cps |
| Gadolinium | 160-2 | 300 | 303 | 277 | 293 | 4.95 | cps |
| Holmium | 165-1 | 7322708 | 7277300 | 7191269 | 7263759 | 0.92 | cps |
| Holmium | 165-2 | 5547466 | 5265486 | 5303422 | 5372125 | 2.85 | cps |
| Indium | 115-1 | 6059034 | 6161632 | 6027604 | 6082757 | 1.15 | cps |
| Indium | 115-2 | 2423020 | 2426326 | 2375910 | 2408419 | 1.17 | cps |
| Iron | 56-2 | 12874058 | 12780506 | 12530116 | 12728227 | 1.40 | cps |
| Iron | 57-2 | 335695 | 336437 | 331355 | 334495 | 0.82 | cps |
| Iron | 54-2 | 718089 | 718415 | 707647 | 714717 | 0.86 | cps |
| Krypton | 83-1 | 293 | 463 | 390 | 382 | 22.31 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-04 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:18:26 | DataFile Name : | 037AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 953 | 803 | 823 | 860 | 9.47 | cps |
| Lead | 207-1 | 713 | 757 | 700 | 723 | 4.10 | cps |
| Lead | 208-1 | 3424 | 3264 | 3327 | 3338 | 2.41 | cps |
| Lithium | 6-1 | 658585 | 648358 | 620002 | 642315 | 3.11 | cps |
| Magnesium | 24-2 | 1801403 | 1796536 | 1750222 | 1782720 | 1.58 | cps |
| Manganese | 55-2 | 1065794 | 1056320 | 1044781 | 1055632 | 1.00 | cps |
| Molybdenum | 94-1 | 36195 | 36178 | 36382 | 36251 | 0.31 | cps |
| Molybdenum | 95-1 | 65111 | 64314 | 63042 | 64155 | 1.63 | cps |
| Molybdenum | 96-1 | 68761 | 68721 | 68101 | 68527 | 0.54 | cps |
| Molybdenum | 97-1 | 39797 | 40001 | 39269 | 39689 | 0.95 | cps |
| Molybdenum | 98-1 | 103869 | 103819 | 103262 | 103650 | 0.33 | cps |
| Neodymium | 150-1 | 57 | 37 | 33 | 42 | 29.89 | cps |
| Neodymium | 150-2 | 13 | 20 | 17 | 17 | 20.01 | cps |
| Nickel | 60-2 | 9563 | 9907 | 9623 | 9698 | 1.89 | cps |
| Phosphorus | 31-2 | 2844 | 2997 | 2894 | 2911 | 2.69 | cps |
| Potassium | 39-2 | 2425208 | 2422010 | 2403424 | 2416881 | 0.49 | cps |
| Rhodium | 103-1 | 5811307 | 5781025 | 5619839 | 5737390 | 1.79 | cps |
| Rhodium | 103-2 | 3642728 | 3639026 | 3548880 | 3610211 | 1.47 | cps |
| Scandium | 45-1 | 3383582 | 3333300 | 3328395 | 3348426 | 0.91 | cps |
| Scandium | 45-2 | 330360 | 326192 | 325887 | 327480 | 0.76 | cps |
| Selenium | 82-1 | 334 | 156 | 258 | 249 | 35.69 | cps |
| Selenium | 77-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Selenium | 78-2 | 840 | 770 | 827 | 812 | 4.58 | cps |
| Silicon | 28-1 | 53866249 | 54507666 | 54319608 | 54231174 | 0.61 | cps |
| Silver | 107-1 | 93 | 83 | 113 | 97 | 15.81 | cps |
| Silver | 109-1 | 60 | 27 | 63 | 50 | 40.55 | cps |
| Sodium | 23-2 | 2487531 | 2482403 | 2433050 | 2467661 | 1.22 | cps |
| Strontium | 86-1 | 500386 | 499681 | 493866 | 497978 | 0.72 | cps |
| Strontium | 88-1 | 4456010 | 4430814 | 4439252 | 4442026 | 0.29 | cps |
| Sulfur | 34-1 | 129597 | 126250 | 125632 | 127160 | 1.68 | cps |
| Terbium | 159-1 | 7569872 | 7581927 | 7478072 | 7543290 | 0.75 | cps |
| Terbium | 159-2 | 5488761 | 5416977 | 5350806 | 5418848 | 1.27 | cps |
| Thallium | 203-1 | 1587 | 1647 | 1400 | 1545 | 8.33 | cps |
| Thallium | 205-1 | 3671 | 3607 | 3464 | 3581 | 2.96 | cps |
| Tin | 118-1 | 2114 | 2177 | 2190 | 2160 | 1.90 | cps |
| Titanium | 47-1 | 697 | 587 | 633 | 639 | 8.64 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-04 | Instrumnet Name : | P7 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:18:26 | DataFile Name : | 037AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 220 | 200 | 187 | 202 | 8.30 | cps |
| Vanadium | 51-2 | 1130 | 1167 | 1123 | 1140 | 2.05 | cps |
| Yttrium | 89-1 | 9000432 | 9037405 | 8931474 | 8989770 | 0.60 | cps |
| Yttrium | 89-2 | 2673560 | 2626709 | 2680147 | 2660139 | 1.10 | cps |
| Zinc | 66-2 | 2610 | 2497 | 2617 | 2575 | 2.62 | cps |
| Zirconium | 90-1 | 480 | 470 | 473 | 474 | 1.07 | cps |
| Zirconium | 91-1 | 97 | 50 | 107 | 84 | 35.82 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-08 | Instrumnet Name : | P7 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:21:37 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1510 | 1453 | 1357 | 1440 | 5.38 | cps |
| Antimony | 121-1 | 53 | 113 | 77 | 81 | 37.29 | cps |
| Arsenic | 75-2 | 7 | 17 | 7 | 10 | 57.72 | cps |
| Barium | 135-1 | 173 | 193 | 163 | 177 | 8.65 | cps |
| Barium | 137-1 | 287 | 290 | 313 | 297 | 4.90 | cps |
| Beryllium | 9-1 | 30 | 26 | 46 | 34 | 31.08 | cps |
| Bismuth | 209-1 | 4520117 | 4532625 | 4465485 | 4506075 | 0.79 | cps |
| Bismuth | 209-2 | 3979442 | 3920356 | 3967600 | 3955799 | 0.79 | cps |
| Bromine | 81-1 | 35516 | 35977 | 34968 | 35487 | 1.42 | cps |
| Bromine | 81-2 | 873 | 753 | 867 | 831 | 8.11 | cps |
| Cadmium | 108-1 | 10 | 3 | 7 | 7 | 50.03 | cps |
| Cadmium | 106-1 | 2077 | 2164 | 2124 | 2121 | 2.04 | cps |
| Cadmium | 111-1 | 1487 | 1542 | 1505 | 1511 | 1.87 | cps |
| Calcium | 43-1 | 770 | 957 | 860 | 862 | 10.83 | cps |
| Calcium | 44-1 | 17924 | 17574 | 17497 | 17665 | 1.29 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 863 | 1277 | 883 | 1008 | 23.15 | cps |
| Cobalt | 59-2 | 33 | 57 | 57 | 49 | 27.56 | cps |
| Copper | 63-2 | 2324 | 2174 | 2287 | 2261 | 3.46 | cps |
| Dysprosium | 156-1 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Dysprosium | 156-2 | 7 | 13 | 0 | 7 | 99.98 | cps |
| Erbium | 164-1 | 50 | 63 | 83 | 66 | 25.59 | cps |
| Erbium | 164-2 | 37 | 30 | 37 | 34 | 11.18 | cps |
| Gadolinium | 160-1 | 30 | 47 | 20 | 32 | 41.81 | cps |
| Gadolinium | 160-2 | 287 | 373 | 310 | 323 | 13.87 | cps |
| Holmium | 165-1 | 7231721 | 7132631 | 7172968 | 7179107 | 0.69 | cps |
| Holmium | 165-2 | 5377691 | 5205190 | 5219144 | 5267342 | 1.82 | cps |
| Indium | 115-1 | 6096863 | 6115800 | 6058785 | 6090483 | 0.48 | cps |
| Indium | 115-2 | 2423135 | 2373582 | 2326335 | 2374351 | 2.04 | cps |
| Iron | 56-2 | 34052 | 34770 | 33765 | 34196 | 1.51 | cps |
| Iron | 57-2 | 1643 | 1577 | 1627 | 1616 | 2.15 | cps |
| Iron | 54-2 | 3137 | 3174 | 3200 | 3170 | 1.00 | cps |
| Krypton | 83-1 | 347 | 340 | 417 | 368 | 11.55 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-08 | Instrumnet Name : | P7 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:21:37 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2924 | 3024 | 2994 | 2980 | 1.72 | cps |
| Lead | 207-1 | 2444 | 2430 | 2577 | 2484 | 3.27 | cps |
| Lead | 208-1 | 11525 | 11655 | 11382 | 11521 | 1.19 | cps |
| Lithium | 6-1 | 623754 | 625914 | 615740 | 621803 | 0.86 | cps |
| Magnesium | 24-2 | 3424 | 3390 | 3487 | 3434 | 1.43 | cps |
| Manganese | 55-2 | 2767 | 2854 | 2717 | 2779 | 2.49 | cps |
| Molybdenum | 94-1 | 157 | 140 | 163 | 153 | 7.84 | cps |
| Molybdenum | 95-1 | 90 | 60 | 83 | 78 | 20.25 | cps |
| Molybdenum | 96-1 | 163 | 183 | 197 | 181 | 9.26 | cps |
| Molybdenum | 97-1 | 67 | 63 | 57 | 62 | 8.18 | cps |
| Molybdenum | 98-1 | 160 | 153 | 140 | 151 | 6.74 | cps |
| Neodymium | 150-1 | 20 | 23 | 10 | 18 | 39.03 | cps |
| Neodymium | 150-2 | 3 | 7 | 7 | 6 | 34.70 | cps |
| Nickel | 60-2 | 217 | 207 | 213 | 212 | 2.40 | cps |
| Phosphorus | 31-2 | 477 | 427 | 523 | 476 | 10.17 | cps |
| Potassium | 39-2 | 54982 | 54935 | 54407 | 54775 | 0.58 | cps |
| Rhodium | 103-1 | 5843275 | 5761375 | 5764199 | 5789616 | 0.80 | cps |
| Rhodium | 103-2 | 3591216 | 3557231 | 3536072 | 3561506 | 0.78 | cps |
| Scandium | 45-1 | 3315516 | 3294761 | 3321486 | 3310588 | 0.42 | cps |
| Scandium | 45-2 | 324586 | 320966 | 319067 | 321540 | 0.87 | cps |
| Selenium | 82-1 | 227 | 279 | 183 | 230 | 20.73 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 753 | 730 | 770 | 751 | 2.67 | cps |
| Silicon | 28-1 | 1252224 | 1260431 | 1262210 | 1258289 | 0.42 | cps |
| Silver | 107-1 | 73 | 63 | 47 | 61 | 22.04 | cps |
| Silver | 109-1 | 63 | 50 | 50 | 54 | 14.14 | cps |
| Sodium | 23-2 | 38160 | 39300 | 39203 | 38888 | 1.62 | cps |
| Strontium | 86-1 | 733 | 717 | 700 | 717 | 2.33 | cps |
| Strontium | 88-1 | 1890 | 1803 | 1760 | 1818 | 3.64 | cps |
| Sulfur | 34-1 | 90151 | 90523 | 90338 | 90337 | 0.21 | cps |
| Terbium | 159-1 | 7340173 | 7455483 | 7408972 | 7401543 | 0.78 | cps |
| Terbium | 159-2 | 5374803 | 5229075 | 5337475 | 5313784 | 1.42 | cps |
| Thallium | 203-1 | 323 | 243 | 277 | 281 | 14.29 | cps |
| Thallium | 205-1 | 617 | 687 | 663 | 656 | 5.44 | cps |
| Tin | 118-1 | 2127 | 2027 | 1927 | 2027 | 4.93 | cps |
| Titanium | 47-1 | 364 | 107 | 103 | 191 | 78.08 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-08 | Instrumnet Name : | P7 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:21:37 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 57 | 23 | 40 | 40 | 41.68 | cps |
| Vanadium | 51-2 | 13 | 33 | 13 | 20 | 57.74 | cps |
| Yttrium | 89-1 | 8815942 | 8863234 | 8806797 | 8828658 | 0.34 | cps |
| Yttrium | 89-2 | 2648292 | 2569782 | 2602679 | 2606918 | 1.51 | cps |
| Zinc | 66-2 | 660 | 717 | 770 | 716 | 7.69 | cps |
| Zirconium | 90-1 | 403 | 377 | 373 | 384 | 4.28 | cps |
| Zirconium | 91-1 | 90 | 83 | 57 | 77 | 23.00 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:24:57 | DataFile Name : | 039CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6468931 | 6243213 | 6416652 | 6376265 | 1.85 | cps |
| Antimony | 121-1 | 2429705 | 2508544 | 2511950 | 2483399 | 1.87 | cps |
| Arsenic | 75-2 | 162031 | 161680 | 159224 | 160978 | 0.95 | cps |
| Barium | 135-1 | 3236406 | 3320885 | 3321991 | 3293094 | 1.49 | cps |
| Barium | 137-1 | 5562821 | 5634512 | 5716927 | 5638087 | 1.37 | cps |
| Beryllium | 9-1 | 326404 | 336425 | 342635 | 335155 | 2.44 | cps |
| Bismuth | 209-1 | 3814049 | 3781062 | 3827410 | 3807507 | 0.63 | cps |
| Bismuth | 209-2 | 3410900 | 3414583 | 3364718 | 3396733 | 0.82 | cps |
| Bromine | 81-1 | 31063 | 31407 | 30418 | 30963 | 1.62 | cps |
| Bromine | 81-2 | 487 | 507 | 567 | 520 | 8.01 | cps |
| Cadmium | 108-1 | 49792 | 51056 | 50989 | 50613 | 1.41 | cps |
| Cadmium | 106-1 | 72034 | 74212 | 75408 | 73885 | 2.32 | cps |
| Cadmium | 111-1 | 687740 | 704421 | 709560 | 700574 | 1.63 | cps |
| Calcium | 43-1 | 3422833 | 3477756 | 3462762 | 3454450 | 0.82 | cps |
| Calcium | 44-1 | 54861776 | 56519321 | 55554678 | 55645258 | 1.50 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1184629 | 1175535 | 1182845 | 1181003 | 0.41 | cps |
| Cobalt | 59-2 | 1831401 | 1838635 | 1819900 | 1829979 | 0.52 | cps |
| Copper | 63-2 | 13532925 | 13530537 | 13512399 | 13525287 | 0.08 | cps |
| Dysprosium | 156-1 | 157 | 177 | 193 | 176 | 10.46 | cps |
| Dysprosium | 156-2 | 250 | 227 | 230 | 236 | 5.36 | cps |
| Erbium | 164-1 | 173 | 207 | 270 | 217 | 22.66 | cps |
| Erbium | 164-2 | 153 | 123 | 110 | 129 | 17.22 | cps |
| Gadolinium | 160-1 | 140 | 77 | 147 | 121 | 31.90 | cps |
| Gadolinium | 160-2 | 400 | 307 | 300 | 336 | 16.66 | cps |
| Holmium | 165-1 | 6531174 | 6368567 | 6512168 | 6470637 | 1.37 | cps |
| Holmium | 165-2 | 4964863 | 4954207 | 4846634 | 4921901 | 1.33 | cps |
| Indium | 115-1 | 5189374 | 5176943 | 5170918 | 5179078 | 0.18 | cps |
| Indium | 115-2 | 2070262 | 2097051 | 2042442 | 2069919 | 1.32 | cps |
| Iron | 56-2 | 273010076 | 270858383 | 270178549 | 271349003 | 0.54 | cps |
| Iron | 57-2 | 6754029 | 6647059 | 6647749 | 6682946 | 0.92 | cps |
| Iron | 54-2 | 14842715 | 14830773 | 14616498 | 14763329 | 0.86 | cps |
| Krypton | 83-1 | 343 | 383 | 383 | 370 | 6.24 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:24:57 | DataFile Name : | 039CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 9703463 | 9855952 | 9849748 | 9803054 | 0.88 | cps |
| Lead | 207-1 | 8500874 | 8635030 | 8830386 | 8655430 | 1.91 | cps |
| Lead | 208-1 | 38671400 | 38980751 | 39693172 | 39115108 | 1.34 | cps |
| Lithium | 6-1 | 592693 | 605654 | 617168 | 605172 | 2.02 | cps |
| Magnesium | 24-2 | 53696369 | 53860818 | 54322924 | 53960037 | 0.60 | cps |
| Manganese | 55-2 | 10110180 | 10062944 | 10128737 | 10100620 | 0.34 | cps |
| Molybdenum | 94-1 | 9446943 | 9537917 | 9659955 | 9548272 | 1.12 | cps |
| Molybdenum | 95-1 | 13652788 | 13850697 | 13715316 | 13739600 | 0.74 | cps |
| Molybdenum | 96-1 | 14744229 | 15097185 | 14996137 | 14945850 | 1.22 | cps |
| Molybdenum | 97-1 | 8345026 | 8611409 | 8564618 | 8507018 | 1.67 | cps |
| Molybdenum | 98-1 | 21561375 | 22006408 | 22508960 | 22025581 | 2.15 | cps |
| Neodymium | 150-1 | 253 | 257 | 213 | 241 | 10.00 | cps |
| Neodymium | 150-2 | 120 | 73 | 70 | 88 | 31.85 | cps |
| Nickel | 60-2 | 469968 | 468638 | 468041 | 468882 | 0.21 | cps |
| Phosphorus | 31-2 | 73947 | 72588 | 72939 | 73158 | 0.96 | cps |
| Potassium | 39-2 | 35729742 | 35170363 | 35742393 | 35547499 | 0.92 | cps |
| Rhodium | 103-1 | 4815278 | 4854561 | 4815015 | 4828284 | 0.47 | cps |
| Rhodium | 103-2 | 3064287 | 3060287 | 2977246 | 3033940 | 1.62 | cps |
| Scandium | 45-1 | 2992900 | 3057532 | 3029098 | 3026510 | 1.07 | cps |
| Scandium | 45-2 | 299614 | 298165 | 296641 | 298140 | 0.50 | cps |
| Selenium | 82-1 | 53352 | 53349 | 53804 | 53502 | 0.49 | cps |
| Selenium | 77-2 | 6628 | 6355 | 6478 | 6487 | 2.11 | cps |
| Selenium | 78-2 | 22073 | 22240 | 22697 | 22337 | 1.45 | cps |
| Silicon | 28-1 | 28558196 | 29382863 | 29012458 | 28984506 | 1.43 | cps |
| Silver | 107-1 | 3400610 | 3412771 | 3457820 | 3423733 | 0.88 | cps |
| Silver | 109-1 | 3204746 | 3317474 | 3256010 | 3259410 | 1.73 | cps |
| Sodium | 23-2 | 86058695 | 84155972 | 85235665 | 85150111 | 1.12 | cps |
| Strontium | 86-1 | 8372989 | 8637666 | 8605021 | 8538559 | 1.69 | cps |
| Strontium | 88-1 | 75205964 | 76322862 | 77279167 | 76269331 | 1.36 | cps |
| Sulfur | 34-1 | 314309 | 314563 | 315127 | 314666 | 0.13 | cps |
| Terbium | 159-1 | 6623136 | 6748529 | 6817684 | 6729783 | 1.47 | cps |
| Terbium | 159-2 | 4921489 | 4968150 | 4855788 | 4915143 | 1.15 | cps |
| Thallium | 203-1 | 2475202 | 2512920 | 2558106 | 2515409 | 1.65 | cps |
| Thallium | 205-1 | 5781338 | 6017417 | 5939401 | 5912719 | 2.03 | cps |
| Tin | 118-1 | 1986534 | 2055496 | 2050836 | 2030955 | 1.90 | cps |
| Titanium | 47-1 | 3299515 | 3292842 | 3408495 | 3333617 | 1.95 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:24:57 | DataFile Name : | 039CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7580905 | 7884685 | 7878291 | 7781294 | 2.23 | cps |
| Vanadium | 51-2 | 1040793 | 1030690 | 1026825 | 1032769 | 0.70 | cps |
| Yttrium | 89-1 | 7722632 | 7976128 | 7905964 | 7868242 | 1.66 | cps |
| Yttrium | 89-2 | 2456597 | 2343070 | 2294197 | 2364621 | 3.52 | cps |
| Zinc | 66-2 | 2609107 | 2643549 | 2598819 | 2617158 | 0.90 | cps |
| Zirconium | 90-1 | 4721033 | 4744304 | 4754011 | 4739782 | 0.36 | cps |
| Zirconium | 91-1 | 1047928 | 1063068 | 1070292 | 1060429 | 1.08 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:28:58 | DataFile Name : | 040CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 377 | 340 | 257 | 324 | 18.95 | cps |
| Antimony | 121-1 | 280 | 277 | 363 | 307 | 16.01 | cps |
| Arsenic | 75-2 | 7 | 0 | 13 | 7 | 99.98 | cps |
| Barium | 135-1 | 80 | 93 | 80 | 84 | 9.11 | cps |
| Barium | 137-1 | 140 | 123 | 130 | 131 | 6.40 | cps |
| Beryllium | 9-1 | 54 | 58 | 51 | 54 | 6.19 | cps |
| Bismuth | 209-1 | 3978921 | 4027517 | 4062107 | 4022849 | 1.04 | cps |
| Bismuth | 209-2 | 3663516 | 3572276 | 3588925 | 3608239 | 1.35 | cps |
| Bromine | 81-1 | 31397 | 31140 | 31942 | 31493 | 1.30 | cps |
| Bromine | 81-2 | 393 | 400 | 420 | 404 | 3.43 | cps |
| Cadmium | 108-1 | 10 | 10 | 3 | 8 | 49.52 | cps |
| Cadmium | 106-1 | 1727 | 1820 | 1813 | 1787 | 2.91 | cps |
| Cadmium | 111-1 | 1272 | 1307 | 1324 | 1301 | 2.04 | cps |
| Calcium | 43-1 | 540 | 460 | 483 | 494 | 8.32 | cps |
| Calcium | 44-1 | 11608 | 12022 | 12296 | 11975 | 2.89 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1783 | 1763 | 1763 | 1770 | 0.65 | cps |
| Cobalt | 59-2 | 90 | 73 | 73 | 79 | 12.20 | cps |
| Copper | 63-2 | 2617 | 2617 | 2507 | 2580 | 2.46 | cps |
| Dysprosium | 156-1 | 7 | 3 | 13 | 8 | 65.47 | cps |
| Dysprosium | 156-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Erbium | 164-1 | 73 | 57 | 30 | 53 | 40.98 | cps |
| Erbium | 164-2 | 30 | 47 | 33 | 37 | 24.06 | cps |
| Gadolinium | 160-1 | 30 | 23 | 20 | 24 | 20.83 | cps |
| Gadolinium | 160-2 | 253 | 207 | 293 | 251 | 17.27 | cps |
| Holmium | 165-1 | 6409057 | 6344071 | 6379604 | 6377577 | 0.51 | cps |
| Holmium | 165-2 | 5037398 | 4884970 | 5030554 | 4984307 | 1.73 | cps |
| Indium | 115-1 | 5350938 | 5470645 | 5460746 | 5427443 | 1.22 | cps |
| Indium | 115-2 | 2212990 | 2178104 | 2227929 | 2206341 | 1.16 | cps |
| Iron | 56-2 | 32054 | 31433 | 30852 | 31446 | 1.91 | cps |
| Iron | 57-2 | 1477 | 1543 | 1473 | 1498 | 2.64 | cps |
| Iron | 54-2 | 3320 | 3147 | 3250 | 3239 | 2.69 | cps |
| Krypton | 83-1 | 403 | 400 | 437 | 413 | 4.91 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:28:58 | DataFile Name : | 040CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 877 | 823 | 863 | 854 | 3.25 | cps |
| Lead | 207-1 | 757 | 780 | 807 | 781 | 3.20 | cps |
| Lead | 208-1 | 3390 | 3447 | 3434 | 3424 | 0.87 | cps |
| Lithium | 6-1 | 603208 | 620299 | 612572 | 612027 | 1.40 | cps |
| Magnesium | 24-2 | 1213 | 1267 | 1087 | 1189 | 7.78 | cps |
| Manganese | 55-2 | 2504 | 2330 | 2437 | 2424 | 3.61 | cps |
| Molybdenum | 94-1 | 403 | 307 | 317 | 342 | 15.53 | cps |
| Molybdenum | 95-1 | 300 | 257 | 220 | 259 | 15.47 | cps |
| Molybdenum | 96-1 | 387 | 437 | 417 | 413 | 6.09 | cps |
| Molybdenum | 97-1 | 180 | 163 | 183 | 176 | 6.10 | cps |
| Molybdenum | 98-1 | 463 | 463 | 473 | 467 | 1.24 | cps |
| Neodymium | 150-1 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Neodymium | 150-2 | 3 | 0 | 10 | 4 | 114.60 | cps |
| Nickel | 60-2 | 430 | 387 | 353 | 390 | 9.86 | cps |
| Phosphorus | 31-2 | 347 | 340 | 313 | 333 | 5.29 | cps |
| Potassium | 39-2 | 58586 | 58184 | 58435 | 58402 | 0.35 | cps |
| Rhodium | 103-1 | 5153230 | 5226515 | 5167792 | 5182512 | 0.75 | cps |
| Rhodium | 103-2 | 3315900 | 3290337 | 3288600 | 3298279 | 0.46 | cps |
| Scandium | 45-1 | 2970365 | 3014033 | 2991877 | 2992092 | 0.73 | cps |
| Scandium | 45-2 | 290471 | 289315 | 290984 | 290256 | 0.29 | cps |
| Selenium | 82-1 | 162 | 227 | 168 | 186 | 19.33 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 823 | 717 | 770 | 770 | 6.93 | cps |
| Silicon | 28-1 | 1224090 | 1222154 | 1215014 | 1220419 | 0.39 | cps |
| Silver | 107-1 | 233 | 123 | 100 | 152 | 46.78 | cps |
| Silver | 109-1 | 93 | 113 | 90 | 99 | 12.77 | cps |
| Sodium | 23-2 | 24616 | 24012 | 24179 | 24269 | 1.29 | cps |
| Strontium | 86-1 | 573 | 657 | 720 | 650 | 11.32 | cps |
| Strontium | 88-1 | 937 | 1093 | 1267 | 1099 | 15.02 | cps |
| Sulfur | 34-1 | 106340 | 105978 | 105279 | 105866 | 0.51 | cps |
| Terbium | 159-1 | 6463625 | 6720007 | 6723029 | 6635554 | 2.24 | cps |
| Terbium | 159-2 | 5028706 | 4903369 | 4906787 | 4946287 | 1.44 | cps |
| Thallium | 203-1 | 420 | 403 | 477 | 433 | 8.87 | cps |
| Thallium | 205-1 | 927 | 1047 | 1037 | 1003 | 6.64 | cps |
| Tin | 118-1 | 1197 | 1250 | 1093 | 1180 | 6.75 | cps |
| Titanium | 47-1 | 100 | 93 | 120 | 104 | 13.29 | cps |

Reviewed By:mohan
On:4/9/2025 11:59:16 AM
Inst Id :P7
LB :LB135315

| | | | |
|---|---|---|---|
| LB Number : | LB135315 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-04 16:28:58 | DataFile Name : | 040CCBE.d |

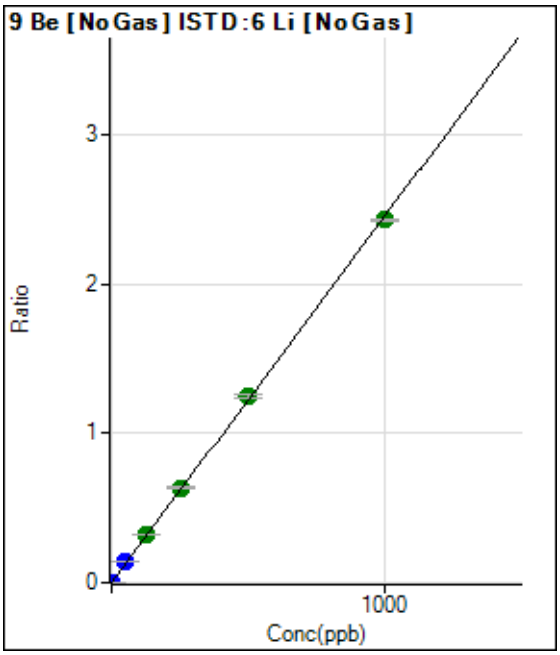
| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 137 | 83 | 83 | 101 | 30.46 | cps |
| Vanadium | 51-2 | 20 | 13 | 30 | 21 | 39.75 | cps |
| Yttrium | 89-1 | 7840593 | 7994843 | 8027447 | 7954294 | 1.25 | cps |
| Yttrium | 89-2 | 2363545 | 2354449 | 2387004 | 2368333 | 0.71 | cps |
| Zinc | 66-2 | 993 | 987 | 940 | 973 | 2.99 | cps |
| Zirconium | 90-1 | 693 | 523 | 760 | 659 | 18.52 | cps |
| Zirconium | 91-1 | 140 | 103 | 143 | 129 | 17.22 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040725 MS.b\
Analysis File: P8040725 MS.batch.bin
DA Date-Time: 2025-04-07 16:00:11
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 004CALB.d | S00 | 2025-04-07 11:29:45 |
| 2 | 006CALS.d | S02 | 2025-04-07 11:36:29 |
| 3 | 007CALB.d | S03 | 2025-04-07 11:39:50 |
| 4 | 008CALS.d | S04 | 2025-04-07 11:42:51 |
| 5 | 009CALS.d | S05 | 2025-04-07 11:45:39 |
| 6 | 010CALS.d | S06 | 2025-04-07 11:48:26 |
| 7 | 011CALS.d | S07 | 2025-04-07 11:51:11 |
| 8 | 012CALS.d | S08 | 2025-04-07 11:54:02 |

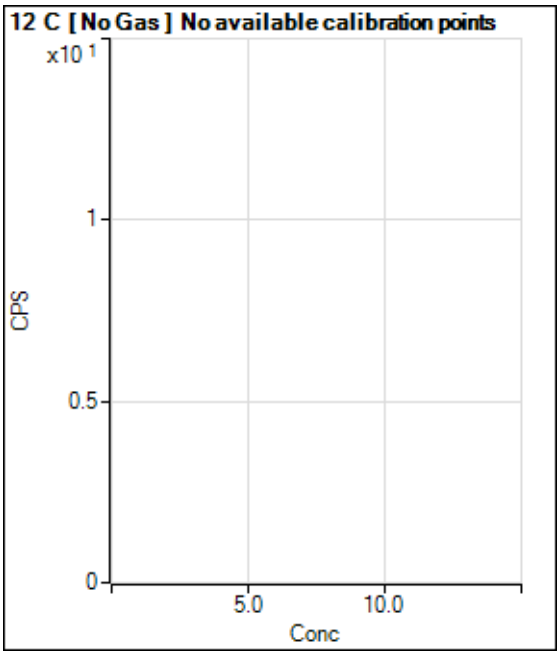
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 75.17 | 0.0000 | P | 12.2 |
| 2 | ☐ | 1.000 | 1.226 | 10086.30 | 0.0030 | P | 2.3 |
| 3 | ☐ | 50.000 | 56.540 | 458265.89 | 0.1385 | P | 2.3 |
| 4 | ☐ | 125.000 | 132.386 | 1057454.48 | 0.3244 | A | 1.5 |
| 5 | ☐ | 250.000 | 258.599 | 2032733.64 | 0.6336 | A | 2.0 |
| 6 | ☐ | 500.000 | 510.945 | 3900568.68 | 1.2518 | A | 1.8 |
| 7 | ☐ | 1000.000 | 991.128 | 7677169.74 | 2.4282 | A | 0.7 |
| 8 | ☐ | | | 314.55 | 0.0001 | P | 19.9 |

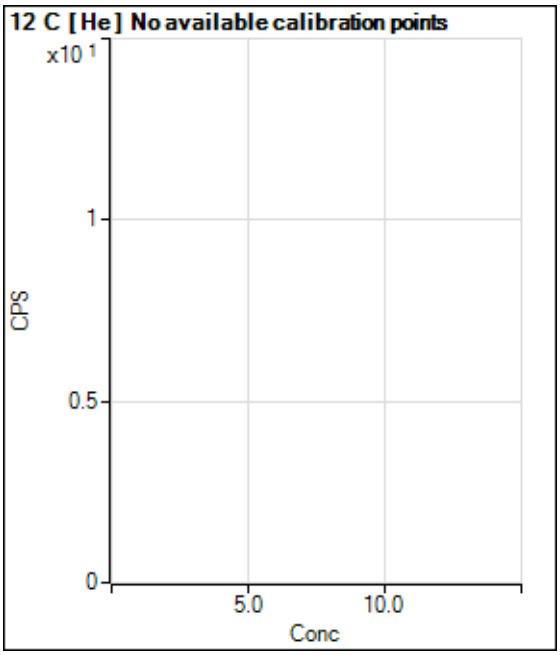
y = 0.0024 * x + 2.2163E-005
R = 0.9999
DL = 0.00331
BEC = 0.009046

Weight: <None>
Min Conc: 0

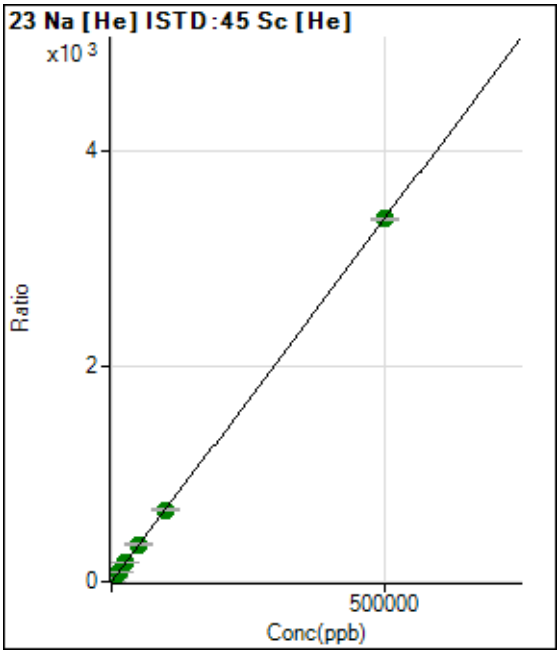



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4084702.20 | | A | 3.5 |
| 2 | ☐ | | | 4404983.27 | | A | 2.4 |
| 3 | ☐ | | | 4597642.53 | | A | 1.7 |
| 4 | ☐ | | | 4716622.22 | | A | 1.1 |
| 5 | ☐ | | | 4965558.40 | | A | 1.1 |
| 6 | ☐ | | | 5391306.80 | | A | 0.8 |
| 7 | ☐ | | | 6476955.39 | | A | 2.3 |
| 8 | ☐ | | | 5252432.84 | | A | 1.3 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 30162.05 | | P | 0.4 |
| 2 | ☐ | | | 32396.79 | | P | 1.1 |
| 3 | ☐ | | | 33813.29 | | P | 0.5 |
| 4 | ☐ | | | 35259.98 | | P | 0.5 |
| 5 | ☐ | | | 37821.83 | | P | 0.6 |
| 6 | ☐ | | | 43028.31 | | P | 0.1 |
| 7 | ☐ | | | 53802.38 | | P | 1.1 |
| 8 | ☐ | | | 56432.08 | | P | 1.2 |

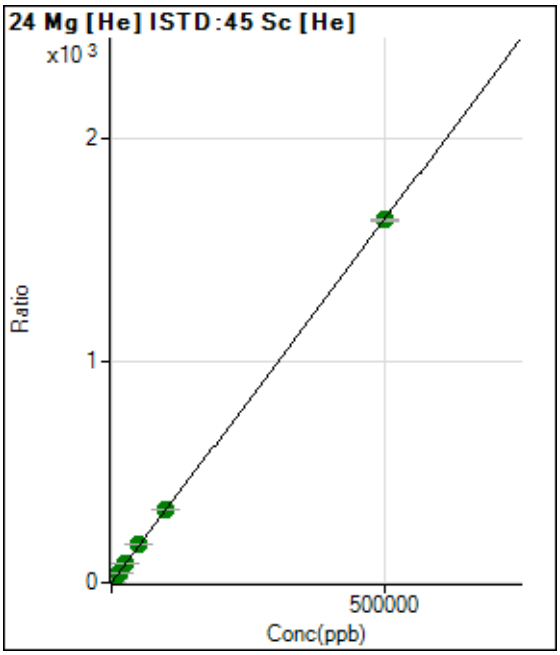



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 54034.06 | 0.3429 | P | 1.5 |
| 2 | ☐ | 500.000 | 588.663 | 670740.76 | 4.3018 | P | 0.3 |
| 3 | ☐ | 5000.000 | 5448.974 | 5578731.03 | 36.9881 | A | 0.9 |
| 4 | ☐ | 12500.000 | 13331.454 | 13520773.27 | 89.9990 | A | 1.5 |
| 5 | ☐ | 25000.000 | 26054.707 | 26438731.55 | 175.5648 | A | 0.5 |
| 6 | ☐ | 50000.000 | 51577.487 | 52119820.33 | 347.2095 | A | 1.5 |
| 7 | ☐ | 100000.00 | 99107.711 | 103863417.34 | 666.8576 | A | 0.9 |
| 8 | ☐ | 500000.00 | 499942.60 | 487076526.08 | 3,362.5345 | A | 0.8 |

y = 0.0067 * x + 0.3429
R = 1.0000
DL = 2.365
BEC = 50.99

Weight: <None>
Min Conc: 0

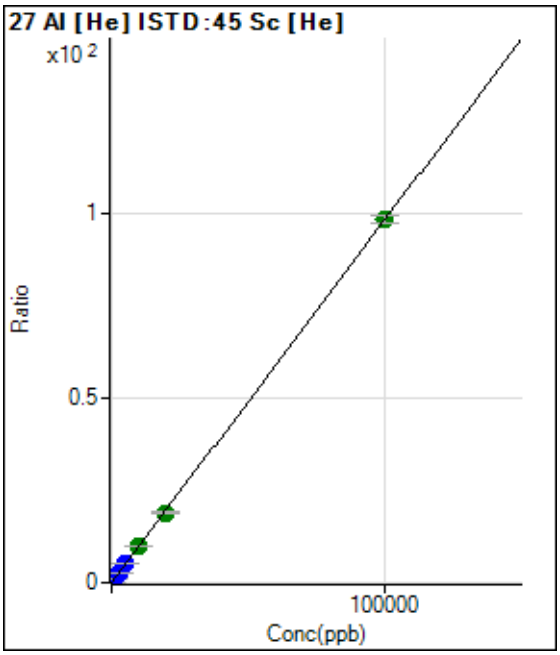
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 547.79 | 0.0035 | P | 4.6 |
| 2 | ☐ | 500.000 | 608.386 | 311205.81 | 1.9959 | P | 0.7 |
| 3 | ☐ | 5000.000 | 5667.844 | 2800005.30 | 18.5648 | A | 0.4 |
| 4 | ☐ | 12500.000 | 13700.345 | 6741401.43 | 44.8701 | A | 0.7 |
| 5 | ☐ | 25000.000 | 26735.820 | 13185556.19 | 87.5594 | A | 1.2 |
| 6 | ☐ | 50000.000 | 52670.278 | 25893684.89 | 172.4909 | A | 1.0 |
| 7 | ☐ | 100000.00 | 99993.969 | 51004313.13 | 327.4691 | A | 0.3 |
| 8 | ☐ | 500000.00 | 499610.59 | 237006034.25 | 1,636.1551 | A | 0.6 |

y = 0.0033 * x + 0.0035
R = 1.0000
DL = 0.1473
BEC = 1.062

Weight: <None>
Min Conc: 0

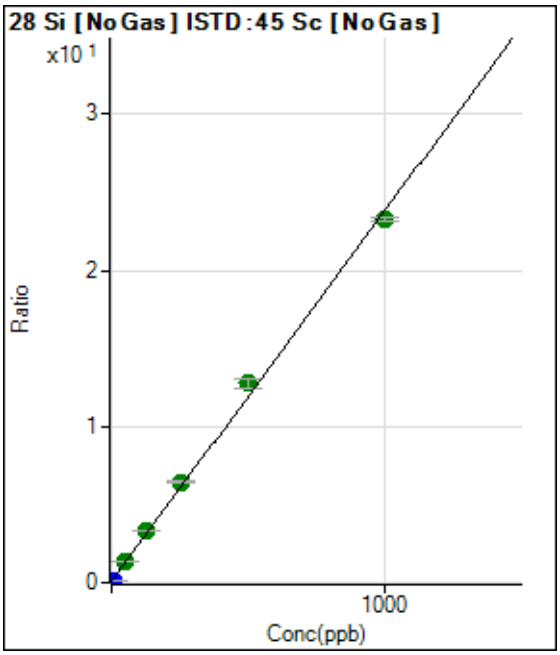



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 362.23 | 0.0023 | P | 10.8 |
| 2 | ☐ | 20.000 | 24.192 | 4062.83 | 0.0261 | P | 5.2 |
| 3 | ☐ | 1000.000 | 1098.664 | 163090.23 | 1.0813 | P | 0.5 |
| 4 | ☐ | 2500.000 | 2647.602 | 390999.58 | 2.6026 | P | 1.1 |
| 5 | ☐ | 5000.000 | 5149.294 | 761907.84 | 5.0595 | P | 1.3 |
| 6 | ☐ | 10000.000 | 9972.547 | 1470536.42 | 9.7965 | A | 1.8 |
| 7 | ☐ | 20000.000 | 19336.217 | 2958257.53 | 18.9928 | A | 0.6 |
| 8 | ☐ | 100000.00 | 100123.36 | 14243714.51 | 98.3354 | A | 2.1 |

y = 9.8212E-004 * x + 0.0023
R = 1.0000
DL = 0.7589
BEC = 2.339

Weight: <None>
Min Conc: 0

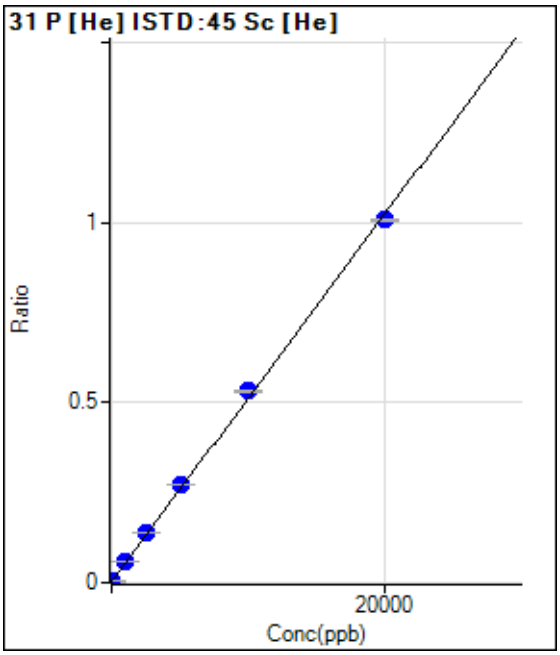
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 554210.01 | 0.0881 | P | 1.0 |
| 2 | ☐ | 10.000 | 1.230 | 723772.64 | 0.1173 | P | 3.4 |
| 3 | ☐ | 50.000 | 54.869 | 8591422.79 | 1.3888 | A | 1.7 |
| 4 | ☐ | 125.000 | 135.927 | 19857199.01 | 3.3102 | A | 0.1 |
| 5 | ☐ | 250.000 | 268.842 | 38839258.03 | 6.4608 | A | 1.3 |
| 6 | ☐ | 500.000 | 534.276 | 73905119.46 | 12.7527 | A | 4.4 |
| 7 | ☐ | 1000.000 | 976.630 | 139778202.36 | 23.2384 | A | 0.9 |
| 8 | ☐ | | | 978754.80 | 0.1806 | M | 7.7 |

y = 0.0237 * x + 0.0881
R = 0.9987
DL = 0.1106
BEC = 3.718

Weight: <None>
Min Conc: 0

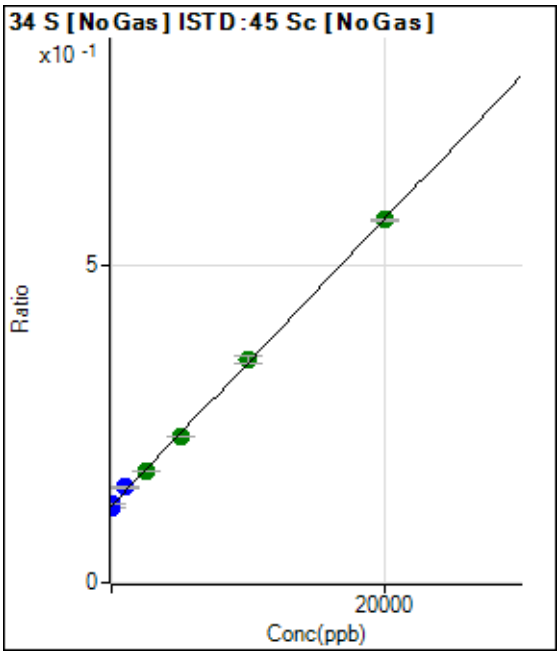



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -21.488 | 181.11 | 0.0012 | P | 21.3 |
| 2 | ☐ | 0.000 | 21.488 | 521.13 | 0.0033 | P | 8.9 |
| 3 | ☐ | 1000.000 | 1094.237 | 8750.48 | 0.0580 | P | 0.6 |
| 4 | ☐ | 2500.000 | 2652.441 | 20650.35 | 0.1374 | P | 0.8 |
| 5 | ☐ | 5000.000 | 5291.388 | 40952.14 | 0.2719 | P | 1.2 |
| 6 | ☐ | 10000.000 | 10398.806 | 79902.67 | 0.5323 | P | 1.0 |
| 7 | ☐ | 20000.000 | 19703.983 | 156777.76 | 1.0066 | P | 0.6 |
| 8 | ☐ | | | 228.89 | 0.0016 | P | 13.0 |

y = 5.0970E-005 * x + 0.0022
R = 0.9996
DL = 15.92
BEC = 44.06

Weight: <None>
Min Conc: 0

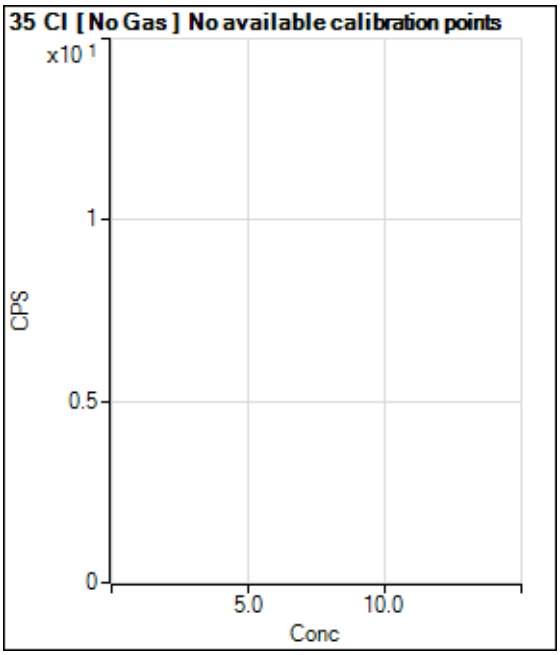
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -110.178 | 745699.79 | 0.1186 | P | 0.9 |
| 2 | ☐ | 0.000 | 110.178 | 762694.49 | 0.1236 | P | 1.2 |
| 3 | ☐ | 1000.000 | 1268.330 | 925985.01 | 0.1497 | P | 1.4 |
| 4 | ☐ | 2500.000 | 2430.479 | 1054997.02 | 0.1759 | A | 0.6 |
| 5 | ☐ | 5000.000 | 4804.898 | 1379035.00 | 0.2294 | A | 0.5 |
| 6 | ☐ | 10000.000 | 10213.654 | 2036281.93 | 0.3513 | A | 3.6 |
| 7 | ☐ | 20000.000 | 19937.222 | 3431241.09 | 0.5704 | A | 0.8 |
| 8 | ☐ | | | 599553.68 | 0.1107 | P | 1.5 |

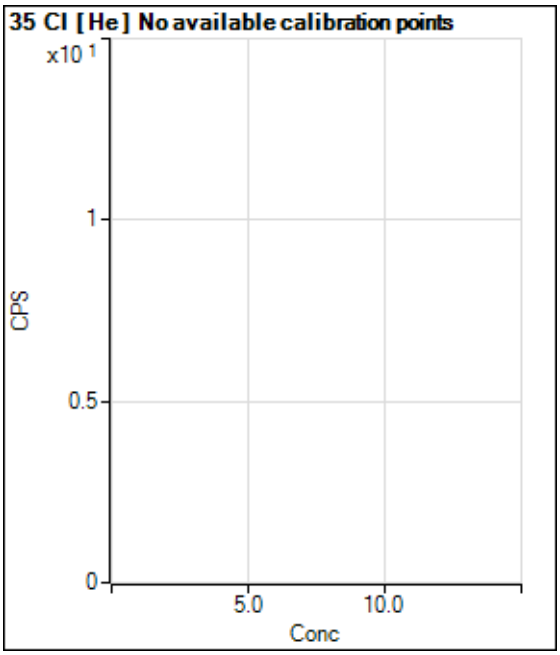
y = 2.2538E-005 * x + 0.1211
R = 0.9997
DL = 171.9
BEC = 5373

Weight: <None>
Min Conc: 0

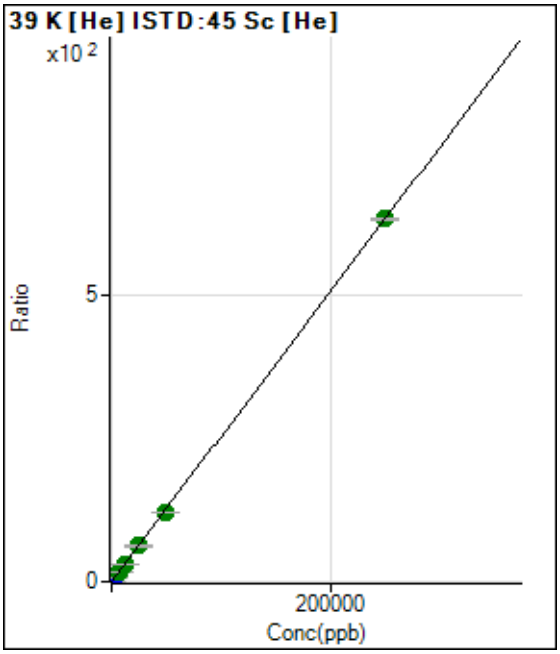



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 195717.10 | | P | 1.4 |
| 2 | ☐ | | | 200328.98 | | P | 0.5 |
| 3 | ☐ | | | 229321.96 | | P | 0.2 |
| 4 | ☐ | | | 232312.79 | | P | 1.5 |
| 5 | ☐ | | | 243180.89 | | P | 1.6 |
| 6 | ☐ | | | 269146.02 | | P | 1.3 |
| 7 | ☐ | | | 334217.75 | | P | 2.1 |
| 8 | ☐ | | | 204174.79 | | P | 0.9 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 1042.27 | | P | 9.9 |
| 2 | ☐ | | | 1091.17 | | P | 5.4 |
| 3 | ☐ | | | 1230.07 | | P | 4.8 |
| 4 | ☐ | | | 1250.07 | | P | 2.6 |
| 5 | ☐ | | | 1238.96 | | P | 4.0 |
| 6 | ☐ | | | 1462.31 | | P | 2.3 |
| 7 | ☐ | | | 1890.14 | | P | 1.8 |
| 8 | ☐ | | | 1255.63 | | P | 5.0 |

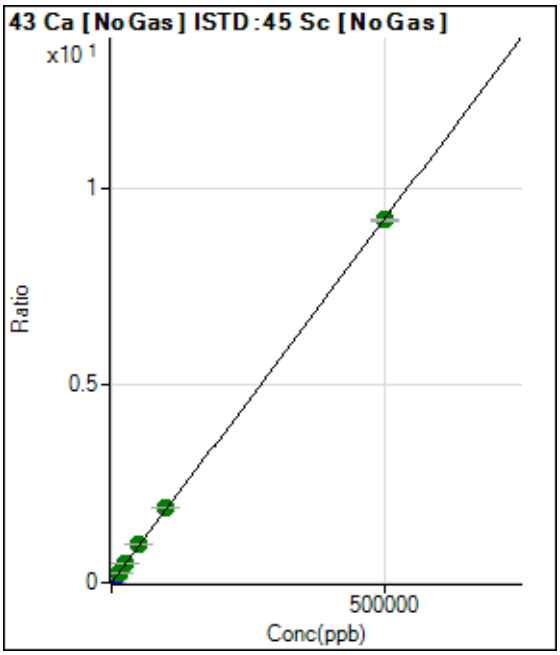



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 22599.98 | 0.1434 | P | 1.1 |
| 2 | ☐ | 500.000 | 545.588 | 237537.19 | 1.5234 | P | 0.2 |
| 3 | ☐ | 2500.000 | 2582.447 | 1006847.49 | 6.6756 | P | 0.4 |
| 4 | ☐ | 6250.000 | 6413.401 | 2458929.88 | 16.3658 | A | 0.4 |
| 5 | ☐ | 12500.000 | 12320.469 | 4714560.31 | 31.3074 | A | 1.1 |
| 6 | ☐ | 25000.000 | 24550.461 | 9343911.46 | 62.2425 | A | 1.0 |
| 7 | ☐ | 50000.000 | 47362.102 | 18681857.78 | 119.9433 | A | 0.4 |
| 8 | ☐ | 250000.00 | 250576.50 | 91834034.19 | 633.9634 | A | 0.3 |

y = 0.0025 * x + 0.1434
R = 0.9999
DL = 1.828
BEC = 56.69

Weight: <None>
Min Conc: 0

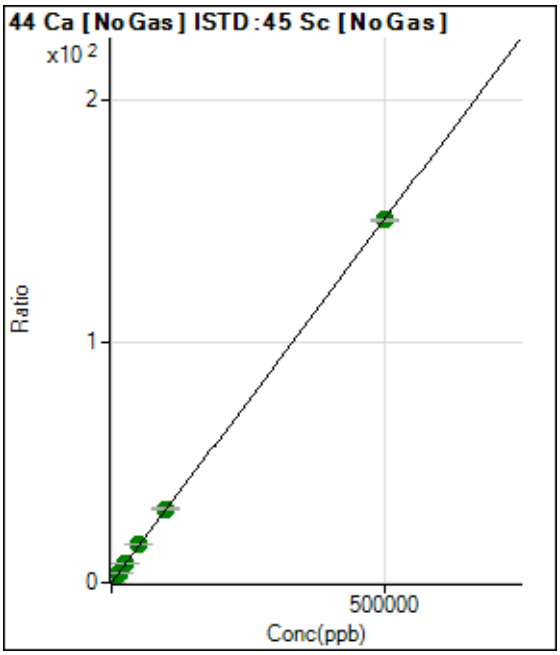
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4700.81 | 0.0007 | P | 2.3 |
| 2 | ☐ | 500.000 | 577.241 | 70206.69 | 0.0114 | P | 1.5 |
| 3 | ☐ | 5000.000 | 5425.151 | 622552.94 | 0.1006 | P | 1.6 |
| 4 | ☐ | 12500.000 | 13393.711 | 1483752.48 | 0.2473 | A | 1.3 |
| 5 | ☐ | 25000.000 | 26325.525 | 2918410.37 | 0.4854 | A | 0.2 |
| 6 | ☐ | 50000.000 | 53089.745 | 5670672.07 | 0.9782 | A | 3.3 |
| 7 | ☐ | 100000.00 | 102629.55 | 11370193.58 | 1.8903 | A | 0.9 |
| 8 | ☐ | 500000.00 | 499072.16 | 49791317.03 | 9.1894 | A | 0.4 |

y = 1.8412E-005 * x + 7.4774E-004
R = 1.0000
DL = 2.793
BEC = 40.61

Weight: <None>
Min Conc: 0

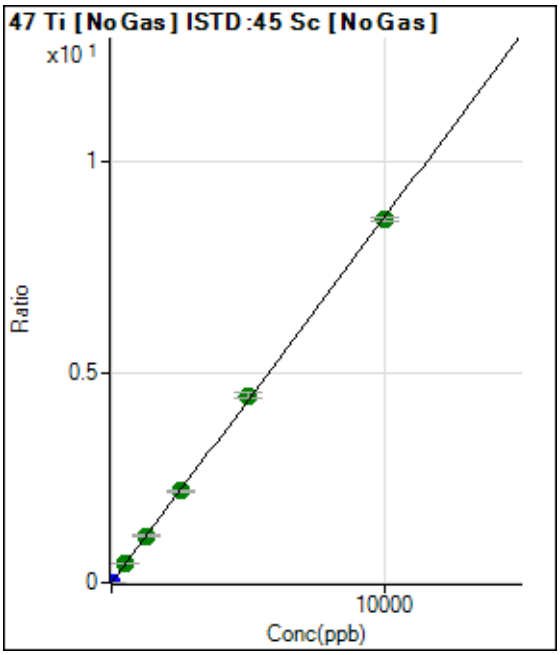



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 89986.77 | 0.0143 | P | 1.3 |
| 2 | ☐ | 500.000 | 575.398 | 1159340.74 | 0.1878 | P | 0.9 |
| 3 | ☐ | 5000.000 | 5300.213 | 9977025.68 | 1.6127 | A | 2.0 |
| 4 | ☐ | 12500.000 | 13304.927 | 24155254.36 | 4.0268 | A | 0.7 |
| 5 | ☐ | 25000.000 | 25974.783 | 47178405.96 | 7.8478 | A | 0.7 |
| 6 | ☐ | 50000.000 | 52730.613 | 92259508.62 | 15.9168 | A | 3.7 |
| 7 | ☐ | 100000.00 | 101764.93 | 184688063.92 | 30.7046 | A | 0.8 |
| 8 | ☐ | 500000.00 | 499302.01 | 815950672.29 | 150.5937 | A | 0.9 |

y = 3.0158E-004 * x + 0.0143
R = 1.0000
DL = 1.91
BEC = 47.46

Weight: <None>
Min Conc: 0

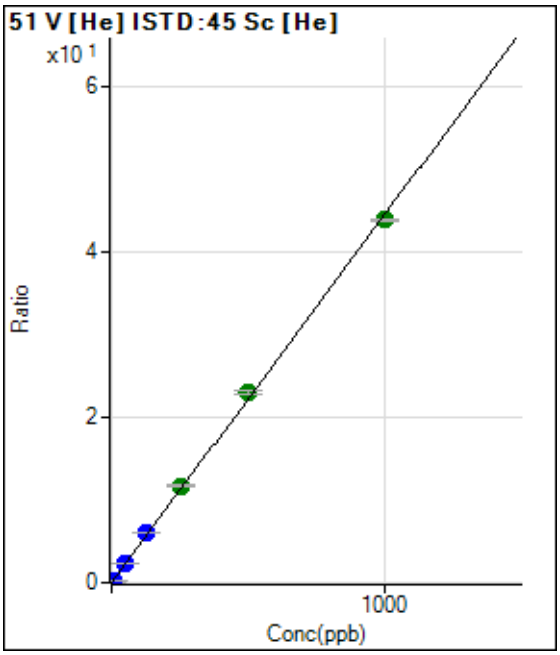
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 328.90 | 0.0001 | P | 2.8 |
| 2 | ☐ | 5.000 | 5.701 | 30907.76 | 0.0050 | P | 1.4 |
| 3 | ☐ | 500.000 | 519.580 | 2794586.80 | 0.4517 | A | 0.5 |
| 4 | ☐ | 1250.000 | 1285.786 | 6704408.02 | 1.1177 | A | 0.9 |
| 5 | ☐ | 2500.000 | 2503.535 | 13082548.28 | 2.1762 | A | 0.3 |
| 6 | ☐ | 5000.000 | 5125.318 | 25822304.61 | 4.4550 | A | 3.8 |
| 7 | ☐ | 10000.000 | 9931.005 | 51922724.23 | 8.6322 | A | 0.9 |
| 8 | ☐ | | | 3949.47 | 0.0007 | P | 3.8 |

y = 8.6921E-004 * x + 5.2330E-005
R = 0.9999
DL = 0.005
BEC = 0.0602

Weight: <None>
Min Conc: 0

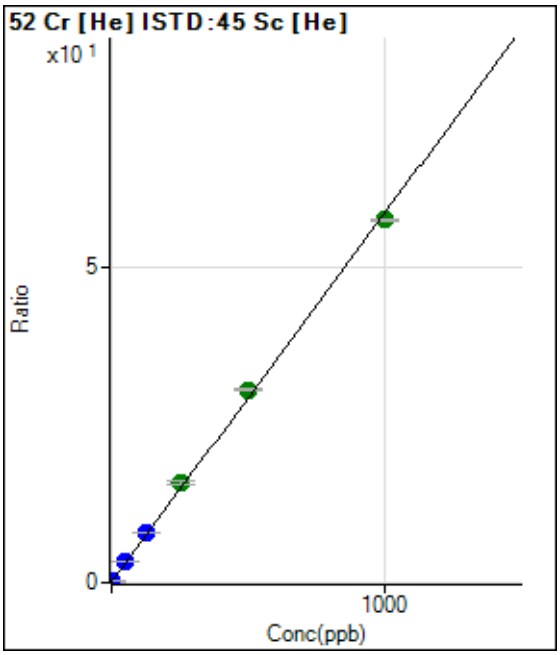



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 82.22 | 0.0005 | P | 32.0 |
| 2 | ☐ | 5.000 | 5.717 | 39718.27 | 0.2547 | P | 0.3 |
| 3 | ☐ | 50.000 | 54.476 | 365450.13 | 2.4230 | P | 0.6 |
| 4 | ☐ | 125.000 | 133.791 | 893931.99 | 5.9500 | P | 0.6 |
| 5 | ☐ | 250.000 | 263.169 | 1762395.48 | 11.7032 | A | 0.9 |
| 6 | ☐ | 500.000 | 517.980 | 3457695.57 | 23.0342 | A | 1.6 |
| 7 | ☐ | 1000.000 | 986.391 | 6831899.27 | 43.8637 | A | 0.8 |
| 8 | ☐ | | | 1694.56 | 0.0117 | P | 7.8 |

y = 0.0445 * x + 5.2249E-004
R = 0.9997
DL = 0.01128
BEC = 0.01175

Weight: <None>
Min Conc: 0

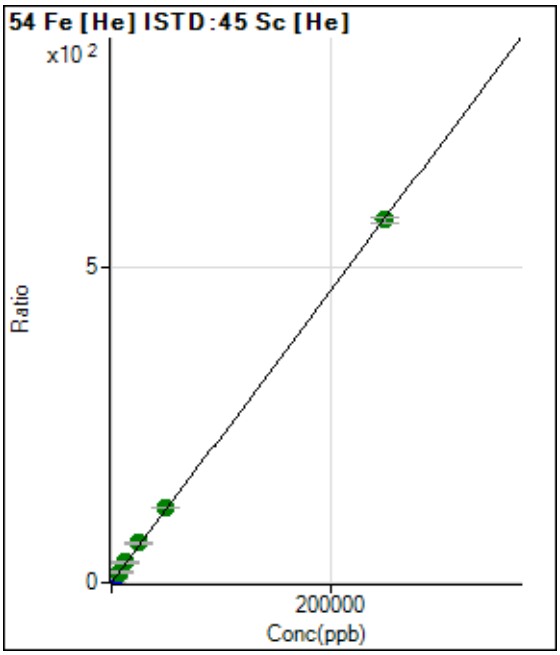
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 14658.73 | 0.0930 | P | 1.2 |
| 2 | ☐ | 2.000 | 2.380 | 36137.89 | 0.2318 | P | 1.0 |
| 3 | ☐ | 50.000 | 54.622 | 494203.67 | 3.2767 | P | 0.9 |
| 4 | ☐ | 125.000 | 133.761 | 1185324.00 | 7.8894 | P | 0.3 |
| 5 | ☐ | 250.000 | 269.210 | 2376821.74 | 15.7842 | A | 2.3 |
| 6 | ☐ | 500.000 | 522.607 | 4586566.07 | 30.5536 | A | 1.7 |
| 7 | ☐ | 1000.000 | 982.567 | 8934630.07 | 57.3627 | A | 0.5 |
| 8 | ☐ | | | 71331.04 | 0.4924 | P | 1.7 |

y = 0.0583 * x + 0.0930
R = 0.9994
DL = 0.05723
BEC = 1.596

Weight: <None>
Min Conc: 0

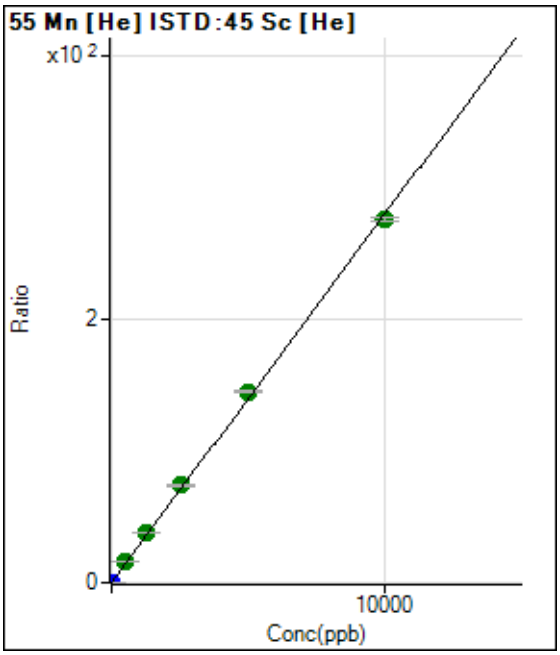



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3983.93 | 0.0253 | P | 3.2 |
| 2 | ☐ | 50.000 | 62.206 | 26285.36 | 0.1686 | P | 2.3 |
| 3 | ☐ | 2500.000 | 2900.077 | 1011370.49 | 6.7056 | P | 0.9 |
| 4 | ☐ | 6250.000 | 7259.035 | 2516124.62 | 16.7464 | A | 0.4 |
| 5 | ☐ | 12500.000 | 13889.919 | 4821910.21 | 32.0205 | A | 1.3 |
| 6 | ☐ | 25000.000 | 27281.040 | 9436824.93 | 62.8668 | A | 1.9 |
| 7 | ☐ | 50000.000 | 51479.184 | 18473694.72 | 118.6068 | A | 0.7 |
| 8 | ☐ | 250000.00 | 249377.33 | 83212239.32 | 574.4623 | A | 1.5 |

y = 0.0023 * x + 0.0253
R = 0.9999
DL = 1.053
BEC = 10.98

Weight: <None>
Min Conc: 0

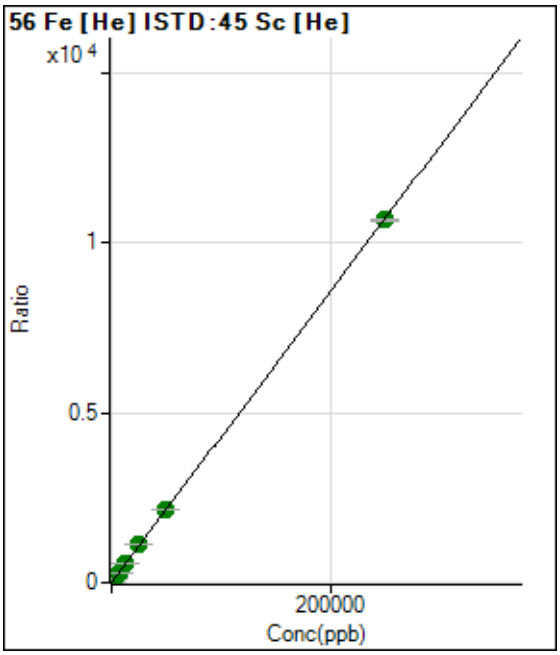
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1852.36 | 0.0118 | P | 6.4 |
| 2 | ☐ | 1.000 | 1.038 | 6354.80 | 0.0408 | P | 3.6 |
| 3 | ☐ | 500.000 | 562.533 | 2371788.70 | 15.7257 | A | 1.0 |
| 4 | ☐ | 1250.000 | 1350.690 | 5670501.16 | 37.7422 | A | 0.3 |
| 5 | ☐ | 2500.000 | 2641.730 | 11114058.31 | 73.8064 | A | 2.2 |
| 6 | ☐ | 5000.000 | 5192.102 | 21773544.12 | 145.0491 | A | 1.4 |
| 7 | ☐ | 10000.000 | 9852.803 | 42870832.14 | 275.2422 | A | 0.9 |
| 8 | ☐ | | | 21290.38 | 0.1470 | P | 1.0 |

y = 0.0279 * x + 0.0118
R = 0.9996
DL = 0.08019
BEC = 0.4207

Weight: <None>
Min Conc: 0

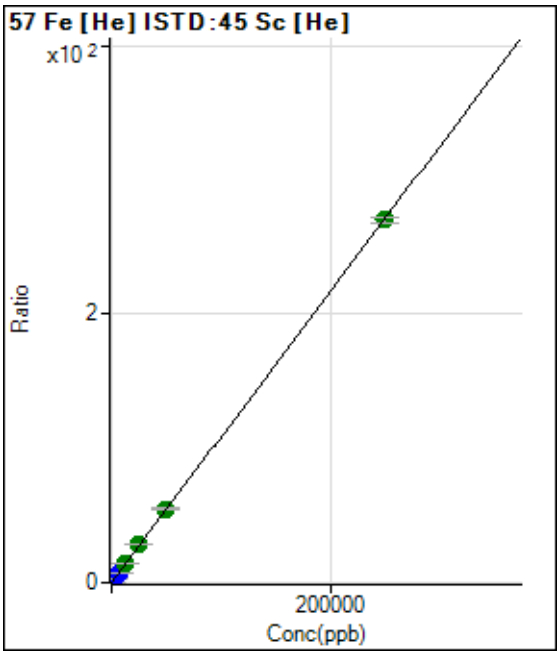



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 59941.81 | 0.3804 | P | 1.8 |
| 2 | ☐ | 50.000 | 60.500 | 462678.21 | 2.9673 | P | 0.6 |
| 3 | ☐ | 2500.000 | 2870.240 | 18568300.00 | 123.1103 | A | 0.4 |
| 4 | ☐ | 6250.000 | 6991.042 | 44969151.00 | 299.3136 | A | 0.5 |
| 5 | ☐ | 12500.000 | 13552.814 | 87326210.92 | 579.8915 | A | 0.9 |
| 6 | ☐ | 25000.000 | 26755.028 | 171786317.44 | 1,144.4111 | A | 1.6 |
| 7 | ☐ | 50000.000 | 50457.270 | 336104023.88 | 2,157.9062 | A | 0.5 |
| 8 | ☐ | 250000.00 | 249658.17 | 1546423923.6 | 10,675.629 | A | 0.6 |

y = 0.0428 * x + 0.3804
R = 1.0000
DL = 0.4746
BEC = 8.896

Weight: <None>
Min Conc: 0

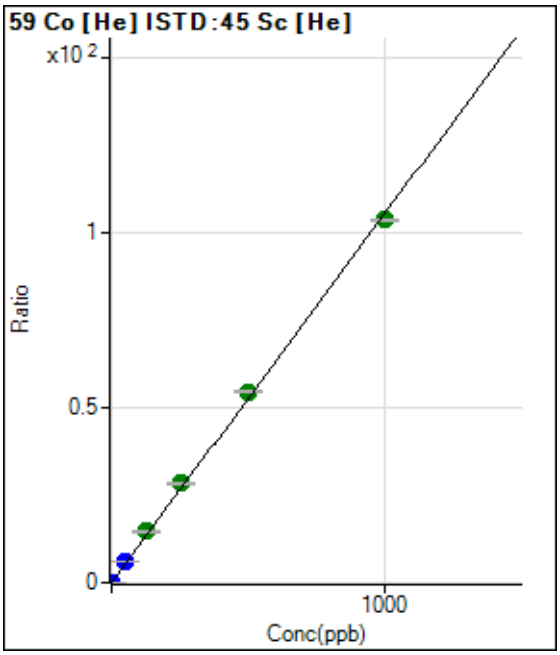
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1470.09 | 0.0093 | P | 2.5 |
| 2 | ☐ | 50.000 | 60.115 | 11601.47 | 0.0744 | P | 2.0 |
| 3 | ☐ | 2500.000 | 2826.922 | 462928.11 | 3.0693 | P | 0.7 |
| 4 | ☐ | 6250.000 | 6898.306 | 1123232.06 | 7.4763 | P | 0.7 |
| 5 | ☐ | 12500.000 | 13709.342 | 2236148.37 | 14.8488 | A | 1.1 |
| 6 | ☐ | 25000.000 | 26677.467 | 4336009.45 | 28.8859 | A | 1.7 |
| 7 | ☐ | 50000.000 | 50761.818 | 8559414.32 | 54.9556 | A | 0.8 |
| 8 | ☐ | 250000.00 | 249599.94 | 39136465.53 | 270.1845 | A | 1.5 |

y = 0.0011 * x + 0.0093
R = 1.0000
DL = 0.6447
BEC = 8.619

Weight: <None>
Min Conc: 0

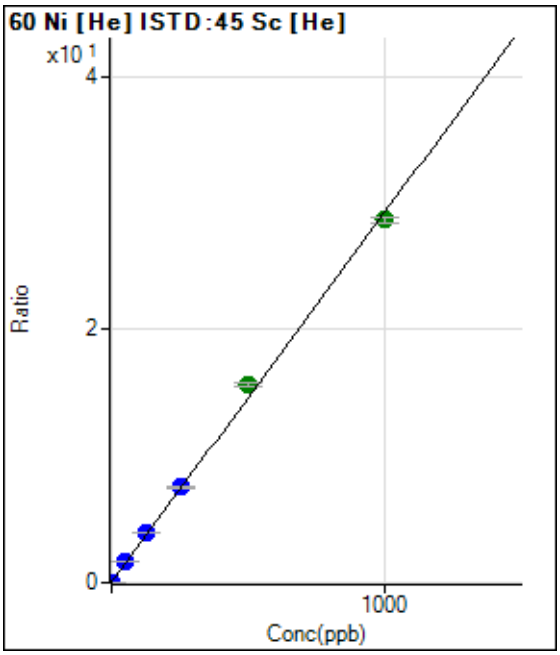



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 382.23 | 0.0024 | P | 4.1 |
| 2 | ☐ | 1.000 | 1.231 | 20598.34 | 0.1321 | P | 1.7 |
| 3 | ☐ | 50.000 | 55.426 | 880880.18 | 5.8405 | P | 1.0 |
| 4 | ☐ | 125.000 | 138.745 | 2196165.99 | 14.6166 | A | 1.5 |
| 5 | ☐ | 250.000 | 268.697 | 4262360.01 | 28.3045 | A | 1.3 |
| 6 | ☐ | 500.000 | 518.361 | 8196252.24 | 54.6018 | A | 1.6 |
| 7 | ☐ | 1000.000 | 984.155 | 16146094.76 | 103.6643 | A | 0.2 |
| 8 | ☐ | | | 32293.33 | 0.2229 | P | 1.7 |

y = 0.1053 * x + 0.0024
R = 0.9995
DL = 0.002855
BEC = 0.02302

Weight: <None>
Min Conc: 0

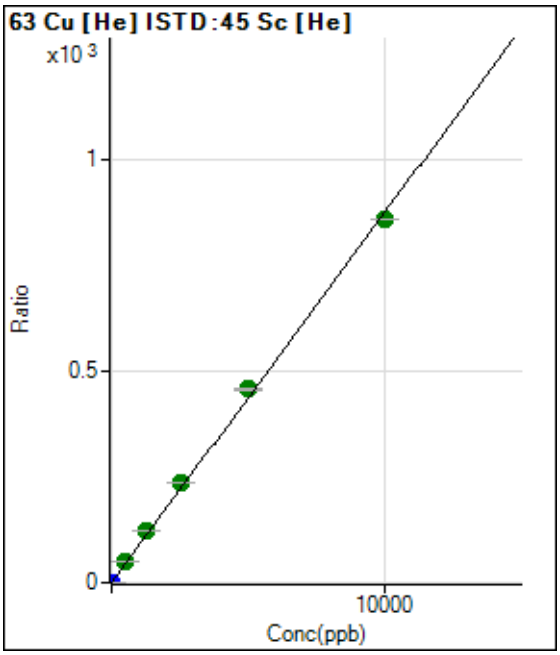
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4122.86 | 0.0262 | P | 0.2 |
| 2 | ☐ | 1.000 | 1.180 | 9454.33 | 0.0606 | P | 2.1 |
| 3 | ☐ | 50.000 | 55.716 | 249520.57 | 1.6544 | P | 1.0 |
| 4 | ☐ | 125.000 | 134.128 | 592837.48 | 3.9459 | P | 0.5 |
| 5 | ☐ | 250.000 | 256.978 | 1134865.16 | 7.5361 | P | 0.9 |
| 6 | ☐ | 500.000 | 532.958 | 2341757.38 | 15.6013 | A | 2.2 |
| 7 | ☐ | 1000.000 | 980.350 | 4466306.11 | 28.6758 | A | 1.4 |
| 8 | ☐ | | | 33774.52 | 0.2332 | P | 0.8 |

y = 0.0292 * x + 0.0262
R = 0.9991
DL = 0.005656
BEC = 0.8952

Weight: <None>
Min Conc: 0

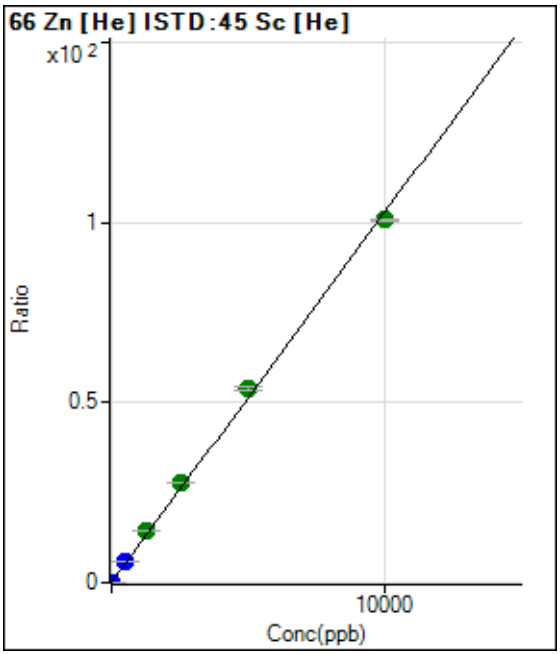



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3132.60 | 0.0199 | P | 3.6 |
| 2 | ☐ | 2.000 | 2.258 | 33907.07 | 0.2175 | P | 0.6 |
| 3 | ☐ | 500.000 | 579.306 | 7648280.72 | 50.7099 | A | 0.5 |
| 4 | ☐ | 1250.000 | 1408.463 | 18518675.83 | 123.2622 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2706.106 | 35661151.69 | 236.8076 | A | 0.7 |
| 6 | ☐ | 5000.000 | 5229.334 | 68690397.31 | 457.5932 | A | 1.4 |
| 7 | ☐ | 10000.000 | 9810.033 | 133700901.34 | 858.4102 | A | 0.1 |
| 8 | ☐ | | | 96545.05 | 0.6665 | P | 1.1 |

y = 0.0875 * x + 0.0199
R = 0.9993
DL = 0.02476
BEC = 0.2271

Weight: <None>
Min Conc: 0

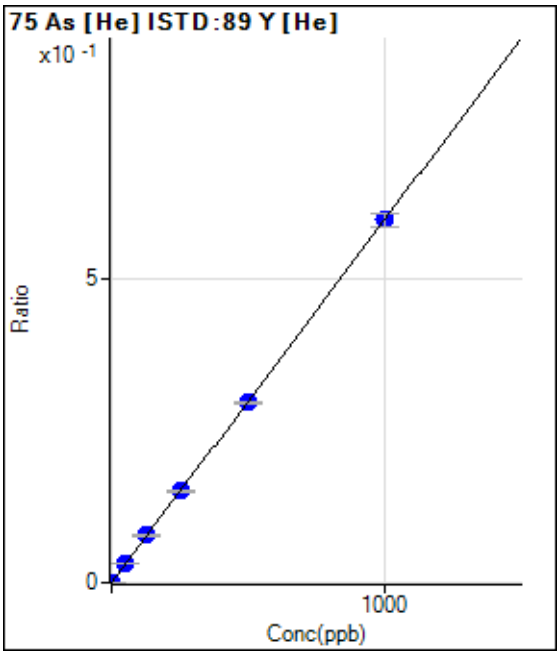
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5128.76 | 0.0325 | P | 2.8 |
| 2 | ☐ | 2.000 | 4.837 | 12826.99 | 0.0823 | P | 1.1 |
| 3 | ☐ | 500.000 | 568.819 | 886810.03 | 5.8799 | P | 0.9 |
| 4 | ☐ | 1250.000 | 1416.729 | 2192899.92 | 14.5961 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2706.191 | 4194305.46 | 27.8515 | A | 0.2 |
| 6 | ☐ | 5000.000 | 5245.070 | 8097890.71 | 53.9505 | A | 2.6 |
| 7 | ☐ | 10000.000 | 9801.635 | 15698572.40 | 100.7908 | A | 0.7 |
| 8 | ☐ | | | 29177.82 | 0.2014 | P | 0.8 |

y = 0.0103 * x + 0.0325
R = 0.9992
DL = 0.2621
BEC = 3.166

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 12.22 | 0.0000 | P | 16.4 |
| 2 | ☐ | 1.000 | 1.197 | 1133.39 | 0.0007 | P | 3.7 |
| 3 | ☐ | 50.000 | 51.726 | 46950.10 | 0.0308 | P | 1.7 |
| 4 | ☐ | 125.000 | 130.348 | 115266.47 | 0.0777 | P | 2.7 |
| 5 | ☐ | 250.000 | 251.938 | 225331.45 | 0.1502 | P | 0.9 |
| 6 | ☐ | 500.000 | 497.325 | 441346.06 | 0.2965 | P | 1.3 |
| 7 | ☐ | 1000.000 | 1000.098 | 867093.01 | 0.5962 | P | 4.0 |
| 8 | ☐ | | | 407.79 | 0.0003 | P | 9.5 |

y = 5.9617E-004 * x + 7.7842E-006
R = 1.0000
DL = 0.006436
BEC = 0.01306

Weight: <None>
Min Conc: 0

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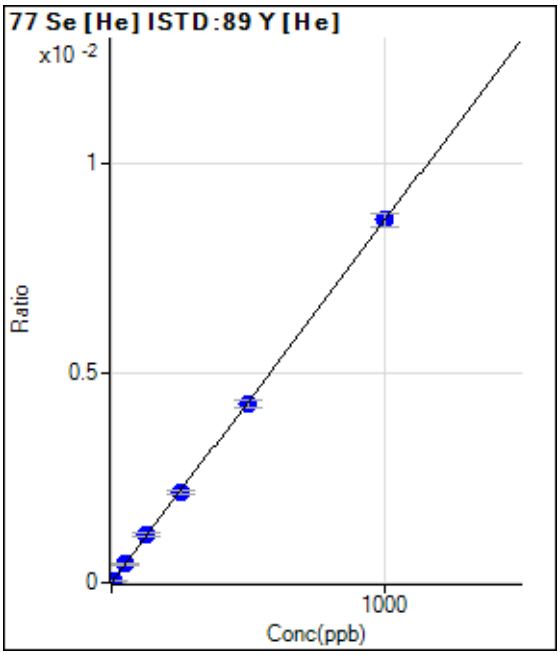
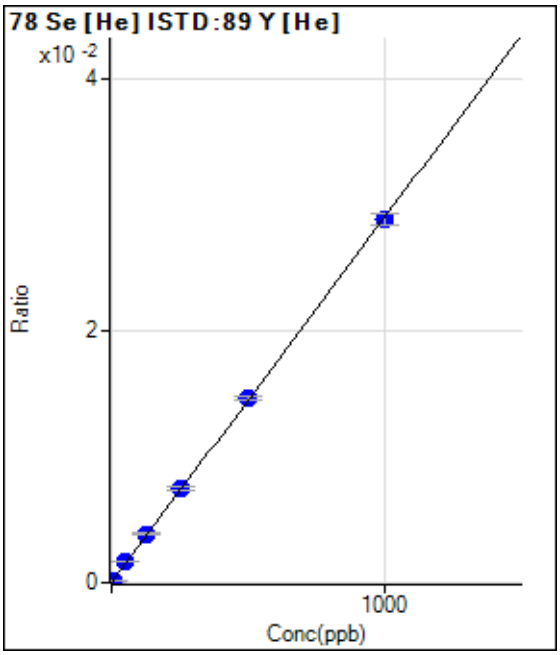
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6.67 | 0.0000 | P | 49.5 |
| 2 | ☐ | 5.000 | 5.818 | 85.55 | 0.0001 | P | 17.8 |
| 3 | ☐ | 50.000 | 50.028 | 663.36 | 0.0004 | P | 8.1 |
| 4 | ☐ | 125.000 | 132.319 | 1699.01 | 0.0011 | P | 4.7 |
| 5 | ☐ | 250.000 | 248.608 | 3223.73 | 0.0021 | P | 2.9 |
| 6 | ☐ | 500.000 | 495.284 | 6367.05 | 0.0043 | P | 4.5 |
| 7 | ☐ | 1000.000 | 1001.786 | 12579.05 | 0.0086 | P | 3.4 |
| 8 | ☐ | | | 5.55 | 0.0000 | P | 125.0 |

y = 8.6273E-006 * x + 4.2376E-006
R = 1.0000
DL = 0.7288
BEC = 0.4912

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 27.78 | 0.0000 | P | 34.0 |
| 2 | ☐ | 5.000 | 6.376 | 317.78 | 0.0002 | P | 3.0 |
| 3 | ☐ | 50.000 | 56.165 | 2503.58 | 0.0016 | P | 3.1 |
| 4 | ☐ | 125.000 | 133.620 | 5763.46 | 0.0039 | P | 5.8 |
| 5 | ☐ | 250.000 | 257.147 | 11197.87 | 0.0075 | P | 2.5 |
| 6 | ☐ | 500.000 | 506.094 | 21844.83 | 0.0147 | P | 1.5 |
| 7 | ☐ | 1000.000 | 993.774 | 41891.04 | 0.0288 | P | 3.2 |
| 8 | ☐ | | | 48.89 | 0.0000 | P | 14.5 |

y = 2.8961E-005 * x + 1.7645E-005
R = 0.9999
DL = 0.6218
BEC = 0.6092

Weight: <None>
Min Conc: 0

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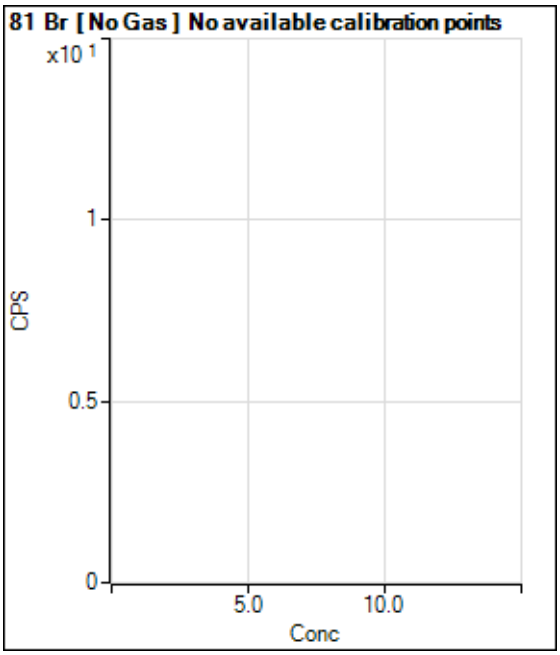
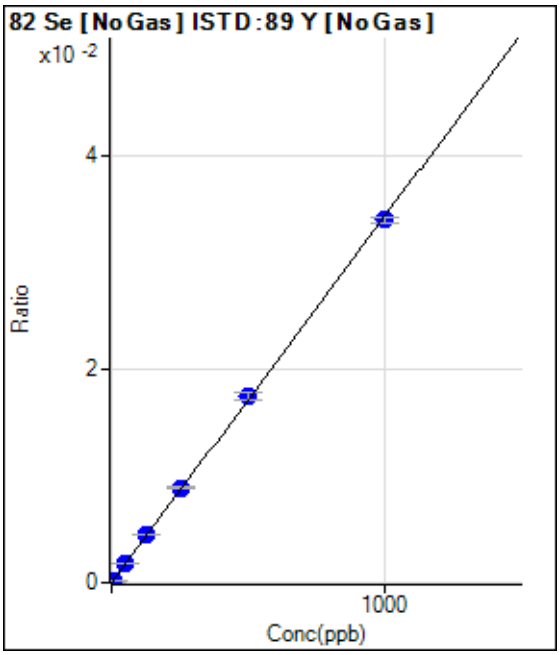
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 30408.64 | | P | 3.0 |
| 2 | ☐ | | | 29503.39 | | P | 1.7 |
| 3 | ☐ | | | 29295.09 | | P | 1.3 |
| 4 | ☐ | | | 28965.54 | | P | 1.6 |
| 5 | ☐ | | | 29419.82 | | P | 3.5 |
| 6 | ☐ | | | 29516.65 | | P | 0.8 |
| 7 | ☐ | | | 29900.81 | | P | 0.8 |
| 8 | ☐ | | | 28709.47 | | P | 1.1 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | -16.67 | 0.0000 | P | -409. |
| 2 | ☐ | 5.000 | 5.818 | 3376.09 | 0.0002 | P | 2.3 |
| 3 | ☐ | 50.000 | 54.189 | 31678.96 | 0.0019 | P | 0.9 |
| 4 | ☐ | 125.000 | 131.646 | 75956.52 | 0.0045 | P | 1.5 |
| 5 | ☐ | 250.000 | 258.916 | 148667.32 | 0.0089 | P | 1.8 |
| 6 | ☐ | 500.000 | 510.790 | 285630.53 | 0.0175 | P | 3.6 |
| 7 | ☐ | 1000.000 | 991.332 | 554852.69 | 0.0340 | P | 1.5 |
| 8 | ☐ | | | 376.69 | 0.0000 | P | 24.0 |

y = 3.4335E-005 * x - 9.4614E-007
R = 0.9999
DL = 0.3381
BEC = -0.02756

Weight: <None>
Min Conc: 0

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
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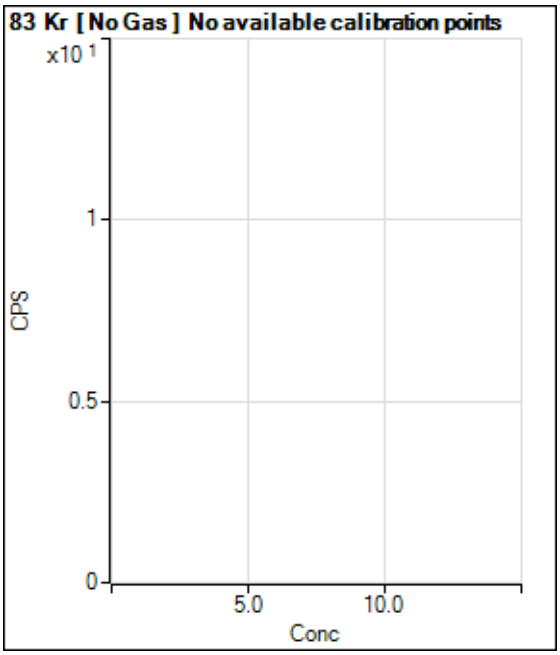
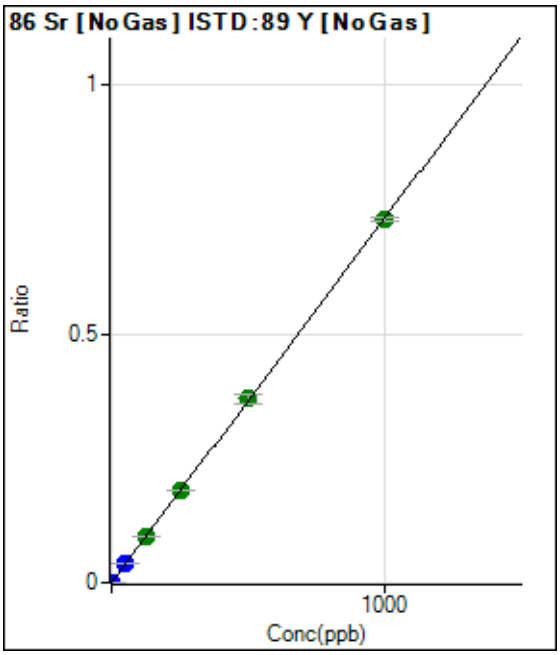



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 420.01 | | P | 17.4 |
| 2 | ☐ | | | 408.90 | | P | 13.2 |
| 3 | ☐ | | | 406.68 | | P | 2.8 |
| 4 | ☐ | | | 442.23 | | P | 7.4 |
| 5 | ☐ | | | 405.57 | | P | 17.6 |
| 6 | ☐ | | | 430.01 | | P | 13.6 |
| 7 | ☐ | | | 460.01 | | P | 9.4 |
| 8 | ☐ | | | 491.13 | | P | 7.9 |

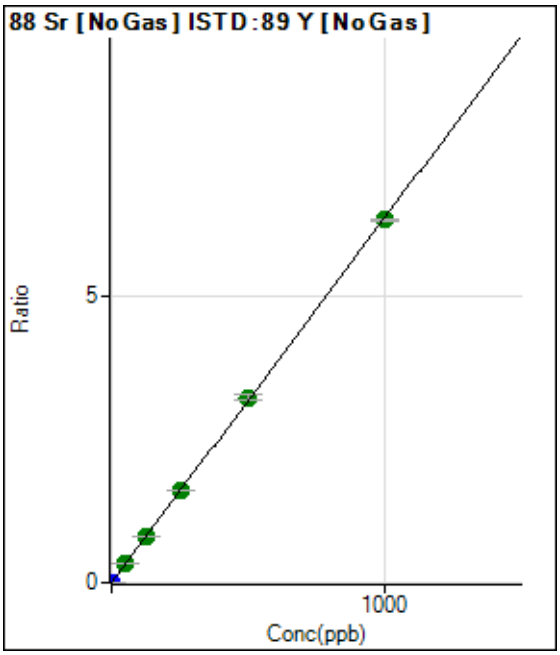



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 824.48 | 0.0000 | P | 6.7 |
| 2 | ☐ | 1.000 | 1.115 | 14640.00 | 0.0009 | P | 1.4 |
| 3 | ☐ | 50.000 | 50.320 | 627751.36 | 0.0369 | P | 0.7 |
| 4 | ☐ | 125.000 | 128.614 | 1581884.89 | 0.0941 | A | 0.7 |
| 5 | ☐ | 250.000 | 252.348 | 3087727.21 | 0.1846 | A | 0.2 |
| 6 | ☐ | 500.000 | 504.907 | 6013900.33 | 0.3693 | A | 4.5 |
| 7 | ☐ | 1000.000 | 996.492 | 11882444.55 | 0.7289 | A | 1.0 |
| 8 | ☐ | | | 34998.14 | 0.0024 | P | 0.6 |

y = 7.3138E-004 * x + 4.7222E-005
R = 1.0000
DL = 0.01304
BEC = 0.06456

Weight: <None>
Min Conc: 0

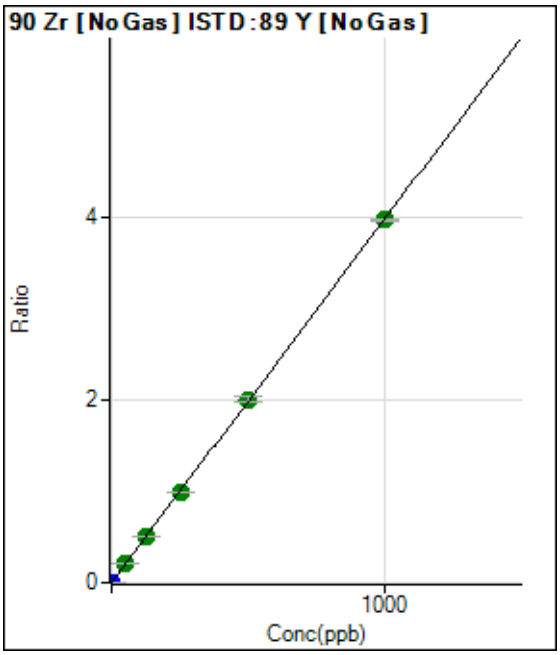
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1819.03 | 0.0001 | P | 6.2 |
| 2 | ☐ | 1.000 | 1.093 | 119559.84 | 0.0070 | P | 0.4 |
| 3 | ☐ | 50.000 | 51.215 | 5537286.37 | 0.3251 | A | 0.9 |
| 4 | ☐ | 125.000 | 126.665 | 13509955.35 | 0.8038 | A | 0.4 |
| 5 | ☐ | 250.000 | 251.629 | 26704670.43 | 1.5967 | A | 0.8 |
| 6 | ☐ | 500.000 | 508.398 | 52535174.77 | 3.2258 | A | 3.9 |
| 7 | ☐ | 1000.000 | 995.125 | 102939007.36 | 6.3141 | A | 0.6 |
| 8 | ☐ | | | 299975.06 | 0.0203 | P | 0.9 |

y = 0.0063 * x + 1.0421E-004
R = 0.9999
DL = 0.00305
BEC = 0.01642

Weight: <None>
Min Conc: 0

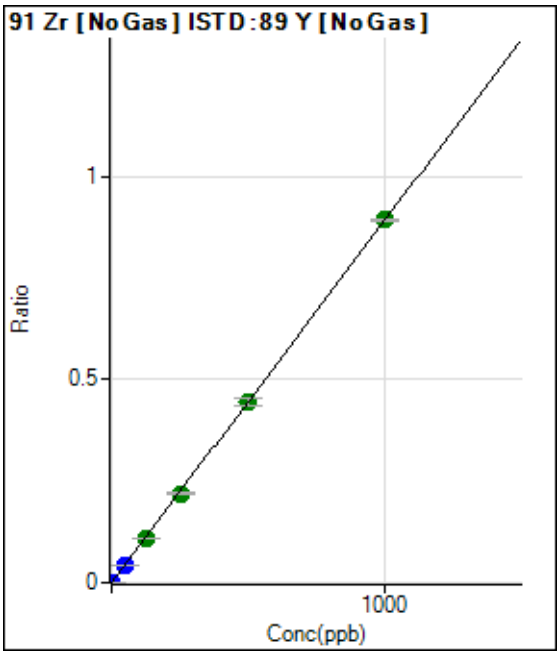



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1005.60 | 0.0001 | P | 15.5 |
| 2 | ☐ | 1.000 | 1.056 | 72213.40 | 0.0043 | P | 1.1 |
| 3 | ☐ | 50.000 | 50.987 | 3452803.80 | 0.2027 | A | 2.0 |
| 4 | ☐ | 125.000 | 125.213 | 8365544.81 | 0.4977 | A | 0.4 |
| 5 | ☐ | 250.000 | 247.851 | 16476294.76 | 0.9851 | A | 1.2 |
| 6 | ☐ | 500.000 | 504.002 | 32626052.85 | 2.0032 | A | 3.5 |
| 7 | ☐ | 1000.000 | 998.460 | 64702978.48 | 3.9684 | A | 0.5 |
| 8 | ☐ | | | 27494.91 | 0.0019 | P | 2.5 |

y = 0.0040 * x + 5.7649E-005
R = 1.0000
DL = 0.006725
BEC = 0.01451

Weight: <None>
Min Conc: 0

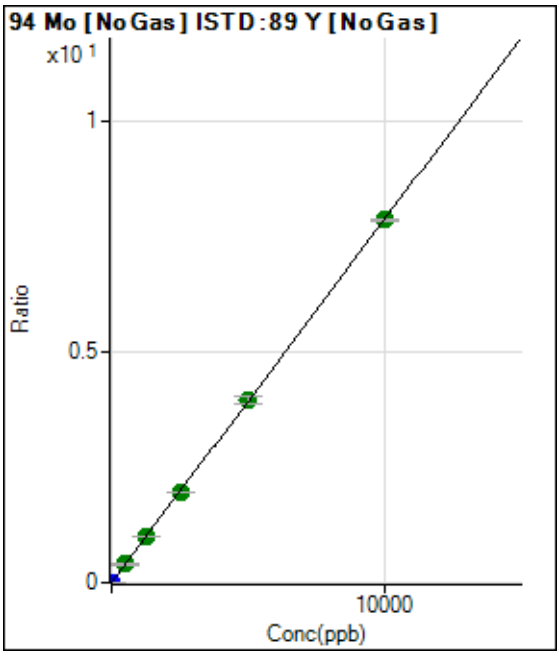
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 158.89 | 0.0000 | P | 17.5 |
| 2 | ☐ | 1.000 | 1.038 | 15839.12 | 0.0009 | P | 1.8 |
| 3 | ☐ | 50.000 | 49.167 | 745885.03 | 0.0438 | P | 1.7 |
| 4 | ☐ | 125.000 | 123.971 | 1855520.87 | 0.1104 | A | 1.0 |
| 5 | ☐ | 250.000 | 246.019 | 3663905.16 | 0.2191 | A | 1.3 |
| 6 | ☐ | 500.000 | 498.179 | 7222766.42 | 0.4436 | A | 4.5 |
| 7 | ☐ | 1000.000 | 1002.076 | 14547560.76 | 0.8923 | A | 0.9 |
| 8 | ☐ | | | 6132.51 | 0.0004 | P | 2.0 |

y = 8.9041E-004 * x + 9.1024E-006
R = 1.0000
DL = 0.005358
BEC = 0.01022

Weight: <None>
Min Conc: 0

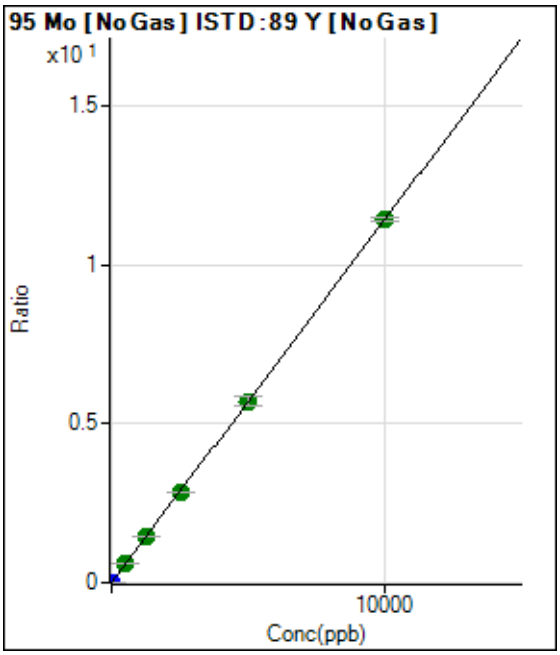



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 640.02 | 0.0000 | P | 2.1 |
| 2 | ☐ | 5.000 | 6.391 | 85843.76 | 0.0051 | P | 2.5 |
| 3 | ☐ | 500.000 | 506.573 | 6779061.43 | 0.3979 | A | 1.6 |
| 4 | ☐ | 1250.000 | 1256.604 | 16590982.81 | 0.9871 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2480.194 | 32583955.35 | 1.9482 | A | 1.4 |
| 6 | ☐ | 5000.000 | 5033.439 | 64383049.60 | 3.9538 | A | 4.4 |
| 7 | ☐ | 10000.000 | 9987.077 | 127902946.98 | 7.8449 | A | 0.5 |
| 8 | ☐ | | | 22597.34 | 0.0015 | P | 2.1 |

y = 7.8550E-004 * x + 3.6692E-005
R = 1.0000
DL = 0.002955
BEC = 0.04671

Weight: <None>
Min Conc: 0

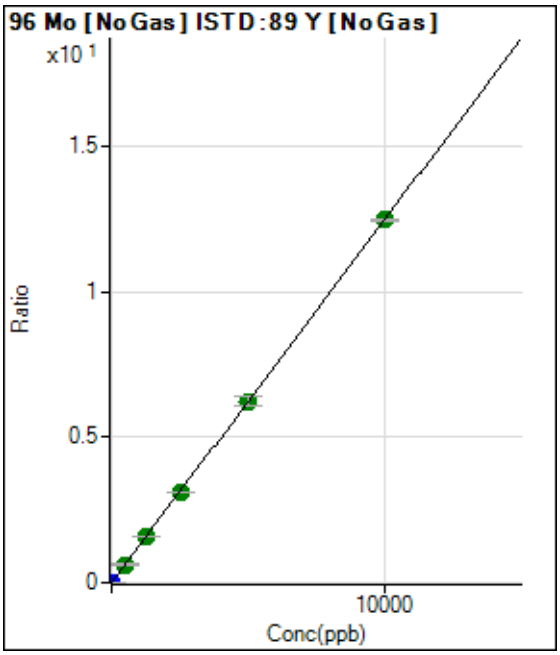
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 685.58 | 0.0000 | P | 0.8 |
| 2 | ☐ | 5.000 | 5.336 | 104022.21 | 0.0061 | P | 1.0 |
| 3 | ☐ | 500.000 | 507.621 | 9867286.10 | 0.5792 | A | 0.9 |
| 4 | ☐ | 1250.000 | 1258.622 | 24138432.70 | 1.4361 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2480.557 | 47337924.85 | 2.8304 | A | 1.2 |
| 6 | ☐ | 5000.000 | 5000.865 | 92900493.06 | 5.7060 | A | 4.9 |
| 7 | ☐ | 10000.000 | 10002.970 | 186066137.22 | 11.4134 | A | 1.1 |
| 8 | ☐ | | | 21490.03 | 0.0015 | P | 2.2 |

y = 0.0011 * x + 3.9313E-005
R = 1.0000
DL = 0.0008053
BEC = 0.03445

Weight: <None>
Min Conc: 0

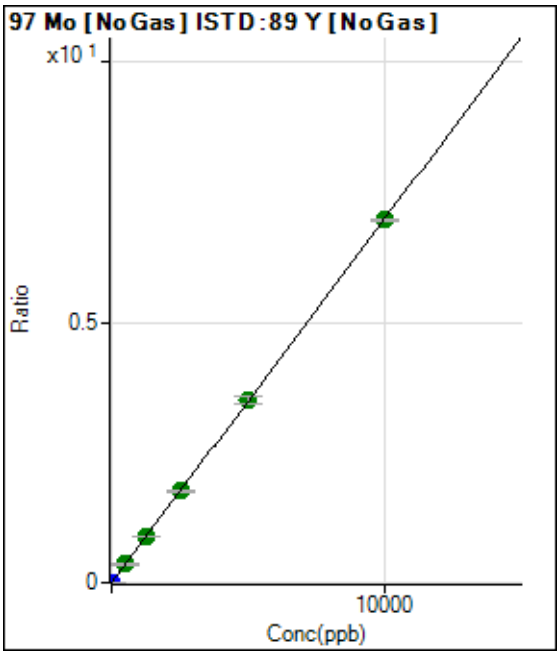



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 748.92 | 0.0000 | P | 4.2 |
| 2 | ☐ | 5.000 | 5.389 | 114845.60 | 0.0068 | P | 1.8 |
| 3 | ☐ | 500.000 | 502.189 | 10672128.38 | 0.6265 | A | 2.0 |
| 4 | ☐ | 1250.000 | 1262.693 | 26476572.94 | 1.5752 | A | 0.9 |
| 5 | ☐ | 2500.000 | 2477.099 | 51685733.12 | 3.0902 | A | 0.3 |
| 6 | ☐ | 5000.000 | 5006.254 | 101686290.71 | 6.2453 | A | 4.7 |
| 7 | ☐ | 10000.000 | 10000.902 | 203393708.08 | 12.4761 | A | 0.9 |
| 8 | ☐ | | | 38005.38 | 0.0026 | P | 2.5 |

y = 0.0012 * x + 4.2981E-005
R = 1.0000
DL = 0.004389
BEC = 0.03445

Weight: <None>
Min Conc: 0

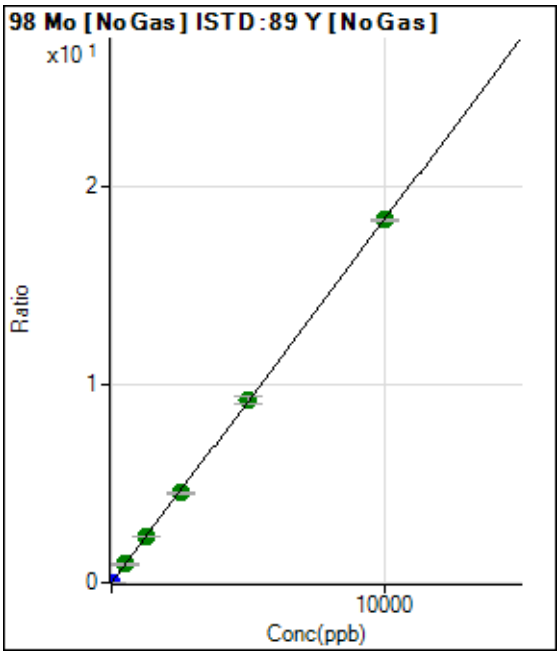
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 452.24 | 0.0000 | P | 6.7 |
| 2 | ☐ | 5.000 | 5.400 | 64490.98 | 0.0038 | P | 2.0 |
| 3 | ☐ | 500.000 | 505.081 | 6012525.75 | 0.3530 | A | 1.3 |
| 4 | ☐ | 1250.000 | 1273.853 | 14961687.83 | 0.8902 | A | 0.9 |
| 5 | ☐ | 2500.000 | 2512.642 | 29366305.67 | 1.7558 | A | 1.3 |
| 6 | ☐ | 5000.000 | 5029.557 | 57234526.93 | 3.5145 | A | 4.0 |
| 7 | ☐ | 10000.000 | 9978.825 | 113688541.64 | 6.9730 | A | 0.5 |
| 8 | ☐ | | | 12983.96 | 0.0009 | P | 5.7 |

y = 6.9877E-004 * x + 2.5971E-005
R = 1.0000
DL = 0.007454
BEC = 0.03717

Weight: <None>
Min Conc: 0

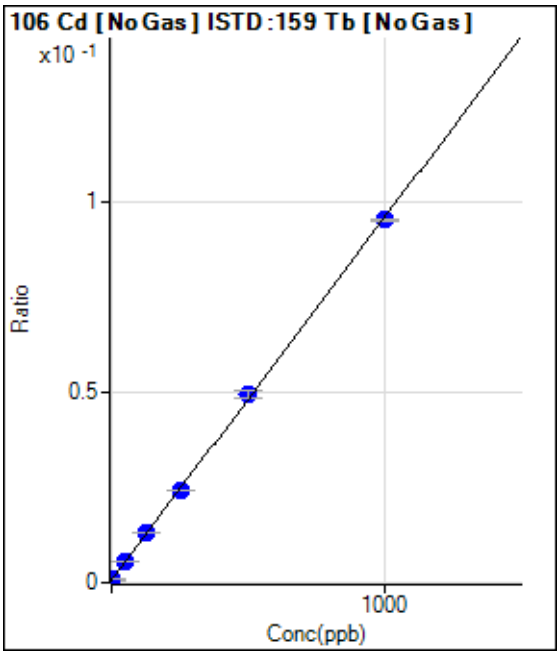



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 954.49 | 0.0001 | P | 6.4 |
| 2 | ☐ | 5.000 | 5.340 | 167182.07 | 0.0098 | P | 1.6 |
| 3 | ☐ | 500.000 | 503.216 | 15721847.13 | 0.9229 | A | 1.2 |
| 4 | ☐ | 1250.000 | 1261.702 | 38893233.87 | 2.3140 | A | 0.5 |
| 5 | ☐ | 2500.000 | 2479.447 | 76055373.31 | 4.5473 | A | 1.5 |
| 6 | ☐ | 5000.000 | 5025.292 | 150049172.21 | 9.2163 | A | 4.9 |
| 7 | ☐ | 10000.000 | 9990.868 | 298721197.77 | 18.3229 | A | 0.6 |
| 8 | ☐ | | | 32606.14 | 0.0022 | P | 4.3 |

y = 0.0018 * x + 5.4797E-005
R = 1.0000
DL = 0.005723
BEC = 0.02988

Weight: <None>
Min Conc: 0

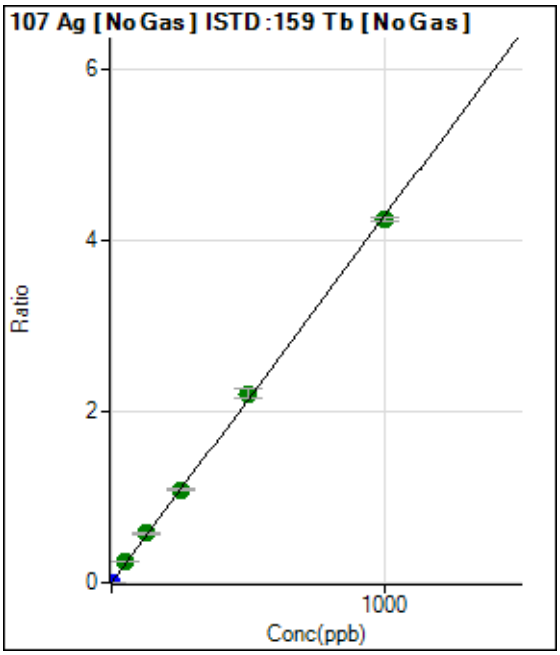
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7552.14 | 0.0007 | P | 2.2 |
| 2 | ☐ | 1.000 | 0.998 | 8451.56 | 0.0008 | P | 1.8 |
| 3 | ☐ | 50.000 | 53.676 | 64333.34 | 0.0058 | P | 0.7 |
| 4 | ☐ | 125.000 | 130.876 | 143862.87 | 0.0132 | P | 1.3 |
| 5 | ☐ | 250.000 | 249.145 | 271188.03 | 0.0244 | P | 0.5 |
| 6 | ☐ | 500.000 | 510.730 | 523172.63 | 0.0494 | P | 4.0 |
| 7 | ☐ | 1000.000 | 993.930 | 1017944.63 | 0.0955 | P | 0.6 |
| 8 | ☐ | | | 6329.28 | 0.0007 | P | 2.1 |

y = 9.5396E-005 * x + 6.7277E-004
R = 0.9999
DL = 0.4589
BEC = 7.052

Weight: <None>
Min Conc: 0

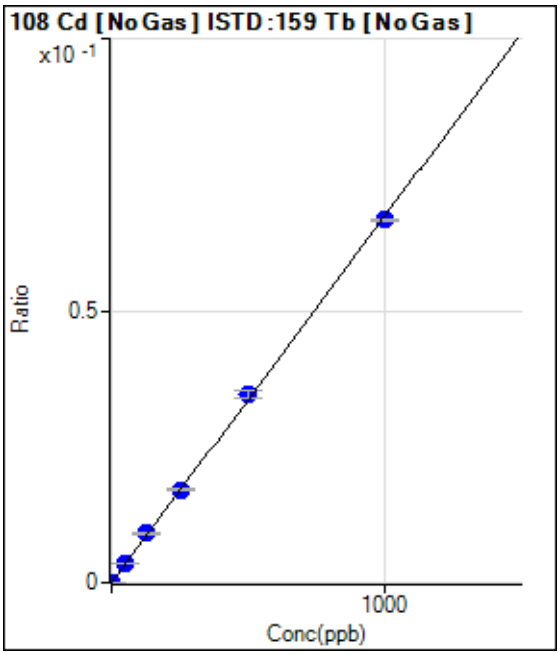



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 146.67 | 0.0000 | P | 14.2 |
| 2 | ☐ | 1.000 | 1.103 | 52212.79 | 0.0047 | P | 2.4 |
| 3 | ☐ | 50.000 | 55.361 | 2636723.74 | 0.2374 | A | 0.9 |
| 4 | ☐ | 125.000 | 134.328 | 6298920.39 | 0.5761 | A | 1.6 |
| 5 | ☐ | 250.000 | 252.692 | 12024485.24 | 1.0837 | A | 1.6 |
| 6 | ☐ | 500.000 | 516.559 | 23463527.71 | 2.2154 | A | 4.2 |
| 7 | ☐ | 1000.000 | 989.613 | 45244392.10 | 4.2442 | A | 1.0 |
| 8 | ☐ | | | 3922.83 | 0.0004 | P | 10.6 |

y = 0.0043 * x + 1.3032E-005
R = 0.9998
DL = 0.001299
BEC = 0.003039

Weight: <None>
Min Conc: 0

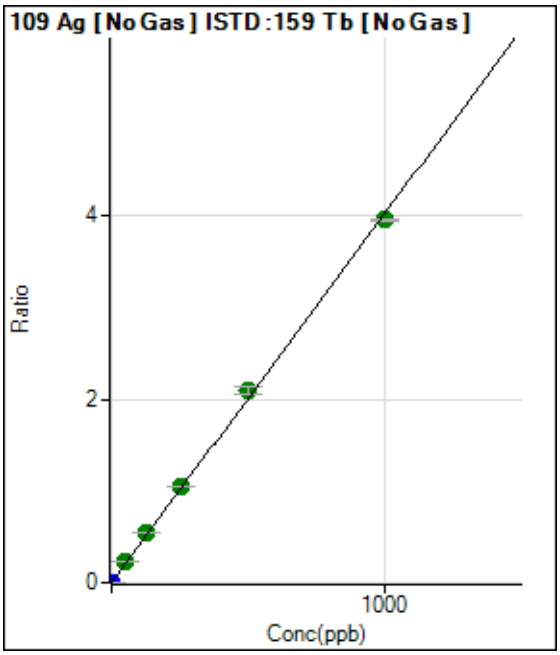
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 22.22 | 0.0000 | P | 69.4 |
| 2 | ☐ | 1.000 | 1.137 | 863.37 | 0.0001 | P | 12.8 |
| 3 | ☐ | 50.000 | 53.877 | 40276.40 | 0.0036 | P | 0.5 |
| 4 | ☐ | 125.000 | 134.003 | 98604.91 | 0.0090 | P | 0.3 |
| 5 | ☐ | 250.000 | 252.950 | 188852.68 | 0.0170 | P | 1.9 |
| 6 | ☐ | 500.000 | 514.138 | 366390.35 | 0.0346 | P | 4.3 |
| 7 | ☐ | 1000.000 | 990.874 | 710716.59 | 0.0667 | P | 0.5 |
| 8 | ☐ | | | 256.67 | 0.0000 | P | 17.7 |

y = 6.7282E-005 * x + 2.0117E-006
R = 0.9998
DL = 0.06223
BEC = 0.0299

Weight: <None>
Min Conc: 0

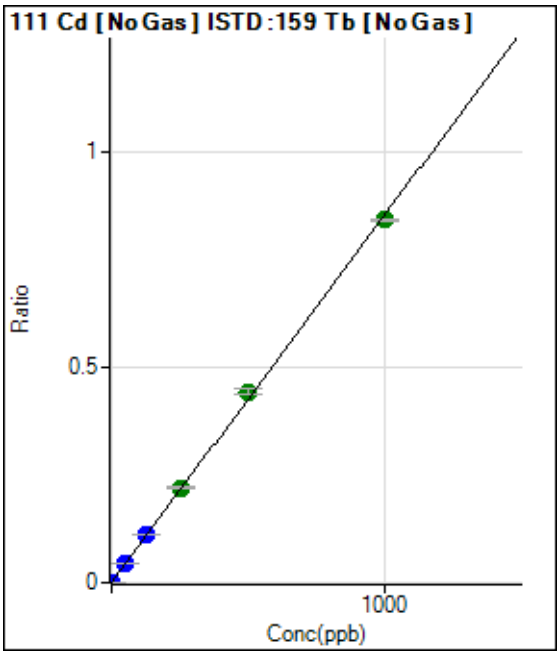



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 94.44 | 0.0000 | P | 9.2 |
| 2 | ☐ | 1.000 | 1.117 | 49494.08 | 0.0045 | P | 1.9 |
| 3 | ☐ | 50.000 | 55.369 | 2471611.55 | 0.2226 | A | 0.5 |
| 4 | ☐ | 125.000 | 136.115 | 5982421.65 | 0.5471 | A | 0.5 |
| 5 | ☐ | 250.000 | 260.626 | 11624112.88 | 1.0476 | A | 0.9 |
| 6 | ☐ | 500.000 | 523.544 | 22290711.89 | 2.1045 | A | 3.9 |
| 7 | ☐ | 1000.000 | 983.913 | 42160032.70 | 3.9550 | A | 0.5 |
| 8 | ☐ | | | 3741.67 | 0.0004 | P | 9.1 |

y = 0.0040 * x + 8.4116E-006
R = 0.9995
DL = 0.0005795
BEC = 0.002093

Weight: <None>
Min Conc: 0

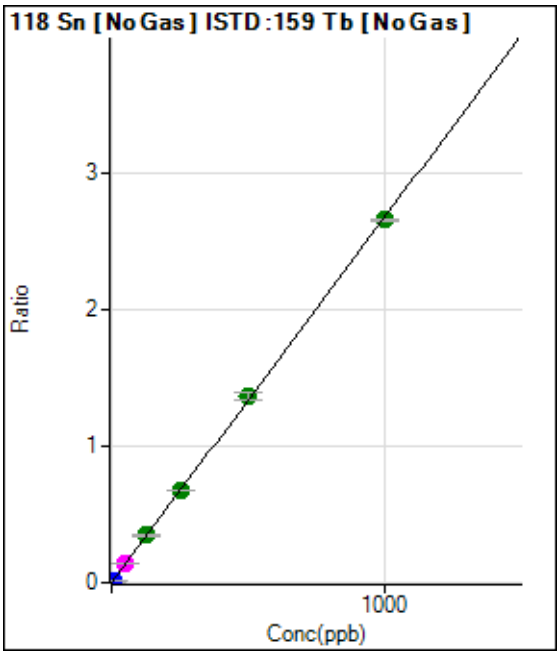
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5302.05 | 0.0005 | P | 2.0 |
| 2 | ☐ | 1.000 | 1.163 | 16114.94 | 0.0015 | P | 2.0 |
| 3 | ☐ | 50.000 | 52.682 | 504189.23 | 0.0454 | P | 0.1 |
| 4 | ☐ | 125.000 | 129.745 | 1215105.71 | 0.1111 | P | 0.0 |
| 5 | ☐ | 250.000 | 257.101 | 2438198.20 | 0.2197 | A | 1.6 |
| 6 | ☐ | 500.000 | 519.903 | 4701850.62 | 0.4439 | A | 3.8 |
| 7 | ☐ | 1000.000 | 987.546 | 8983392.14 | 0.8427 | A | 0.6 |
| 8 | ☐ | | | 5466.45 | 0.0006 | P | 1.1 |

y = 8.5287E-004 * x + 4.7233E-004
R = 0.9997
DL = 0.03338
BEC = 0.5538

Weight: <None>
Min Conc: 0

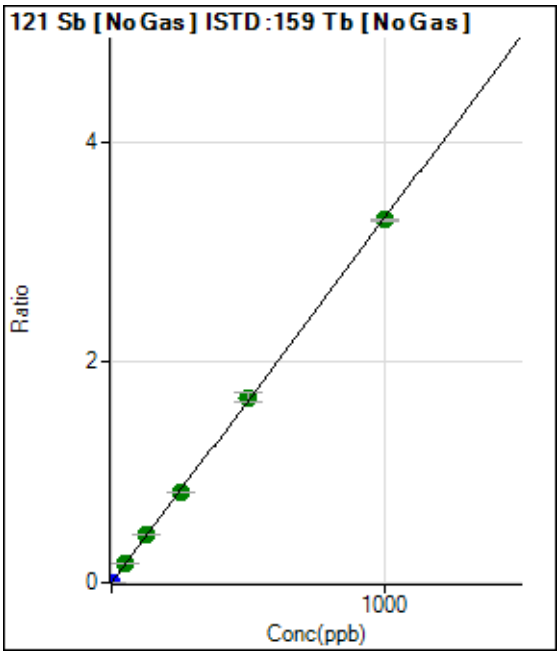



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5996.83 | 0.0005 | P | 34.1 |
| 2 | ☐ | 5.000 | 5.574 | 169918.04 | 0.0154 | P | 2.0 |
| 3 | ☐ | 50.000 | 51.724 | 1541787.36 | 0.1388 | M | 2.3 |
| 4 | ☐ | 125.000 | 129.115 | 3780828.69 | 0.3458 | A | 0.7 |
| 5 | ☐ | 250.000 | 251.332 | 7463231.83 | 0.6726 | A | 1.1 |
| 6 | ☐ | 500.000 | 511.416 | 14489227.84 | 1.3680 | A | 4.0 |
| 7 | ☐ | 1000.000 | 993.356 | 28319990.69 | 2.6566 | A | 0.2 |
| 8 | ☐ | | | 10152.81 | 0.0011 | P | 3.3 |

y = 0.0027 * x + 5.3563E-004
R = 0.9999
DL = 0.2047
BEC = 0.2003

Weight: <None>
Min Conc: 0

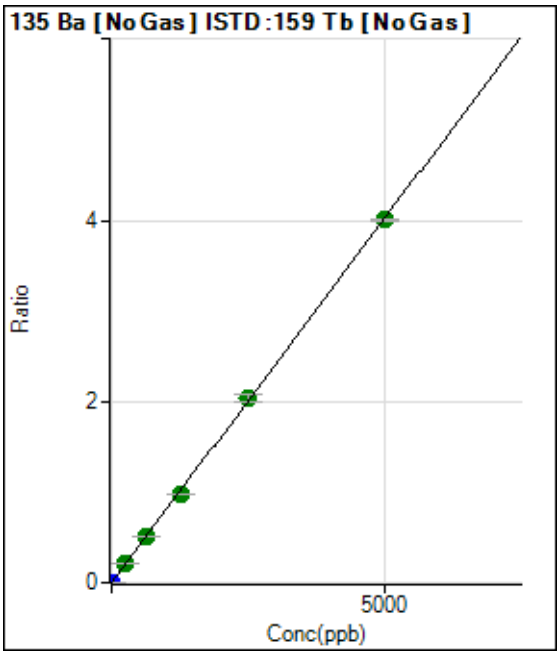
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 98.89 | 0.0000 | P | 32.3 |
| 2 | ☐ | 2.000 | 2.201 | 80204.42 | 0.0073 | P | 1.8 |
| 3 | ☐ | 50.000 | 52.966 | 1945365.09 | 0.1752 | A | 0.5 |
| 4 | ☐ | 125.000 | 129.812 | 4694488.12 | 0.4293 | A | 0.3 |
| 5 | ☐ | 250.000 | 246.793 | 9056980.01 | 0.8162 | A | 0.9 |
| 6 | ☐ | 500.000 | 508.986 | 17828000.70 | 1.6834 | A | 4.4 |
| 7 | ☐ | 1000.000 | 995.559 | 35100147.53 | 3.2926 | A | 0.4 |
| 8 | ☐ | | | 14568.97 | 0.0015 | P | 3.4 |

y = 0.0033 * x + 8.8154E-006
R = 0.9999
DL = 0.00258
BEC = 0.002665

Weight: <None>
Min Conc: 0

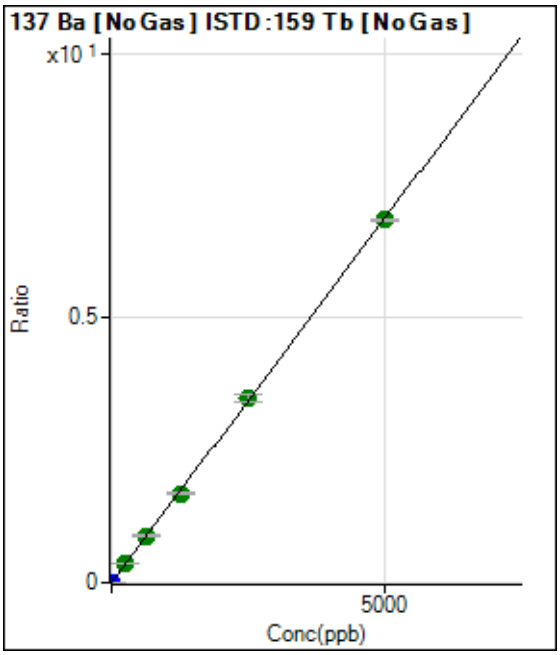



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 163.34 | 0.0000 | P | 13.1 |
| 2 | ☐ | 10.000 | 10.803 | 95718.48 | 0.0087 | P | 0.7 |
| 3 | ☐ | 250.000 | 260.947 | 2328904.63 | 0.2097 | A | 0.9 |
| 4 | ☐ | 625.000 | 641.698 | 5638979.36 | 0.5157 | A | 1.4 |
| 5 | ☐ | 1250.000 | 1220.840 | 10886746.09 | 0.9812 | A | 0.8 |
| 6 | ☐ | 2500.000 | 2543.971 | 21652976.07 | 2.0445 | A | 4.3 |
| 7 | ☐ | 5000.000 | 4982.668 | 42687785.20 | 4.0044 | A | 0.3 |
| 8 | ☐ | | | 14765.93 | 0.0015 | P | 0.3 |

y = 8.0366E-004 * x + 1.4517E-005
R = 0.9999
DL = 0.007092
BEC = 0.01806

Weight: <None>
Min Conc: 0

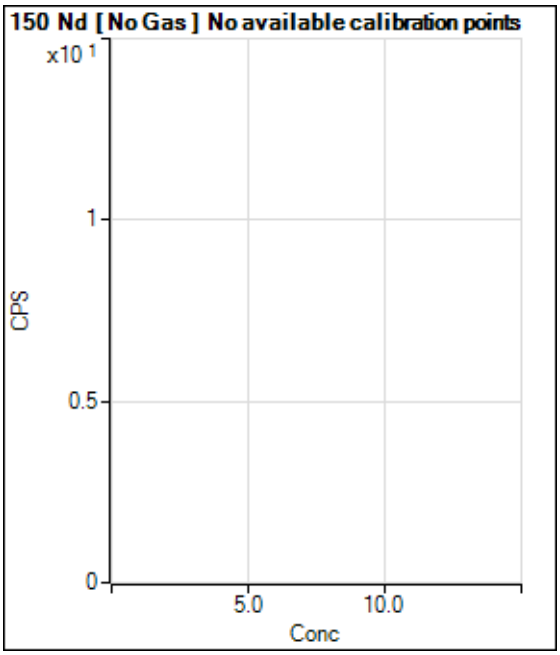
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 374.45 | 0.0000 | P | 10.9 |
| 2 | ☐ | 10.000 | 10.854 | 164556.04 | 0.0150 | P | 1.3 |
| 3 | ☐ | 250.000 | 259.615 | 3962921.02 | 0.3569 | A | 1.4 |
| 4 | ☐ | 625.000 | 642.072 | 9649844.51 | 0.8826 | A | 1.6 |
| 5 | ☐ | 1250.000 | 1225.254 | 18687084.58 | 1.6842 | A | 0.9 |
| 6 | ☐ | 2500.000 | 2541.325 | 36997499.17 | 3.4931 | A | 4.1 |
| 7 | ☐ | 5000.000 | 4982.907 | 73012890.58 | 6.8491 | A | 0.2 |
| 8 | ☐ | | | 25632.12 | 0.0027 | P | 2.4 |

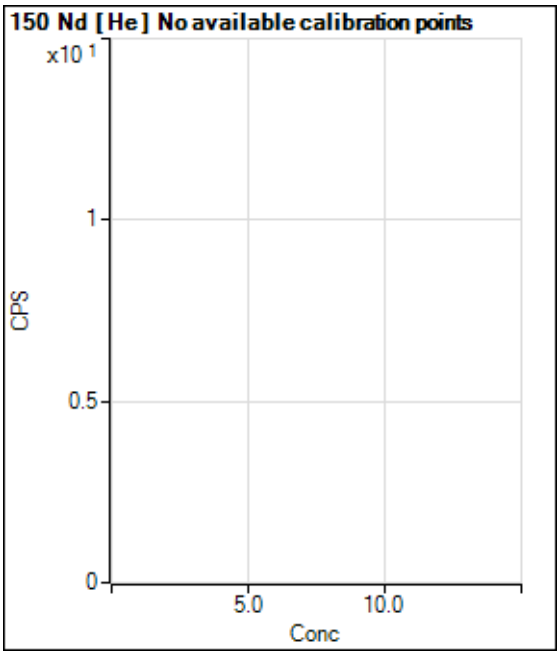
y = 0.0014 * x + 3.3417E-005
R = 0.9999
DL = 0.007965
BEC = 0.02431

Weight: <None>
Min Conc: 0

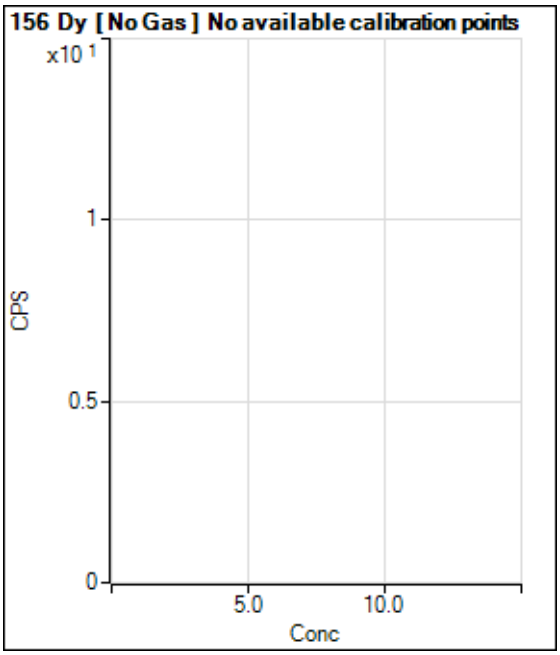



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 8.89 | | P | 21.6 |
| 2 | ☐ | | | 26.67 | | P | 25.0 |
| 3 | ☐ | | | 198.89 | | P | 7.7 |
| 4 | ☐ | | | 395.57 | | P | 9.0 |
| 5 | ☐ | | | 751.14 | | P | 7.0 |
| 6 | ☐ | | | 1502.32 | | P | 3.2 |
| 7 | ☐ | | | 3022.60 | | P | 3.6 |
| 8 | ☐ | | | 578.91 | | P | 7.4 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

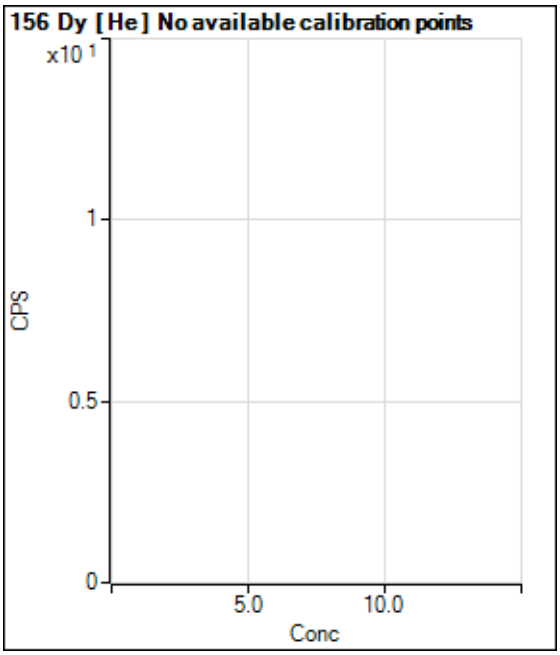



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4.44 | | P | 43.4 |
| 2 | ☐ | | | 5.56 | | P | 91.6 |
| 3 | ☐ | | | 12.22 | | P | 68.7 |
| 4 | ☐ | | | 33.33 | | P | 36.1 |
| 5 | ☐ | | | 41.11 | | P | 40.8 |
| 6 | ☐ | | | 98.89 | | P | 9.7 |
| 7 | ☐ | | | 171.11 | | P | 10.7 |
| 8 | ☐ | | | 175.56 | | P | 17.6 |

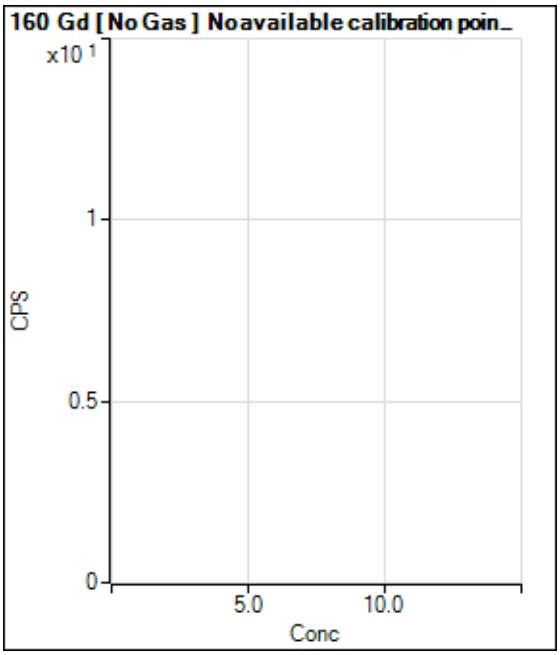



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 21.11 | | P | 36.5 |
| 2 | ☐ | | | 15.56 | | P | 12.4 |
| 3 | ☐ | | | 62.22 | | P | 21.7 |
| 4 | ☐ | | | 132.22 | | P | 2.9 |
| 5 | ☐ | | | 232.23 | | P | 5.0 |
| 6 | ☐ | | | 421.12 | | P | 17.6 |
| 7 | ☐ | | | 900.04 | | P | 8.3 |
| 8 | ☐ | | | 1070.06 | | P | 5.1 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

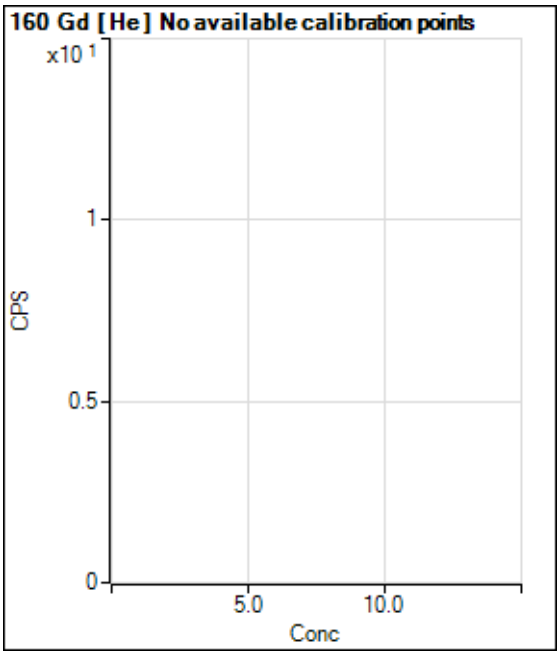



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 2.22 | | P | 86.6 |
| 2 | ☐ | | | 5.55 | | P | 69.3 |
| 3 | ☐ | | | 11.11 | | P | 34.6 |
| 4 | ☐ | | | 23.33 | | P | 37.8 |
| 5 | ☐ | | | 54.45 | | P | 12.7 |
| 6 | ☐ | | | 78.89 | | P | 12.9 |
| 7 | ☐ | | | 165.56 | | P | 13.7 |
| 8 | ☐ | | | 354.45 | | P | 13.6 |

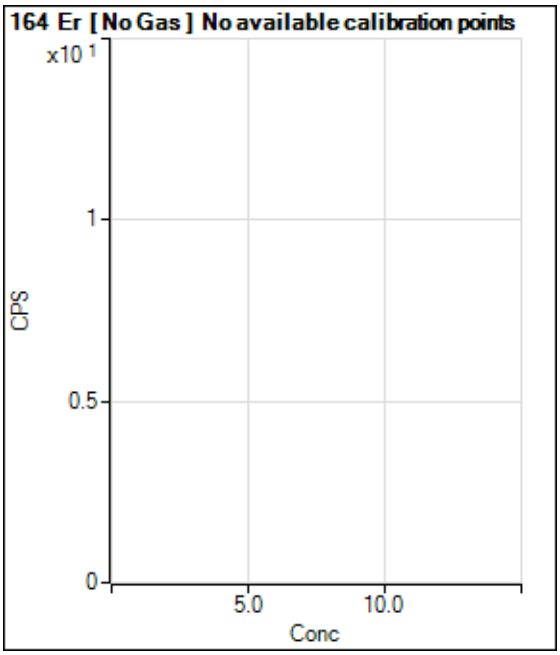



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 133.34 | | P | 22.2 |
| 2 | ☐ | | | 145.56 | | P | 10.8 |
| 3 | ☐ | | | 155.56 | | P | 14.6 |
| 4 | ☐ | | | 213.34 | | P | 3.1 |
| 5 | ☐ | | | 242.23 | | P | 6.8 |
| 6 | ☐ | | | 320.01 | | P | 18.1 |
| 7 | ☐ | | | 483.35 | | P | 12.0 |
| 8 | ☐ | | | 977.83 | | P | 7.4 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 41.11 | | P | 12.4 |
| 2 | ☐ | | | 32.22 | | P | 46.6 |
| 3 | ☐ | | | 33.33 | | P | 0.0 |
| 4 | ☐ | | | 43.33 | | P | 20.3 |
| 5 | ☐ | | | 60.00 | | P | 9.6 |
| 6 | ☐ | | | 98.89 | | P | 1.9 |
| 7 | ☐ | | | 193.34 | | P | 13.7 |
| 8 | ☐ | | | 425.56 | | P | 7.1 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 72.22 | | P | 13.3 |
| 2 | ☐ | | | 67.78 | | P | 32.8 |
| 3 | ☐ | | | 106.67 | | P | 20.5 |
| 4 | ☐ | | | 147.78 | | P | 26.0 |
| 5 | ☐ | | | 230.00 | | P | 17.6 |
| 6 | ☐ | | | 327.78 | | P | 11.4 |
| 7 | ☐ | | | 574.47 | | P | 13.5 |
| 8 | ☐ | | | 1235.63 | | P | 9.1 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
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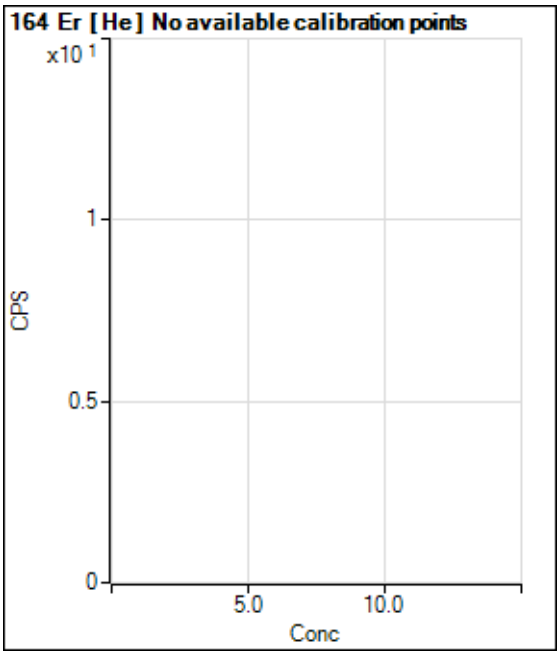
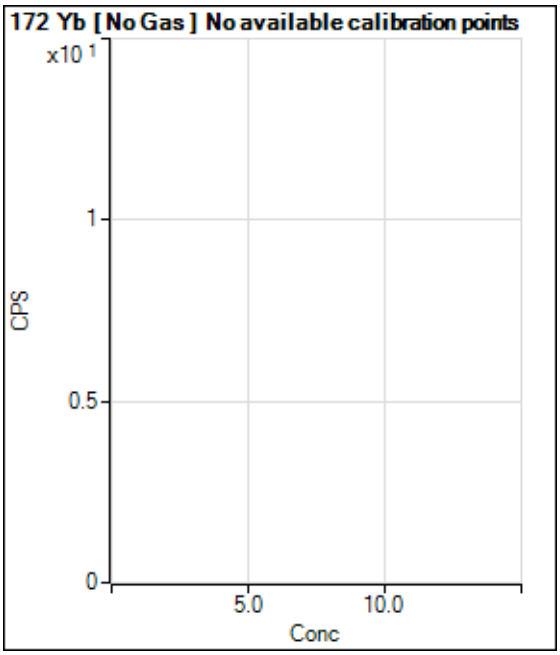



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 37.78 | | P | 22.2 |
| 2 | ☐ | | | 15.56 | | P | 32.7 |
| 3 | ☐ | | | 27.78 | | P | 30.2 |
| 4 | ☐ | | | 37.78 | | P | 48.6 |
| 5 | ☐ | | | 77.78 | | P | 15.0 |
| 6 | ☐ | | | 116.67 | | P | 15.9 |
| 7 | ☐ | | | 207.78 | | P | 7.2 |
| 8 | ☐ | | | 480.01 | | P | 16.0 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 47.78 | | P | 14.5 |
| 2 | ☐ | | | 51.11 | | P | 3.8 |
| 3 | ☐ | | | 98.89 | | P | 5.1 |
| 4 | ☐ | | | 142.23 | | P | 8.9 |
| 5 | ☐ | | | 191.11 | | P | 9.9 |
| 6 | ☐ | | | 332.23 | | P | 15.0 |
| 7 | ☐ | | | 706.69 | | P | 13.5 |
| 8 | ☐ | | | 1993.51 | | P | 3.2 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
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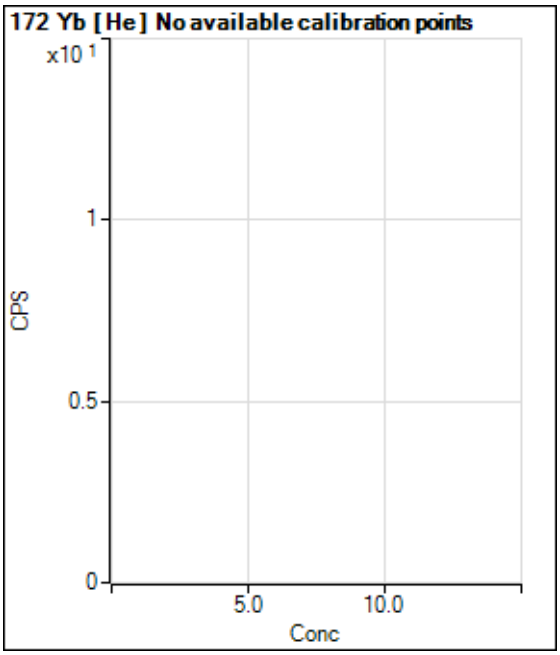
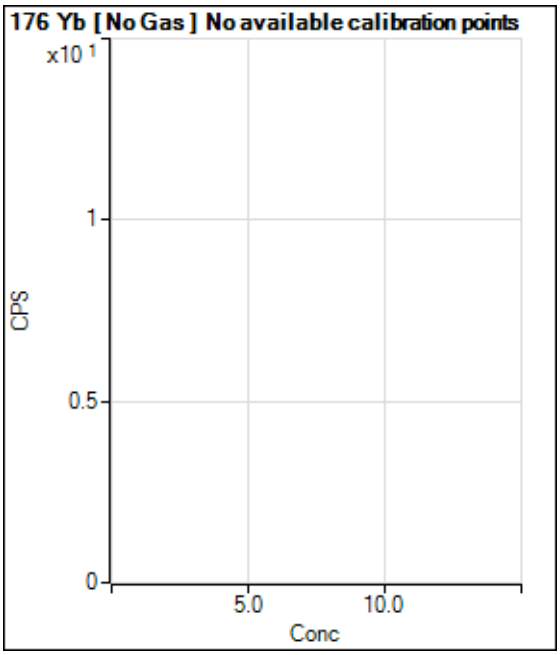
LB :LB135332

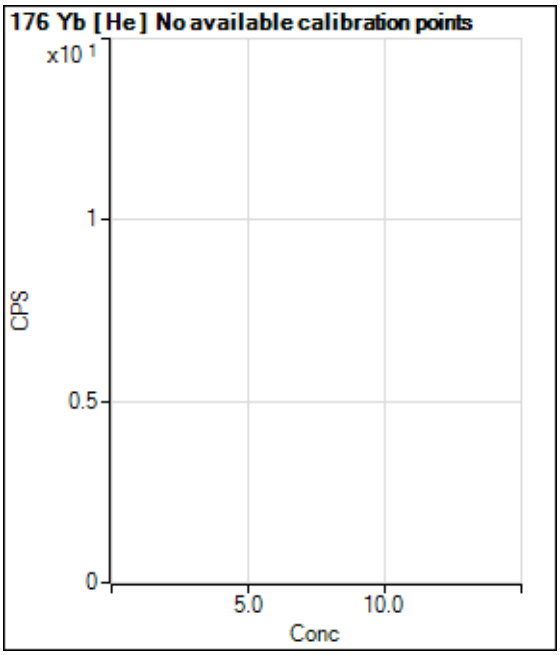



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 26.67 | | P | 12.5 |
| 2 | ☐ | | | 25.56 | | P | 45.8 |
| 3 | ☐ | | | 46.66 | | P | 24.7 |
| 4 | ☐ | | | 75.55 | | P | 17.8 |
| 5 | ☐ | | | 115.56 | | P | 15.9 |
| 6 | ☐ | | | 180.00 | | P | 1.9 |
| 7 | ☐ | | | 306.67 | | P | 4.3 |
| 8 | ☐ | | | 860.04 | | P | 7.4 |

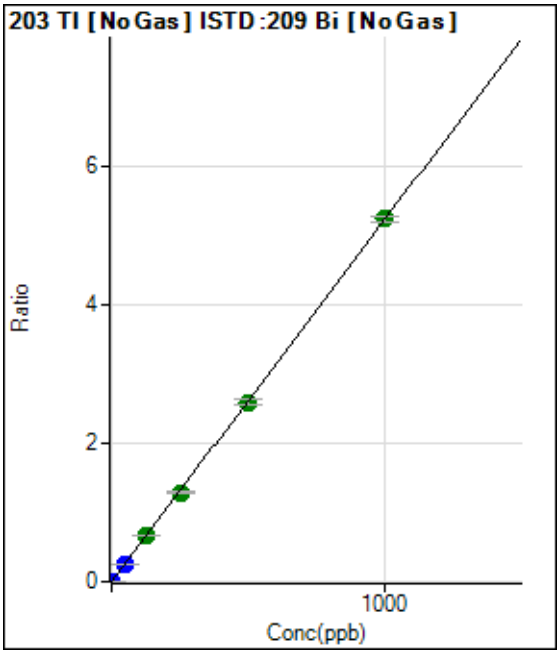



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 1777.91 | | P | 5.4 |
| 2 | ☐ | | | 1992.39 | | P | 1.3 |
| 3 | ☐ | | | 9365.60 | | P | 1.2 |
| 4 | ☐ | | | 20376.89 | | P | 1.0 |
| 5 | ☐ | | | 37994.57 | | P | 1.4 |
| 6 | ☐ | | | 73267.13 | | P | 0.8 |
| 7 | ☐ | | | 144181.30 | | P | 0.6 |
| 8 | ☐ | | | 2714.75 | | P | 1.9 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 513.35 | | P | 6.2 |
| 2 | ☐ | | | 481.13 | | P | 9.4 |
| 3 | ☐ | | | 3506.06 | | P | 2.4 |
| 4 | ☐ | | | 7822.40 | | P | 1.3 |
| 5 | ☐ | | | 15135.40 | | P | 1.2 |
| 6 | ☐ | | | 28726.80 | | P | 1.7 |
| 7 | ☐ | | | 57470.97 | | P | 0.7 |
| 8 | ☐ | | | 978.94 | | P | 7.1 |

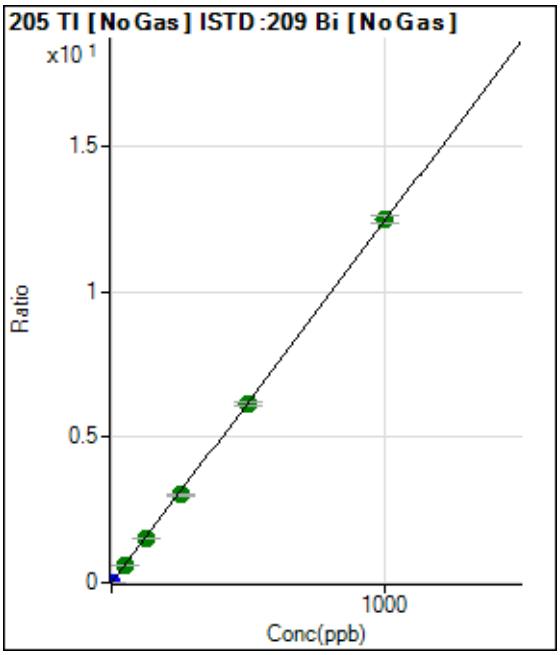



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 214.45 | 0.0000 | P | 9.1 |
| 2 | ☐ | 1.000 | 0.991 | 32749.03 | 0.0052 | P | 1.2 |
| 3 | ☐ | 50.000 | 48.833 | 1570800.70 | 0.2556 | P | 0.2 |
| 4 | ☐ | 125.000 | 125.508 | 4030038.41 | 0.6569 | A | 0.4 |
| 5 | ☐ | 250.000 | 244.834 | 7728473.63 | 1.2814 | A | 2.3 |
| 6 | ☐ | 500.000 | 496.232 | 14885971.72 | 2.5972 | A | 2.6 |
| 7 | ☐ | 1000.000 | 1003.170 | 29265762.62 | 5.2504 | A | 1.6 |
| 8 | ☐ | | | 1849.05 | 0.0004 | P | 11.0 |

y = 0.0052 * x + 3.3664E-005
R = 1.0000
DL = 0.001755
BEC = 0.006432

Weight: <None>
Min Conc: 0

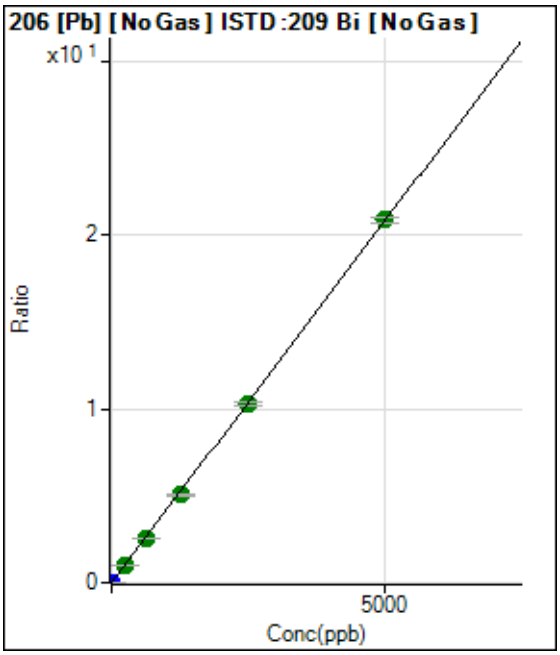
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 520.01 | 0.0001 | P | 6.6 |
| 2 | ☐ | 1.000 | 1.008 | 79026.64 | 0.0126 | P | 0.9 |
| 3 | ☐ | 50.000 | 50.047 | 3816404.11 | 0.6210 | A | 0.6 |
| 4 | ☐ | 125.000 | 121.481 | 9247318.26 | 1.5073 | A | 0.2 |
| 5 | ☐ | 250.000 | 242.761 | 18166838.48 | 3.0121 | A | 2.0 |
| 6 | ☐ | 500.000 | 496.060 | 35277953.92 | 6.1548 | A | 2.5 |
| 7 | ☐ | 1000.000 | 1004.217 | 69448584.52 | 12.4597 | A | 2.0 |
| 8 | ☐ | | | 4365.23 | 0.0009 | P | 9.7 |

y = 0.0124 * x + 8.1733E-005
R = 1.0000
DL = 0.001308
BEC = 0.006588

Weight: <None>
Min Conc: 0

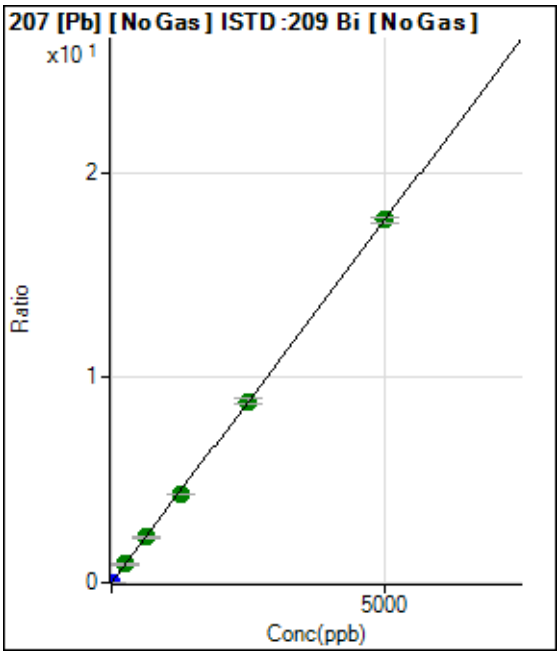



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1390.09 | 0.0002 | P | 8.2 |
| 2 | ☐ | 1.000 | 1.006 | 27632.88 | 0.0044 | P | 1.6 |
| 3 | ☐ | 250.000 | 251.805 | 6436654.56 | 1.0474 | A | 0.7 |
| 4 | ☐ | 625.000 | 618.348 | 15777118.38 | 2.5718 | A | 0.8 |
| 5 | ☐ | 1250.000 | 1217.031 | 30526853.16 | 5.0616 | A | 2.1 |
| 6 | ☐ | 2500.000 | 2476.082 | 59023219.68 | 10.2976 | A | 2.5 |
| 7 | ☐ | 5000.000 | 5020.942 | 116393852.71 | 20.8811 | A | 1.6 |
| 8 | ☐ | | | 76453.66 | 0.0163 | P | 2.1 |

y = 0.0042 * x + 2.1830E-004
R = 1.0000
DL = 0.01285
BEC = 0.05249

Weight: <None>
Min Conc: 0

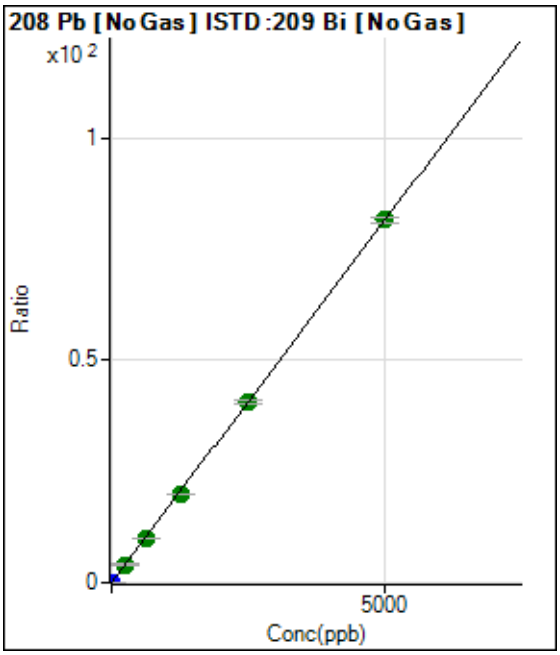
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1178.96 | 0.0002 | P | 6.6 |
| 2 | ☐ | 1.000 | 1.034 | 24112.49 | 0.0038 | P | 1.7 |
| 3 | ☐ | 250.000 | 254.271 | 5524456.86 | 0.8990 | A | 2.3 |
| 4 | ☐ | 625.000 | 623.890 | 13530017.30 | 2.2055 | A | 0.8 |
| 5 | ☐ | 1250.000 | 1219.025 | 25991011.00 | 4.3091 | A | 0.4 |
| 6 | ☐ | 2500.000 | 2499.551 | 50635655.91 | 8.8354 | A | 3.1 |
| 7 | ☐ | 5000.000 | 5007.893 | 98674451.86 | 17.7016 | A | 1.3 |
| 8 | ☐ | | | 64468.16 | 0.0138 | P | 2.3 |

y = 0.0035 * x + 1.8559E-004
R = 1.0000
DL = 0.01034
BEC = 0.0525

Weight: <None>
Min Conc: 0

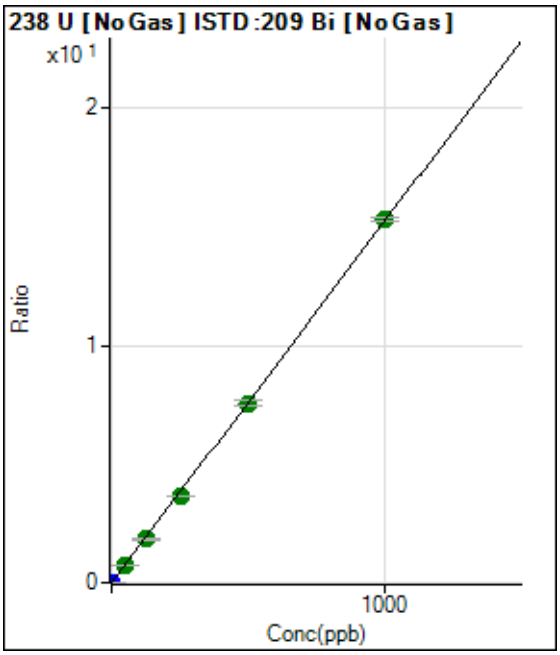



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5486.08 | 0.0009 | P | 4.2 |
| 2 | ☐ | 1.000 | 1.024 | 110109.53 | 0.0175 | P | 1.4 |
| 3 | ☐ | 250.000 | 251.842 | 25216424.69 | 4.1033 | A | 1.2 |
| 4 | ☐ | 625.000 | 618.696 | 61835349.08 | 10.0794 | A | 0.6 |
| 5 | ☐ | 1250.000 | 1220.195 | 119893312.10 | 19.8777 | A | 0.7 |
| 6 | ☐ | 2500.000 | 2495.582 | 233001839.31 | 40.6536 | A | 2.8 |
| 7 | ☐ | 5000.000 | 5010.356 | 454955947.67 | 81.6190 | A | 1.7 |
| 8 | ☐ | | | 298209.18 | 0.0637 | P | 1.4 |

y = 0.0163 * x + 8.6215E-004
R = 1.0000
DL = 0.006721
BEC = 0.05293

Weight: <None>
Min Conc: 0

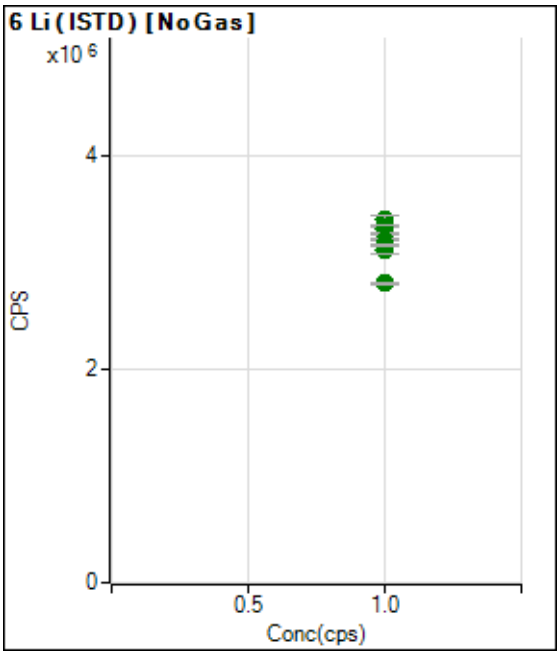
Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 302.23 | 0.0000 | P | 15.5 |
| 2 | ☐ | 1.000 | 1.024 | 98116.99 | 0.0156 | P | 0.9 |
| 3 | ☐ | 50.000 | 49.154 | 4599750.28 | 0.7485 | A | 0.7 |
| 4 | ☐ | 125.000 | 120.100 | 11218821.22 | 1.8288 | A | 1.1 |
| 5 | ☐ | 250.000 | 239.121 | 21961643.42 | 3.6411 | A | 1.5 |
| 6 | ☐ | 500.000 | 497.361 | 43405030.74 | 7.5732 | A | 2.8 |
| 7 | ☐ | 1000.000 | 1004.694 | 85274897.07 | 15.2981 | A | 1.2 |
| 8 | ☐ | | | 3140.43 | 0.0007 | P | 14.4 |

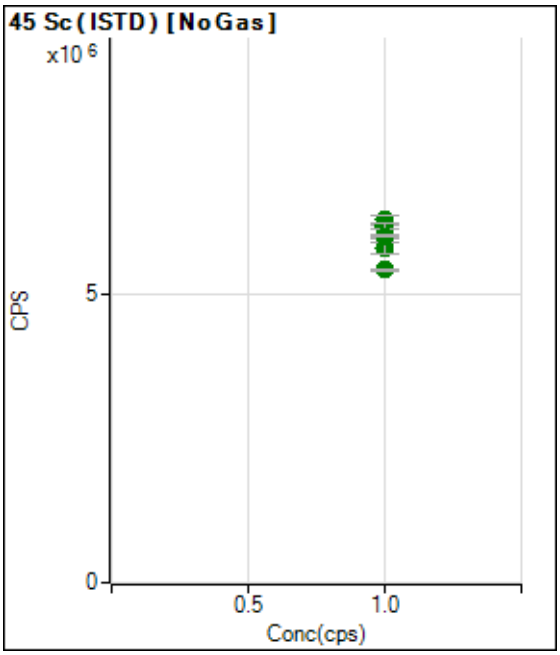
y = 0.0152 * x + 4.7696E-005
R = 0.9999
DL = 0.001454
BEC = 0.003132

Weight: <None>
Min Conc: 0

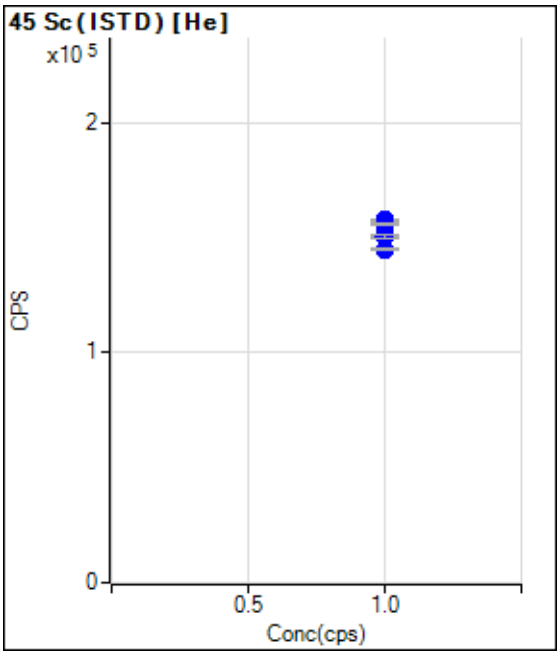



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3394726.21 | | A | 2.8 |
| 2 | ☐ | 1.000 | | 3332657.59 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 3308956.23 | | A | 2.3 |
| 4 | ☐ | 1.000 | | 3259929.47 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 3208548.21 | | A | 0.4 |
| 6 | ☐ | 1.000 | | 3116744.19 | | A | 2.2 |
| 7 | ☐ | 1.000 | | 3161764.52 | | A | 0.8 |
| 8 | ☐ | 1.000 | | 2804902.15 | | A | 0.6 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 6287999.56 | | A | 2.9 |
| 2 | ☐ | 1.000 | | 6172409.56 | | A | 1.2 |
| 3 | ☐ | 1.000 | | 6187394.07 | | A | 1.7 |
| 4 | ☐ | 1.000 | | 5998809.70 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 6011871.16 | | A | 0.8 |
| 6 | ☐ | 1.000 | | 5801926.03 | | A | 3.9 |
| 7 | ☐ | 1.000 | | 6015221.02 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 5418394.78 | | A | 0.5 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 157590.87 | | P | 0.7 |
| 2 | ☐ | 1.000 | | 155920.59 | | P | 0.8 |
| 3 | ☐ | 1.000 | | 150824.78 | | P | 0.5 |
| 4 | ☐ | 1.000 | | 150245.34 | | P | 0.9 |
| 5 | ☐ | 1.000 | | 150594.78 | | P | 0.5 |
| 6 | ☐ | 1.000 | | 150130.02 | | P | 1.4 |
| 7 | ☐ | 1.000 | | 155754.55 | | P | 0.4 |
| 8 | ☐ | 1.000 | | 144858.10 | | P | 0.5 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
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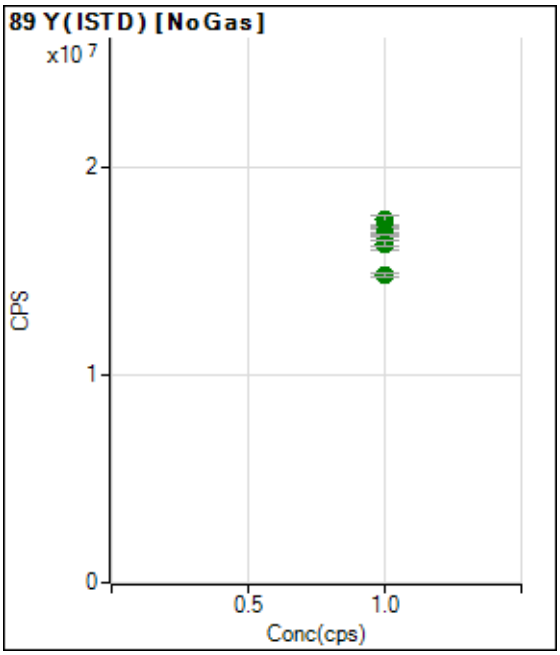
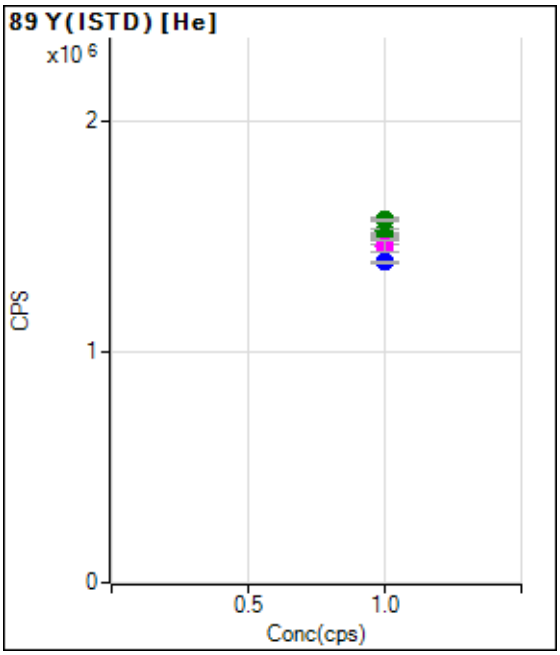
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 17436594.74 | | A | 3.0 |
| 2 | ☐ | 1.000 | | 16978205.44 | | A | 1.5 |
| 3 | ☐ | 1.000 | | 17035770.02 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 16808242.11 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 16725721.70 | | A | 0.5 |
| 6 | ☐ | 1.000 | | 16303505.04 | | A | 4.3 |
| 7 | ☐ | 1.000 | | 16304003.92 | | A | 1.5 |
| 8 | ☐ | 1.000 | | 14788992.28 | | A | 0.9 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1571215.48 | | A | 0.9 |
| 2 | ☐ | 1.000 | | 1570761.66 | | A | 0.6 |
| 3 | ☐ | 1.000 | | 1522291.49 | | A | 1.2 |
| 4 | ☐ | 1.000 | | 1483707.06 | | M | 2.1 |
| 5 | ☐ | 1.000 | | 1500195.88 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 1488627.34 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 1455520.83 | | M | 3.2 |
| 8 | ☐ | 1.000 | | 1386829.20 | | P | 0.7 |

Reviewed By:mohan
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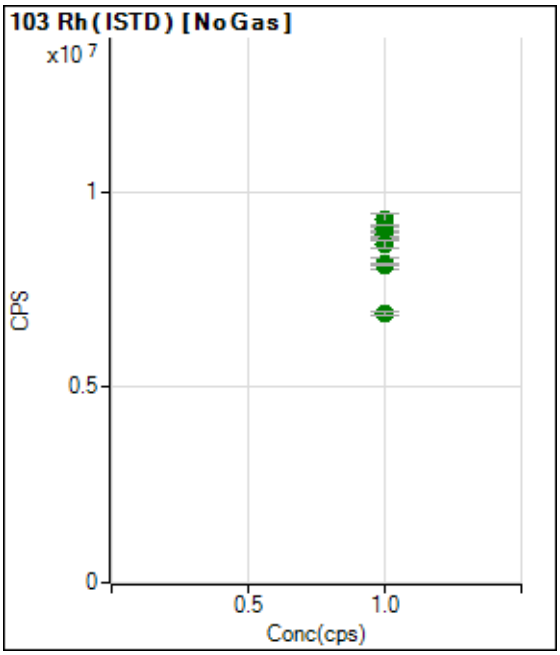
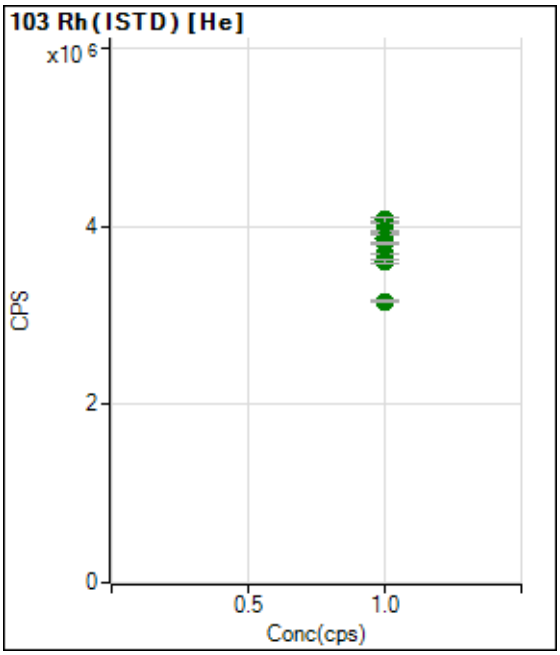
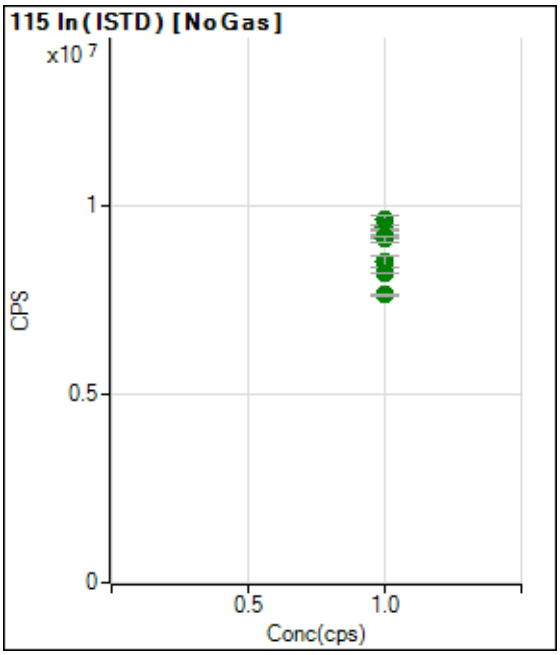



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 9291377.22 | | A | 4.0 |
| 2 | ☐ | 1.000 | | 9074758.82 | | A | 1.4 |
| 3 | ☐ | 1.000 | | 8893686.40 | | A | 1.5 |
| 4 | ☐ | 1.000 | | 8843240.70 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 8666924.38 | | A | 2.2 |
| 6 | ☐ | 1.000 | | 8172357.03 | | A | 3.8 |
| 7 | ☐ | 1.000 | | 8145529.46 | | A | 0.9 |
| 8 | ☐ | 1.000 | | 6898414.13 | | A | 1.2 |

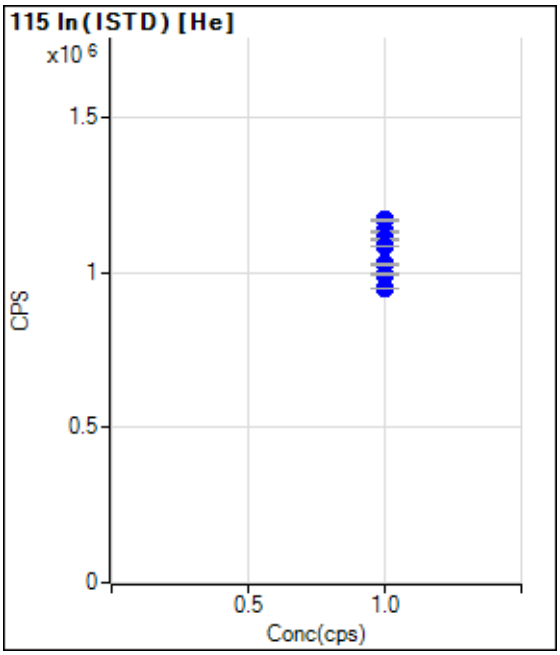



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4040487.51 | | A | 0.8 |
| 2 | ☐ | 1.000 | | 4070936.57 | | A | 1.8 |
| 3 | ☐ | 1.000 | | 3939198.76 | | A | 0.5 |
| 4 | ☐ | 1.000 | | 3860675.36 | | A | 2.0 |
| 5 | ☐ | 1.000 | | 3814345.50 | | A | 0.4 |
| 6 | ☐ | 1.000 | | 3688360.29 | | A | 0.3 |
| 7 | ☐ | 1.000 | | 3601686.40 | | A | 1.1 |
| 8 | ☐ | 1.000 | | 3153742.87 | | A | 0.7 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

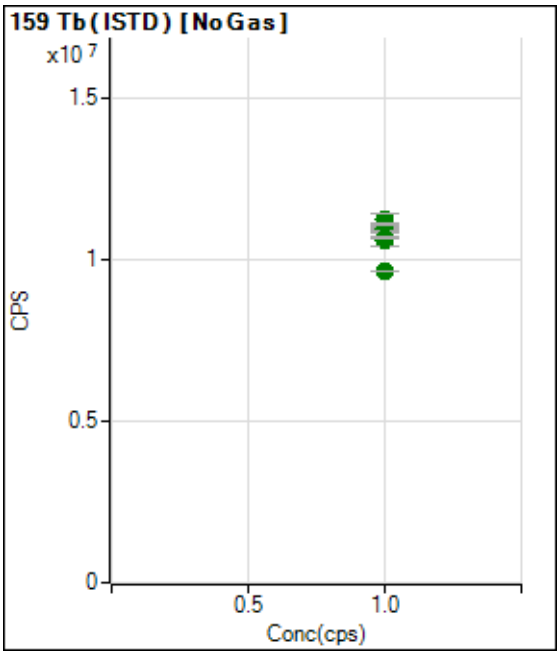



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 9631159.71 | | A | 2.8 |
| 2 | ☐ | 1.000 | | 9445184.38 | | A | 0.9 |
| 3 | ☐ | 1.000 | | 9363869.44 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 9188455.78 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 9112798.04 | | A | 1.3 |
| 6 | ☐ | 1.000 | | 8538146.33 | | A | 3.4 |
| 7 | ☐ | 1.000 | | 8224329.28 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 7646366.77 | | A | 0.5 |

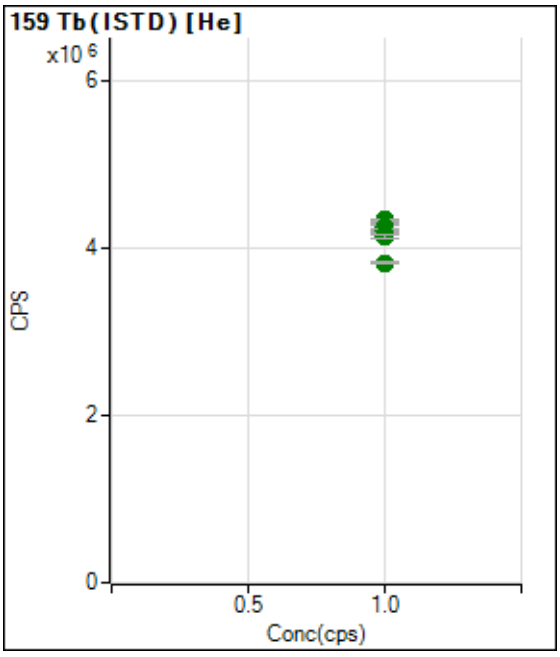



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1169434.78 | | P | 0.3 |
| 2 | ☐ | 1.000 | | 1169240.02 | | P | 0.4 |
| 3 | ☐ | 1.000 | | 1132410.66 | | P | 0.8 |
| 4 | ☐ | 1.000 | | 1106969.53 | | P | 0.4 |
| 5 | ☐ | 1.000 | | 1085902.56 | | P | 0.3 |
| 6 | ☐ | 1.000 | | 1027495.97 | | P | 0.8 |
| 7 | ☐ | 1.000 | | 945999.97 | | P | 0.1 |
| 8 | ☐ | 1.000 | | 993062.58 | | P | 0.6 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 11220545.67 | | A | 3.4 |
| 2 | ☐ | 1.000 | | 11006927.20 | | A | 1.6 |
| 3 | ☐ | 1.000 | | 11104703.45 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 10934306.37 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 11096223.45 | | A | 0.8 |
| 6 | ☐ | 1.000 | | 10603243.87 | | A | 4.1 |
| 7 | ☐ | 1.000 | | 10660179.70 | | A | 0.5 |
| 8 | ☐ | 1.000 | | 9634655.97 | | A | 0.6 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4317555.21 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 4338030.18 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 4252267.96 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 4227279.56 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 4216263.62 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 4168738.20 | | A | 0.6 |
| 7 | ☐ | 1.000 | | 4138591.60 | | A | 0.6 |
| 8 | ☐ | 1.000 | | 3827265.01 | | A | 0.5 |

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On:4/9/2025 12:00:20 PM
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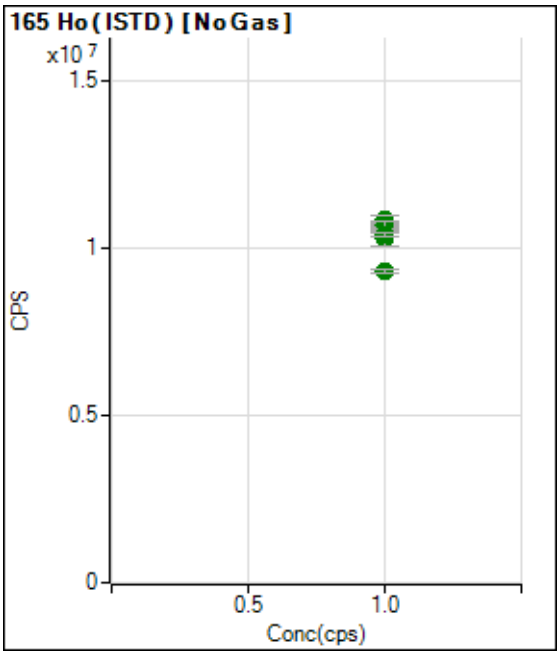
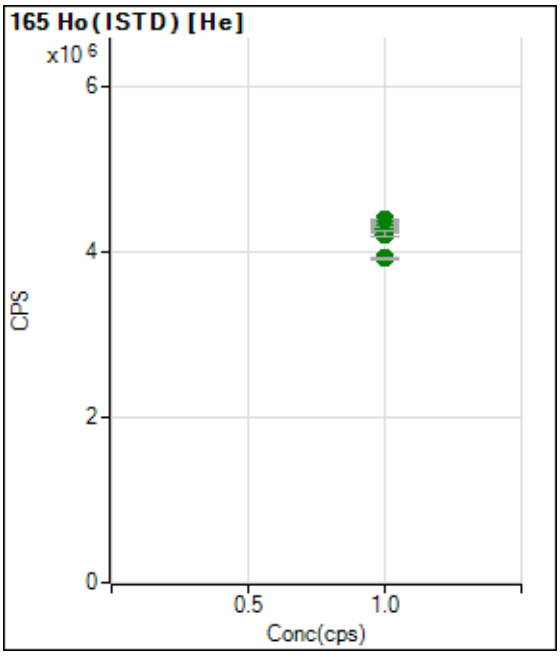
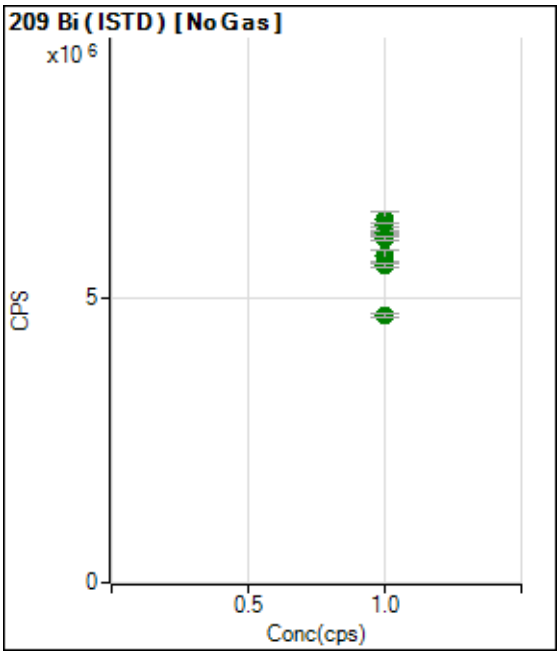



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 10823182.89 | | A | 2.7 |
| 2 | ☐ | 1.000 | | 10666140.68 | | A | 0.6 |
| 3 | ☐ | 1.000 | | 10609120.05 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 10663091.99 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 10682290.81 | | A | 2.0 |
| 6 | ☐ | 1.000 | | 10270645.33 | | A | 4.0 |
| 7 | ☐ | 1.000 | | 10364171.58 | | A | 1.0 |
| 8 | ☐ | 1.000 | | 9285372.29 | | A | 1.6 |

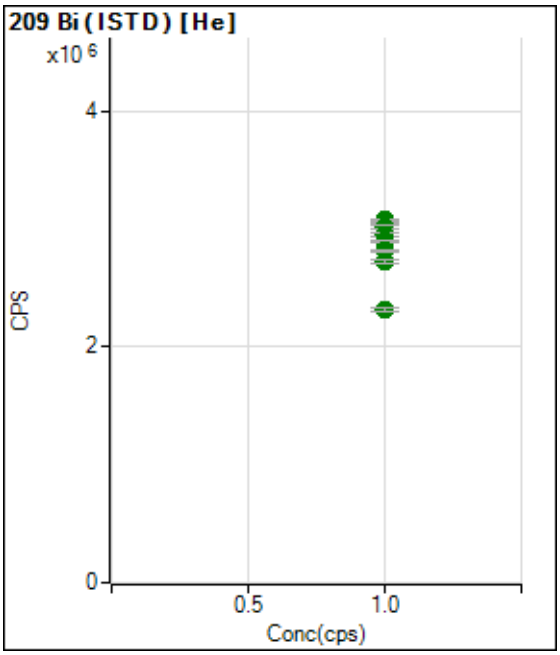



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4394266.39 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 4332349.55 | | A | 0.4 |
| 3 | ☐ | 1.000 | | 4290930.07 | | A | 0.3 |
| 4 | ☐ | 1.000 | | 4313785.56 | | A | 2.1 |
| 5 | ☐ | 1.000 | | 4274816.60 | | A | 0.3 |
| 6 | ☐ | 1.000 | | 4276214.35 | | A | 1.5 |
| 7 | ☐ | 1.000 | | 4224025.91 | | A | 1.4 |
| 8 | ☐ | 1.000 | | 3926208.21 | | A | 0.5 |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 6363998.79 | | A | 4.3 |
| 2 | ☐ | 1.000 | | 6276465.04 | | A | 0.8 |
| 3 | ☐ | 1.000 | | 6145209.98 | | A | 0.4 |
| 4 | ☐ | 1.000 | | 6134916.51 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 6031903.17 | | A | 1.3 |
| 6 | ☐ | 1.000 | | 5734799.22 | | A | 3.2 |
| 7 | ☐ | 1.000 | | 5574754.78 | | A | 1.2 |
| 8 | ☐ | 1.000 | | 4683273.02 | | A | 1.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3054194.09 | | A | 0.1 |
| 2 | ☐ | 1.000 | | 3079726.90 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 3020218.22 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 2947693.43 | | A | 1.2 |
| 5 | ☐ | 1.000 | | 2901680.48 | | A | 0.8 |
| 6 | ☐ | 1.000 | | 2816501.10 | | A | 0.5 |
| 7 | ☐ | 1.000 | | 2721163.62 | | A | 1.2 |
| 8 | ☐ | 1.000 | | 2322553.94 | | A | 1.6 |

# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 12:00
PM
Inst Id :P8
LB :LB135332

**Operator Name** Jaswal

**Acq/Data Batch** D:\Agilent\ICPMH\1\DATA\P8040725 MS.b

**Acq. Date-Time** 2025-04-07 10:28:29

**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 | | 89365 | 893654.62 | | | 1.303 | 5.000 |
| 24 | | 425062 | 4250619.24 | | | 0.798 | 5.000 |
| 25 | | 58062 | 580621.84 | | | 0.516 | 5.000 |
| 26 | | 65497 | 654973.01 | | | 0.714 | 5.000 |
| 59 | | 402328 | 4023280.51 | | | 0.869 | 5.000 |
| 113 | | 47862 | 478621.65 | | | 0.376 | 5.000 |
| 115 | | 618287 | 6182870.00 | | | 0.619 | 5.000 |
| 206 | | 119272 | 1192715.69 | | | 1.154 | 5.000 |
| 207 | | 102654 | 1026535.58 | | | 1.028 | 5.000 |
| 208 | | 251314 | 2513143.09 | | | 0.277 | 5.000 |
| 220 | | 0 | 4.90 | | | 31.780 | |

| Mass | RSD% (Flag) |
|---|---|
| 9 | |
| 24 | |
| 25 | |
| 26 | |
| 59 | |
| 113 | |
| 115 | |
| 206 | |
| 207 | |
| 208 | |
| 220 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 9 | 90763 | 89795 | 89803 | 87718 | 88748 |
| 24 | 428605 | 426405 | 424651 | 426099 | 419549 |
| 25 | 58417 | 58232 | 58154 | 57805 | 57702 |
| 26 | 65979 | 65789 | 65710 | 65122 | 64887 |
| 59 | 406359 | 404838 | 402244 | 400750 | 397449 |
| 113 | 47786 | 47885 | 47848 | 47650 | 48141 |
| 115 | 620660 | 612761 | 620144 | 615928 | 621941 |
| 206 | 119002 | 118480 | 121677 | 118908 | 118290 |
| 207 | 103386 | 102233 | 104121 | 101699 | 101828 |
| 208 | 252130 | 250552 | 251972 | 250963 | 250953 |

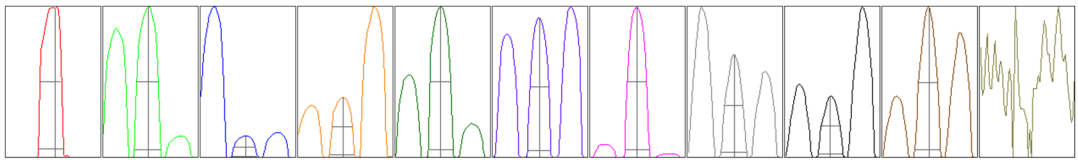
# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 12:00
PM
Inst Id :P8
LB :LB135332

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

Integration Time [sec] 0.1

**Resolution/Axis**



| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 134960.50 | 9.10 | 8.90 - 9.10 | |
| 24 | 658678.31 | 23.95 | 23.90 - 24.10 | |
| 25 | 91728.01 | 24.95 | 24.90 - 25.10 | |
| 26 | 106228.32 | 25.95 | 25.90 - 26.10 | |
| 59 | 651504.56 | 58.95 | 58.90 - 59.10 | |
| 113 | 86464.64 | 113.00 | 112.90 - 113.10 | |
| 115 | 1092365.16 | 115.00 | 114.90 - 115.10 | |
| 206 | 219344.73 | 206.00 | 205.90 - 206.10 | |
| 207 | 183957.83 | 206.95 | 206.90 - 207.10 | |
| 208 | 449047.83 | 208.00 | 207.90 - 208.10 | |
| 220 | | | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.69 | 0.790 | 0.900 | |
| 24 | 0.69 | 0.835 | 0.900 | |
| 25 | 0.67 | 0.804 | 0.900 | |
| 26 | 0.66 | 0.788 | 0.900 | |
| 59 | 0.65 | 0.787 | 0.900 | |
| 113 | 0.58 | 0.735 | 0.900 | |
| 115 | 0.59 | 0.775 | 0.900 | |
| 206 | 0.57 | 0.817 | 0.900 | |
| 207 | 0.59 | 0.787 | 0.900 | |
| 208 | 0.59 | 0.816 | 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

Reviewed By:moh
On:4/9/2025 12:00
PM
Inst Id :P8
LB :LB135332

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

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | -6.0 V | Omega Lens | 8.2 V | Deflect | 13.4 V |
| Extract 2 | -245.0 V | Cell Entrance | -30 V | Plate Bias | -50 V |
| Omega Bias | -100 V | Cell Exit | -50 V | | |

**Cell Parameters**

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

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 105 | Axis Gain | 0.9964 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | 0.04 | | |

**Hardware Settings**

**Torch**

| | | | |
|---|---|---|---|
| Torch H | 0.7 mm | Torch V | -0.2 mm |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.6 mV | Analog HV | 2211 V | Pulse HV | 940 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 88665 | 886652.58 | | | 2.035 | |
| 89 | | 77288 | 772875.09 | | | 0.648 | |
| 205 | | 82769 | 827692.08 | | | 1.146 | |

| Mass | RSD% (Flag) |
|---|---|
| 59 | |
| 89 | |
| 205 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 86156 | 88235 | 88314 | 91021 | 89600 |
| 89 | 76505 | 77175 | 77314 | 77747 | 77696 |
| 205 | 81492 | 82065 | 83107 | 83544 | 83638 |

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 | 8.2 V | Deflect | 2.0 V |

# US EPA Tune Check Report

Reviewed By:moh
On:4/9/2025 12:00
PM
Inst Id :P8
LB :LB135332

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -245.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |
| Omega Bias | -100 V | Cell Exit | -70 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 4.5 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | --- | OctP RF | 200 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 105 | Axis Gain | 0.9964 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | 0.04 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | 0.7 mm | Torch V | -0.2 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.6 mV | Analog HV | 2211 V | Pulse HV | 940 V |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:29:45 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.24 | -0.26 | 0.02 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Barium | 135-1 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.02 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | 0.14 | 0.03 | -0.17 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | 0.01 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Calcium | 43-1 | -0.66 | 1.07 | -0.41 | 0.00 | N/A | ppb |
| Calcium | 44-1 | -0.30 | 0.73 | -0.43 | 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 | -0.01 | -0.01 | 0.00 | N/A | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Copper | 63-2 | 0.01 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | -0.28 | -0.11 | 0.39 | 0.00 | N/A | ppb |
| Iron | 56-2 | -0.11 | 0.18 | -0.07 | 0.00 | N/A | ppb |
| Iron | 57-2 | -0.17 | -0.07 | 0.24 | 0.00 | N/A | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:29:45 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Lead | 208-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | -0.02 | 0.06 | -0.04 | 0.00 | N/A | ppb |
| Manganese | 55-2 | 0.01 | -0.03 | 0.02 | 0.00 | N/A | ppb |
| Molybdenum | 94-1 | 0.00 | 0.00 | 0.00 | 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 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -26.77 | -20.27 | -17.42 | -21.49 | | ppb |
| Potassium | 39-2 | 0.35 | 0.35 | -0.70 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | -0.05 | 0.13 | -0.08 | 0.00 | N/A | ppb |
| Selenium | 77-2 | -0.25 | 0.24 | 0.01 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.12 | 0.12 | -0.24 | 0.00 | N/A | ppb |
| Silicon | 28-1 | -0.01 | 0.04 | -0.03 | 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 | -0.91 | 0.42 | 0.49 | 0.00 | N/A | ppb |
| Strontium | 86-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | -157.13 | -112.95 | -60.45 | -110.18 | | 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 | -0.04 | 0.08 | -0.04 | 0.00 | N/A | ppb |
| Titanium | 47-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:29:45 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | -0.03 | -0.07 | 0.10 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P8 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:36:29 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 23.12 | 25.76 | 23.70 | 24.19 | 5.72 | ppb |
| Antimony | 121-1 | 2.16 | 2.21 | 2.23 | 2.20 | 1.81 | ppb |
| Arsenic | 75-2 | 1.25 | 1.16 | 1.18 | 1.20 | 3.75 | ppb |
| Barium | 135-1 | 10.76 | 10.76 | 10.89 | 10.80 | 0.69 | ppb |
| Barium | 137-1 | 10.73 | 10.83 | 11.00 | 10.85 | 1.26 | ppb |
| Beryllium | 9-1 | 1.20 | 1.23 | 1.26 | 1.23 | 2.33 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 1.00 | 1.30 | 1.11 | 1.14 | 13.13 | ppb |
| Cadmium | 106-1 | 0.89 | 0.94 | 1.17 | 1.00 | 14.75 | ppb |
| Cadmium | 111-1 | 1.14 | 1.14 | 1.20 | 1.16 | 2.92 | ppb |
| Calcium | 43-1 | 567.85 | 586.44 | 577.44 | 577.24 | 1.61 | ppb |
| Calcium | 44-1 | 568.80 | 579.86 | 577.54 | 575.40 | 1.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.43 | 2.36 | 2.35 | 2.38 | 1.74 | ppb |
| Cobalt | 59-2 | 1.21 | 1.26 | 1.22 | 1.23 | 1.77 | ppb |
| Copper | 63-2 | 2.26 | 2.27 | 2.24 | 2.26 | 0.63 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 54-2 | 61.65 | 64.09 | 60.88 | 62.21 | 2.69 | ppb |
| Iron | 56-2 | 60.95 | 60.29 | 60.26 | 60.50 | 0.65 | ppb |
| Iron | 57-2 | 61.64 | 59.71 | 58.99 | 60.11 | 2.28 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.99 | 1.03 | 1.00 | 1.01 | 1.71 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P8 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:36:29 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1.02 | 1.06 | 1.03 | 1.03 | 1.79 | ppb |
| Lead | 208-1 | 1.01 | 1.04 | 1.02 | 1.02 | 1.49 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 612.90 | 608.34 | 603.92 | 608.39 | 0.74 | ppb |
| Manganese | 55-2 | 0.98 | 1.08 | 1.06 | 1.04 | 5.00 | ppb |
| Molybdenum | 94-1 | 6.56 | 6.37 | 6.24 | 6.39 | 2.54 | ppb |
| Molybdenum | 95-1 | 5.34 | 5.39 | 5.28 | 5.34 | 1.06 | ppb |
| Molybdenum | 96-1 | 5.44 | 5.45 | 5.28 | 5.39 | 1.83 | ppb |
| Molybdenum | 97-1 | 5.47 | 5.46 | 5.27 | 5.40 | 2.06 | ppb |
| Molybdenum | 98-1 | 5.38 | 5.40 | 5.24 | 5.34 | 1.59 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.13 | 1.21 | 1.20 | 1.18 | 3.74 | ppb |
| Phosphorus | 31-2 | 27.21 | 21.67 | 15.59 | 21.49 | 27.06 | ppb |
| Potassium | 39-2 | 546.93 | 544.61 | 545.22 | 545.59 | 0.22 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 5.91 | 5.67 | 5.88 | 5.82 | 2.30 | ppb |
| Selenium | 77-2 | 5.42 | 7.08 | 4.95 | 5.82 | 19.28 | ppb |
| Selenium | 78-2 | 6.14 | 6.52 | 6.46 | 6.38 | 3.25 | ppb |
| Silicon | 28-1 | 1.11 | 1.42 | 1.16 | 1.23 | 13.64 | ppb |
| Silver | 107-1 | 1.07 | 1.11 | 1.13 | 1.10 | 2.45 | ppb |
| Silver | 109-1 | 1.10 | 1.12 | 1.14 | 1.12 | 1.91 | ppb |
| Sodium | 23-2 | 591.23 | 587.41 | 587.35 | 588.66 | 0.38 | ppb |
| Strontium | 86-1 | 1.11 | 1.13 | 1.10 | 1.11 | 1.53 | ppb |
| Strontium | 88-1 | 1.09 | 1.10 | 1.09 | 1.09 | 0.41 | ppb |
| Sulfur | 34-1 | 40.11 | 171.67 | 118.74 | 110.18 | 60.08 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.98 | 1.00 | 1.00 | 0.99 | 1.20 | ppb |
| Thallium | 205-1 | 1.00 | 1.02 | 1.01 | 1.01 | 0.87 | ppb |
| Tin | 118-1 | 5.45 | 5.60 | 5.67 | 5.57 | 2.04 | ppb |
| Titanium | 47-1 | 5.64 | 5.79 | 5.67 | 5.70 | 1.41 | ppb |
| Uranium | 238-1 | 1.01 | 1.03 | 1.03 | 1.02 | 0.90 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P8 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:36:29 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 5.70 | 5.72 | 5.74 | 5.72 | 0.31 | 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 | 4.82 | 4.94 | 4.76 | 4.84 | 1.90 | ppb |
| Zirconium | 90-1 | 1.06 | 1.06 | 1.04 | 1.06 | 1.15 | ppb |
| Zirconium | 91-1 | 1.06 | 1.04 | 1.02 | 1.04 | 1.79 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P8 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:39:50 | DataFile Name : | 007CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1095.43 | 1095.52 | 1105.05 | 1098.66 | 0.50 | ppb |
| Antimony | 121-1 | 53.11 | 53.10 | 52.69 | 52.97 | 0.46 | ppb |
| Arsenic | 75-2 | 51.03 | 52.72 | 51.42 | 51.73 | 1.71 | ppb |
| Barium | 135-1 | 263.43 | 260.88 | 258.54 | 260.95 | 0.94 | ppb |
| Barium | 137-1 | 261.51 | 261.96 | 255.38 | 259.61 | 1.42 | ppb |
| Beryllium | 9-1 | 55.24 | 57.80 | 56.59 | 56.54 | 2.27 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 54.06 | 54.00 | 53.57 | 53.88 | 0.49 | ppb |
| Cadmium | 106-1 | 53.21 | 53.75 | 54.07 | 53.68 | 0.81 | ppb |
| Cadmium | 111-1 | 52.65 | 52.73 | 52.67 | 52.68 | 0.07 | ppb |
| Calcium | 43-1 | 5326.63 | 5469.16 | 5479.67 | 5425.15 | 1.58 | ppb |
| Calcium | 44-1 | 5238.92 | 5241.09 | 5420.63 | 5300.21 | 1.97 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 54.92 | 54.90 | 54.04 | 54.62 | 0.92 | ppb |
| Cobalt | 59-2 | 55.69 | 55.80 | 54.78 | 55.43 | 1.01 | ppb |
| Copper | 63-2 | 581.23 | 580.70 | 575.99 | 579.31 | 0.50 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 98 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 2925.29 | 2900.56 | 2874.38 | 2900.08 | 0.88 | ppb |
| Iron | 56-2 | 2874.51 | 2858.05 | 2878.16 | 2870.24 | 0.37 | ppb |
| Iron | 57-2 | 2849.79 | 2821.93 | 2809.05 | 2826.92 | 0.74 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 250.26 | 251.48 | 253.68 | 251.81 | 0.69 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P8 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:39:50 | DataFile Name : | 007CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 249.51 | 252.63 | 260.68 | 254.27 | 2.27 | ppb |
| Lead | 208-1 | 248.69 | 251.97 | 254.86 | 251.84 | 1.22 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 5665.26 | 5693.07 | 5645.19 | 5667.84 | 0.42 | ppb |
| Manganese | 55-2 | 564.91 | 566.40 | 556.29 | 562.53 | 0.97 | ppb |
| Molybdenum | 94-1 | 497.35 | 509.09 | 513.28 | 506.57 | 1.63 | ppb |
| Molybdenum | 95-1 | 502.46 | 511.02 | 509.39 | 507.62 | 0.90 | ppb |
| Molybdenum | 96-1 | 491.28 | 511.48 | 503.81 | 502.19 | 2.03 | ppb |
| Molybdenum | 97-1 | 500.59 | 512.79 | 501.86 | 505.08 | 1.33 | ppb |
| Molybdenum | 98-1 | 497.13 | 509.16 | 503.36 | 503.22 | 1.20 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 56.03 | 56.04 | 55.07 | 55.72 | 1.00 | ppb |
| Phosphorus | 31-2 | 1091.16 | 1102.26 | 1089.29 | 1094.24 | 0.64 | ppb |
| Potassium | 39-2 | 2593.56 | 2578.78 | 2575.01 | 2582.45 | 0.38 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 53.74 | 54.68 | 54.14 | 54.19 | 0.87 | ppb |
| Selenium | 77-2 | 47.36 | 47.96 | 54.76 | 50.03 | 8.22 | ppb |
| Selenium | 78-2 | 58.12 | 55.68 | 54.69 | 56.17 | 3.15 | ppb |
| Silicon | 28-1 | 53.73 | 55.61 | 55.27 | 54.87 | 1.82 | ppb |
| Silver | 107-1 | 55.24 | 55.88 | 54.96 | 55.36 | 0.85 | ppb |
| Silver | 109-1 | 55.10 | 55.37 | 55.64 | 55.37 | 0.49 | ppb |
| Sodium | 23-2 | 5492.54 | 5455.82 | 5398.57 | 5448.97 | 0.87 | ppb |
| Strontium | 86-1 | 50.11 | 50.75 | 50.10 | 50.32 | 0.74 | ppb |
| Strontium | 88-1 | 50.78 | 51.66 | 51.20 | 51.21 | 0.86 | ppb |
| Sulfur | 34-1 | 1160.20 | 1307.61 | 1337.18 | 1268.33 | 7.47 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 48.91 | 48.71 | 48.88 | 48.83 | 0.22 | ppb |
| Thallium | 205-1 | 49.83 | 49.95 | 50.36 | 50.05 | 0.56 | ppb |
| Tin | 118-1 | 51.17 | 53.07 | 50.93 | 51.72 | 2.27 | ppb |
| Titanium | 47-1 | 518.31 | 517.77 | 522.66 | 519.58 | 0.52 | ppb |
| Uranium | 238-1 | 48.76 | 49.38 | 49.32 | 49.15 | 0.69 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P8 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:39:50 | DataFile Name : | 007CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 54.84 | 54.42 | 54.17 | 54.48 | 0.62 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 569.69 | 573.75 | 563.01 | 568.82 | 0.95 | ppb |
| Zirconium | 90-1 | 50.05 | 52.10 | 50.81 | 50.99 | 2.03 | ppb |
| Zirconium | 91-1 | 48.42 | 50.08 | 49.00 | 49.17 | 1.72 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P8 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:42:51 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2638.96 | 2624.68 | 2679.17 | 2647.60 | 1.07 | ppb |
| Antimony | 121-1 | 130.13 | 129.47 | 129.84 | 129.81 | 0.26 | ppb |
| Arsenic | 75-2 | 127.94 | 134.45 | 128.66 | 130.35 | 2.74 | ppb |
| Barium | 135-1 | 645.00 | 648.52 | 631.57 | 641.70 | 1.39 | ppb |
| Barium | 137-1 | 649.91 | 645.91 | 630.40 | 642.07 | 1.61 | ppb |
| Beryllium | 9-1 | 131.36 | 134.72 | 131.08 | 132.39 | 1.53 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 134.47 | 133.69 | 133.84 | 134.00 | 0.31 | ppb |
| Cadmium | 106-1 | 132.88 | 129.67 | 130.08 | 130.88 | 1.33 | ppb |
| Cadmium | 111-1 | 129.77 | 129.68 | 129.79 | 129.75 | 0.04 | ppb |
| Calcium | 43-1 | 13225.51 | 13564.08 | 13391.55 | 13393.71 | 1.26 | ppb |
| Calcium | 44-1 | 13224.41 | 13282.80 | 13407.57 | 13304.93 | 0.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 133.70 | 133.42 | 134.16 | 133.76 | 0.28 | ppb |
| Cobalt | 59-2 | 141.16 | 137.35 | 137.72 | 138.75 | 1.51 | ppb |
| Copper | 63-2 | 1393.40 | 1410.87 | 1421.12 | 1408.46 | 1.00 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 54-2 | 7270.37 | 7283.71 | 7223.02 | 7259.04 | 0.44 | ppb |
| Iron | 56-2 | 6972.05 | 6969.13 | 7031.94 | 6991.04 | 0.51 | ppb |
| Iron | 57-2 | 6862.95 | 6880.28 | 6951.69 | 6898.31 | 0.68 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 617.58 | 623.84 | 613.63 | 618.35 | 0.83 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P8 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:42:51 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 620.40 | 629.83 | 621.44 | 623.89 | 0.83 | ppb |
| Lead | 208-1 | 615.85 | 622.77 | 617.47 | 618.70 | 0.58 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 13594.64 | 13765.08 | 13741.32 | 13700.35 | 0.67 | ppb |
| Manganese | 55-2 | 1348.51 | 1348.45 | 1355.11 | 1350.69 | 0.28 | ppb |
| Molybdenum | 94-1 | 1240.29 | 1262.68 | 1266.84 | 1256.60 | 1.14 | ppb |
| Molybdenum | 95-1 | 1244.39 | 1266.42 | 1265.06 | 1258.62 | 0.98 | ppb |
| Molybdenum | 96-1 | 1251.79 | 1262.72 | 1273.57 | 1262.69 | 0.86 | ppb |
| Molybdenum | 97-1 | 1273.20 | 1263.26 | 1285.10 | 1273.85 | 0.86 | ppb |
| Molybdenum | 98-1 | 1255.34 | 1261.11 | 1268.66 | 1261.70 | 0.53 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 133.99 | 133.48 | 134.92 | 134.13 | 0.55 | ppb |
| Phosphorus | 31-2 | 2645.39 | 2677.19 | 2634.74 | 2652.44 | 0.83 | ppb |
| Potassium | 39-2 | 6437.09 | 6414.67 | 6388.44 | 6413.40 | 0.38 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 95 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 129.43 | 132.45 | 133.06 | 131.65 | 1.48 | ppb |
| Selenium | 77-2 | 125.20 | 137.01 | 134.75 | 132.32 | 4.74 | ppb |
| Selenium | 78-2 | 125.13 | 140.23 | 135.50 | 133.62 | 5.78 | ppb |
| Silicon | 28-1 | 135.93 | 136.09 | 135.75 | 135.93 | 0.13 | ppb |
| Silver | 107-1 | 136.86 | 133.23 | 132.89 | 134.33 | 1.64 | ppb |
| Silver | 109-1 | 136.93 | 135.70 | 135.71 | 136.11 | 0.52 | ppb |
| Sodium | 23-2 | 13198.89 | 13238.60 | 13556.87 | 13331.45 | 1.47 | ppb |
| Strontium | 86-1 | 127.73 | 129.45 | 128.66 | 128.61 | 0.67 | ppb |
| Strontium | 88-1 | 126.39 | 126.31 | 127.30 | 126.67 | 0.44 | ppb |
| Sulfur | 34-1 | 2399.13 | 2407.20 | 2485.10 | 2430.48 | 1.95 | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 125.36 | 126.10 | 125.06 | 125.51 | 0.43 | ppb |
| Thallium | 205-1 | 121.27 | 121.76 | 121.41 | 121.48 | 0.21 | ppb |
| Tin | 118-1 | 128.47 | 128.76 | 130.11 | 129.12 | 0.68 | ppb |
| Titanium | 47-1 | 1273.72 | 1286.50 | 1297.14 | 1285.79 | 0.91 | ppb |
| Uranium | 238-1 | 119.73 | 121.62 | 118.96 | 120.10 | 1.14 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P8 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:42:51 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 133.90 | 132.89 | 134.59 | 133.79 | 0.64 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 96 | | % |
| Yttrium | 89-2 | | | | 94 | | % |
| Zinc | 66-2 | 1400.13 | 1421.23 | 1428.83 | 1416.73 | 1.05 | ppb |
| Zirconium | 90-1 | 124.73 | 125.19 | 125.71 | 125.21 | 0.39 | ppb |
| Zirconium | 91-1 | 122.67 | 125.21 | 124.03 | 123.97 | 1.03 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P8 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:45:39 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5174.00 | 5197.70 | 5076.18 | 5149.29 | 1.25 | ppb |
| Antimony | 121-1 | 244.18 | 248.44 | 247.75 | 246.79 | 0.93 | ppb |
| Arsenic | 75-2 | 254.31 | 251.96 | 249.55 | 251.94 | 0.94 | ppb |
| Barium | 135-1 | 1211.71 | 1219.98 | 1230.82 | 1220.84 | 0.79 | ppb |
| Barium | 137-1 | 1213.57 | 1225.52 | 1236.67 | 1225.25 | 0.94 | ppb |
| Beryllium | 9-1 | 253.64 | 258.08 | 264.07 | 258.60 | 2.02 | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 95 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 248.86 | 251.87 | 258.12 | 252.95 | 1.87 | ppb |
| Cadmium | 106-1 | 248.68 | 248.09 | 250.67 | 249.15 | 0.54 | ppb |
| Cadmium | 111-1 | 252.66 | 257.63 | 261.01 | 257.10 | 1.63 | ppb |
| Calcium | 43-1 | 26341.03 | 26380.19 | 26255.35 | 26325.53 | 0.24 | ppb |
| Calcium | 44-1 | 25796.59 | 25984.60 | 26143.16 | 25974.78 | 0.67 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 274.20 | 271.09 | 262.35 | 269.21 | 2.28 | ppb |
| Cobalt | 59-2 | 269.28 | 271.85 | 264.96 | 268.70 | 1.30 | ppb |
| Copper | 63-2 | 2727.54 | 2701.33 | 2689.46 | 2706.11 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 93 | | % |
| Iron | 54-2 | 13987.43 | 14004.53 | 13677.80 | 13889.92 | 1.32 | ppb |
| Iron | 56-2 | 13597.48 | 13646.50 | 13414.46 | 13552.81 | 0.90 | ppb |
| Iron | 57-2 | 13595.72 | 13875.00 | 13657.30 | 13709.34 | 1.07 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 1204.82 | 1246.73 | 1199.54 | 1217.03 | 2.12 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P8 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:45:39 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1214.27 | 1224.97 | 1217.83 | 1219.02 | 0.45 | ppb |
| Lead | 208-1 | 1211.75 | 1228.49 | 1220.34 | 1220.20 | 0.69 | ppb |
| Lithium | 6-1 | | | | 95 | | % |
| Magnesium | 24-2 | 27113.05 | 26546.33 | 26548.09 | 26735.82 | 1.22 | ppb |
| Manganese | 55-2 | 2670.81 | 2680.21 | 2574.17 | 2641.73 | 2.22 | ppb |
| Molybdenum | 94-1 | 2441.88 | 2509.64 | 2489.06 | 2480.19 | 1.40 | ppb |
| Molybdenum | 95-1 | 2447.50 | 2494.38 | 2499.79 | 2480.56 | 1.16 | ppb |
| Molybdenum | 96-1 | 2471.19 | 2486.66 | 2473.46 | 2477.10 | 0.34 | ppb |
| Molybdenum | 97-1 | 2495.78 | 2551.09 | 2491.05 | 2512.64 | 1.33 | ppb |
| Molybdenum | 98-1 | 2469.77 | 2520.10 | 2448.48 | 2479.45 | 1.48 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 257.37 | 258.98 | 254.59 | 256.98 | 0.87 | ppb |
| Phosphorus | 31-2 | 5357.36 | 5283.52 | 5233.29 | 5291.39 | 1.18 | ppb |
| Potassium | 39-2 | 12397.58 | 12393.71 | 12170.12 | 12320.47 | 1.06 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 96 | | % |
| Selenium | 82-1 | 254.81 | 264.09 | 257.85 | 258.92 | 1.83 | ppb |
| Selenium | 77-2 | 254.40 | 240.66 | 250.77 | 248.61 | 2.86 | ppb |
| Selenium | 78-2 | 264.64 | 253.26 | 253.55 | 257.15 | 2.52 | ppb |
| Silicon | 28-1 | 265.44 | 272.55 | 268.54 | 268.84 | 1.33 | ppb |
| Silver | 107-1 | 251.17 | 249.53 | 257.37 | 252.69 | 1.64 | ppb |
| Silver | 109-1 | 259.08 | 259.36 | 263.43 | 260.63 | 0.93 | ppb |
| Sodium | 23-2 | 26216.27 | 25990.15 | 25957.69 | 26054.71 | 0.54 | ppb |
| Strontium | 86-1 | 251.86 | 252.64 | 252.55 | 252.35 | 0.17 | ppb |
| Strontium | 88-1 | 249.75 | 253.59 | 251.55 | 251.63 | 0.76 | ppb |
| Sulfur | 34-1 | 4780.46 | 4868.43 | 4765.80 | 4804.90 | 1.16 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 242.52 | 251.13 | 240.86 | 244.83 | 2.25 | ppb |
| Thallium | 205-1 | 241.45 | 248.18 | 238.66 | 242.76 | 2.02 | ppb |
| Tin | 118-1 | 251.01 | 254.14 | 248.85 | 251.33 | 1.06 | ppb |
| Titanium | 47-1 | 2495.80 | 2511.79 | 2503.01 | 2503.53 | 0.32 | ppb |
| Uranium | 238-1 | 236.64 | 237.63 | 243.09 | 239.12 | 1.45 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P8 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:45:39 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 265.89 | 261.97 | 261.64 | 263.17 | 0.90 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 96 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 2707.22 | 2699.52 | 2711.84 | 2706.19 | 0.23 | ppb |
| Zirconium | 90-1 | 244.56 | 250.50 | 248.50 | 247.85 | 1.22 | ppb |
| Zirconium | 91-1 | 242.89 | 245.91 | 249.26 | 246.02 | 1.29 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P8 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:48:26 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10138.91 | 9789.36 | 9989.37 | 9972.55 | 1.76 | ppb |
| Antimony | 121-1 | 534.88 | 495.18 | 496.90 | 508.99 | 4.41 | ppb |
| Arsenic | 75-2 | 496.72 | 490.99 | 504.26 | 497.33 | 1.34 | ppb |
| Barium | 135-1 | 2670.62 | 2476.34 | 2484.95 | 2543.97 | 4.31 | ppb |
| Barium | 137-1 | 2660.25 | 2473.75 | 2489.97 | 2541.33 | 4.07 | ppb |
| Beryllium | 9-1 | 521.25 | 504.60 | 506.99 | 510.94 | 1.76 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 539.22 | 498.94 | 504.25 | 514.14 | 4.26 | ppb |
| Cadmium | 106-1 | 534.68 | 497.74 | 499.77 | 510.73 | 4.07 | ppb |
| Cadmium | 111-1 | 542.03 | 504.85 | 512.83 | 519.90 | 3.77 | ppb |
| Calcium | 43-1 | 55060.54 | 52543.75 | 51664.95 | 53089.75 | 3.32 | ppb |
| Calcium | 44-1 | 54942.23 | 52076.90 | 51172.71 | 52730.61 | 3.73 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 533.10 | 516.65 | 518.07 | 522.61 | 1.74 | ppb |
| Cobalt | 59-2 | 520.82 | 509.12 | 525.14 | 518.36 | 1.60 | ppb |
| Copper | 63-2 | 5252.93 | 5148.89 | 5286.18 | 5229.33 | 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 | | | | 95 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 89 | | % |
| Indium | 115-2 | | | | 88 | | % |
| Iron | 54-2 | 27814.87 | 26798.58 | 27229.67 | 27281.04 | 1.87 | ppb |
| Iron | 56-2 | 27108.74 | 26281.30 | 26875.05 | 26755.03 | 1.59 | ppb |
| Iron | 57-2 | 26859.43 | 26173.08 | 26999.89 | 26677.47 | 1.66 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2545.84 | 2455.49 | 2426.92 | 2476.08 | 2.51 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P8 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:48:26 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2585.52 | 2478.39 | 2434.75 | 2499.55 | 3.10 | ppb |
| Lead | 208-1 | 2572.99 | 2476.26 | 2437.50 | 2495.58 | 2.80 | ppb |
| Lithium | 6-1 | | | | 92 | | % |
| Magnesium | 24-2 | 53116.15 | 52058.78 | 52835.91 | 52670.28 | 1.04 | ppb |
| Manganese | 55-2 | 5252.88 | 5111.56 | 5211.87 | 5192.10 | 1.40 | ppb |
| Molybdenum | 94-1 | 5251.18 | 4810.53 | 5038.61 | 5033.44 | 4.38 | ppb |
| Molybdenum | 95-1 | 5255.80 | 4769.11 | 4977.68 | 5000.86 | 4.88 | ppb |
| Molybdenum | 96-1 | 5253.72 | 4787.75 | 4977.28 | 5006.25 | 4.68 | ppb |
| Molybdenum | 97-1 | 5253.49 | 4868.70 | 4966.48 | 5029.56 | 3.98 | ppb |
| Molybdenum | 98-1 | 5300.78 | 4833.75 | 4941.34 | 5025.29 | 4.87 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 538.97 | 519.41 | 540.49 | 532.96 | 2.21 | ppb |
| Phosphorus | 31-2 | 10469.47 | 10278.78 | 10448.16 | 10398.81 | 1.00 | ppb |
| Potassium | 39-2 | 24831.95 | 24378.51 | 24440.93 | 24550.46 | 1.00 | ppb |
| Rhodium | 103-1 | | | | 88 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 92 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 529.60 | 493.18 | 509.59 | 510.79 | 3.57 | ppb |
| Selenium | 77-2 | 519.47 | 476.08 | 490.30 | 495.28 | 4.47 | ppb |
| Selenium | 78-2 | 513.27 | 498.12 | 506.89 | 506.09 | 1.50 | ppb |
| Silicon | 28-1 | 561.49 | 524.35 | 516.99 | 534.28 | 4.47 | ppb |
| Silver | 107-1 | 541.73 | 502.03 | 505.92 | 516.56 | 4.24 | ppb |
| Silver | 109-1 | 546.90 | 513.34 | 510.39 | 523.54 | 3.87 | ppb |
| Sodium | 23-2 | 52197.80 | 50734.63 | 51800.03 | 51577.49 | 1.47 | ppb |
| Strontium | 86-1 | 530.92 | 491.12 | 492.69 | 504.91 | 4.46 | ppb |
| Strontium | 88-1 | 531.31 | 495.88 | 498.01 | 508.40 | 3.91 | ppb |
| Sulfur | 34-1 | 10860.40 | 9853.93 | 9926.63 | 10213.65 | 5.50 | ppb |
| Terbium | 159-1 | | | | 94 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 511.22 | 488.96 | 488.52 | 496.23 | 2.62 | ppb |
| Thallium | 205-1 | 510.34 | 487.60 | 490.24 | 496.06 | 2.51 | ppb |
| Tin | 118-1 | 535.24 | 500.62 | 498.39 | 511.42 | 4.04 | ppb |
| Titanium | 47-1 | 5347.37 | 5043.23 | 4985.36 | 5125.32 | 3.79 | ppb |
| Uranium | 238-1 | 513.19 | 488.72 | 490.17 | 497.36 | 2.76 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P8 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:48:26 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 527.02 | 510.12 | 516.80 | 517.98 | 1.64 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 94 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 5265.73 | 5099.56 | 5369.92 | 5245.07 | 2.60 | ppb |
| Zirconium | 90-1 | 524.10 | 490.28 | 497.62 | 504.00 | 3.53 | ppb |
| Zirconium | 91-1 | 523.09 | 479.19 | 492.25 | 498.18 | 4.52 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P8 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:51:11 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 19373.47 | 19419.19 | 19215.99 | 19336.22 | 0.55 | ppb |
| Antimony | 121-1 | 997.26 | 990.55 | 998.86 | 995.56 | 0.44 | ppb |
| Arsenic | 75-2 | 1045.40 | 970.81 | 984.08 | 1000.10 | 3.98 | ppb |
| Barium | 135-1 | 4976.12 | 4970.69 | 5001.20 | 4982.67 | 0.33 | ppb |
| Barium | 137-1 | 4972.22 | 4994.38 | 4982.12 | 4982.91 | 0.22 | ppb |
| Beryllium | 9-1 | 995.64 | 982.95 | 994.79 | 991.13 | 0.72 | ppb |
| Bismuth | 209-1 | | | | 88 | | % |
| Bismuth | 209-2 | | | | 89 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 993.26 | 985.29 | 994.07 | 990.87 | 0.49 | ppb |
| Cadmium | 106-1 | 995.73 | 986.98 | 999.08 | 993.93 | 0.63 | ppb |
| Cadmium | 111-1 | 993.57 | 986.75 | 982.32 | 987.55 | 0.57 | ppb |
| Calcium | 43-1 | 102828.49 | 103449.62 | 101610.56 | 102629.56 | 0.91 | ppb |
| Calcium | 44-1 | 101907.30 | 102525.53 | 100861.97 | 101764.93 | 0.83 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 985.88 | 985.11 | 976.71 | 982.57 | 0.52 | ppb |
| Cobalt | 59-2 | 983.34 | 982.85 | 986.27 | 984.16 | 0.19 | ppb |
| Copper | 63-2 | 9805.18 | 9803.04 | 9821.87 | 9810.03 | 0.11 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 96 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 85 | | % |
| Indium | 115-2 | | | | 81 | | % |
| Iron | 54-2 | 51135.82 | 51894.46 | 51407.27 | 51479.18 | 0.75 | ppb |
| Iron | 56-2 | 50208.45 | 50669.32 | 50494.04 | 50457.27 | 0.46 | ppb |
| Iron | 57-2 | 50882.91 | 50295.00 | 51107.54 | 50761.82 | 0.83 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4930.20 | 5067.40 | 5065.23 | 5020.94 | 1.57 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P8 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:51:11 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4935.10 | 5029.79 | 5058.79 | 5007.89 | 1.29 | ppb |
| Lead | 208-1 | 4915.40 | 5048.31 | 5067.35 | 5010.36 | 1.65 | ppb |
| Lithium | 6-1 | | | | 93 | | % |
| Magnesium | 24-2 | 99916.01 | 99694.22 | 100371.67 | 99993.97 | 0.35 | ppb |
| Manganese | 55-2 | 9791.92 | 9952.59 | 9813.89 | 9852.80 | 0.88 | ppb |
| Molybdenum | 94-1 | 9953.65 | 10042.81 | 9964.77 | 9987.08 | 0.49 | ppb |
| Molybdenum | 95-1 | 10075.63 | 10053.65 | 9879.63 | 10002.97 | 1.07 | ppb |
| Molybdenum | 96-1 | 10081.12 | 10012.31 | 9909.28 | 10000.90 | 0.86 | ppb |
| Molybdenum | 97-1 | 9939.69 | 10030.96 | 9965.82 | 9978.83 | 0.47 | ppb |
| Molybdenum | 98-1 | 10053.31 | 9977.18 | 9942.12 | 9990.87 | 0.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 991.38 | 965.21 | 984.46 | 980.35 | 1.38 | ppb |
| Phosphorus | 31-2 | 19685.83 | 19827.43 | 19598.69 | 19703.98 | 0.59 | ppb |
| Potassium | 39-2 | 47540.98 | 47352.52 | 47192.81 | 47362.10 | 0.37 | ppb |
| Rhodium | 103-1 | | | | 88 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 1007.52 | 988.10 | 978.37 | 991.33 | 1.50 | ppb |
| Selenium | 77-2 | 1036.35 | 1001.33 | 967.68 | 1001.79 | 3.43 | ppb |
| Selenium | 78-2 | 1029.56 | 980.86 | 970.91 | 993.77 | 3.16 | ppb |
| Silicon | 28-1 | 976.71 | 985.51 | 967.67 | 976.63 | 0.91 | ppb |
| Silver | 107-1 | 983.59 | 1001.45 | 983.80 | 989.61 | 1.04 | ppb |
| Silver | 109-1 | 989.26 | 982.03 | 980.45 | 983.91 | 0.48 | ppb |
| Sodium | 23-2 | 98802.32 | 98385.03 | 100135.78 | 99107.71 | 0.92 | ppb |
| Strontium | 86-1 | 1001.11 | 1003.73 | 984.63 | 996.49 | 1.04 | ppb |
| Strontium | 88-1 | 997.92 | 999.62 | 987.83 | 995.12 | 0.64 | ppb |
| Sulfur | 34-1 | 19822.73 | 20185.06 | 19803.88 | 19937.22 | 1.08 | ppb |
| Terbium | 159-1 | | | | 95 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 988.48 | 1020.29 | 1000.74 | 1003.17 | 1.60 | ppb |
| Thallium | 205-1 | 983.16 | 1021.90 | 1007.60 | 1004.22 | 1.95 | ppb |
| Tin | 118-1 | 993.74 | 994.97 | 991.36 | 993.36 | 0.19 | ppb |
| Titanium | 47-1 | 9869.64 | 10039.58 | 9883.79 | 9931.00 | 0.95 | ppb |
| Uranium | 238-1 | 992.97 | 1017.27 | 1003.84 | 1004.69 | 1.21 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P8 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:51:11 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 977.04 | 990.13 | 992.00 | 986.39 | 0.83 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 94 | | % |
| Yttrium | 89-2 | | | | 93 | | % |
| Zinc | 66-2 | 9867.95 | 9738.69 | 9798.26 | 9801.63 | 0.66 | ppb |
| Zirconium | 90-1 | 993.29 | 1000.41 | 1001.68 | 998.46 | 0.45 | ppb |
| Zirconium | 91-1 | 996.22 | 1011.88 | 998.13 | 1002.08 | 0.85 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P8 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:54:02 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 97766.68 | 101669.67 | 100933.73 | 100123.36 | 2.07 | ppb |
| Antimony | 121-1 | 0.47 | 0.46 | 0.44 | 0.45 | 3.46 | ppb |
| Arsenic | 75-2 | 0.53 | 0.43 | 0.48 | 0.48 | 9.76 | ppb |
| Barium | 135-1 | 1.89 | 1.89 | 1.90 | 1.89 | 0.29 | ppb |
| Barium | 137-1 | 1.95 | 1.92 | 1.86 | 1.91 | 2.42 | ppb |
| Beryllium | 9-1 | 0.05 | 0.04 | 0.03 | 0.04 | 24.82 | ppb |
| Bismuth | 209-1 | | | | 74 | | % |
| Bismuth | 209-2 | | | | 76 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.31 | 0.34 | 0.45 | 0.37 | 19.10 | ppb |
| Cadmium | 106-1 | -0.31 | -0.02 | -0.17 | -0.17 | | ppb |
| Cadmium | 111-1 | 0.12 | 0.12 | 0.10 | 0.11 | 6.83 | ppb |
| Calcium | 43-1 | 500256.82 | 496621.98 | 500337.70 | 499072.17 | 0.43 | ppb |
| Calcium | 44-1 | 503972.20 | 495290.47 | 498643.37 | 499302.01 | 0.88 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6.72 | 6.83 | 7.01 | 6.85 | 2.10 | ppb |
| Cobalt | 59-2 | 2.07 | 2.08 | 2.13 | 2.09 | 1.67 | ppb |
| Copper | 63-2 | 7.30 | 7.45 | 7.42 | 7.39 | 1.08 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 86 | | % |
| Holmium | 165-2 | | | | 89 | | % |
| Indium | 115-1 | | | | 79 | | % |
| Indium | 115-2 | | | | 85 | | % |
| Iron | 54-2 | 245069.21 | 250721.72 | 252341.07 | 249377.33 | 1.53 | ppb |
| Iron | 56-2 | 248814.92 | 251358.57 | 248801.02 | 249658.17 | 0.59 | ppb |
| Iron | 57-2 | 245304.80 | 252416.87 | 251078.16 | 249599.94 | 1.51 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 3.85 | 3.97 | 3.81 | 3.87 | 2.11 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P8 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:54:02 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3.80 | 3.94 | 3.79 | 3.84 | 2.29 | ppb |
| Lead | 208-1 | 3.85 | 3.92 | 3.81 | 3.86 | 1.45 | ppb |
| Lithium | 6-1 | | | | 83 | | % |
| Magnesium | 24-2 | 497712.99 | 502890.38 | 498228.41 | 499610.59 | 0.57 | ppb |
| Manganese | 55-2 | 4.88 | 4.86 | 4.78 | 4.84 | 1.10 | ppb |
| Molybdenum | 94-1 | 1.94 | 1.90 | 1.86 | 1.90 | 2.11 | ppb |
| Molybdenum | 95-1 | 1.26 | 1.25 | 1.21 | 1.24 | 2.27 | ppb |
| Molybdenum | 96-1 | 2.07 | 2.04 | 1.97 | 2.03 | 2.59 | ppb |
| Molybdenum | 97-1 | 1.30 | 1.19 | 1.17 | 1.22 | 5.83 | ppb |
| Molybdenum | 98-1 | 1.21 | 1.19 | 1.11 | 1.17 | 4.38 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 7.01 | 7.12 | 7.11 | 7.08 | 0.88 | ppb |
| Phosphorus | 31-2 | -10.82 | -17.73 | -10.65 | -13.07 | | ppb |
| Potassium | 39-2 | 249778.76 | 250881.80 | 251068.97 | 250576.51 | 0.28 | ppb |
| Rhodium | 103-1 | | | | 74 | | % |
| Rhodium | 103-2 | | | | 78 | | % |
| Scandium | 45-1 | | | | 86 | | % |
| Scandium | 45-2 | | | | 92 | | % |
| Selenium | 82-1 | 0.76 | 0.60 | 0.95 | 0.77 | 23.15 | ppb |
| Selenium | 77-2 | 0.63 | -0.21 | -0.49 | -0.03 | | ppb |
| Selenium | 78-2 | 0.81 | 0.47 | 0.54 | 0.61 | 29.00 | ppb |
| Silicon | 28-1 | 3.82 | 3.36 | 4.52 | 3.90 | 15.01 | ppb |
| Silver | 107-1 | 0.10 | 0.09 | 0.08 | 0.09 | 10.94 | ppb |
| Silver | 109-1 | 0.10 | 0.10 | 0.08 | 0.09 | 9.29 | ppb |
| Sodium | 23-2 | 496251.93 | 504380.10 | 499195.79 | 499942.61 | 0.82 | ppb |
| Strontium | 86-1 | 3.18 | 3.18 | 3.15 | 3.17 | 0.63 | ppb |
| Strontium | 88-1 | 3.15 | 3.20 | 3.19 | 3.18 | 0.90 | ppb |
| Sulfur | 34-1 | -378.46 | -524.94 | -485.72 | -463.04 | | ppb |
| Terbium | 159-1 | | | | 86 | | % |
| Terbium | 159-2 | | | | 89 | | % |
| Thallium | 203-1 | 0.08 | 0.07 | 0.06 | 0.07 | 12.00 | ppb |
| Thallium | 205-1 | 0.08 | 0.07 | 0.06 | 0.07 | 10.66 | ppb |
| Tin | 118-1 | 0.21 | 0.18 | 0.19 | 0.19 | 6.65 | ppb |
| Titanium | 47-1 | 0.80 | 0.74 | 0.79 | 0.78 | 4.09 | ppb |
| Uranium | 238-1 | 0.05 | 0.04 | 0.03 | 0.04 | 15.54 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P8 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:54:02 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.27 | 0.26 | 0.23 | 0.25 | 8.15 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 85 | | % |
| Yttrium | 89-2 | | | | 88 | | % |
| Zinc | 66-2 | 16.25 | 16.47 | 16.56 | 16.43 | 0.98 | ppb |
| Zirconium | 90-1 | 0.46 | 0.46 | 0.44 | 0.45 | 2.56 | ppb |
| Zirconium | 91-1 | 0.46 | 0.46 | 0.44 | 0.46 | 2.06 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:40:43 | DataFile Name : | 017ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 474.72 | 467.90 | 461.60 | 468.07 | 1.40 | ppb |
| Antimony | 121-1 | 197.66 | 196.77 | 195.62 | 196.68 | 0.52 | ppb |
| Arsenic | 75-2 | 195.42 | 194.38 | 197.17 | 195.66 | 0.72 | ppb |
| Barium | 135-1 | 94.72 | 96.25 | 96.13 | 95.70 | 0.89 | ppb |
| Barium | 137-1 | 101.06 | 100.15 | 97.68 | 99.63 | 1.76 | ppb |
| Beryllium | 9-1 | 94.49 | 93.96 | 95.30 | 94.58 | 0.72 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 176.03 | 179.18 | 177.81 | 177.67 | 0.89 | ppb |
| Cadmium | 106-1 | 186.50 | 188.23 | 185.36 | 186.70 | 0.77 | ppb |
| Cadmium | 111-1 | 104.79 | 107.35 | 106.04 | 106.06 | 1.21 | ppb |
| Calcium | 43-1 | 2222.98 | 2295.97 | 2277.26 | 2265.40 | 1.67 | ppb |
| Calcium | 44-1 | 2097.36 | 2130.83 | 2146.65 | 2124.95 | 1.18 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 100.72 | 98.00 | 98.52 | 99.08 | 1.46 | ppb |
| Cobalt | 59-2 | 105.38 | 103.90 | 103.91 | 104.40 | 0.82 | ppb |
| Copper | 63-2 | 94.29 | 92.25 | 93.46 | 93.33 | 1.10 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 2100.70 | 2057.88 | 2081.79 | 2080.12 | 1.03 | ppb |
| Iron | 56-2 | 2062.34 | 1973.52 | 2029.60 | 2021.82 | 2.22 | ppb |
| Iron | 57-2 | 2002.87 | 1957.27 | 1985.79 | 1981.98 | 1.16 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 203.57 | 196.35 | 202.87 | 200.93 | 1.98 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:40:43 | DataFile Name : | 017ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 197.49 | 191.14 | 200.22 | 196.28 | 2.37 | ppb |
| Lead | 208-1 | 199.09 | 194.76 | 201.59 | 198.48 | 1.74 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 1198.84 | 1168.61 | 1187.12 | 1184.86 | 1.29 | ppb |
| Manganese | 55-2 | 95.30 | 91.95 | 93.85 | 93.70 | 1.80 | ppb |
| Molybdenum | 94-1 | 4774.48 | 4766.02 | 4797.65 | 4779.38 | 0.34 | ppb |
| Molybdenum | 95-1 | 4722.89 | 4690.01 | 4791.67 | 4734.86 | 1.10 | ppb |
| Molybdenum | 96-1 | 4751.81 | 4745.36 | 4723.99 | 4740.39 | 0.31 | ppb |
| Molybdenum | 97-1 | 4731.48 | 4838.19 | 4749.15 | 4772.94 | 1.20 | ppb |
| Molybdenum | 98-1 | 4704.94 | 4802.24 | 4698.12 | 4735.10 | 1.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 106.40 | 104.21 | 105.29 | 105.30 | 1.04 | ppb |
| Phosphorus | 31-2 | -25.79 | -22.98 | -21.21 | -23.32 | | ppb |
| Potassium | 39-2 | 1872.31 | 1817.34 | 1830.42 | 1840.02 | 1.56 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 196.23 | 202.45 | 200.99 | 199.89 | 1.63 | ppb |
| Selenium | 77-2 | 202.32 | 192.46 | 198.72 | 197.83 | 2.52 | ppb |
| Selenium | 78-2 | 201.55 | 195.34 | 211.09 | 202.66 | 3.91 | ppb |
| Silicon | 28-1 | 62.73 | 65.10 | 64.47 | 64.10 | 1.92 | ppb |
| Silver | 107-1 | 51.63 | 52.15 | 51.64 | 51.81 | 0.57 | ppb |
| Silver | 109-1 | 52.00 | 51.35 | 50.61 | 51.32 | 1.35 | ppb |
| Sodium | 23-2 | 2042.67 | 1971.61 | 2015.83 | 2010.04 | 1.79 | ppb |
| Strontium | 86-1 | 489.06 | 504.90 | 494.57 | 496.18 | 1.62 | ppb |
| Strontium | 88-1 | 493.06 | 504.72 | 500.88 | 499.55 | 1.19 | ppb |
| Sulfur | 34-1 | -1013.29 | -893.96 | -932.74 | -946.66 | | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 199.88 | 192.20 | 197.74 | 196.61 | 2.02 | ppb |
| Thallium | 205-1 | 196.31 | 190.04 | 198.11 | 194.82 | 2.17 | ppb |
| Tin | 118-1 | 515.76 | 510.91 | 510.44 | 512.37 | 0.57 | ppb |
| Titanium | 47-1 | 4755.75 | 4867.72 | 4856.47 | 4826.65 | 1.28 | ppb |
| Uranium | 238-1 | 496.96 | 489.62 | 505.99 | 497.52 | 1.65 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:40:43 | DataFile Name : | 017ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 96.43 | 94.84 | 95.85 | 95.71 | 0.84 | 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 | 202.71 | 197.70 | 197.81 | 199.41 | 1.43 | ppb |
| Zirconium | 90-1 | 478.71 | 472.72 | 487.89 | 479.77 | 1.59 | ppb |
| Zirconium | 91-1 | 473.74 | 468.73 | 480.64 | 474.37 | 1.26 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P8 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:44:45 | DataFile Name : | 018LLIC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 22.60 | 23.47 | 25.08 | 23.72 | 5.30 | ppb |
| Antimony | 121-1 | 1.91 | 1.90 | 1.88 | 1.89 | 0.81 | ppb |
| Arsenic | 75-2 | 0.99 | 1.03 | 0.92 | 0.98 | 5.95 | ppb |
| Barium | 135-1 | 9.29 | 9.09 | 9.22 | 9.20 | 1.13 | ppb |
| Barium | 137-1 | 9.24 | 9.22 | 9.30 | 9.25 | 0.45 | ppb |
| Beryllium | 9-1 | 1.09 | 1.01 | 1.03 | 1.04 | 3.98 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.92 | 0.95 | 0.91 | 0.92 | 1.97 | ppb |
| Cadmium | 106-1 | 0.58 | 0.00 | -0.02 | 0.18 | 185.22 | ppb |
| Cadmium | 111-1 | 0.94 | 0.90 | 0.94 | 0.93 | 2.79 | ppb |
| Calcium | 43-1 | 508.80 | 527.22 | 530.45 | 522.15 | 2.24 | ppb |
| Calcium | 44-1 | 507.71 | 521.52 | 523.27 | 517.50 | 1.65 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.04 | 1.99 | 1.96 | 2.00 | 2.12 | ppb |
| Cobalt | 59-2 | 1.04 | 1.02 | 1.01 | 1.02 | 1.29 | ppb |
| Copper | 63-2 | 1.98 | 1.93 | 1.93 | 1.94 | 1.51 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 99 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 54.91 | 52.64 | 52.74 | 53.43 | 2.40 | ppb |
| Iron | 56-2 | 51.26 | 51.09 | 55.08 | 52.48 | 4.30 | ppb |
| Iron | 57-2 | 50.23 | 51.79 | 47.93 | 49.98 | 3.89 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.91 | 0.94 | 0.92 | 0.92 | 1.85 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P8 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:44:45 | DataFile Name : | 018LLIC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.94 | 0.98 | 0.92 | 0.95 | 2.98 | ppb |
| Lead | 208-1 | 0.93 | 0.94 | 0.93 | 0.94 | 0.60 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 534.93 | 529.66 | 532.98 | 532.52 | 0.50 | ppb |
| Manganese | 55-2 | 0.95 | 0.99 | 1.02 | 0.99 | 3.50 | ppb |
| Molybdenum | 94-1 | 5.44 | 5.45 | 5.44 | 5.44 | 0.12 | ppb |
| Molybdenum | 95-1 | 4.51 | 4.58 | 4.57 | 4.55 | 0.91 | ppb |
| Molybdenum | 96-1 | 4.56 | 4.73 | 4.70 | 4.66 | 1.95 | ppb |
| Molybdenum | 97-1 | 4.68 | 4.68 | 4.68 | 4.68 | 0.03 | ppb |
| Molybdenum | 98-1 | 4.57 | 4.60 | 4.63 | 4.60 | 0.68 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.97 | 0.90 | 0.98 | 0.95 | 4.78 | ppb |
| Phosphorus | 31-2 | 36.71 | 27.90 | 17.13 | 27.24 | 35.99 | ppb |
| Potassium | 39-2 | 487.10 | 485.56 | 492.06 | 488.24 | 0.69 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 4.98 | 5.01 | 4.72 | 4.90 | 3.22 | ppb |
| Selenium | 77-2 | 3.93 | 3.39 | 3.66 | 3.66 | 7.43 | ppb |
| Selenium | 78-2 | 5.76 | 4.52 | 4.63 | 4.97 | 13.78 | ppb |
| Silicon | 28-1 | 1.53 | 1.56 | 1.50 | 1.53 | 2.04 | ppb |
| Silver | 107-1 | 0.92 | 0.91 | 0.94 | 0.92 | 1.40 | ppb |
| Silver | 109-1 | 0.93 | 0.94 | 0.95 | 0.94 | 1.51 | ppb |
| Sodium | 23-2 | 539.50 | 529.83 | 529.31 | 532.88 | 1.08 | ppb |
| Strontium | 86-1 | 0.97 | 1.01 | 0.97 | 0.99 | 2.16 | ppb |
| Strontium | 88-1 | 1.01 | 1.02 | 1.02 | 1.01 | 0.67 | ppb |
| Sulfur | 34-1 | -728.46 | -561.28 | -518.18 | -602.64 | | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.85 | 0.91 | 0.88 | 0.88 | 3.34 | ppb |
| Thallium | 205-1 | 0.87 | 0.89 | 0.88 | 0.88 | 1.15 | ppb |
| Tin | 118-1 | 4.77 | 4.72 | 4.78 | 4.76 | 0.71 | ppb |
| Titanium | 47-1 | 4.89 | 4.84 | 4.96 | 4.90 | 1.29 | ppb |
| Uranium | 238-1 | 0.87 | 0.89 | 0.88 | 0.88 | 1.09 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P8 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:44:45 | DataFile Name : | 018LLIC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4.89 | 4.96 | 4.87 | 4.90 | 1.01 | 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 | 4.66 | 4.81 | 4.83 | 4.77 | 1.93 | ppb |
| Zirconium | 90-1 | 0.90 | 0.92 | 0.91 | 0.91 | 1.20 | ppb |
| Zirconium | 91-1 | 0.88 | 0.89 | 0.91 | 0.89 | 1.59 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:48:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.57 | 2.05 | 1.71 | 2.11 | 20.47 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.47 | ppb |
| Arsenic | 75-2 | 0.00 | 0.01 | 0.00 | 0.01 | 33.92 | ppb |
| Barium | 135-1 | 0.00 | 0.01 | 0.00 | 0.00 | 182.98 | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.05 | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | -0.01 | -0.01 | 0.00 | | ppb |
| Cadmium | 106-1 | -1.01 | -1.04 | -0.74 | -0.93 | | ppb |
| Cadmium | 111-1 | -0.08 | -0.08 | -0.06 | -0.07 | | ppb |
| Calcium | 43-1 | -3.62 | -1.95 | -1.43 | -2.33 | | ppb |
| Calcium | 44-1 | 1.11 | 2.19 | 2.59 | 1.96 | 38.98 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.06 | 0.10 | -0.01 | 0.05 | 110.71 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | 0.07 | 0.06 | 0.07 | 0.06 | 3.57 | 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 | | | | 98 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 54-2 | 0.34 | 0.18 | 0.21 | 0.24 | 34.87 | ppb |
| Iron | 56-2 | 0.17 | 0.02 | 1.75 | 0.65 | 147.35 | ppb |
| Iron | 57-2 | 0.31 | -0.56 | 0.67 | 0.14 | 445.41 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.04 | 0.04 | 0.04 | 0.04 | 2.86 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:48:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.04 | 0.04 | 0.04 | 0.04 | 8.26 | ppb |
| Lead | 208-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.02 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 1.24 | 1.10 | 1.37 | 1.23 | 11.08 | ppb |
| Manganese | 55-2 | -0.03 | 0.00 | 0.01 | -0.01 | | ppb |
| Molybdenum | 94-1 | 0.05 | 0.05 | 0.03 | 0.04 | 21.01 | ppb |
| Molybdenum | 95-1 | 0.04 | 0.03 | 0.03 | 0.03 | 16.08 | ppb |
| Molybdenum | 96-1 | 0.05 | 0.04 | 0.03 | 0.04 | 20.21 | ppb |
| Molybdenum | 97-1 | 0.04 | 0.03 | 0.03 | 0.04 | 15.42 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.00 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.02 | -0.01 | 0.00 | -0.01 | | ppb |
| Phosphorus | 31-2 | -15.34 | -16.82 | -14.77 | -15.64 | | ppb |
| Potassium | 39-2 | 16.81 | 16.83 | 17.71 | 17.12 | 3.02 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.05 | 0.13 | -0.01 | 0.06 | 127.54 | ppb |
| Selenium | 77-2 | 0.00 | -0.49 | -0.49 | -0.33 | | ppb |
| Selenium | 78-2 | 0.05 | 0.19 | 0.64 | 0.29 | 105.62 | ppb |
| Silicon | 28-1 | 0.36 | 0.36 | 0.40 | 0.37 | 5.56 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.45 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.06 | ppb |
| Sodium | 23-2 | 26.54 | 24.55 | 25.51 | 25.53 | 3.90 | ppb |
| Strontium | 86-1 | 0.01 | 0.01 | 0.01 | 0.01 | 32.37 | ppb |
| Strontium | 88-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.92 | ppb |
| Sulfur | 34-1 | -671.82 | -558.96 | -512.87 | -581.22 | | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 14.46 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.96 | ppb |
| Tin | 118-1 | -0.02 | -0.02 | -0.03 | -0.02 | | ppb |
| Titanium | 47-1 | 0.05 | 0.04 | 0.03 | 0.04 | 18.39 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 6.37 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:48:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | -0.30 | -0.38 | -0.39 | -0.36 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.55 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 16.01 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:57:28 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 96195.41 | 96607.86 | 91631.59 | 94811.62 | 2.91 | ppb |
| Antimony | 121-1 | 1.23 | 1.26 | 1.22 | 1.24 | 1.78 | ppb |
| Arsenic | 75-2 | 0.35 | 0.42 | 0.35 | 0.37 | 11.77 | ppb |
| Barium | 135-1 | 1.37 | 1.48 | 1.38 | 1.41 | 4.36 | ppb |
| Barium | 137-1 | 1.42 | 1.43 | 1.40 | 1.42 | 0.96 | ppb |
| Beryllium | 9-1 | -0.35 | -0.36 | -0.35 | -0.36 | | ppb |
| Bismuth | 209-1 | | | | 86 | | % |
| Bismuth | 209-2 | | | | 86 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 14.08 | 14.32 | 14.71 | 14.37 | 2.23 | ppb |
| Cadmium | 106-1 | -0.87 | -0.91 | -1.16 | -0.98 | | ppb |
| Cadmium | 111-1 | 0.54 | 0.48 | 0.46 | 0.49 | 9.13 | ppb |
| Calcium | 43-1 | 100876.13 | 101023.21 | 99237.66 | 100379.00 | 0.99 | ppb |
| Calcium | 44-1 | 100036.23 | 99808.31 | 98940.18 | 99594.90 | 0.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 19.63 | 19.36 | 19.12 | 19.37 | 1.31 | ppb |
| Cobalt | 59-2 | 1.16 | 1.14 | 1.15 | 1.15 | 1.10 | ppb |
| Copper | 63-2 | 7.04 | 6.82 | 6.77 | 6.88 | 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 | | | | 95 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 93 | | % |
| Iron | 54-2 | 104043.20 | 103782.29 | 101967.27 | 103264.26 | 1.10 | ppb |
| Iron | 56-2 | 102975.95 | 102849.84 | 101564.29 | 102463.36 | 0.76 | ppb |
| Iron | 57-2 | 103720.77 | 101215.68 | 100589.59 | 101842.01 | 1.63 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 4.57 | 4.55 | 4.59 | 4.57 | 0.46 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:57:28 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4.28 | 4.25 | 4.24 | 4.26 | 0.54 | ppb |
| Lead | 208-1 | 4.39 | 4.35 | 4.38 | 4.37 | 0.47 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 103740.77 | 102261.37 | 99879.73 | 101960.62 | 1.91 | ppb |
| Manganese | 55-2 | 6.97 | 6.78 | 6.59 | 6.78 | 2.82 | ppb |
| Molybdenum | 94-1 | 1583.03 | 1529.04 | 1547.41 | 1553.16 | 1.77 | ppb |
| Molybdenum | 95-1 | 1908.64 | 1857.42 | 1870.12 | 1878.73 | 1.42 | ppb |
| Molybdenum | 96-1 | 1860.56 | 1820.91 | 1841.96 | 1841.14 | 1.08 | ppb |
| Molybdenum | 97-1 | 1913.64 | 1880.67 | 1888.31 | 1894.21 | 0.91 | ppb |
| Molybdenum | 98-1 | 1924.23 | 1856.79 | 1890.25 | 1890.43 | 1.78 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 5.23 | 5.33 | 5.22 | 5.26 | 1.19 | ppb |
| Phosphorus | 31-2 | 111462.64 | 110975.73 | 107327.72 | 109922.03 | 2.06 | ppb |
| Potassium | 39-2 | 102327.11 | 101078.49 | 101339.72 | 101581.78 | 0.65 | ppb |
| Rhodium | 103-1 | | | | 88 | | % |
| Rhodium | 103-2 | | | | 90 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.07 | 0.02 | 0.19 | 0.10 | 90.96 | ppb |
| Selenium | 77-2 | -0.24 | -0.49 | -0.25 | -0.33 | | ppb |
| Selenium | 78-2 | 0.28 | 0.26 | 0.41 | 0.32 | 26.17 | ppb |
| Silicon | 28-1 | 3.24 | 3.18 | 3.09 | 3.17 | 2.42 | ppb |
| Silver | 107-1 | 0.03 | 0.04 | 0.05 | 0.04 | 22.94 | ppb |
| Silver | 109-1 | 0.03 | 0.04 | 0.04 | 0.04 | 12.82 | ppb |
| Sodium | 23-2 | 110689.57 | 107381.91 | 107565.92 | 108545.80 | 1.71 | ppb |
| Strontium | 86-1 | 32.80 | 32.00 | 32.19 | 32.33 | 1.29 | ppb |
| Strontium | 88-1 | 34.35 | 34.20 | 34.29 | 34.28 | 0.22 | ppb |
| Sulfur | 34-1 | 104731.56 | 104678.31 | 104267.33 | 104559.07 | 0.24 | ppb |
| Terbium | 159-1 | | | | 95 | | % |
| Terbium | 159-2 | | | | 94 | | % |
| Thallium | 203-1 | 0.06 | 0.08 | 0.09 | 0.07 | 19.77 | ppb |
| Thallium | 205-1 | 0.06 | 0.07 | 0.09 | 0.07 | 19.23 | ppb |
| Tin | 118-1 | 0.12 | 0.10 | 0.11 | 0.11 | 8.37 | ppb |
| Titanium | 47-1 | 2025.68 | 2051.69 | 2026.60 | 2034.66 | 0.73 | ppb |
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 1.74 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:57:28 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.15 | 0.14 | 0.14 | 0.14 | 2.71 | 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 | 11.53 | 11.27 | 10.68 | 11.16 | 3.88 | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 14.76 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.04 | 0.03 | 14.94 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:04:20 | DataFile Name : | 023ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 98083.33 | 96183.92 | 94302.95 | 96190.07 | 1.97 | ppb |
| Antimony | 121-1 | 21.23 | 21.25 | 21.54 | 21.34 | 0.82 | ppb |
| Arsenic | 75-2 | 21.18 | 20.83 | 21.04 | 21.02 | 0.84 | ppb |
| Barium | 135-1 | 20.94 | 21.22 | 21.15 | 21.10 | 0.69 | ppb |
| Barium | 137-1 | 21.65 | 21.35 | 21.40 | 21.47 | 0.75 | ppb |
| Beryllium | 9-1 | 21.13 | 21.42 | 21.32 | 21.29 | 0.70 | ppb |
| Bismuth | 209-1 | | | | 88 | | % |
| Bismuth | 209-2 | | | | 86 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 36.86 | 36.77 | 36.52 | 36.72 | 0.48 | ppb |
| Cadmium | 106-1 | 25.20 | 25.07 | 25.47 | 25.25 | 0.81 | ppb |
| Cadmium | 111-1 | 20.89 | 20.56 | 20.79 | 20.75 | 0.81 | ppb |
| Calcium | 43-1 | 105368.03 | 101887.36 | 103424.57 | 103559.98 | 1.68 | ppb |
| Calcium | 44-1 | 103464.61 | 101632.62 | 102761.76 | 102619.66 | 0.90 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 40.40 | 39.66 | 38.71 | 39.59 | 2.14 | ppb |
| Cobalt | 59-2 | 20.88 | 21.04 | 20.54 | 20.82 | 1.22 | ppb |
| Copper | 63-2 | 24.83 | 25.03 | 24.21 | 24.69 | 1.72 | 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 | | | | 96 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 94 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 54-2 | 102715.42 | 103597.81 | 100122.06 | 102145.10 | 1.77 | ppb |
| Iron | 56-2 | 102345.12 | 102501.47 | 99734.12 | 101526.90 | 1.53 | ppb |
| Iron | 57-2 | 101610.24 | 102724.46 | 99757.30 | 101364.00 | 1.48 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 24.08 | 24.46 | 24.44 | 24.33 | 0.88 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:04:20 | DataFile Name : | 023ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 23.25 | 23.74 | 23.47 | 23.49 | 1.05 | ppb |
| Lead | 208-1 | 23.49 | 23.96 | 23.76 | 23.73 | 0.98 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 103930.34 | 104254.69 | 102095.06 | 103426.69 | 1.13 | ppb |
| Manganese | 55-2 | 24.94 | 25.33 | 24.37 | 24.88 | 1.94 | ppb |
| Molybdenum | 94-1 | 1690.50 | 1690.03 | 1678.17 | 1686.23 | 0.41 | ppb |
| Molybdenum | 95-1 | 1937.55 | 1971.44 | 1929.71 | 1946.24 | 1.14 | ppb |
| Molybdenum | 96-1 | 1909.93 | 1930.12 | 1912.12 | 1917.39 | 0.58 | ppb |
| Molybdenum | 97-1 | 1923.98 | 1945.64 | 1955.13 | 1941.59 | 0.82 | ppb |
| Molybdenum | 98-1 | 1918.19 | 1941.77 | 1969.17 | 1943.05 | 1.31 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 24.40 | 24.27 | 23.94 | 24.20 | 0.99 | ppb |
| Phosphorus | 31-2 | 112672.81 | 111676.85 | 108978.79 | 111109.48 | 1.72 | ppb |
| Potassium | 39-2 | 102722.16 | 103597.87 | 102907.53 | 103075.85 | 0.45 | ppb |
| Rhodium | 103-1 | | | | 89 | | % |
| Rhodium | 103-2 | | | | 91 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 21.59 | 21.52 | 20.62 | 21.24 | 2.54 | ppb |
| Selenium | 77-2 | 19.09 | 22.22 | 21.97 | 21.10 | 8.25 | ppb |
| Selenium | 78-2 | 20.69 | 19.27 | 21.53 | 20.50 | 5.57 | ppb |
| Silicon | 28-1 | 9.77 | 9.74 | 9.93 | 9.81 | 1.03 | ppb |
| Silver | 107-1 | 18.91 | 18.85 | 18.87 | 18.88 | 0.15 | ppb |
| Silver | 109-1 | 19.00 | 18.86 | 18.86 | 18.91 | 0.44 | ppb |
| Sodium | 23-2 | 110301.52 | 110767.96 | 108231.04 | 109766.84 | 1.23 | ppb |
| Strontium | 86-1 | 78.73 | 79.47 | 79.03 | 79.08 | 0.47 | ppb |
| Strontium | 88-1 | 81.76 | 81.39 | 82.55 | 81.90 | 0.72 | ppb |
| Sulfur | 34-1 | 106386.63 | 104694.36 | 106717.77 | 105932.92 | 1.02 | ppb |
| Terbium | 159-1 | | | | 96 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 19.32 | 19.56 | 19.37 | 19.42 | 0.66 | ppb |
| Thallium | 205-1 | 19.55 | 19.63 | 19.70 | 19.62 | 0.38 | ppb |
| Tin | 118-1 | 46.40 | 47.09 | 46.62 | 46.71 | 0.75 | ppb |
| Titanium | 47-1 | 2086.68 | 2074.45 | 2104.35 | 2088.49 | 0.72 | ppb |
| Uranium | 238-1 | 46.80 | 47.25 | 48.08 | 47.38 | 1.37 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:04:20 | DataFile Name : | 023ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 20.55 | 20.61 | 20.17 | 20.45 | 1.18 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 31.64 | 31.95 | 31.24 | 31.61 | 1.12 | ppb |
| Zirconium | 90-1 | 47.48 | 47.16 | 47.32 | 47.32 | 0.34 | ppb |
| Zirconium | 91-1 | 44.99 | 44.54 | 44.63 | 44.72 | 0.53 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:07:30 | DataFile Name : | 024CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 53047.49 | 53624.18 | 52746.67 | 53139.45 | 0.84 | ppb |
| Antimony | 121-1 | 520.80 | 515.85 | 521.15 | 519.27 | 0.57 | ppb |
| Arsenic | 75-2 | 509.80 | 509.80 | 518.93 | 512.84 | 1.03 | ppb |
| Barium | 135-1 | 2556.22 | 2591.85 | 2607.11 | 2585.06 | 1.01 | ppb |
| Barium | 137-1 | 2549.99 | 2595.89 | 2618.62 | 2588.16 | 1.35 | ppb |
| Beryllium | 9-1 | 537.75 | 542.89 | 535.66 | 538.76 | 0.69 | ppb |
| Bismuth | 209-1 | | | | 80 | | % |
| Bismuth | 209-2 | | | | 81 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 506.77 | 507.66 | 511.21 | 508.55 | 0.46 | ppb |
| Cadmium | 106-1 | 507.58 | 512.81 | 515.16 | 511.85 | 0.76 | ppb |
| Cadmium | 111-1 | 501.51 | 514.06 | 513.62 | 509.73 | 1.40 | ppb |
| Calcium | 43-1 | 260946.14 | 260597.98 | 257168.80 | 259570.97 | 0.80 | ppb |
| Calcium | 44-1 | 256580.38 | 261909.54 | 255216.41 | 257902.11 | 1.37 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 518.13 | 514.86 | 508.06 | 513.68 | 1.00 | ppb |
| Cobalt | 59-2 | 482.29 | 487.01 | 478.65 | 482.65 | 0.87 | ppb |
| Copper | 63-2 | 4618.97 | 4703.96 | 4604.50 | 4642.48 | 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 | | | | 91 | | % |
| Holmium | 165-2 | | | | 93 | | % |
| Indium | 115-1 | | | | 85 | | % |
| Indium | 115-2 | | | | 86 | | % |
| Iron | 54-2 | 127087.10 | 127076.75 | 126800.26 | 126988.04 | 0.13 | ppb |
| Iron | 56-2 | 125982.82 | 125443.11 | 126497.52 | 125974.48 | 0.42 | ppb |
| Iron | 57-2 | 123654.15 | 123880.00 | 123198.75 | 123577.63 | 0.28 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2556.95 | 2542.13 | 2532.67 | 2543.92 | 0.48 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:07:30 | DataFile Name : | 024CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2564.03 | 2574.61 | 2515.30 | 2551.31 | 1.24 | ppb |
| Lead | 208-1 | 2551.90 | 2574.90 | 2525.21 | 2550.67 | 0.97 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 268860.47 | 261646.55 | 271517.95 | 267341.66 | 1.91 | ppb |
| Manganese | 55-2 | 5060.79 | 5093.13 | 5052.91 | 5068.94 | 0.42 | ppb |
| Molybdenum | 94-1 | 4999.14 | 4990.55 | 5047.27 | 5012.32 | 0.61 | ppb |
| Molybdenum | 95-1 | 4888.32 | 4982.08 | 5001.63 | 4957.35 | 1.22 | ppb |
| Molybdenum | 96-1 | 4926.04 | 4965.96 | 5004.45 | 4965.48 | 0.79 | ppb |
| Molybdenum | 97-1 | 4940.50 | 5001.16 | 5004.86 | 4982.17 | 0.73 | ppb |
| Molybdenum | 98-1 | 4906.49 | 4993.98 | 4948.94 | 4949.80 | 0.88 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 474.18 | 483.40 | 489.61 | 482.40 | 1.61 | ppb |
| Phosphorus | 31-2 | 10775.43 | 10975.43 | 10919.80 | 10890.22 | 0.95 | ppb |
| Potassium | 39-2 | 129644.97 | 130158.16 | 132115.40 | 130639.51 | 1.00 | ppb |
| Rhodium | 103-1 | | | | 83 | | % |
| Rhodium | 103-2 | | | | 86 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 492.94 | 493.25 | 496.75 | 494.31 | 0.43 | ppb |
| Selenium | 77-2 | 496.69 | 490.06 | 500.58 | 495.78 | 1.07 | ppb |
| Selenium | 78-2 | 510.11 | 507.77 | 509.92 | 509.27 | 0.26 | ppb |
| Silicon | 28-1 | 502.14 | 497.41 | 484.05 | 494.53 | 1.90 | ppb |
| Silver | 107-1 | 496.56 | 501.53 | 511.21 | 503.10 | 1.48 | ppb |
| Silver | 109-1 | 496.22 | 508.79 | 507.13 | 504.05 | 1.35 | ppb |
| Sodium | 23-2 | 267982.33 | 267874.76 | 271141.89 | 268999.66 | 0.69 | ppb |
| Strontium | 86-1 | 505.63 | 502.80 | 513.92 | 507.45 | 1.14 | ppb |
| Strontium | 88-1 | 505.91 | 509.86 | 514.63 | 510.13 | 0.86 | ppb |
| Sulfur | 34-1 | 11286.51 | 11263.74 | 11058.78 | 11203.01 | 1.12 | ppb |
| Terbium | 159-1 | | | | 90 | | % |
| Terbium | 159-2 | | | | 92 | | % |
| Thallium | 203-1 | 510.75 | 511.32 | 511.47 | 511.18 | 0.07 | ppb |
| Thallium | 205-1 | 507.22 | 502.46 | 505.04 | 504.91 | 0.47 | ppb |
| Tin | 118-1 | 517.25 | 517.45 | 520.74 | 518.48 | 0.38 | ppb |
| Titanium | 47-1 | 5115.66 | 5016.59 | 5104.31 | 5078.85 | 1.07 | ppb |
| Uranium | 238-1 | 518.50 | 525.97 | 523.19 | 522.56 | 0.72 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:07:30 | DataFile Name : | 024CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 521.60 | 516.48 | 520.45 | 519.51 | 0.52 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 94 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 5433.40 | 5451.53 | 5421.30 | 5435.41 | 0.28 | ppb |
| Zirconium | 90-1 | 499.97 | 507.72 | 514.36 | 507.35 | 1.42 | ppb |
| Zirconium | 91-1 | 493.46 | 505.96 | 505.99 | 501.81 | 1.44 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:17:26 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.19 | -0.34 | -0.01 | -0.18 | | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.88 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.01 | 0.00 | 0.01 | 0.01 | 34.56 | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.00 | 0.01 | 0.00 | 0.01 | 40.72 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.00 | -0.01 | 0.00 | 344.00 | ppb |
| Cadmium | 106-1 | -0.67 | -0.42 | -0.88 | -0.66 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.03 | -0.07 | -0.05 | | ppb |
| Calcium | 43-1 | -8.97 | -10.21 | -9.22 | -9.47 | | ppb |
| Calcium | 44-1 | -4.90 | -5.67 | -5.72 | -5.43 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.35 | -0.28 | -0.35 | -0.33 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.02 | -0.01 | 0.00 | 0.00 | 372.19 | 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 | | | | 101 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 54-2 | -1.68 | -1.21 | -1.45 | -1.45 | | ppb |
| Iron | 56-2 | -1.15 | -1.21 | -1.45 | -1.27 | | ppb |
| Iron | 57-2 | -0.75 | -0.80 | -1.31 | -0.95 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.04 | 0.04 | 0.05 | 0.04 | 11.87 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:17:26 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.05 | 0.04 | 0.04 | 0.04 | 10.13 | ppb |
| Lead | 208-1 | 0.04 | 0.04 | 0.04 | 0.04 | 2.38 | ppb |
| Lithium | 6-1 | | | | 115 | | % |
| Magnesium | 24-2 | 0.60 | 0.64 | 0.70 | 0.65 | 8.17 | ppb |
| Manganese | 55-2 | -0.08 | -0.05 | -0.04 | -0.06 | | ppb |
| Molybdenum | 94-1 | 0.04 | 0.03 | 0.03 | 0.03 | 21.02 | ppb |
| Molybdenum | 95-1 | 0.02 | 0.01 | 0.02 | 0.02 | 10.63 | ppb |
| Molybdenum | 96-1 | 0.02 | 0.02 | 0.02 | 0.02 | 22.74 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.02 | 0.01 | 0.02 | 26.05 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.02 | 0.02 | 0.02 | 14.13 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.23 | -0.25 | -0.23 | -0.24 | | ppb |
| Phosphorus | 31-2 | -20.37 | -22.28 | -21.08 | -21.24 | | ppb |
| Potassium | 39-2 | 28.64 | 28.65 | 27.90 | 28.40 | 1.51 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 115 | | % |
| Scandium | 45-2 | | | | 117 | | % |
| Selenium | 82-1 | -0.05 | 0.01 | 0.01 | -0.01 | | ppb |
| Selenium | 77-2 | -0.49 | -0.49 | -0.49 | -0.49 | | ppb |
| Selenium | 78-2 | -0.02 | -0.48 | 0.12 | -0.13 | | ppb |
| Silicon | 28-1 | 0.10 | 0.03 | 0.13 | 0.09 | 58.74 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 17.38 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.56 | ppb |
| Sodium | 23-2 | 42.99 | 41.65 | 41.66 | 42.10 | 1.83 | ppb |
| Strontium | 86-1 | 0.00 | 0.00 | 0.01 | 0.00 | 363.10 | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Sulfur | 34-1 | -297.79 | -365.66 | -325.12 | -329.52 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 1.12 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.68 | ppb |
| Tin | 118-1 | -0.04 | -0.05 | -0.05 | -0.05 | | ppb |
| Titanium | 47-1 | 0.05 | 0.03 | 0.05 | 0.04 | 29.46 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:17:26 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -1.06 | -1.18 | -1.17 | -1.14 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.00 | 0.00 | 32.10 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.01 | 0.01 | 33.88 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P8 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:20:50 | DataFile Name : | 027LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 23.75 | 24.82 | 25.01 | 24.53 | 2.78 | ppb |
| Antimony | 121-1 | 1.89 | 1.95 | 1.92 | 1.92 | 1.57 | ppb |
| Arsenic | 75-2 | 0.98 | 1.07 | 1.03 | 1.03 | 4.45 | ppb |
| Barium | 135-1 | 9.08 | 9.36 | 9.23 | 9.22 | 1.54 | ppb |
| Barium | 137-1 | 9.18 | 9.50 | 9.43 | 9.37 | 1.77 | ppb |
| Beryllium | 9-1 | 0.99 | 1.01 | 1.01 | 1.00 | 1.29 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.92 | 0.95 | 0.83 | 0.90 | 7.05 | ppb |
| Cadmium | 106-1 | 0.13 | 0.57 | 0.26 | 0.32 | 70.77 | ppb |
| Cadmium | 111-1 | 0.93 | 0.98 | 0.94 | 0.95 | 2.57 | ppb |
| Calcium | 43-1 | 514.65 | 502.70 | 506.84 | 508.06 | 1.19 | ppb |
| Calcium | 44-1 | 531.67 | 527.76 | 518.97 | 526.14 | 1.24 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.83 | 1.90 | 1.90 | 1.87 | 2.25 | ppb |
| Cobalt | 59-2 | 1.00 | 0.99 | 1.00 | 1.00 | 0.77 | ppb |
| Copper | 63-2 | 1.84 | 1.87 | 1.88 | 1.86 | 1.00 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 54-2 | 50.99 | 52.92 | 50.93 | 51.62 | 2.19 | ppb |
| Iron | 56-2 | 48.90 | 49.76 | 49.04 | 49.23 | 0.94 | ppb |
| Iron | 57-2 | 49.36 | 48.93 | 47.21 | 48.50 | 2.35 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.88 | 0.91 | 0.90 | 0.90 | 1.64 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P8 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:20:50 | DataFile Name : | 027LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.89 | 0.94 | 0.91 | 0.91 | 3.03 | ppb |
| Lead | 208-1 | 0.89 | 0.93 | 0.91 | 0.91 | 2.10 | ppb |
| Lithium | 6-1 | | | | 115 | | % |
| Magnesium | 24-2 | 544.43 | 543.11 | 536.82 | 541.45 | 0.75 | ppb |
| Manganese | 55-2 | 0.96 | 1.02 | 1.00 | 1.00 | 3.28 | ppb |
| Molybdenum | 94-1 | 5.27 | 5.28 | 5.41 | 5.32 | 1.42 | ppb |
| Molybdenum | 95-1 | 4.42 | 4.40 | 4.52 | 4.45 | 1.45 | ppb |
| Molybdenum | 96-1 | 4.51 | 4.43 | 4.58 | 4.51 | 1.72 | ppb |
| Molybdenum | 97-1 | 4.47 | 4.42 | 4.52 | 4.47 | 1.15 | ppb |
| Molybdenum | 98-1 | 4.40 | 4.41 | 4.56 | 4.46 | 1.98 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.87 | 0.83 | 0.90 | 0.87 | 4.11 | ppb |
| Phosphorus | 31-2 | 29.89 | 29.32 | 18.94 | 26.05 | 23.67 | ppb |
| Potassium | 39-2 | 504.30 | 517.73 | 517.12 | 513.05 | 1.48 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 116 | | % |
| Scandium | 45-2 | | | | 117 | | % |
| Selenium | 82-1 | 4.74 | 5.01 | 4.99 | 4.91 | 3.12 | ppb |
| Selenium | 77-2 | 7.25 | 5.73 | 5.23 | 6.07 | 17.36 | ppb |
| Selenium | 78-2 | 5.06 | 4.95 | 5.29 | 5.10 | 3.36 | ppb |
| Silicon | 28-1 | 1.12 | 0.97 | 0.96 | 1.02 | 8.60 | ppb |
| Silver | 107-1 | 0.90 | 0.96 | 0.92 | 0.93 | 3.15 | ppb |
| Silver | 109-1 | 0.91 | 0.98 | 0.94 | 0.94 | 3.95 | ppb |
| Sodium | 23-2 | 561.22 | 568.64 | 563.39 | 564.42 | 0.68 | ppb |
| Strontium | 86-1 | 0.99 | 0.96 | 1.00 | 0.98 | 2.27 | ppb |
| Strontium | 88-1 | 1.00 | 1.01 | 1.03 | 1.01 | 1.28 | ppb |
| Sulfur | 34-1 | -173.62 | -258.09 | -255.86 | -229.19 | | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.83 | 0.89 | 0.85 | 0.86 | 3.22 | ppb |
| Thallium | 205-1 | 0.86 | 0.87 | 0.86 | 0.86 | 0.96 | ppb |
| Tin | 118-1 | 4.73 | 4.88 | 4.97 | 4.86 | 2.54 | ppb |
| Titanium | 47-1 | 4.77 | 4.67 | 4.63 | 4.69 | 1.50 | ppb |
| Uranium | 238-1 | 0.84 | 0.84 | 0.84 | 0.84 | 0.53 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P8 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:20:50 | DataFile Name : | 027LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4.72 | 4.85 | 4.74 | 4.77 | 1.51 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 4.55 | 4.52 | 4.45 | 4.51 | 1.11 | ppb |
| Zirconium | 90-1 | 0.85 | 0.87 | 0.90 | 0.87 | 3.27 | ppb |
| Zirconium | 91-1 | 0.84 | 0.87 | 0.89 | 0.87 | 3.21 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-12 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:24:11 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 36.74 | 35.57 | 35.80 | 36.04 | 1.71 | ppb |
| Antimony | 121-1 | 0.29 | 0.29 | 0.28 | 0.29 | 0.92 | ppb |
| Arsenic | 75-2 | 0.80 | 0.79 | 0.72 | 0.77 | 5.72 | ppb |
| Barium | 135-1 | 413.42 | 420.86 | 408.62 | 414.30 | 1.49 | ppb |
| Barium | 137-1 | 413.50 | 425.30 | 411.76 | 416.85 | 1.77 | ppb |
| Beryllium | 9-1 | -4.61 | -4.75 | -4.69 | -4.69 | | ppb |
| Bismuth | 209-1 | | | | 99 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.21 | 0.11 | 0.15 | 38.02 | ppb |
| Cadmium | 106-1 | -0.76 | -0.39 | -0.99 | -0.71 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.02 | -0.06 | -0.04 | | ppb |
| Calcium | 43-1 | 26942.32 | 27383.75 | 27326.79 | 27217.62 | 0.88 | ppb |
| Calcium | 44-1 | 26928.60 | 27086.05 | 27064.98 | 27026.54 | 0.32 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.32 | -1.30 | -1.32 | -1.31 | | ppb |
| Cobalt | 59-2 | 6.28 | 6.35 | 6.26 | 6.30 | 0.75 | ppb |
| Copper | 63-2 | 0.10 | 0.10 | 0.09 | 0.09 | 9.06 | 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 | | | | 105 | | % |
| Iron | 54-2 | 5607.32 | 5619.17 | 5536.19 | 5587.56 | 0.80 | ppb |
| Iron | 56-2 | 5481.41 | 5415.77 | 5354.58 | 5417.25 | 1.17 | ppb |
| Iron | 57-2 | 5204.79 | 5256.98 | 5099.81 | 5187.19 | 1.54 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.20 | 0.20 | 0.20 | 0.20 | 1.47 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-12 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:24:11 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.19 | 0.19 | 0.19 | 0.19 | 1.01 | ppb |
| Lead | 208-1 | 0.19 | 0.19 | 0.19 | 0.19 | 0.05 | ppb |
| Lithium | 6-1 | | | | 117 | | % |
| Magnesium | 24-2 | 8761.28 | 8790.91 | 8514.46 | 8688.88 | 1.75 | ppb |
| Manganese | 55-2 | 501.58 | 491.76 | 478.13 | 490.49 | 2.40 | ppb |
| Molybdenum | 94-1 | 15.90 | 16.34 | 16.07 | 16.10 | 1.37 | ppb |
| Molybdenum | 95-1 | 19.21 | 19.43 | 19.43 | 19.36 | 0.65 | ppb |
| Molybdenum | 96-1 | 18.75 | 19.11 | 18.89 | 18.92 | 0.97 | ppb |
| Molybdenum | 97-1 | 19.53 | 19.71 | 19.64 | 19.63 | 0.45 | ppb |
| Molybdenum | 98-1 | 19.41 | 19.23 | 19.28 | 19.31 | 0.48 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 8.20 | 8.35 | 7.85 | 8.13 | 3.16 | ppb |
| Phosphorus | 31-2 | 309.90 | 314.17 | 296.80 | 306.96 | 2.95 | ppb |
| Potassium | 39-2 | 8302.42 | 8261.96 | 8184.34 | 8249.57 | 0.73 | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 117 | | % |
| Scandium | 45-2 | | | | 117 | | % |
| Selenium | 82-1 | 0.28 | 0.41 | 0.40 | 0.36 | 19.21 | ppb |
| Selenium | 77-2 | -0.05 | -0.49 | -0.27 | -0.27 | | ppb |
| Selenium | 78-2 | 0.12 | 0.59 | 0.31 | 0.34 | 69.85 | ppb |
| Silicon | 28-1 | 2673.09 | 2709.30 | 2692.23 | 2691.54 | 0.67 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.71 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 3.38 | ppb |
| Sodium | 23-2 | 7519.11 | 7620.04 | 7318.95 | 7486.03 | 2.05 | ppb |
| Strontium | 86-1 | 259.22 | 267.01 | 265.48 | 263.91 | 1.56 | ppb |
| Strontium | 88-1 | 257.38 | 265.38 | 265.42 | 262.73 | 1.76 | ppb |
| Sulfur | 34-1 | 826.80 | 732.16 | 645.46 | 734.81 | 12.34 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.22 | 0.23 | 0.22 | 0.22 | 1.42 | ppb |
| Thallium | 205-1 | 0.22 | 0.23 | 0.23 | 0.23 | 0.94 | ppb |
| Tin | 118-1 | 0.29 | 0.30 | 0.29 | 0.29 | 1.86 | ppb |
| Titanium | 47-1 | 1.39 | 1.40 | 1.37 | 1.39 | 1.01 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.21 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-12 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:24:11 | DataFile Name : | 028AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.34 | 0.33 | 0.31 | 0.33 | 4.28 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 2.45 | 2.50 | 2.37 | 2.44 | 2.58 | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.65 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.02 | 0.02 | 6.49 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-13 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:27:23 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.98 | 2.78 | 2.80 | 2.85 | 3.82 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.83 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.08 | 0.07 | 0.06 | 0.07 | 12.31 | ppb |
| Barium | 137-1 | 0.07 | 0.05 | 0.06 | 0.06 | 13.75 | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | 51.88 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.02 | 0.01 | 0.01 | 112.18 | ppb |
| Cadmium | 106-1 | -0.72 | -0.94 | -0.84 | -0.83 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.07 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | -3.68 | -5.65 | -4.32 | -4.55 | | ppb |
| Calcium | 44-1 | 2.03 | 1.75 | 0.95 | 1.57 | 35.62 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.16 | -1.13 | -1.15 | -1.15 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.07 | 0.07 | 0.10 | 0.08 | 18.16 | 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 | | | | 102 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 54-2 | 9.86 | 10.57 | 11.10 | 10.51 | 5.92 | ppb |
| Iron | 56-2 | 11.29 | 11.60 | 12.01 | 11.64 | 3.12 | ppb |
| Iron | 57-2 | 11.98 | 11.26 | 12.31 | 11.85 | 4.54 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.09 | 0.09 | 4.08 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-13 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:27:23 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.10 | 0.08 | 0.09 | 0.09 | 6.71 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.09 | 0.09 | 0.45 | ppb |
| Lithium | 6-1 | | | | 115 | | % |
| Magnesium | 24-2 | 3.54 | 3.63 | 3.50 | 3.56 | 1.78 | ppb |
| Manganese | 55-2 | 1.47 | 1.46 | 1.54 | 1.49 | 2.92 | ppb |
| Molybdenum | 94-1 | 0.01 | 0.01 | 0.01 | 0.01 | 24.05 | 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 | -0.01 | -0.01 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | 122.06 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.44 | -0.45 | -0.44 | -0.44 | | ppb |
| Phosphorus | 31-2 | -9.90 | -9.72 | -7.64 | -9.09 | | ppb |
| Potassium | 39-2 | 32.62 | 31.92 | 36.32 | 33.62 | 7.03 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 116 | | % |
| Selenium | 82-1 | 0.18 | 0.15 | 0.02 | 0.11 | 75.24 | ppb |
| Selenium | 77-2 | -0.27 | -0.49 | -0.49 | -0.42 | | ppb |
| Selenium | 78-2 | 0.58 | -0.22 | 0.60 | 0.32 | 145.50 | ppb |
| Silicon | 28-1 | 1.69 | 1.78 | 1.81 | 1.76 | 3.44 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 22.93 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 10.62 | ppb |
| Sodium | 23-2 | 99.57 | 101.34 | 105.14 | 102.01 | 2.79 | ppb |
| Strontium | 86-1 | 0.04 | 0.05 | 0.05 | 0.05 | 11.14 | ppb |
| Strontium | 88-1 | 0.05 | 0.05 | 0.04 | 0.05 | 2.18 | ppb |
| Sulfur | 34-1 | -975.62 | -917.63 | -907.39 | -933.55 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.30 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.24 | ppb |
| Tin | 118-1 | 0.27 | 0.27 | 0.26 | 0.27 | 1.82 | ppb |
| Titanium | 47-1 | 0.06 | 0.07 | 0.05 | 0.06 | 17.56 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-13 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:27:23 | DataFile Name : | 029AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -1.03 | -1.05 | -1.18 | -1.09 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 18.93 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.00 | 0.00 | 32.90 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:30:44 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1547.76 | 1508.99 | 1510.02 | 1522.26 | 1.45 | ppb |
| Antimony | 121-1 | 1.72 | 1.76 | 1.76 | 1.75 | 1.06 | ppb |
| Arsenic | 75-2 | 0.93 | 0.97 | 0.91 | 0.93 | 3.34 | ppb |
| Barium | 135-1 | 116.84 | 119.85 | 119.96 | 118.88 | 1.49 | ppb |
| Barium | 137-1 | 124.07 | 125.11 | 124.30 | 124.49 | 0.44 | ppb |
| Beryllium | 9-1 | -10.05 | -10.16 | -10.03 | -10.08 | | ppb |
| Bismuth | 209-1 | | | | 95 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.57 | 0.62 | 0.56 | 0.58 | 4.76 | ppb |
| Cadmium | 106-1 | -0.71 | -0.61 | -0.72 | -0.68 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Calcium | 43-1 | 95352.24 | 94931.57 | 93262.99 | 94515.60 | 1.17 | ppb |
| Calcium | 44-1 | 93501.19 | 95223.89 | 91379.55 | 93368.21 | 2.06 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.36 | -1.36 | -1.38 | -1.37 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.02 | 0.02 | 13.76 | ppb |
| Copper | 63-2 | 0.11 | 0.12 | 0.11 | 0.11 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 54-2 | 36.97 | 36.09 | 35.82 | 36.30 | 1.66 | ppb |
| Iron | 56-2 | 37.50 | 36.26 | 36.46 | 36.74 | 1.82 | ppb |
| Iron | 57-2 | 41.87 | 39.82 | 39.10 | 40.26 | 3.57 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.12 | 0.11 | 0.12 | 0.12 | 2.95 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:30:44 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.13 | 0.11 | 0.12 | 0.12 | 5.21 | ppb |
| Lead | 208-1 | 0.12 | 0.11 | 0.12 | 0.12 | 4.05 | ppb |
| Lithium | 6-1 | | | | 114 | | % |
| Magnesium | 24-2 | 405.01 | 400.24 | 391.52 | 398.92 | 1.71 | ppb |
| Manganese | 55-2 | 9.61 | 9.32 | 9.35 | 9.43 | 1.72 | ppb |
| Molybdenum | 94-1 | 54.46 | 53.74 | 55.29 | 54.50 | 1.43 | ppb |
| Molybdenum | 95-1 | 69.14 | 69.30 | 71.26 | 69.90 | 1.69 | ppb |
| Molybdenum | 96-1 | 68.87 | 67.04 | 69.39 | 68.43 | 1.81 | ppb |
| Molybdenum | 97-1 | 66.93 | 66.73 | 67.22 | 66.96 | 0.37 | ppb |
| Molybdenum | 98-1 | 70.71 | 68.52 | 71.40 | 70.21 | 2.14 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 6.13 | 5.98 | 5.98 | 6.03 | 1.41 | ppb |
| Phosphorus | 31-2 | -5.59 | -6.89 | -1.76 | -4.75 | | ppb |
| Potassium | 39-2 | 25344.22 | 25096.21 | 24712.98 | 25051.14 | 1.27 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 113 | | % |
| Scandium | 45-2 | | | | 116 | | % |
| Selenium | 82-1 | 0.88 | 0.79 | 0.89 | 0.85 | 6.77 | ppb |
| Selenium | 77-2 | 0.62 | -0.05 | -0.05 | 0.17 | 220.72 | ppb |
| Selenium | 78-2 | 0.58 | 0.78 | 1.69 | 1.02 | 57.85 | ppb |
| Silicon | 28-1 | 596.56 | 602.11 | 594.05 | 597.57 | 0.69 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 6.15 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 30.83 | ppb |
| Sodium | 23-2 | 22564.34 | 21951.03 | 21625.71 | 22047.03 | 2.16 | ppb |
| Strontium | 86-1 | 534.64 | 536.81 | 551.50 | 540.98 | 1.70 | ppb |
| Strontium | 88-1 | 548.59 | 537.70 | 551.65 | 545.98 | 1.34 | ppb |
| Sulfur | 34-1 | 5365.02 | 5408.50 | 5357.15 | 5376.89 | 0.51 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.04 | 0.03 | 2.12 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 0.89 | ppb |
| Tin | 118-1 | 0.34 | 0.36 | 0.36 | 0.35 | 3.04 | ppb |
| Titanium | 47-1 | 0.35 | 0.35 | 0.33 | 0.35 | 3.43 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 12.81 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:30:44 | DataFile Name : | 030AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3.88 | 3.80 | 3.83 | 3.83 | 1.01 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -0.14 | -0.25 | -0.24 | -0.21 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.87 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.23 | ppb |

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On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14DUP | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:33:59 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1522.43 | 1520.10 | 1509.79 | 1517.44 | 0.44 | ppb |
| Antimony | 121-1 | 1.77 | 1.76 | 1.77 | 1.77 | 0.35 | ppb |
| Arsenic | 75-2 | 0.78 | 0.99 | 0.88 | 0.88 | 11.82 | ppb |
| Barium | 135-1 | 121.11 | 118.44 | 119.33 | 119.63 | 1.13 | ppb |
| Barium | 137-1 | 132.09 | 128.97 | 127.81 | 129.63 | 1.71 | ppb |
| Beryllium | 9-1 | -10.06 | -9.74 | -10.01 | -9.94 | | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.60 | 0.53 | 0.60 | 0.58 | 7.49 | ppb |
| Cadmium | 106-1 | -0.54 | -0.63 | -0.44 | -0.53 | | ppb |
| Cadmium | 111-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Calcium | 43-1 | 93338.40 | 92583.87 | 91892.33 | 92604.87 | 0.78 | ppb |
| Calcium | 44-1 | 93574.49 | 92552.29 | 90361.27 | 92162.68 | 1.78 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.37 | -1.37 | -1.36 | -1.37 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.02 | 0.02 | 0.23 | ppb |
| Copper | 63-2 | 0.14 | 0.14 | 0.12 | 0.13 | 5.84 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 54-2 | 37.50 | 36.55 | 37.09 | 37.05 | 1.29 | ppb |
| Iron | 56-2 | 37.49 | 37.79 | 36.96 | 37.41 | 1.13 | ppb |
| Iron | 57-2 | 40.64 | 40.14 | 41.37 | 40.72 | 1.52 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.16 | 0.17 | 0.17 | 0.17 | 0.42 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14DUP | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:33:59 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.16 | 0.17 | 0.16 | 0.16 | 3.52 | ppb |
| Lead | 208-1 | 0.16 | 0.16 | 0.16 | 0.16 | 1.74 | ppb |
| Lithium | 6-1 | | | | 116 | | % |
| Magnesium | 24-2 | 402.84 | 395.01 | 398.84 | 398.90 | 0.98 | ppb |
| Manganese | 55-2 | 6.69 | 6.78 | 6.94 | 6.80 | 1.85 | ppb |
| Molybdenum | 94-1 | 54.06 | 53.51 | 54.71 | 54.09 | 1.10 | ppb |
| Molybdenum | 95-1 | 68.65 | 67.43 | 68.70 | 68.26 | 1.05 | ppb |
| Molybdenum | 96-1 | 66.99 | 66.90 | 70.60 | 68.17 | 3.10 | ppb |
| Molybdenum | 97-1 | 65.48 | 66.35 | 66.96 | 66.26 | 1.13 | ppb |
| Molybdenum | 98-1 | 67.75 | 69.72 | 69.15 | 68.88 | 1.47 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 6.06 | 5.94 | 6.11 | 6.03 | 1.46 | ppb |
| Phosphorus | 31-2 | -4.13 | -7.20 | -1.43 | -4.26 | | ppb |
| Potassium | 39-2 | 24758.61 | 24741.69 | 24732.27 | 24744.19 | 0.05 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 117 | | % |
| Selenium | 82-1 | 0.85 | 0.85 | 0.79 | 0.83 | 4.31 | ppb |
| Selenium | 77-2 | -0.28 | 0.82 | -0.49 | 0.02 | 3761.72 | ppb |
| Selenium | 78-2 | 0.42 | 0.43 | 0.38 | 0.41 | 6.27 | ppb |
| Silicon | 28-1 | 591.58 | 591.26 | 577.60 | 586.81 | 1.36 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 51.53 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 | ppb |
| Sodium | 23-2 | 22141.11 | 22002.24 | 22040.90 | 22061.42 | 0.32 | ppb |
| Strontium | 86-1 | 536.85 | 543.36 | 540.71 | 540.31 | 0.61 | ppb |
| Strontium | 88-1 | 539.03 | 537.44 | 545.21 | 540.56 | 0.76 | ppb |
| Sulfur | 34-1 | 5167.74 | 5227.10 | 4927.26 | 5107.37 | 3.11 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.03 | 0.04 | 0.03 | 0.03 | 5.83 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.52 | ppb |
| Tin | 118-1 | 0.36 | 0.36 | 0.37 | 0.36 | 2.42 | ppb |
| Titanium | 47-1 | 0.32 | 0.34 | 0.34 | 0.33 | 3.32 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 38.73 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14DUP | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:33:59 | DataFile Name : | 031AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3.79 | 3.91 | 3.81 | 3.84 | 1.68 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 112 | | % |
| Zinc | 66-2 | -0.63 | -0.70 | -0.74 | -0.69 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.56 | ppb |
| Zirconium | 91-1 | 0.02 | 0.01 | 0.01 | 0.01 | 30.79 | ppb |

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On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-07 13:37:11 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 310.44 | 311.95 | 311.21 | 311.20 | 0.24 | ppb |
| Antimony | 121-1 | 0.36 | 0.35 | 0.35 | 0.35 | 1.96 | ppb |
| Arsenic | 75-2 | 0.20 | 0.23 | 0.18 | 0.20 | 11.90 | ppb |
| Barium | 135-1 | 23.75 | 24.28 | 23.69 | 23.91 | 1.36 | ppb |
| Barium | 137-1 | 23.84 | 24.61 | 24.38 | 24.27 | 1.63 | ppb |
| Beryllium | 9-1 | -2.07 | -2.00 | -2.04 | -2.03 | | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.17 | 0.08 | 0.12 | 34.44 | ppb |
| Cadmium | 106-1 | -0.92 | -0.55 | -0.92 | -0.80 | | ppb |
| Cadmium | 111-1 | -0.07 | -0.04 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | 18987.81 | 19485.52 | 19411.16 | 19294.83 | 1.39 | ppb |
| Calcium | 44-1 | 18838.89 | 18950.84 | 19117.38 | 18969.04 | 0.74 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.29 | -1.29 | -1.29 | -1.29 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.06 | 0.07 | 0.07 | 0.06 | 10.96 | 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 | | | | 101 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 54-2 | 2.07 | 2.23 | 1.95 | 2.08 | 6.65 | ppb |
| Iron | 56-2 | 2.72 | 2.89 | 2.90 | 2.84 | 3.60 | ppb |
| Iron | 57-2 | 4.45 | 4.20 | 4.20 | 4.28 | 3.47 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.03 | 0.04 | 0.04 | 0.04 | 11.35 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-07 13:37:11 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.04 | 0.05 | 0.04 | 0.04 | 7.78 | ppb |
| Lead | 208-1 | 0.04 | 0.05 | 0.04 | 0.04 | 8.61 | ppb |
| Lithium | 6-1 | | | | 113 | | % |
| Magnesium | 24-2 | 80.76 | 82.04 | 81.73 | 81.51 | 0.82 | ppb |
| Manganese | 55-2 | 2.41 | 2.41 | 2.47 | 2.43 | 1.51 | ppb |
| Molybdenum | 94-1 | 11.07 | 11.23 | 11.00 | 11.10 | 1.06 | ppb |
| Molybdenum | 95-1 | 13.14 | 13.65 | 13.10 | 13.30 | 2.28 | ppb |
| Molybdenum | 96-1 | 12.91 | 13.06 | 12.98 | 12.98 | 0.58 | ppb |
| Molybdenum | 97-1 | 13.33 | 13.68 | 13.43 | 13.48 | 1.33 | ppb |
| Molybdenum | 98-1 | 13.10 | 13.43 | 13.33 | 13.29 | 1.26 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.68 | 0.78 | 0.70 | 0.72 | 7.44 | ppb |
| Phosphorus | 31-2 | -21.05 | -19.72 | -11.24 | -17.33 | | ppb |
| Potassium | 39-2 | 5167.36 | 5166.68 | 5158.03 | 5164.02 | 0.10 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 113 | | % |
| Selenium | 82-1 | 0.11 | 0.06 | 0.12 | 0.10 | 33.16 | ppb |
| Selenium | 77-2 | -0.04 | -0.49 | -0.49 | -0.34 | | ppb |
| Selenium | 78-2 | -0.01 | 0.29 | 0.46 | 0.25 | 94.78 | ppb |
| Silicon | 28-1 | 119.08 | 118.62 | 119.73 | 119.14 | 0.47 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 7.91 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 66.01 | ppb |
| Sodium | 23-2 | 4542.69 | 4530.73 | 4439.49 | 4504.30 | 1.25 | ppb |
| Strontium | 86-1 | 110.82 | 110.25 | 112.82 | 111.30 | 1.21 | ppb |
| Strontium | 88-1 | 111.51 | 111.61 | 110.36 | 111.16 | 0.62 | ppb |
| Sulfur | 34-1 | 1316.81 | 1407.85 | 1399.96 | 1374.87 | 3.67 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.21 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.01 | 0.01 | 7.90 | ppb |
| Tin | 118-1 | 0.07 | 0.08 | 0.07 | 0.07 | 7.05 | ppb |
| Titanium | 47-1 | 0.09 | 0.08 | 0.08 | 0.08 | 6.20 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-07 13:37:11 | DataFile Name : | 032AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.81 | 0.76 | 0.78 | 0.78 | 3.18 | 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 | -1.22 | -1.28 | -1.23 | -1.24 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.78 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.04 | 0.03 | 9.53 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-15 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:40:28 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10662.85 | 10704.37 | 10818.75 | 10728.66 | 0.75 | ppb |
| Antimony | 121-1 | 508.30 | 514.20 | 518.80 | 513.77 | 1.02 | ppb |
| Arsenic | 75-2 | 0.96 | 1.05 | 0.95 | 0.98 | 5.59 | ppb |
| Barium | 135-1 | 2353.95 | 2342.09 | 2386.75 | 2360.93 | 0.98 | ppb |
| Barium | 137-1 | 2355.51 | 2363.32 | 2404.28 | 2374.37 | 1.10 | ppb |
| Beryllium | 9-1 | 470.18 | 464.89 | 470.91 | 468.66 | 0.70 | ppb |
| Bismuth | 209-1 | | | | 93 | | % |
| Bismuth | 209-2 | | | | 92 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 473.16 | 466.27 | 475.99 | 471.81 | 1.06 | ppb |
| Cadmium | 106-1 | 487.74 | 491.67 | 495.53 | 491.65 | 0.79 | ppb |
| Cadmium | 111-1 | 507.24 | 500.63 | 511.83 | 506.57 | 1.11 | ppb |
| Calcium | 43-1 | 133980.03 | 138694.14 | 138660.50 | 137111.56 | 1.98 | ppb |
| Calcium | 44-1 | 133982.68 | 135523.11 | 137244.44 | 135583.41 | 1.20 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 469.06 | 468.13 | 472.38 | 469.86 | 0.48 | ppb |
| Cobalt | 59-2 | 473.64 | 464.79 | 467.39 | 468.61 | 0.97 | ppb |
| Copper | 63-2 | 4242.39 | 4170.82 | 4228.49 | 4213.90 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 99 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 54-2 | 22649.56 | 22138.16 | 22735.56 | 22507.76 | 1.43 | ppb |
| Iron | 56-2 | 21761.09 | 21597.31 | 21711.77 | 21690.06 | 0.39 | ppb |
| Iron | 57-2 | 21506.32 | 21464.86 | 21792.46 | 21587.88 | 0.83 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2345.06 | 2401.31 | 2415.69 | 2387.35 | 1.56 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-15 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:40:28 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2392.38 | 2426.93 | 2436.80 | 2418.70 | 0.96 | ppb |
| Lead | 208-1 | 2374.28 | 2415.47 | 2416.11 | 2401.96 | 1.00 | ppb |
| Lithium | 6-1 | | | | 116 | | % |
| Magnesium | 24-2 | 52704.41 | 51737.80 | 52923.09 | 52455.10 | 1.20 | ppb |
| Manganese | 55-2 | 4397.67 | 4305.59 | 4382.06 | 4361.77 | 1.13 | ppb |
| Molybdenum | 94-1 | 2307.63 | 2319.94 | 2285.93 | 2304.50 | 0.75 | ppb |
| Molybdenum | 95-1 | 1776.63 | 1763.03 | 1751.10 | 1763.58 | 0.72 | ppb |
| Molybdenum | 96-1 | 1839.52 | 1823.96 | 1819.30 | 1827.59 | 0.58 | ppb |
| Molybdenum | 97-1 | 1781.21 | 1767.87 | 1776.74 | 1775.27 | 0.38 | ppb |
| Molybdenum | 98-1 | 1770.89 | 1778.48 | 1776.19 | 1775.19 | 0.22 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 468.20 | 470.68 | 471.91 | 470.27 | 0.40 | ppb |
| Phosphorus | 31-2 | -9.58 | -1.52 | 1.08 | -3.34 | | ppb |
| Potassium | 39-2 | 45755.77 | 45114.51 | 44821.45 | 45230.58 | 1.06 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 112 | | % |
| Scandium | 45-2 | | | | 121 | | % |
| Selenium | 82-1 | 480.23 | 477.04 | 480.96 | 479.41 | 0.43 | ppb |
| Selenium | 77-2 | 494.59 | 497.58 | 485.17 | 492.45 | 1.32 | ppb |
| Selenium | 78-2 | 491.35 | 487.65 | 499.64 | 492.88 | 1.25 | ppb |
| Silicon | 28-1 | 533.02 | 551.66 | 555.65 | 546.78 | 2.21 | ppb |
| Silver | 107-1 | 80.02 | 80.00 | 80.70 | 80.24 | 0.49 | ppb |
| Silver | 109-1 | 80.75 | 78.64 | 80.65 | 80.01 | 1.49 | ppb |
| Sodium | 23-2 | 71808.14 | 69995.42 | 72668.53 | 71490.70 | 1.91 | ppb |
| Strontium | 86-1 | 1078.57 | 1090.76 | 1085.44 | 1084.92 | 0.56 | ppb |
| Strontium | 88-1 | 1084.15 | 1077.57 | 1082.17 | 1081.30 | 0.31 | ppb |
| Sulfur | 34-1 | 4388.30 | 4588.09 | 4586.29 | 4520.90 | 2.54 | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 449.41 | 463.75 | 468.01 | 460.39 | 2.12 | ppb |
| Thallium | 205-1 | 445.65 | 460.11 | 466.03 | 457.27 | 2.29 | ppb |
| Tin | 118-1 | 453.99 | 457.15 | 468.79 | 459.97 | 1.69 | ppb |
| Titanium | 47-1 | 1.89 | 1.94 | 1.97 | 1.93 | 2.07 | ppb |
| Uranium | 238-1 | 471.82 | 477.48 | 477.52 | 475.61 | 0.69 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-15 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:40:28 | DataFile Name : | 033AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 500.36 | 503.53 | 504.65 | 502.85 | 0.44 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 4229.78 | 4206.04 | 4272.19 | 4236.00 | 0.79 | ppb |
| Zirconium | 90-1 | 470.26 | 469.70 | 472.46 | 470.81 | 0.31 | ppb |
| Zirconium | 91-1 | 462.22 | 459.49 | 464.77 | 462.16 | 0.57 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-16 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:43:14 | DataFile Name : | 034AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10487.31 | 10751.03 | 10722.89 | 10653.75 | 1.36 | ppb |
| Antimony | 121-1 | 503.46 | 525.65 | 505.14 | 511.42 | 2.42 | ppb |
| Arsenic | 75-2 | 0.96 | 0.98 | 0.91 | 0.95 | 4.10 | ppb |
| Barium | 135-1 | 2343.99 | 2415.31 | 2337.42 | 2365.57 | 1.83 | ppb |
| Barium | 137-1 | 2361.52 | 2361.51 | 2299.02 | 2340.68 | 1.54 | ppb |
| Beryllium | 9-1 | 470.52 | 488.67 | 476.06 | 478.42 | 1.94 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 93 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 474.83 | 478.02 | 462.49 | 471.78 | 1.74 | ppb |
| Cadmium | 106-1 | 494.46 | 495.07 | 488.33 | 492.62 | 0.76 | ppb |
| Cadmium | 111-1 | 502.58 | 507.58 | 494.75 | 501.64 | 1.29 | ppb |
| Calcium | 43-1 | 134895.45 | 134245.74 | 136330.52 | 135157.24 | 0.79 | ppb |
| Calcium | 44-1 | 132073.57 | 132894.78 | 136608.49 | 133858.94 | 1.81 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 473.92 | 476.24 | 471.40 | 473.85 | 0.51 | ppb |
| Cobalt | 59-2 | 468.51 | 467.39 | 462.86 | 466.26 | 0.64 | ppb |
| Copper | 63-2 | 4261.72 | 4160.40 | 4196.38 | 4206.17 | 1.22 | 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 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 54-2 | 22803.05 | 22606.17 | 22261.32 | 22556.85 | 1.22 | ppb |
| Iron | 56-2 | 21566.95 | 22004.01 | 21730.60 | 21767.19 | 1.01 | ppb |
| Iron | 57-2 | 21571.77 | 22141.21 | 21874.16 | 21862.38 | 1.30 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2397.11 | 2454.40 | 2431.51 | 2427.67 | 1.19 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-16 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:43:14 | DataFile Name : | 034AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2434.35 | 2502.91 | 2436.80 | 2458.02 | 1.58 | ppb |
| Lead | 208-1 | 2409.88 | 2470.97 | 2437.96 | 2439.60 | 1.25 | ppb |
| Lithium | 6-1 | | | | 116 | | % |
| Magnesium | 24-2 | 52515.38 | 52739.14 | 53351.16 | 52868.56 | 0.82 | ppb |
| Manganese | 55-2 | 4407.43 | 4390.03 | 4351.94 | 4383.13 | 0.65 | ppb |
| Molybdenum | 94-1 | 2287.14 | 2368.47 | 2337.88 | 2331.16 | 1.76 | ppb |
| Molybdenum | 95-1 | 1765.54 | 1815.33 | 1809.47 | 1796.78 | 1.51 | ppb |
| Molybdenum | 96-1 | 1825.66 | 1887.19 | 1878.20 | 1863.68 | 1.78 | ppb |
| Molybdenum | 97-1 | 1783.83 | 1823.65 | 1825.81 | 1811.10 | 1.31 | ppb |
| Molybdenum | 98-1 | 1761.55 | 1788.54 | 1829.19 | 1793.09 | 1.90 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 469.58 | 480.81 | 471.23 | 473.87 | 1.28 | ppb |
| Phosphorus | 31-2 | -6.13 | -1.05 | -3.31 | -3.49 | | ppb |
| Potassium | 39-2 | 45900.61 | 45541.03 | 45330.39 | 45590.68 | 0.63 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 115 | | % |
| Scandium | 45-2 | | | | 121 | | % |
| Selenium | 82-1 | 484.13 | 491.53 | 484.73 | 486.80 | 0.84 | ppb |
| Selenium | 77-2 | 506.79 | 498.93 | 504.16 | 503.29 | 0.79 | ppb |
| Selenium | 78-2 | 501.90 | 503.73 | 488.05 | 497.89 | 1.72 | ppb |
| Silicon | 28-1 | 548.46 | 544.39 | 548.19 | 547.01 | 0.42 | ppb |
| Silver | 107-1 | 78.31 | 80.93 | 78.20 | 79.15 | 1.95 | ppb |
| Silver | 109-1 | 79.91 | 80.90 | 77.95 | 79.59 | 1.89 | ppb |
| Sodium | 23-2 | 72072.60 | 74210.05 | 72534.21 | 72938.95 | 1.54 | ppb |
| Strontium | 86-1 | 1078.19 | 1094.96 | 1094.03 | 1089.06 | 0.87 | ppb |
| Strontium | 88-1 | 1084.97 | 1107.69 | 1093.62 | 1095.43 | 1.05 | ppb |
| Sulfur | 34-1 | 4126.88 | 4041.67 | 4276.79 | 4148.45 | 2.87 | ppb |
| Terbium | 159-1 | | | | 99 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 465.44 | 479.14 | 480.50 | 475.03 | 1.75 | ppb |
| Thallium | 205-1 | 457.73 | 472.34 | 478.08 | 469.39 | 2.24 | ppb |
| Tin | 118-1 | 460.46 | 478.24 | 452.69 | 463.80 | 2.82 | ppb |
| Titanium | 47-1 | 1.97 | 2.07 | 1.99 | 2.01 | 2.68 | ppb |
| Uranium | 238-1 | 477.92 | 482.07 | 478.49 | 479.49 | 0.47 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-16 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:43:14 | DataFile Name : | 034AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 499.11 | 504.57 | 501.37 | 501.68 | 0.55 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | 4181.48 | 4235.12 | 4241.34 | 4219.31 | 0.78 | ppb |
| Zirconium | 90-1 | 465.78 | 482.65 | 479.82 | 476.08 | 1.90 | ppb |
| Zirconium | 91-1 | 460.78 | 478.07 | 470.97 | 469.94 | 1.85 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:58:04 | DataFile Name : | 036CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 53314.82 | 53516.74 | 49742.30 | 52191.29 | 4.07 | ppb |
| Antimony | 121-1 | 522.22 | 503.01 | 507.13 | 510.79 | 1.98 | ppb |
| Arsenic | 75-2 | 492.44 | 485.71 | 458.87 | 479.00 | 3.71 | ppb |
| Barium | 135-1 | 2583.13 | 2476.67 | 2543.70 | 2534.50 | 2.12 | ppb |
| Barium | 137-1 | 2562.85 | 2465.02 | 2558.33 | 2528.73 | 2.18 | ppb |
| Beryllium | 9-1 | 519.03 | 502.61 | 516.28 | 512.64 | 1.72 | ppb |
| Bismuth | 209-1 | | | | 80 | | % |
| Bismuth | 209-2 | | | | 83 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 501.60 | 491.40 | 493.35 | 495.45 | 1.09 | ppb |
| Cadmium | 106-1 | 502.59 | 487.59 | 492.81 | 494.33 | 1.54 | ppb |
| Cadmium | 111-1 | 510.07 | 483.42 | 505.34 | 499.61 | 2.85 | ppb |
| Calcium | 43-1 | 264490.75 | 257744.38 | 257120.74 | 259785.29 | 1.57 | ppb |
| Calcium | 44-1 | 264401.41 | 261838.40 | 258506.59 | 261582.13 | 1.13 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 506.39 | 499.61 | 471.04 | 492.34 | 3.81 | ppb |
| Cobalt | 59-2 | 468.23 | 462.23 | 443.39 | 457.95 | 2.83 | ppb |
| Copper | 63-2 | 4933.09 | 4768.19 | 4601.01 | 4767.43 | 3.48 | 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 | | | | 88 | | % |
| Holmium | 165-2 | | | | 94 | | % |
| Indium | 115-1 | | | | 84 | | % |
| Indium | 115-2 | | | | 89 | | % |
| Iron | 54-2 | 124422.59 | 123280.75 | 116690.42 | 121464.59 | 3.44 | ppb |
| Iron | 56-2 | 122271.04 | 121958.46 | 118003.54 | 120744.35 | 1.97 | ppb |
| Iron | 57-2 | 120733.74 | 119941.32 | 116085.06 | 118920.04 | 2.09 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2497.31 | 2477.81 | 2471.07 | 2482.06 | 0.55 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:58:04 | DataFile Name : | 036CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2461.12 | 2477.20 | 2462.79 | 2467.04 | 0.36 | ppb |
| Lead | 208-1 | 2488.49 | 2462.15 | 2484.71 | 2478.45 | 0.57 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 265361.55 | 262663.53 | 250552.42 | 259525.83 | 3.04 | ppb |
| Manganese | 55-2 | 4956.06 | 4935.93 | 4711.44 | 4867.81 | 2.79 | ppb |
| Molybdenum | 94-1 | 4952.60 | 4834.06 | 4957.89 | 4914.85 | 1.42 | ppb |
| Molybdenum | 95-1 | 4897.27 | 4826.26 | 4982.81 | 4902.11 | 1.60 | ppb |
| Molybdenum | 96-1 | 4907.81 | 4945.03 | 4971.65 | 4941.50 | 0.65 | ppb |
| Molybdenum | 97-1 | 4972.14 | 4975.61 | 4971.04 | 4972.93 | 0.05 | ppb |
| Molybdenum | 98-1 | 4881.47 | 4832.18 | 4965.05 | 4892.90 | 1.37 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 468.20 | 455.56 | 454.06 | 459.27 | 1.69 | ppb |
| Phosphorus | 31-2 | 10872.01 | 10778.14 | 10176.29 | 10608.81 | 3.56 | ppb |
| Potassium | 39-2 | 132179.19 | 129763.85 | 123187.29 | 128376.78 | 3.63 | ppb |
| Rhodium | 103-1 | | | | 82 | | % |
| Rhodium | 103-2 | | | | 87 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | 471.29 | 467.80 | 475.22 | 471.44 | 0.79 | ppb |
| Selenium | 77-2 | 491.80 | 494.55 | 464.20 | 483.52 | 3.47 | ppb |
| Selenium | 78-2 | 501.91 | 495.54 | 458.72 | 485.39 | 4.80 | ppb |
| Silicon | 28-1 | 563.10 | 554.68 | 544.07 | 553.95 | 1.72 | ppb |
| Silver | 107-1 | 498.58 | 481.98 | 494.94 | 491.83 | 1.77 | ppb |
| Silver | 109-1 | 505.86 | 491.02 | 496.74 | 497.87 | 1.50 | ppb |
| Sodium | 23-2 | 276907.57 | 270674.66 | 260636.75 | 269406.33 | 3.05 | ppb |
| Strontium | 86-1 | 498.58 | 502.59 | 507.15 | 502.78 | 0.85 | ppb |
| Strontium | 88-1 | 502.50 | 506.24 | 511.28 | 506.68 | 0.87 | ppb |
| Sulfur | 34-1 | 11499.39 | 11182.02 | 10913.40 | 11198.27 | 2.62 | ppb |
| Terbium | 159-1 | | | | 89 | | % |
| Terbium | 159-2 | | | | 93 | | % |
| Thallium | 203-1 | 498.78 | 504.76 | 490.00 | 497.85 | 1.49 | ppb |
| Thallium | 205-1 | 501.59 | 503.97 | 498.72 | 501.43 | 0.52 | ppb |
| Tin | 118-1 | 519.68 | 505.42 | 502.07 | 509.06 | 1.84 | ppb |
| Titanium | 47-1 | 5028.39 | 5010.81 | 4941.05 | 4993.42 | 0.93 | ppb |
| Uranium | 238-1 | 506.50 | 505.59 | 506.41 | 506.17 | 0.10 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:58:04 | DataFile Name : | 036CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 516.84 | 511.52 | 480.43 | 502.93 | 3.91 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 94 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 4892.56 | 4696.31 | 4630.74 | 4739.87 | 2.87 | ppb |
| Zirconium | 90-1 | 499.46 | 489.40 | 498.41 | 495.76 | 1.12 | ppb |
| Zirconium | 91-1 | 499.72 | 486.13 | 505.98 | 497.28 | 2.04 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:05:27 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.10 | 0.59 | 0.60 | 0.43 | 66.62 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.02 | 0.03 | 13.14 | ppb |
| Arsenic | 75-2 | 0.01 | 0.00 | 0.01 | 0.01 | 86.25 | ppb |
| Barium | 135-1 | 0.03 | 0.04 | 0.02 | 0.03 | 28.45 | ppb |
| Barium | 137-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.74 | ppb |
| Beryllium | 9-1 | 0.02 | 0.03 | 0.03 | 0.03 | 8.78 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.02 | 0.01 | 0.01 | 39.82 | ppb |
| Cadmium | 106-1 | -0.80 | -0.84 | -0.88 | -0.84 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.06 | -0.06 | -0.06 | | ppb |
| Calcium | 43-1 | -9.56 | -6.70 | -7.52 | -7.93 | | ppb |
| Calcium | 44-1 | -2.99 | -2.44 | -3.55 | -3.00 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.31 | -0.33 | -0.23 | -0.29 | | ppb |
| Cobalt | 59-2 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | 0.06 | 0.06 | 0.06 | 0.06 | 7.40 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 97 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | -1.10 | -0.89 | -0.82 | -0.93 | | ppb |
| Iron | 56-2 | -0.67 | -0.81 | -0.90 | -0.80 | | ppb |
| Iron | 57-2 | -1.32 | 0.11 | -0.91 | -0.71 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.09 | 0.09 | 3.35 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:05:27 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.09 | 0.09 | 0.09 | 0.09 | 2.51 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.09 | 0.09 | 3.40 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 1.76 | 1.84 | 2.14 | 1.91 | 10.56 | ppb |
| Manganese | 55-2 | -0.02 | 0.01 | -0.01 | -0.01 | | ppb |
| Molybdenum | 94-1 | 0.08 | 0.07 | 0.08 | 0.08 | 4.85 | ppb |
| Molybdenum | 95-1 | 0.06 | 0.05 | 0.06 | 0.06 | 7.21 | ppb |
| Molybdenum | 96-1 | 0.07 | 0.05 | 0.06 | 0.06 | 12.93 | ppb |
| Molybdenum | 97-1 | 0.06 | 0.05 | 0.05 | 0.05 | 12.21 | ppb |
| Molybdenum | 98-1 | 0.06 | 0.06 | 0.06 | 0.06 | 5.52 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.23 | -0.20 | -0.24 | -0.23 | | ppb |
| Phosphorus | 31-2 | -22.46 | -20.60 | -17.42 | -20.16 | | ppb |
| Potassium | 39-2 | 29.37 | 30.77 | 30.56 | 30.23 | 2.51 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 0.14 | 0.01 | -0.04 | 0.04 | 261.73 | ppb |
| Selenium | 77-2 | -0.26 | -0.49 | -0.49 | -0.41 | | ppb |
| Selenium | 78-2 | 0.69 | 0.84 | 0.22 | 0.58 | 55.04 | ppb |
| Silicon | 28-1 | 0.08 | 0.15 | 0.04 | 0.09 | 63.34 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.21 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 14.50 | ppb |
| Sodium | 23-2 | 38.94 | 37.45 | 38.71 | 38.37 | 2.10 | ppb |
| Strontium | 86-1 | 0.01 | 0.00 | 0.00 | 0.00 | 106.37 | ppb |
| Strontium | 88-1 | 0.01 | 0.00 | 0.01 | 0.01 | 14.46 | ppb |
| Sulfur | 34-1 | -372.21 | -245.55 | -272.59 | -296.78 | | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 97 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.00 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.12 | ppb |
| Tin | 118-1 | -0.04 | -0.05 | -0.05 | -0.05 | | ppb |
| Titanium | 47-1 | 0.53 | 0.06 | 0.07 | 0.22 | 122.33 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 10.07 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:05:27 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.00 | 87.61 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | -0.95 | -0.96 | -0.99 | -0.97 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 3.70 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 31.42 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14A | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:08:49 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10801.09 | 10781.05 | 10610.71 | 10730.95 | 0.97 | ppb |
| Antimony | 121-1 | 506.27 | 510.97 | 509.96 | 509.07 | 0.49 | ppb |
| Arsenic | 75-2 | 0.96 | 1.10 | 0.97 | 1.01 | 7.41 | ppb |
| Barium | 135-1 | 2297.08 | 2344.88 | 2358.61 | 2333.53 | 1.38 | ppb |
| Barium | 137-1 | 2339.33 | 2307.13 | 2337.86 | 2328.11 | 0.78 | ppb |
| Beryllium | 9-1 | 467.95 | 475.42 | 481.27 | 474.88 | 1.41 | ppb |
| Bismuth | 209-1 | | | | 89 | | % |
| Bismuth | 209-2 | | | | 89 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 459.89 | 456.99 | 458.87 | 458.58 | 0.32 | ppb |
| Cadmium | 106-1 | 483.25 | 484.54 | 493.54 | 487.11 | 1.15 | ppb |
| Cadmium | 111-1 | 491.82 | 498.94 | 491.06 | 493.94 | 0.88 | ppb |
| Calcium | 43-1 | 132186.85 | 133839.22 | 136212.82 | 134079.63 | 1.51 | ppb |
| Calcium | 44-1 | 131071.79 | 131616.33 | 135774.56 | 132820.89 | 1.94 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 478.09 | 472.85 | 476.04 | 475.66 | 0.56 | ppb |
| Cobalt | 59-2 | 467.97 | 467.09 | 466.04 | 467.03 | 0.21 | ppb |
| Copper | 63-2 | 4233.57 | 4148.25 | 4218.26 | 4200.03 | 1.08 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 95 | | % |
| Holmium | 165-2 | | | | 96 | | % |
| Indium | 115-1 | | | | 92 | | % |
| Indium | 115-2 | | | | 93 | | % |
| Iron | 54-2 | 22520.07 | 22149.81 | 22547.77 | 22405.88 | 0.99 | ppb |
| Iron | 56-2 | 21880.17 | 21788.23 | 21808.98 | 21825.79 | 0.22 | ppb |
| Iron | 57-2 | 21965.58 | 21441.82 | 21429.27 | 21612.22 | 1.42 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2362.34 | 2343.42 | 2365.22 | 2356.99 | 0.50 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14A | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:08:49 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2388.92 | 2379.24 | 2400.96 | 2389.70 | 0.46 | ppb |
| Lead | 208-1 | 2370.85 | 2371.09 | 2391.73 | 2377.89 | 0.50 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 51882.53 | 51927.08 | 52254.77 | 52021.46 | 0.39 | ppb |
| Manganese | 55-2 | 4406.34 | 4358.39 | 4371.22 | 4378.65 | 0.57 | ppb |
| Molybdenum | 94-1 | 2292.22 | 2258.77 | 2288.16 | 2279.72 | 0.80 | ppb |
| Molybdenum | 95-1 | 1750.09 | 1726.56 | 1767.59 | 1748.08 | 1.18 | ppb |
| Molybdenum | 96-1 | 1792.78 | 1796.99 | 1814.04 | 1801.27 | 0.62 | ppb |
| Molybdenum | 97-1 | 1747.42 | 1750.93 | 1780.62 | 1759.66 | 1.04 | ppb |
| Molybdenum | 98-1 | 1730.00 | 1741.64 | 1776.66 | 1749.43 | 1.39 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 480.08 | 472.47 | 471.62 | 474.72 | 0.98 | ppb |
| Phosphorus | 31-2 | -6.56 | -8.41 | -2.42 | -5.80 | | ppb |
| Potassium | 39-2 | 45522.68 | 45164.05 | 46346.72 | 45677.82 | 1.33 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 117 | | % |
| Selenium | 82-1 | 473.01 | 473.22 | 478.05 | 474.76 | 0.60 | ppb |
| Selenium | 77-2 | 494.62 | 502.51 | 501.94 | 499.69 | 0.88 | ppb |
| Selenium | 78-2 | 501.92 | 505.38 | 503.75 | 503.68 | 0.34 | ppb |
| Silicon | 28-1 | 538.89 | 561.01 | 558.29 | 552.73 | 2.18 | ppb |
| Silver | 107-1 | 77.71 | 79.30 | 81.16 | 79.39 | 2.18 | ppb |
| Silver | 109-1 | 78.11 | 79.69 | 78.24 | 78.68 | 1.11 | ppb |
| Sodium | 23-2 | 71994.72 | 72132.98 | 71763.50 | 71963.73 | 0.26 | ppb |
| Strontium | 86-1 | 1061.94 | 1076.07 | 1080.76 | 1072.93 | 0.91 | ppb |
| Strontium | 88-1 | 1074.15 | 1087.79 | 1092.69 | 1084.88 | 0.89 | ppb |
| Sulfur | 34-1 | 4217.17 | 4229.52 | 4331.38 | 4259.35 | 1.47 | ppb |
| Terbium | 159-1 | | | | 95 | | % |
| Terbium | 159-2 | | | | 96 | | % |
| Thallium | 203-1 | 450.29 | 456.11 | 458.93 | 455.11 | 0.97 | ppb |
| Thallium | 205-1 | 443.10 | 454.76 | 459.07 | 452.31 | 1.83 | ppb |
| Tin | 118-1 | 452.26 | 458.49 | 454.12 | 454.96 | 0.70 | ppb |
| Titanium | 47-1 | 1.86 | 1.97 | 1.99 | 1.94 | 3.46 | ppb |
| Uranium | 238-1 | 461.82 | 465.59 | 478.82 | 468.74 | 1.91 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14A | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:08:49 | DataFile Name : | 038AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 503.12 | 500.11 | 511.74 | 504.99 | 1.20 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 4219.90 | 4231.39 | 4259.94 | 4237.08 | 0.49 | ppb |
| Zirconium | 90-1 | 466.46 | 465.41 | 475.12 | 469.00 | 1.14 | ppb |
| Zirconium | 91-1 | 465.82 | 461.58 | 461.97 | 463.12 | 0.51 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-05 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:11:39 | DataFile Name : | 039AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.07 | 2.51 | 3.00 | 2.86 | 10.69 | ppb |
| Antimony | 121-1 | 0.03 | 0.02 | 0.02 | 0.03 | 11.36 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | 0.01 | 0.00 | | ppb |
| Barium | 135-1 | 0.13 | 0.11 | 0.10 | 0.11 | 14.08 | ppb |
| Barium | 137-1 | 0.11 | 0.10 | 0.10 | 0.11 | 5.01 | ppb |
| Beryllium | 9-1 | 0.05 | 0.04 | 0.04 | 0.05 | 5.60 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.03 | 0.03 | 0.03 | 16.31 | ppb |
| Cadmium | 106-1 | -0.69 | -0.84 | -0.92 | -0.82 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.05 | -0.06 | -0.04 | | ppb |
| Calcium | 43-1 | -6.32 | -6.85 | -7.41 | -6.86 | | ppb |
| Calcium | 44-1 | -1.43 | -1.44 | -1.25 | -1.37 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.36 | -1.37 | -1.36 | -1.36 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.12 | 0.09 | 0.12 | 0.11 | 12.07 | 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 | | | | 98 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | -4.30 | -4.66 | -3.96 | -4.31 | | ppb |
| Iron | 56-2 | -3.53 | -3.47 | -3.43 | -3.47 | | ppb |
| Iron | 57-2 | -3.00 | -3.31 | -3.26 | -3.19 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.27 | 0.23 | 0.21 | 0.23 | 11.70 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-05 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:11:39 | DataFile Name : | 039AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.26 | 0.23 | 0.21 | 0.23 | 11.13 | ppb |
| Lead | 208-1 | 0.26 | 0.22 | 0.21 | 0.23 | 12.37 | ppb |
| Lithium | 6-1 | | | | 113 | | % |
| Magnesium | 24-2 | 2.98 | 2.77 | 2.44 | 2.73 | 9.83 | ppb |
| Manganese | 55-2 | 0.64 | 0.65 | 0.68 | 0.66 | 3.57 | ppb |
| Molybdenum | 94-1 | 0.16 | 0.15 | 0.13 | 0.14 | 11.12 | ppb |
| Molybdenum | 95-1 | 0.06 | 0.04 | 0.03 | 0.05 | 33.77 | ppb |
| Molybdenum | 96-1 | 0.08 | 0.06 | 0.05 | 0.06 | 24.38 | ppb |
| Molybdenum | 97-1 | 0.06 | 0.05 | 0.03 | 0.05 | 25.30 | ppb |
| Molybdenum | 98-1 | 0.06 | 0.05 | 0.04 | 0.05 | 27.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.61 | -0.65 | -0.63 | -0.63 | | ppb |
| Phosphorus | 31-2 | -16.55 | -6.35 | -17.44 | -13.44 | | ppb |
| Potassium | 39-2 | 38.16 | 37.73 | 38.07 | 37.99 | 0.60 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 113 | | % |
| Selenium | 82-1 | 0.09 | 0.05 | 0.05 | 0.06 | 34.81 | ppb |
| Selenium | 77-2 | -0.49 | -0.26 | -0.49 | -0.41 | | ppb |
| Selenium | 78-2 | 0.01 | 0.08 | 0.70 | 0.26 | 145.96 | ppb |
| Silicon | 28-1 | 1.59 | 1.74 | 1.73 | 1.69 | 5.01 | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 18.24 | ppb |
| Silver | 109-1 | 0.02 | 0.02 | 0.01 | 0.02 | 22.79 | ppb |
| Sodium | 23-2 | 64.00 | 62.02 | 62.22 | 62.75 | 1.74 | ppb |
| Strontium | 86-1 | 0.08 | 0.06 | 0.05 | 0.06 | 26.72 | ppb |
| Strontium | 88-1 | 0.06 | 0.06 | 0.06 | 0.06 | 4.21 | ppb |
| Sulfur | 34-1 | -343.28 | -187.57 | -169.61 | -233.48 | | ppb |
| Terbium | 159-1 | | | | 98 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.13 | 0.10 | 0.08 | 0.10 | 22.75 | ppb |
| Thallium | 205-1 | 0.12 | 0.09 | 0.08 | 0.10 | 20.83 | ppb |
| Tin | 118-1 | 0.20 | 0.20 | 0.22 | 0.21 | 5.46 | ppb |
| Titanium | 47-1 | 0.07 | 0.06 | 0.06 | 0.06 | 7.92 | ppb |
| Uranium | 238-1 | 0.01 | 0.01 | 0.00 | 0.01 | 35.14 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-05 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:11:39 | DataFile Name : | 039AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.00 | 154.49 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -1.26 | -1.19 | -1.33 | -1.26 | | ppb |
| Zirconium | 90-1 | 0.05 | 0.05 | 0.04 | 0.04 | 11.58 | ppb |
| Zirconium | 91-1 | 0.06 | 0.05 | 0.04 | 0.05 | 11.11 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-06 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:14:59 | DataFile Name : | 040AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.85 | 2.28 | 2.46 | 2.53 | 11.37 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.01 | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 0.00 | 70.26 | ppb |
| Barium | 135-1 | 0.06 | 0.06 | 0.07 | 0.06 | 2.58 | ppb |
| Barium | 137-1 | 0.06 | 0.05 | 0.04 | 0.05 | 17.21 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.43 | ppb |
| Bismuth | 209-1 | | | | 98 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.01 | 0.00 | 0.01 | 83.05 | ppb |
| Cadmium | 106-1 | -0.89 | -1.02 | -0.66 | -0.85 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.07 | -0.04 | -0.06 | | ppb |
| Calcium | 43-1 | -7.77 | -6.70 | -5.94 | -6.80 | | ppb |
| Calcium | 44-1 | -0.44 | 4.07 | 1.09 | 1.57 | 145.91 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.42 | -1.40 | -1.41 | -1.41 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Copper | 63-2 | 0.08 | 0.08 | 0.08 | 0.08 | 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 | | | | 98 | | % |
| Holmium | 165-2 | | | | 97 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 54-2 | -6.41 | -6.30 | -5.86 | -6.19 | | ppb |
| Iron | 56-2 | -4.97 | -4.95 | -5.04 | -4.98 | | ppb |
| Iron | 57-2 | -4.68 | -5.19 | -4.69 | -4.85 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.11 | 0.10 | 0.10 | 0.10 | 4.53 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-06 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:14:59 | DataFile Name : | 040AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.11 | 0.10 | 0.11 | 0.10 | 5.49 | ppb |
| Lead | 208-1 | 0.10 | 0.10 | 0.10 | 0.10 | 1.72 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 6.18 | 6.20 | 6.07 | 6.15 | 1.18 | ppb |
| Manganese | 55-2 | 2.93 | 3.03 | 2.85 | 2.94 | 3.01 | ppb |
| Molybdenum | 94-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.53 | ppb |
| Molybdenum | 95-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 97-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Molybdenum | 98-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.61 | -0.60 | -0.61 | -0.61 | | ppb |
| Phosphorus | 31-2 | -13.89 | -20.00 | -12.61 | -15.50 | | ppb |
| Potassium | 39-2 | 35.61 | 34.73 | 33.55 | 34.63 | 2.98 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 0.26 | -0.09 | 0.06 | 0.08 | 222.47 | ppb |
| Selenium | 77-2 | -0.49 | -0.49 | -0.26 | -0.41 | | ppb |
| Selenium | 78-2 | 0.23 | 0.15 | 0.49 | 0.29 | 61.58 | ppb |
| Silicon | 28-1 | 1.38 | 1.50 | 1.68 | 1.52 | 9.77 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.69 | ppb |
| Silver | 109-1 | 0.01 | 0.00 | 0.01 | 0.01 | 11.28 | ppb |
| Sodium | 23-2 | 77.58 | 76.53 | 74.75 | 76.29 | 1.88 | ppb |
| Strontium | 86-1 | 0.07 | 0.05 | 0.06 | 0.06 | 9.60 | ppb |
| Strontium | 88-1 | 0.06 | 0.06 | 0.07 | 0.06 | 3.73 | ppb |
| Sulfur | 34-1 | -292.48 | -215.36 | -79.98 | -195.94 | | ppb |
| Terbium | 159-1 | | | | 97 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 0.04 | 0.03 | 0.04 | 0.04 | 12.12 | ppb |
| Thallium | 205-1 | 0.04 | 0.03 | 0.03 | 0.03 | 9.45 | ppb |
| Tin | 118-1 | 0.38 | 0.35 | 0.38 | 0.37 | 4.34 | ppb |
| Titanium | 47-1 | 0.05 | 0.07 | 0.06 | 0.06 | 14.65 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 104.33 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-06 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:14:59 | DataFile Name : | 040AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | -0.01 | 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 | | | | 106 | | % |
| Zinc | 66-2 | -1.15 | -1.12 | -1.08 | -1.12 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.75 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.02 | 0.01 | 10.68 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:18:21 | DataFile Name : | 041AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 12.62 | 13.28 | 12.09 | 12.66 | 4.72 | ppb |
| Antimony | 121-1 | 0.18 | 0.18 | 0.19 | 0.19 | 1.49 | ppb |
| Arsenic | 75-2 | 41.13 | 42.51 | 43.09 | 42.25 | 2.39 | ppb |
| Barium | 135-1 | 1.11 | 1.13 | 1.15 | 1.13 | 1.55 | ppb |
| Barium | 137-1 | 1.12 | 1.14 | 1.13 | 1.13 | 0.98 | ppb |
| Beryllium | 9-1 | -0.13 | -0.14 | -0.13 | -0.13 | | ppb |
| Bismuth | 209-1 | | | | 117 | | % |
| Bismuth | 209-2 | | | | 118 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.83 | 0.45 | 0.25 | 0.51 | 57.95 | ppb |
| Cadmium | 106-1 | 1.37 | 0.53 | 0.21 | 0.70 | 85.00 | ppb |
| Cadmium | 111-1 | 0.08 | 0.03 | 0.02 | 0.04 | 71.39 | ppb |
| Calcium | 43-1 | 4138.85 | 4061.08 | 4087.28 | 4095.74 | 0.97 | ppb |
| Calcium | 44-1 | 4738.40 | 4724.05 | 4710.39 | 4724.28 | 0.30 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -1.01 | -1.03 | -1.03 | -1.02 | | ppb |
| Cobalt | 59-2 | 0.42 | 0.39 | 0.37 | 0.40 | 5.76 | ppb |
| Copper | 63-2 | 0.65 | 0.64 | 0.59 | 0.63 | 5.41 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 119 | | % |
| Indium | 115-1 | | | | 121 | | % |
| Indium | 115-2 | | | | 122 | | % |
| Iron | 54-2 | 20736.00 | 20450.34 | 19144.38 | 20110.24 | 4.22 | ppb |
| Iron | 56-2 | 20521.90 | 20337.07 | 19108.38 | 19989.12 | 3.84 | ppb |
| Iron | 57-2 | 20375.60 | 20260.59 | 19154.27 | 19930.15 | 3.38 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.21 | 0.22 | 0.22 | 0.22 | 3.50 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:18:21 | DataFile Name : | 041AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.22 | 0.22 | 0.22 | 0.22 | 0.65 | ppb |
| Lead | 208-1 | 0.21 | 0.22 | 0.21 | 0.21 | 0.37 | ppb |
| Lithium | 6-1 | | | | 139 | | % |
| Magnesium | 24-2 | 840.98 | 841.15 | 794.16 | 825.43 | 3.28 | ppb |
| Manganese | 55-2 | 671.43 | 672.15 | 638.89 | 660.82 | 2.87 | ppb |
| Molybdenum | 94-1 | 11.80 | 6.30 | 4.31 | 7.47 | 51.95 | ppb |
| Molybdenum | 95-1 | 0.24 | 0.22 | 0.23 | 0.23 | 3.55 | ppb |
| Molybdenum | 96-1 | 1.51 | 0.92 | 0.75 | 1.06 | 37.77 | ppb |
| Molybdenum | 97-1 | 0.22 | 0.22 | 0.21 | 0.22 | 2.27 | ppb |
| Molybdenum | 98-1 | 0.22 | 0.22 | 0.22 | 0.22 | 0.71 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.33 | -0.32 | -0.33 | -0.33 | | ppb |
| Phosphorus | 31-2 | 18.50 | 18.90 | 16.80 | 18.07 | 6.17 | ppb |
| Potassium | 39-2 | 4736.78 | 4714.24 | 4568.70 | 4673.24 | 1.95 | ppb |
| Rhodium | 103-1 | | | | 122 | | % |
| Rhodium | 103-2 | | | | 126 | | % |
| Scandium | 45-1 | | | | 136 | | % |
| Scandium | 45-2 | | | | 136 | | % |
| Selenium | 82-1 | 29.12 | 32.48 | 32.14 | 31.25 | 5.92 | ppb |
| Selenium | 77-2 | 31.21 | 30.30 | 28.96 | 30.16 | 3.75 | ppb |
| Selenium | 78-2 | 29.71 | 30.25 | 32.04 | 30.67 | 3.98 | ppb |
| Silicon | 28-1 | 180.91 | 181.14 | 184.18 | 182.07 | 1.00 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 27.53 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.60 | ppb |
| Sodium | 23-2 | 7677.83 | 7669.54 | 7158.26 | 7501.87 | 3.97 | ppb |
| Strontium | 86-1 | 8.34 | 8.34 | 8.40 | 8.36 | 0.40 | ppb |
| Strontium | 88-1 | 8.21 | 8.40 | 8.34 | 8.32 | 1.18 | ppb |
| Sulfur | 34-1 | 462.65 | 194.68 | 177.53 | 278.28 | 57.46 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 117 | | % |
| Thallium | 203-1 | 0.14 | 0.11 | 0.10 | 0.12 | 15.92 | ppb |
| Thallium | 205-1 | 0.13 | 0.12 | 0.10 | 0.12 | 14.35 | ppb |
| Tin | 118-1 | 0.10 | 0.12 | 0.13 | 0.12 | 10.76 | ppb |
| Titanium | 47-1 | 0.32 | 0.34 | 0.31 | 0.32 | 5.20 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 2.48 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:18:21 | DataFile Name : | 041AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.05 | 0.04 | 0.04 | 0.04 | 5.31 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 124 | | % |
| Yttrium | 89-2 | | | | 130 | | % |
| Zinc | 66-2 | 16.13 | 15.67 | 15.06 | 15.62 | 3.42 | ppb |
| Zirconium | 90-1 | 6.42 | 3.29 | 2.26 | 3.99 | 54.35 | ppb |
| Zirconium | 91-1 | 6.30 | 3.24 | 2.23 | 3.92 | 53.91 | ppb |

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On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:21:35 | DataFile Name : | 042AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49.03 | 49.20 | 49.48 | 49.24 | 0.46 | ppb |
| Antimony | 121-1 | 0.19 | 0.18 | 0.18 | 0.18 | 1.74 | ppb |
| Arsenic | 75-2 | 67.50 | 68.13 | 68.45 | 68.02 | 0.71 | ppb |
| Barium | 135-1 | 1.94 | 1.94 | 1.92 | 1.94 | 0.53 | ppb |
| Barium | 137-1 | 1.92 | 1.90 | 1.94 | 1.92 | 1.11 | ppb |
| Beryllium | 9-1 | -0.09 | -0.09 | -0.08 | -0.09 | | ppb |
| Bismuth | 209-1 | | | | 126 | | % |
| Bismuth | 209-2 | | | | 128 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.09 | 0.12 | 0.12 | 0.11 | 15.03 | ppb |
| Cadmium | 106-1 | 0.05 | 0.03 | 0.02 | 0.03 | 43.65 | ppb |
| Cadmium | 111-1 | 0.01 | 0.00 | 0.01 | 0.01 | 51.46 | ppb |
| Calcium | 43-1 | 2070.53 | 2112.18 | 2121.38 | 2101.36 | 1.29 | ppb |
| Calcium | 44-1 | 2940.34 | 2870.45 | 2886.47 | 2899.09 | 1.26 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.74 | -0.75 | -0.78 | -0.76 | | ppb |
| Cobalt | 59-2 | 0.09 | 0.09 | 0.08 | 0.09 | 7.35 | ppb |
| Copper | 63-2 | 0.84 | 0.85 | 0.83 | 0.84 | 1.33 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 128 | | % |
| Holmium | 165-2 | | | | 131 | | % |
| Indium | 115-1 | | | | 133 | | % |
| Indium | 115-2 | | | | 146 | | % |
| Iron | 54-2 | 23184.13 | 22893.35 | 23192.73 | 23090.07 | 0.74 | ppb |
| Iron | 56-2 | 22939.05 | 22668.88 | 22712.97 | 22773.63 | 0.64 | ppb |
| Iron | 57-2 | 22825.45 | 22822.32 | 22643.48 | 22763.75 | 0.46 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.51 | 0.52 | 0.52 | 0.52 | 1.02 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:21:35 | DataFile Name : | 042AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.51 | 0.51 | 0.51 | 0.51 | 0.47 | ppb |
| Lead | 208-1 | 0.51 | 0.52 | 0.51 | 0.51 | 0.81 | ppb |
| Lithium | 6-1 | | | | 151 | | % |
| Magnesium | 24-2 | 687.71 | 680.46 | 690.02 | 686.07 | 0.73 | ppb |
| Manganese | 55-2 | 768.90 | 773.41 | 763.61 | 768.64 | 0.64 | ppb |
| Molybdenum | 94-1 | 1.65 | 1.39 | 1.31 | 1.45 | 12.07 | ppb |
| Molybdenum | 95-1 | 0.19 | 0.19 | 0.20 | 0.19 | 3.72 | ppb |
| Molybdenum | 96-1 | 0.44 | 0.41 | 0.41 | 0.42 | 3.48 | ppb |
| Molybdenum | 97-1 | 0.19 | 0.18 | 0.20 | 0.19 | 4.19 | ppb |
| Molybdenum | 98-1 | 0.19 | 0.19 | 0.20 | 0.19 | 1.17 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.42 | -0.40 | -0.44 | -0.42 | | ppb |
| Phosphorus | 31-2 | 13.44 | 8.76 | 10.97 | 11.06 | 21.14 | ppb |
| Potassium | 39-2 | 305.81 | 303.27 | 304.44 | 304.51 | 0.42 | ppb |
| Rhodium | 103-1 | | | | 136 | | % |
| Rhodium | 103-2 | | | | 141 | | % |
| Scandium | 45-1 | | | | 152 | | % |
| Scandium | 45-2 | | | | 153 | | % |
| Selenium | 82-1 | 31.02 | 32.07 | 33.19 | 32.10 | 3.38 | ppb |
| Selenium | 77-2 | 33.60 | 36.16 | 27.02 | 32.26 | 14.62 | ppb |
| Selenium | 78-2 | 30.77 | 29.66 | 29.51 | 29.98 | 2.30 | ppb |
| Silicon | 28-1 | 228.00 | 237.96 | 240.01 | 235.32 | 2.73 | ppb |
| Silver | 107-1 | 0.01 | 0.00 | 0.01 | 0.01 | 11.83 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 14.61 | ppb |
| Sodium | 23-2 | 4199.49 | 4146.87 | 4173.54 | 4173.30 | 0.63 | ppb |
| Strontium | 86-1 | 5.31 | 5.24 | 5.44 | 5.33 | 1.87 | ppb |
| Strontium | 88-1 | 5.38 | 5.29 | 5.40 | 5.36 | 1.11 | ppb |
| Sulfur | 34-1 | -333.96 | -309.59 | -294.77 | -312.78 | | ppb |
| Terbium | 159-1 | | | | 129 | | % |
| Terbium | 159-2 | | | | 129 | | % |
| Thallium | 203-1 | 0.08 | 0.07 | 0.06 | 0.07 | 11.96 | ppb |
| Thallium | 205-1 | 0.08 | 0.07 | 0.07 | 0.07 | 10.18 | ppb |
| Tin | 118-1 | 0.17 | 0.16 | 0.19 | 0.17 | 7.41 | ppb |
| Titanium | 47-1 | 1.29 | 0.90 | 0.85 | 1.01 | 23.82 | ppb |
| Uranium | 238-1 | 0.01 | 0.00 | 0.00 | 0.01 | 8.85 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:21:35 | DataFile Name : | 042AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.09 | 0.08 | 0.08 | 0.08 | 5.72 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 138 | | % |
| Yttrium | 89-2 | | | | 145 | | % |
| Zinc | 66-2 | 4.26 | 4.06 | 4.17 | 4.16 | 2.47 | ppb |
| Zirconium | 90-1 | 0.81 | 0.68 | 0.63 | 0.71 | 12.49 | ppb |
| Zirconium | 91-1 | 0.81 | 0.69 | 0.65 | 0.72 | 11.59 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:33:21 | DataFile Name : | 043AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4.34 | 3.59 | 3.44 | 3.79 | 12.75 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.06 | 0.06 | 1.86 | ppb |
| Arsenic | 75-2 | 5.33 | 5.43 | 5.79 | 5.52 | 4.36 | ppb |
| Barium | 135-1 | 0.34 | 0.34 | 0.33 | 0.34 | 1.58 | ppb |
| Barium | 137-1 | 0.35 | 0.33 | 0.36 | 0.35 | 3.40 | ppb |
| Beryllium | 9-1 | -0.04 | -0.04 | -0.04 | -0.04 | | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 112 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.06 | 0.02 | 0.08 | 0.05 | 53.56 | ppb |
| Cadmium | 106-1 | -0.08 | -0.43 | -0.18 | -0.23 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.03 | -0.02 | -0.02 | | ppb |
| Calcium | 43-1 | 1276.16 | 1299.22 | 1316.04 | 1297.14 | 1.54 | ppb |
| Calcium | 44-1 | 1583.94 | 1606.47 | 1589.30 | 1593.24 | 0.74 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.20 | -0.24 | -0.23 | -0.22 | | ppb |
| Cobalt | 59-2 | 0.13 | 0.13 | 0.13 | 0.13 | 3.63 | ppb |
| Copper | 63-2 | 0.11 | 0.10 | 0.08 | 0.10 | 13.99 | 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 | | | | 110 | | % |
| Holmium | 165-2 | | | | 113 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 116 | | % |
| Iron | 54-2 | 7129.36 | 6976.40 | 6966.65 | 7024.13 | 1.30 | ppb |
| Iron | 56-2 | 6908.64 | 6861.17 | 6799.01 | 6856.28 | 0.80 | ppb |
| Iron | 57-2 | 7016.78 | 6897.71 | 6880.50 | 6931.66 | 1.07 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.05 | 0.05 | 0.05 | 0.05 | 8.07 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:33:21 | DataFile Name : | 043AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.05 | 0.06 | 0.06 | 0.05 | 13.37 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 3.40 | ppb |
| Lithium | 6-1 | | | | 130 | | % |
| Magnesium | 24-2 | 298.12 | 292.68 | 290.26 | 293.69 | 1.37 | ppb |
| Manganese | 55-2 | 221.21 | 221.71 | 216.01 | 219.64 | 1.44 | ppb |
| Molybdenum | 94-1 | 0.73 | 0.63 | 0.58 | 0.65 | 11.61 | ppb |
| Molybdenum | 95-1 | 0.08 | 0.09 | 0.09 | 0.09 | 5.37 | ppb |
| Molybdenum | 96-1 | 0.18 | 0.17 | 0.16 | 0.17 | 3.47 | ppb |
| Molybdenum | 97-1 | 0.08 | 0.07 | 0.08 | 0.08 | 4.75 | ppb |
| Molybdenum | 98-1 | 0.09 | 0.07 | 0.09 | 0.08 | 8.05 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.18 | -0.18 | -0.17 | -0.17 | | ppb |
| Phosphorus | 31-2 | -6.28 | -11.29 | -11.13 | -9.57 | | ppb |
| Potassium | 39-2 | 1686.76 | 1674.73 | 1670.54 | 1677.34 | 0.50 | ppb |
| Rhodium | 103-1 | | | | 115 | | % |
| Rhodium | 103-2 | | | | 121 | | % |
| Scandium | 45-1 | | | | 126 | | % |
| Scandium | 45-2 | | | | 131 | | % |
| Selenium | 82-1 | 5.36 | 6.20 | 6.71 | 6.09 | 11.17 | ppb |
| Selenium | 77-2 | 6.88 | 7.43 | 4.41 | 6.24 | 25.76 | ppb |
| Selenium | 78-2 | 7.57 | 7.24 | 7.51 | 7.44 | 2.40 | ppb |
| Silicon | 28-1 | 71.28 | 73.35 | 76.06 | 73.57 | 3.26 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 23.42 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 9.03 | ppb |
| Sodium | 23-2 | 2809.79 | 2816.84 | 2761.03 | 2795.88 | 1.09 | ppb |
| Strontium | 86-1 | 2.80 | 2.78 | 2.80 | 2.79 | 0.55 | ppb |
| Strontium | 88-1 | 2.82 | 2.77 | 2.83 | 2.80 | 1.21 | ppb |
| Sulfur | 34-1 | 276.76 | 292.82 | 362.80 | 310.79 | 14.72 | ppb |
| Terbium | 159-1 | | | | 110 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.84 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.74 | ppb |
| Tin | 118-1 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Titanium | 47-1 | 0.10 | 0.10 | 0.10 | 0.10 | 2.83 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:33:21 | DataFile Name : | 043AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.02 | 0.02 | 0.01 | 0.02 | 8.89 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 118 | | % |
| Yttrium | 89-2 | | | | 124 | | % |
| Zinc | 66-2 | 3.92 | 3.84 | 3.73 | 3.83 | 2.52 | ppb |
| Zirconium | 90-1 | 0.37 | 0.31 | 0.28 | 0.32 | 14.09 | ppb |
| Zirconium | 91-1 | 0.35 | 0.31 | 0.30 | 0.32 | 8.30 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:36:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 18.24 | 18.64 | 17.56 | 18.15 | 3.03 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.07 | 0.06 | 5.16 | ppb |
| Arsenic | 75-2 | 8.97 | 9.34 | 9.41 | 9.24 | 2.58 | ppb |
| Barium | 135-1 | 0.65 | 0.67 | 0.65 | 0.66 | 2.25 | ppb |
| Barium | 137-1 | 0.67 | 0.68 | 0.68 | 0.67 | 1.35 | ppb |
| Beryllium | 9-1 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 114 | | % |
| Bismuth | 209-2 | | | | 117 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.06 | 0.04 | 0.03 | 0.05 | 32.07 | ppb |
| Cadmium | 106-1 | -0.30 | 0.06 | -0.23 | -0.15 | | ppb |
| Cadmium | 111-1 | -0.02 | 0.01 | -0.02 | -0.01 | | ppb |
| Calcium | 43-1 | 771.46 | 774.08 | 773.17 | 772.90 | 0.17 | ppb |
| Calcium | 44-1 | 1149.34 | 1174.95 | 1127.38 | 1150.56 | 2.07 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.11 | -0.09 | -0.13 | -0.11 | | ppb |
| Cobalt | 59-2 | 0.03 | 0.02 | 0.02 | 0.02 | 7.23 | ppb |
| Copper | 63-2 | 0.10 | 0.11 | 0.11 | 0.11 | 6.82 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 114 | | % |
| Holmium | 165-2 | | | | 117 | | % |
| Indium | 115-1 | | | | 119 | | % |
| Indium | 115-2 | | | | 121 | | % |
| Iron | 54-2 | 7868.87 | 7898.45 | 7767.92 | 7845.08 | 0.87 | ppb |
| Iron | 56-2 | 7791.91 | 7676.63 | 7720.58 | 7729.71 | 0.75 | ppb |
| Iron | 57-2 | 7984.67 | 7757.39 | 7900.43 | 7880.83 | 1.46 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.16 | 0.17 | 0.18 | 0.17 | 3.50 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:36:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.16 | 0.17 | 0.18 | 0.17 | 4.30 | ppb |
| Lead | 208-1 | 0.16 | 0.16 | 0.17 | 0.17 | 4.32 | ppb |
| Lithium | 6-1 | | | | 137 | | % |
| Magnesium | 24-2 | 253.45 | 253.54 | 251.07 | 252.69 | 0.55 | ppb |
| Manganese | 55-2 | 261.76 | 255.17 | 260.14 | 259.02 | 1.33 | ppb |
| Molybdenum | 94-1 | 0.38 | 0.40 | 0.40 | 0.39 | 3.86 | ppb |
| Molybdenum | 95-1 | 0.07 | 0.08 | 0.07 | 0.07 | 7.40 | ppb |
| Molybdenum | 96-1 | 0.14 | 0.13 | 0.13 | 0.13 | 3.23 | ppb |
| Molybdenum | 97-1 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | ppb |
| Molybdenum | 98-1 | 0.08 | 0.07 | 0.07 | 0.08 | 2.31 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.19 | -0.18 | -0.21 | -0.19 | | ppb |
| Phosphorus | 31-2 | -13.77 | -13.47 | -12.98 | -13.41 | | ppb |
| Potassium | 39-2 | 122.87 | 120.99 | 122.02 | 121.96 | 0.77 | ppb |
| Rhodium | 103-1 | | | | 121 | | % |
| Rhodium | 103-2 | | | | 127 | | % |
| Scandium | 45-1 | | | | 135 | | % |
| Scandium | 45-2 | | | | 137 | | % |
| Selenium | 82-1 | 8.86 | 10.02 | 10.76 | 9.88 | 9.69 | ppb |
| Selenium | 77-2 | 11.91 | 9.55 | 10.03 | 10.50 | 11.84 | ppb |
| Selenium | 78-2 | 10.36 | 11.81 | 9.86 | 10.68 | 9.52 | ppb |
| Silicon | 28-1 | 96.63 | 101.19 | 100.37 | 99.40 | 2.45 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 21.96 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 8.64 | ppb |
| Sodium | 23-2 | 1659.12 | 1658.57 | 1646.85 | 1654.85 | 0.42 | ppb |
| Strontium | 86-1 | 1.96 | 2.00 | 1.93 | 1.96 | 1.93 | ppb |
| Strontium | 88-1 | 1.97 | 1.96 | 1.99 | 1.97 | 0.55 | ppb |
| Sulfur | 34-1 | 46.68 | -63.61 | -76.99 | -31.31 | | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 115 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.03 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.42 | ppb |
| Tin | 118-1 | 0.02 | 0.02 | 0.01 | 0.02 | 14.45 | ppb |
| Titanium | 47-1 | 0.27 | 0.28 | 0.27 | 0.27 | 1.54 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:36:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.03 | 0.05 | 0.04 | 0.04 | 15.48 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 123 | | % |
| Yttrium | 89-2 | | | | 131 | | % |
| Zinc | 66-2 | -0.24 | -0.24 | -0.21 | -0.23 | | ppb |
| Zirconium | 90-1 | 0.18 | 0.18 | 0.18 | 0.18 | 1.08 | ppb |
| Zirconium | 91-1 | 0.17 | 0.19 | 0.19 | 0.18 | 3.76 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:39:54 | DataFile Name : | 045AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3.17 | 3.29 | 2.91 | 3.12 | 6.23 | ppb |
| Antimony | 121-1 | 0.04 | 0.03 | 0.03 | 0.03 | 5.86 | ppb |
| Arsenic | 75-2 | 1.99 | 2.08 | 2.19 | 2.09 | 4.65 | ppb |
| Barium | 135-1 | 0.18 | 0.19 | 0.19 | 0.19 | 4.85 | ppb |
| Barium | 137-1 | 0.18 | 0.18 | 0.19 | 0.18 | 3.01 | ppb |
| Beryllium | 9-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | 0.00 | 0.02 | 0.01 | 90.65 | ppb |
| Cadmium | 106-1 | -0.52 | -0.66 | -0.67 | -0.62 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.05 | -0.05 | -0.05 | | ppb |
| Calcium | 43-1 | 643.00 | 644.52 | 658.80 | 648.77 | 1.34 | ppb |
| Calcium | 44-1 | 803.61 | 805.48 | 845.07 | 818.05 | 2.86 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.24 | -0.26 | -0.27 | -0.26 | | ppb |
| Cobalt | 59-2 | 0.08 | 0.07 | 0.07 | 0.07 | 6.79 | ppb |
| Copper | 63-2 | 0.05 | 0.05 | 0.04 | 0.05 | 15.44 | 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 | | | | 105 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 54-2 | 4103.76 | 4082.83 | 3945.29 | 4043.96 | 2.13 | ppb |
| Iron | 56-2 | 3970.34 | 3954.20 | 3807.80 | 3910.78 | 2.29 | ppb |
| Iron | 57-2 | 3695.65 | 3685.14 | 3627.99 | 3669.59 | 0.99 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.03 | 0.02 | 0.03 | 0.03 | 14.35 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:39:54 | DataFile Name : | 045AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.02 | 0.03 | 0.03 | 0.03 | 9.17 | ppb |
| Lead | 208-1 | 0.03 | 0.03 | 0.03 | 0.03 | 5.47 | ppb |
| Lithium | 6-1 | | | | 124 | | % |
| Magnesium | 24-2 | 160.14 | 160.54 | 157.05 | 159.25 | 1.20 | ppb |
| Manganese | 55-2 | 122.87 | 123.45 | 119.97 | 122.10 | 1.53 | ppb |
| Molybdenum | 94-1 | 0.23 | 0.22 | 0.22 | 0.22 | 1.51 | ppb |
| Molybdenum | 95-1 | 0.04 | 0.04 | 0.04 | 0.04 | 0.57 | ppb |
| Molybdenum | 96-1 | 0.08 | 0.08 | 0.08 | 0.08 | 1.40 | ppb |
| Molybdenum | 97-1 | 0.04 | 0.04 | 0.04 | 0.04 | 2.62 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.04 | 0.04 | 3.30 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.22 | -0.19 | -0.18 | -0.20 | | ppb |
| Phosphorus | 31-2 | -10.76 | -14.62 | -17.17 | -14.18 | | ppb |
| Potassium | 39-2 | 914.29 | 936.73 | 907.63 | 919.55 | 1.66 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 112 | | % |
| Scandium | 45-1 | | | | 121 | | % |
| Scandium | 45-2 | | | | 121 | | % |
| Selenium | 82-1 | 2.43 | 2.82 | 2.88 | 2.71 | 8.96 | ppb |
| Selenium | 77-2 | 2.00 | 2.05 | 2.06 | 2.04 | 1.57 | ppb |
| Selenium | 78-2 | 2.24 | 3.05 | 3.26 | 2.85 | 18.92 | ppb |
| Silicon | 28-1 | 39.38 | 40.36 | 41.81 | 40.52 | 3.01 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 55.16 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 114.40 | ppb |
| Sodium | 23-2 | 1573.39 | 1561.10 | 1505.56 | 1546.68 | 2.34 | ppb |
| Strontium | 86-1 | 1.53 | 1.51 | 1.49 | 1.51 | 1.26 | ppb |
| Strontium | 88-1 | 1.52 | 1.51 | 1.50 | 1.51 | 0.75 | ppb |
| Sulfur | 34-1 | -8.77 | 54.66 | 242.49 | 96.12 | 135.93 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.05 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 5.95 | ppb |
| Tin | 118-1 | -0.03 | -0.04 | -0.04 | -0.04 | | ppb |
| Titanium | 47-1 | 0.05 | 0.06 | 0.05 | 0.05 | 13.30 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:39:54 | DataFile Name : | 045AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 22.27 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 117 | | % |
| Zinc | 66-2 | 1.69 | 2.01 | 1.77 | 1.82 | 9.15 | ppb |
| Zirconium | 90-1 | 0.10 | 0.10 | 0.10 | 0.10 | 1.83 | ppb |
| Zirconium | 91-1 | 0.10 | 0.10 | 0.10 | 0.10 | 3.08 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:43:27 | DataFile Name : | 046AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9.82 | 8.99 | 9.77 | 9.53 | 4.89 | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.03 | 0.03 | 5.35 | ppb |
| Arsenic | 75-2 | 2.19 | 2.19 | 2.27 | 2.22 | 2.03 | ppb |
| Barium | 135-1 | 0.37 | 0.34 | 0.35 | 0.35 | 3.88 | ppb |
| Barium | 137-1 | 0.34 | 0.33 | 0.34 | 0.34 | 1.71 | ppb |
| Beryllium | 9-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.03 | 0.00 | 0.01 | 88.89 | ppb |
| Cadmium | 106-1 | -0.88 | -0.70 | -0.95 | -0.84 | | ppb |
| Cadmium | 111-1 | -0.07 | -0.05 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | 383.59 | 387.45 | 399.92 | 390.32 | 2.19 | ppb |
| Calcium | 44-1 | 591.61 | 579.61 | 605.02 | 592.08 | 2.15 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.15 | -0.21 | -0.25 | -0.20 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 25.24 | ppb |
| Copper | 63-2 | 0.06 | 0.06 | 0.06 | 0.06 | 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 | | | | 105 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 113 | | % |
| Iron | 54-2 | 3963.29 | 3814.36 | 3895.17 | 3890.94 | 1.92 | ppb |
| Iron | 56-2 | 3882.19 | 3700.45 | 3782.11 | 3788.25 | 2.40 | ppb |
| Iron | 57-2 | 3616.80 | 3581.57 | 3562.44 | 3586.94 | 0.77 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.09 | 0.09 | 0.08 | 0.09 | 2.75 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:43:27 | DataFile Name : | 046AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.10 | 0.10 | 0.09 | 0.09 | 8.76 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.08 | 0.09 | 4.46 | ppb |
| Lithium | 6-1 | | | | 124 | | % |
| Magnesium | 24-2 | 127.77 | 127.19 | 126.81 | 127.26 | 0.38 | ppb |
| Manganese | 55-2 | 122.42 | 118.90 | 119.17 | 120.16 | 1.63 | ppb |
| Molybdenum | 94-1 | 0.17 | 0.20 | 0.20 | 0.19 | 8.93 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.04 | 0.04 | 14.86 | ppb |
| Molybdenum | 96-1 | 0.06 | 0.07 | 0.06 | 0.07 | 7.95 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.80 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.03 | 0.04 | 5.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.16 | -0.18 | -0.21 | -0.18 | | ppb |
| Phosphorus | 31-2 | -20.16 | -17.88 | -18.29 | -18.77 | | ppb |
| Potassium | 39-2 | 69.90 | 70.45 | 68.77 | 69.71 | 1.23 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 115 | | % |
| Scandium | 45-1 | | | | 123 | | % |
| Scandium | 45-2 | | | | 126 | | % |
| Selenium | 82-1 | 2.45 | 3.12 | 3.23 | 2.93 | 14.29 | ppb |
| Selenium | 77-2 | 3.59 | 2.97 | 1.32 | 2.63 | 44.79 | ppb |
| Selenium | 78-2 | 3.10 | 3.82 | 2.86 | 3.26 | 15.36 | ppb |
| Silicon | 28-1 | 48.31 | 49.18 | 51.09 | 49.52 | 2.87 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 16.37 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 181.13 | ppb |
| Sodium | 23-2 | 851.40 | 861.99 | 848.70 | 854.03 | 0.82 | ppb |
| Strontium | 86-1 | 0.96 | 0.96 | 1.00 | 0.97 | 1.89 | ppb |
| Strontium | 88-1 | 0.98 | 1.00 | 0.99 | 0.99 | 0.61 | ppb |
| Sulfur | 34-1 | -128.82 | -130.53 | -245.00 | -168.12 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.73 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.09 | ppb |
| Tin | 118-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Titanium | 47-1 | 0.12 | 0.14 | 0.13 | 0.13 | 8.24 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:43:27 | DataFile Name : | 046AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.02 | 0.01 | 0.01 | 23.58 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 114 | | % |
| Yttrium | 89-2 | | | | 121 | | % |
| Zinc | 66-2 | -0.77 | -0.64 | -0.60 | -0.67 | | ppb |
| Zirconium | 90-1 | 0.08 | 0.09 | 0.09 | 0.08 | 2.87 | ppb |
| Zirconium | 91-1 | 0.08 | 0.08 | 0.09 | 0.08 | 5.81 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL4X100 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 100 |
| Date & Time Acquired : | 2025-04-07 14:52:05 | DataFile Name : | 048AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5.81 | 5.06 | 4.91 | 5.26 | 9.19 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 10.57 | ppb |
| Arsenic | 75-2 | 0.69 | 0.60 | 0.66 | 0.65 | 6.51 | ppb |
| Barium | 135-1 | 0.17 | 0.18 | 0.18 | 0.17 | 3.70 | ppb |
| Barium | 137-1 | 0.18 | 0.19 | 0.17 | 0.18 | 6.63 | ppb |
| Beryllium | 9-1 | -0.01 | -0.01 | 0.00 | 0.00 | | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | 0.00 | 0.00 | 0.02 | 175.87 | ppb |
| Cadmium | 106-1 | -0.64 | -0.51 | -0.61 | -0.58 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.04 | -0.05 | -0.05 | | ppb |
| Calcium | 43-1 | 186.36 | 185.95 | 189.83 | 187.38 | 1.14 | ppb |
| Calcium | 44-1 | 254.92 | 259.86 | 258.05 | 257.61 | 0.97 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.31 | -0.26 | -0.28 | -0.28 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | 0.03 | 0.04 | 0.02 | 0.03 | 36.19 | 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 | | | | 109 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 113 | | % |
| Iron | 54-2 | 1851.40 | 1864.13 | 1802.54 | 1839.35 | 1.77 | ppb |
| Iron | 56-2 | 1886.29 | 1936.80 | 1871.34 | 1898.14 | 1.81 | ppb |
| Iron | 57-2 | 1783.22 | 1824.94 | 1770.74 | 1792.97 | 1.58 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.06 | 0.05 | 0.05 | 0.06 | 6.79 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL4X100 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 100 |
| Date & Time Acquired : | 2025-04-07 14:52:05 | DataFile Name : | 048AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.05 | 0.04 | 0.05 | 0.05 | 9.99 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 6.69 | ppb |
| Lithium | 6-1 | | | | 124 | | % |
| Magnesium | 24-2 | 62.58 | 65.09 | 63.56 | 63.74 | 1.98 | ppb |
| Manganese | 55-2 | 59.89 | 60.39 | 58.60 | 59.62 | 1.54 | ppb |
| Molybdenum | 94-1 | 0.19 | 0.19 | 0.19 | 0.19 | 1.98 | ppb |
| Molybdenum | 95-1 | 0.01 | 0.01 | 0.02 | 0.01 | 25.30 | ppb |
| Molybdenum | 96-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.41 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.02 | 0.02 | 0.01 | 23.68 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.65 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.18 | -0.18 | -0.18 | -0.18 | | ppb |
| Phosphorus | 31-2 | -23.57 | -20.02 | -17.14 | -20.24 | | ppb |
| Potassium | 39-2 | 40.90 | 43.83 | 40.61 | 41.78 | 4.26 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 115 | | % |
| Scandium | 45-1 | | | | 122 | | % |
| Scandium | 45-2 | | | | 125 | | % |
| Selenium | 82-1 | 1.22 | 1.51 | 1.60 | 1.44 | 13.54 | ppb |
| Selenium | 77-2 | 1.95 | 0.32 | 0.31 | 0.86 | 109.69 | ppb |
| Selenium | 78-2 | 1.57 | 1.62 | 2.75 | 1.98 | 33.74 | ppb |
| Silicon | 28-1 | 23.63 | 24.95 | 25.02 | 24.53 | 3.21 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 81.12 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 189.36 | ppb |
| Sodium | 23-2 | 409.08 | 413.59 | 409.62 | 410.76 | 0.60 | ppb |
| Strontium | 86-1 | 0.49 | 0.48 | 0.49 | 0.49 | 1.15 | ppb |
| Strontium | 88-1 | 0.50 | 0.49 | 0.51 | 0.50 | 1.38 | ppb |
| Sulfur | 34-1 | -128.28 | 174.33 | -6.13 | 13.31 | 1144.07 | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.01 | 0.01 | 20.25 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.06 | ppb |
| Tin | 118-1 | -0.03 | -0.04 | -0.04 | -0.04 | | ppb |
| Titanium | 47-1 | 0.09 | 0.07 | 0.07 | 0.07 | 13.65 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL4X100 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 100 |
| Date & Time Acquired : | 2025-04-07 14:52:05 | DataFile Name : | 048AREF.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.01 | 0.00 | 0.01 | 0.01 | 46.11 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 122 | | % |
| Zinc | 66-2 | -0.95 | -0.89 | -0.81 | -0.88 | | ppb |
| Zirconium | 90-1 | 0.09 | 0.10 | 0.09 | 0.09 | 3.30 | ppb |
| Zirconium | 91-1 | 0.10 | 0.10 | 0.09 | 0.10 | 4.12 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:00:29 | DataFile Name : | 050CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 54086.32 | 53041.24 | 53177.76 | 53435.11 | 1.06 | ppb |
| Antimony | 121-1 | 498.29 | 503.39 | 494.54 | 498.74 | 0.89 | ppb |
| Arsenic | 75-2 | 471.99 | 483.26 | 471.29 | 475.51 | 1.41 | ppb |
| Barium | 135-1 | 2486.83 | 2464.12 | 2502.67 | 2484.54 | 0.78 | ppb |
| Barium | 137-1 | 2512.86 | 2486.28 | 2441.31 | 2480.15 | 1.46 | ppb |
| Beryllium | 9-1 | 492.44 | 494.13 | 510.07 | 498.88 | 1.95 | ppb |
| Bismuth | 209-1 | | | | 83 | | % |
| Bismuth | 209-2 | | | | 84 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 486.28 | 482.09 | 468.60 | 478.99 | 1.93 | ppb |
| Cadmium | 106-1 | 477.36 | 480.46 | 471.85 | 476.56 | 0.92 | ppb |
| Cadmium | 111-1 | 497.74 | 490.79 | 489.37 | 492.63 | 0.91 | ppb |
| Calcium | 43-1 | 250045.78 | 255215.06 | 255300.42 | 253520.42 | 1.19 | ppb |
| Calcium | 44-1 | 249023.76 | 256230.56 | 251442.45 | 252232.25 | 1.45 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 511.18 | 509.71 | 509.07 | 509.98 | 0.21 | ppb |
| Cobalt | 59-2 | 484.04 | 485.33 | 475.62 | 481.67 | 1.09 | ppb |
| Copper | 63-2 | 5156.34 | 5241.85 | 5210.96 | 5203.05 | 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 | | | | 93 | | % |
| Holmium | 165-2 | | | | 95 | | % |
| Indium | 115-1 | | | | 86 | | % |
| Indium | 115-2 | | | | 87 | | % |
| Iron | 54-2 | 125299.08 | 126902.68 | 125114.22 | 125771.99 | 0.78 | ppb |
| Iron | 56-2 | 123857.97 | 124217.14 | 124963.93 | 124346.35 | 0.45 | ppb |
| Iron | 57-2 | 125075.60 | 124926.73 | 123943.15 | 124648.49 | 0.49 | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 2463.72 | 2469.71 | 2428.30 | 2453.91 | 0.91 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:00:29 | DataFile Name : | 050CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2470.23 | 2468.70 | 2429.18 | 2456.03 | 0.95 | ppb |
| Lead | 208-1 | 2454.22 | 2468.74 | 2447.61 | 2456.86 | 0.44 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 268617.99 | 267460.71 | 266717.59 | 267598.76 | 0.36 | ppb |
| Manganese | 55-2 | 5022.85 | 5074.60 | 5036.46 | 5044.64 | 0.53 | ppb |
| Molybdenum | 94-1 | 4819.95 | 4867.31 | 4928.59 | 4871.95 | 1.12 | ppb |
| Molybdenum | 95-1 | 4801.51 | 4798.22 | 4895.23 | 4831.65 | 1.14 | ppb |
| Molybdenum | 96-1 | 4777.86 | 4854.91 | 4896.90 | 4843.22 | 1.25 | ppb |
| Molybdenum | 97-1 | 4821.47 | 4888.74 | 4890.47 | 4866.90 | 0.81 | ppb |
| Molybdenum | 98-1 | 4863.67 | 4771.84 | 4858.37 | 4831.29 | 1.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 478.51 | 479.00 | 474.98 | 477.49 | 0.46 | ppb |
| Phosphorus | 31-2 | 10549.50 | 10598.28 | 10457.72 | 10535.17 | 0.68 | ppb |
| Potassium | 39-2 | 129638.18 | 128105.78 | 129063.19 | 128935.71 | 0.60 | ppb |
| Rhodium | 103-1 | | | | 84 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 465.67 | 463.09 | 476.73 | 468.50 | 1.55 | ppb |
| Selenium | 77-2 | 481.47 | 488.74 | 481.26 | 483.82 | 0.88 | ppb |
| Selenium | 78-2 | 482.88 | 486.96 | 476.58 | 482.14 | 1.08 | ppb |
| Silicon | 28-1 | 548.36 | 541.04 | 539.90 | 543.10 | 0.84 | ppb |
| Silver | 107-1 | 479.16 | 483.08 | 477.97 | 480.07 | 0.56 | ppb |
| Silver | 109-1 | 488.19 | 489.44 | 482.23 | 486.62 | 0.79 | ppb |
| Sodium | 23-2 | 275881.40 | 271252.46 | 270087.30 | 272407.05 | 1.13 | ppb |
| Strontium | 86-1 | 494.87 | 499.13 | 496.66 | 496.89 | 0.43 | ppb |
| Strontium | 88-1 | 486.91 | 496.86 | 506.72 | 496.83 | 1.99 | ppb |
| Sulfur | 34-1 | 10693.66 | 10449.26 | 10549.87 | 10564.26 | 1.16 | ppb |
| Terbium | 159-1 | | | | 93 | | % |
| Terbium | 159-2 | | | | 95 | | % |
| Thallium | 203-1 | 497.19 | 497.56 | 495.37 | 496.71 | 0.24 | ppb |
| Thallium | 205-1 | 492.14 | 497.63 | 491.50 | 493.76 | 0.68 | ppb |
| Tin | 118-1 | 503.16 | 508.24 | 494.90 | 502.10 | 1.34 | ppb |
| Titanium | 47-1 | 4963.29 | 4979.19 | 4967.56 | 4970.01 | 0.17 | ppb |
| Uranium | 238-1 | 503.85 | 498.65 | 504.49 | 502.33 | 0.64 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:00:29 | DataFile Name : | 050CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 520.29 | 524.10 | 521.09 | 521.83 | 0.39 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 96 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 5054.36 | 5153.74 | 5060.89 | 5089.66 | 1.09 | ppb |
| Zirconium | 90-1 | 489.69 | 489.05 | 498.83 | 492.53 | 1.11 | ppb |
| Zirconium | 91-1 | 482.95 | 479.23 | 499.73 | 487.30 | 2.24 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:13:18 | DataFile Name : | 051CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.46 | 0.21 | 0.23 | 0.30 | 46.31 | ppb |
| Antimony | 121-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.10 | ppb |
| Arsenic | 75-2 | 0.01 | 0.00 | 0.00 | 0.00 | 72.63 | ppb |
| Barium | 135-1 | 0.03 | 0.03 | 0.02 | 0.03 | 15.74 | ppb |
| Barium | 137-1 | 0.02 | 0.03 | 0.02 | 0.02 | 9.14 | ppb |
| Beryllium | 9-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.41 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Cadmium | 106-1 | -1.24 | -1.09 | -0.92 | -1.08 | | ppb |
| Cadmium | 111-1 | -0.09 | -0.08 | -0.06 | -0.08 | | ppb |
| Calcium | 43-1 | -10.41 | -10.17 | -10.89 | -10.49 | | ppb |
| Calcium | 44-1 | -4.36 | -4.81 | -4.74 | -4.64 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.29 | -0.29 | -0.28 | -0.29 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Copper | 63-2 | 0.05 | 0.06 | 0.05 | 0.05 | 15.53 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 54-2 | -1.35 | -1.06 | -1.18 | -1.20 | | ppb |
| Iron | 56-2 | -0.93 | -0.82 | -0.97 | -0.90 | | ppb |
| Iron | 57-2 | -1.36 | -1.27 | -0.59 | -1.07 | | ppb |
| Krypton | 83-1 | | | | | | cps |
| Lead | 206-1 | 0.05 | 0.05 | 0.06 | 0.06 | 2.45 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:13:18 | DataFile Name : | 051CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 0.06 | 0.06 | 0.05 | 0.06 | 16.47 | ppb |
| Lead | 208-1 | 0.06 | 0.06 | 0.05 | 0.06 | 3.21 | ppb |
| Lithium | 6-1 | | | | 120 | | % |
| Magnesium | 24-2 | 1.61 | 1.74 | 1.96 | 1.77 | 10.09 | ppb |
| Manganese | 55-2 | -0.04 | 0.01 | 0.01 | -0.01 | | ppb |
| Molybdenum | 94-1 | 0.07 | 0.06 | 0.07 | 0.07 | 4.68 | ppb |
| Molybdenum | 95-1 | 0.05 | 0.04 | 0.05 | 0.05 | 11.57 | ppb |
| Molybdenum | 96-1 | 0.06 | 0.05 | 0.05 | 0.06 | 8.03 | ppb |
| Molybdenum | 97-1 | 0.05 | 0.04 | 0.04 | 0.05 | 13.57 | ppb |
| Molybdenum | 98-1 | 0.05 | 0.06 | 0.05 | 0.05 | 6.29 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.23 | -0.24 | -0.24 | -0.23 | | ppb |
| Phosphorus | 31-2 | -20.06 | -25.76 | -25.04 | -23.62 | | ppb |
| Potassium | 39-2 | 24.68 | 23.53 | 24.18 | 24.13 | 2.38 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 116 | | % |
| Scandium | 45-2 | | | | 116 | | % |
| Selenium | 82-1 | 0.22 | 0.05 | 0.30 | 0.19 | 65.31 | ppb |
| Selenium | 77-2 | -0.28 | -0.28 | -0.49 | -0.35 | | ppb |
| Selenium | 78-2 | -0.10 | 0.23 | 0.25 | 0.13 | 152.48 | ppb |
| Silicon | 28-1 | 0.17 | 0.09 | 0.15 | 0.13 | 32.12 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.23 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.65 | ppb |
| Sodium | 23-2 | 33.61 | 33.80 | 33.93 | 33.78 | 0.48 | ppb |
| Strontium | 86-1 | 0.00 | 0.00 | 0.00 | 0.00 | 144.58 | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | 10.27 | ppb |
| Sulfur | 34-1 | -445.28 | -418.75 | -396.09 | -420.04 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.02 | 0.01 | 5.72 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.02 | 0.01 | 6.50 | ppb |
| Tin | 118-1 | -0.05 | -0.05 | -0.04 | -0.05 | | ppb |
| Titanium | 47-1 | 0.06 | 0.07 | 0.05 | 0.06 | 15.97 | ppb |
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 7.13 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:13:18 | DataFile Name : | 051CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 64.28 | ppb |
| Ytterbium | 172-1 | | | | | | cps |
| Ytterbium | 172-2 | | | | | | cps |
| Ytterbium | 176-1 | | | | | | cps |
| Ytterbium | 176-2 | | | | | | cps |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 113 | | % |
| Zinc | 66-2 | -0.96 | -0.92 | -0.93 | -0.93 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 13.19 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 17.32 | ppb |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:29:45 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 403 | 320 | 363 | 362 | 11.51 | cps |
| Antimony | 121-1 | 110 | 63 | 123 | 99 | 31.86 | cps |
| Arsenic | 75-2 | 13 | 10 | 13 | 12 | 15.73 | cps |
| Barium | 135-1 | 190 | 163 | 137 | 163 | 16.33 | cps |
| Barium | 137-1 | 373 | 340 | 410 | 374 | 9.35 | cps |
| Beryllium | 9-1 | 68 | 72 | 85 | 75 | 11.63 | cps |
| Bismuth | 209-1 | 6677436 | 6163412 | 6251148 | 6363999 | 4.32 | cps |
| Bismuth | 209-2 | 3052880 | 3058202 | 3051500 | 3054194 | 0.12 | cps |
| Bromine | 81-1 | 31238 | 30553 | 29434 | 30409 | 2.99 | cps |
| Cadmium | 108-1 | 7 | 23 | 37 | 22 | 67.63 | cps |
| Cadmium | 106-1 | 7992 | 7492 | 7172 | 7552 | 5.48 | cps |
| Cadmium | 111-1 | 5610 | 5248 | 5048 | 5302 | 5.37 | cps |
| Calcium | 43-1 | 4781 | 4768 | 4554 | 4701 | 2.71 | cps |
| Calcium | 44-1 | 92418 | 90287 | 87255 | 89987 | 2.88 | cps |
| Carbon | 12-1 | 4214130 | 4105932 | 3934045 | 4084702 | 3.46 | cps |
| Carbon | 12-2 | 30278 | 30171 | 30037 | 30162 | 0.40 | cps |
| Chlorine | 35-1 | 198808 | 194497 | 193846 | 195717 | 1.38 | cps |
| Chlorine | 35-2 | 1147 | 1040 | 940 | 1042 | 9.92 | cps |
| Chromium | 52-2 | 14985 | 14501 | 14491 | 14659 | 1.93 | cps |
| Cobalt | 59-2 | 400 | 363 | 383 | 382 | 4.80 | cps |
| Copper | 63-2 | 3280 | 3010 | 3107 | 3133 | 4.37 | cps |
| Dysprosium | 156-1 | 30 | 17 | 17 | 21 | 36.45 | cps |
| Dysprosium | 156-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Erbium | 164-1 | 67 | 83 | 67 | 72 | 13.32 | cps |
| Erbium | 164-2 | 37 | 30 | 47 | 38 | 22.21 | cps |
| Gadolinium | 160-1 | 143 | 100 | 157 | 133 | 22.22 | cps |
| Gadolinium | 160-2 | 47 | 37 | 40 | 41 | 12.39 | cps |
| Holmium | 165-1 | 11160280 | 10691706 | 10617562 | 10823183 | 2.72 | cps |
| Holmium | 165-2 | 4374058 | 4407215 | 4401526 | 4394266 | 0.40 | cps |
| Indium | 115-1 | 9943714 | 9506754 | 9443012 | 9631160 | 2.83 | cps |
| Indium | 115-2 | 1172546 | 1170765 | 1164993 | 1169435 | 0.34 | cps |
| Iron | 54-2 | 3914 | 3924 | 4114 | 3984 | 2.83 | cps |
| Iron | 56-2 | 59704 | 60836 | 59286 | 59942 | 1.34 | cps |
| Iron | 57-2 | 1453 | 1450 | 1507 | 1470 | 2.16 | cps |
| Krypton | 83-1 | 483 | 340 | 437 | 420 | 17.41 | cps |
| Lead | 206-1 | 1513 | 1420 | 1237 | 1390 | 10.13 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:29:45 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1147 | 1173 | 1217 | 1179 | 3.00 | cps |
| Lead | 208-1 | 5774 | 5531 | 5154 | 5486 | 5.69 | cps |
| Lithium | 6-1 | 3486255 | 3294269 | 3403654 | 3394726 | 2.84 | cps |
| Magnesium | 24-2 | 543 | 573 | 527 | 548 | 4.32 | cps |
| Manganese | 55-2 | 1897 | 1713 | 1947 | 1852 | 6.63 | cps |
| Molybdenum | 94-1 | 673 | 637 | 610 | 640 | 4.97 | cps |
| Molybdenum | 95-1 | 713 | 680 | 663 | 686 | 3.71 | cps |
| Molybdenum | 96-1 | 750 | 730 | 767 | 749 | 2.45 | cps |
| Molybdenum | 97-1 | 433 | 457 | 467 | 452 | 3.78 | cps |
| Molybdenum | 98-1 | 940 | 923 | 1000 | 954 | 4.23 | cps |
| Neodymium | 150-1 | 10 | 7 | 10 | 9 | 21.63 | cps |
| Neodymium | 150-2 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Nickel | 60-2 | 4164 | 4091 | 4114 | 4123 | 0.91 | cps |
| Phosphorus | 31-2 | 140 | 190 | 213 | 181 | 20.69 | cps |
| Potassium | 39-2 | 22932 | 22618 | 22251 | 22600 | 1.51 | cps |
| Rhodium | 103-1 | 9673288 | 9260292 | 8940552 | 9291377 | 3.95 | cps |
| Rhodium | 103-2 | 4031229 | 4014041 | 4076193 | 4040488 | 0.79 | cps |
| Scandium | 45-1 | 6498520 | 6212816 | 6152663 | 6288000 | 2.94 | cps |
| Scandium | 45-2 | 158928 | 156738 | 157107 | 157591 | 0.74 | cps |
| Selenium | 82-1 | -47 | 60 | -63 | -17 | -401.44 | cps |
| Selenium | 77-2 | 3 | 10 | 7 | 7 | 50.03 | cps |
| Selenium | 78-2 | 33 | 33 | 17 | 28 | 34.63 | cps |
| Silicon | 28-1 | 571260 | 553595 | 537775 | 554210 | 3.02 | cps |
| Silver | 107-1 | 177 | 130 | 133 | 147 | 17.75 | cps |
| Silver | 109-1 | 103 | 83 | 97 | 94 | 10.78 | cps |
| Sodium | 23-2 | 53525 | 54190 | 54388 | 54034 | 0.84 | cps |
| Strontium | 86-1 | 917 | 790 | 767 | 824 | 9.79 | cps |
| Strontium | 88-1 | 1970 | 1837 | 1650 | 1819 | 8.84 | cps |
| Sulfur | 34-1 | 763916 | 736517 | 736667 | 745700 | 2.12 | cps |
| Terbium | 159-1 | 11656076 | 11088329 | 10917232 | 11220546 | 3.45 | cps |
| Terbium | 159-2 | 4299745 | 4332975 | 4319946 | 4317555 | 0.39 | cps |
| Thallium | 203-1 | 230 | 187 | 227 | 214 | 11.24 | cps |
| Thallium | 205-1 | 547 | 537 | 477 | 520 | 7.28 | cps |
| Tin | 118-1 | 5048 | 8275 | 4668 | 5997 | 33.06 | cps |
| Titanium | 47-1 | 330 | 333 | 323 | 329 | 1.55 | cps |
| Uranium | 238-1 | 267 | 337 | 303 | 302 | 11.59 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P8 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:29:45 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 53 | 90 | 103 | 82 | 31.49 | cps |
| Ytterbium | 172-1 | 50 | 40 | 53 | 48 | 14.52 | cps |
| Ytterbium | 172-2 | 23 | 30 | 27 | 27 | 12.51 | cps |
| Ytterbium | 176-1 | 1883 | 1753 | 1697 | 1778 | 5.38 | cps |
| Ytterbium | 176-2 | 517 | 543 | 480 | 513 | 6.19 | cps |
| Yttrium | 89-1 | 18019992 | 17272886 | 17016906 | 17436595 | 2.99 | cps |
| Yttrium | 89-2 | 1572589 | 1585227 | 1555831 | 1571215 | 0.94 | cps |
| Zinc | 66-2 | 5128 | 4988 | 5271 | 5129 | 2.76 | cps |
| Zirconium | 90-1 | 1107 | 820 | 1090 | 1006 | 16.00 | cps |
| Zirconium | 91-1 | 167 | 183 | 127 | 159 | 18.33 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P8 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:36:29 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3924 | 4311 | 3954 | 4063 | 5.30 | cps |
| Antimony | 121-1 | 80049 | 80002 | 80562 | 80204 | 0.39 | cps |
| Arsenic | 75-2 | 1180 | 1110 | 1110 | 1133 | 3.57 | cps |
| Barium | 135-1 | 97064 | 94651 | 95440 | 95718 | 1.29 | cps |
| Barium | 137-1 | 165637 | 163035 | 164996 | 164556 | 0.82 | cps |
| Beryllium | 9-1 | 9929 | 10064 | 10266 | 10086 | 1.68 | cps |
| Bismuth | 209-1 | 6324226 | 6227499 | 6277670 | 6276465 | 0.77 | cps |
| Bismuth | 209-2 | 3106042 | 3063504 | 3069635 | 3079727 | 0.75 | cps |
| Bromine | 81-1 | 29568 | 28970 | 29972 | 29503 | 1.71 | cps |
| Cadmium | 108-1 | 780 | 977 | 833 | 863 | 11.78 | cps |
| Cadmium | 106-1 | 8493 | 8326 | 8536 | 8452 | 1.31 | cps |
| Cadmium | 111-1 | 16237 | 15802 | 16306 | 16115 | 1.70 | cps |
| Calcium | 43-1 | 70069 | 70545 | 70006 | 70207 | 0.42 | cps |
| Calcium | 44-1 | 1162431 | 1156023 | 1159568 | 1159341 | 0.28 | cps |
| Carbon | 12-1 | 4505927 | 4413067 | 4295956 | 4404983 | 2.39 | cps |
| Carbon | 12-2 | 32736 | 32001 | 32452 | 32397 | 1.14 | cps |
| Chlorine | 35-1 | 200295 | 199325 | 201366 | 200329 | 0.51 | cps |
| Chlorine | 35-2 | 1083 | 1153 | 1037 | 1091 | 5.38 | cps |
| Chromium | 52-2 | 36804 | 36035 | 35574 | 36138 | 1.72 | cps |
| Cobalt | 59-2 | 20442 | 21039 | 20315 | 20598 | 1.88 | cps |
| Copper | 63-2 | 34154 | 34151 | 33416 | 33907 | 1.25 | cps |
| Dysprosium | 156-1 | 17 | 13 | 17 | 16 | 12.40 | cps |
| Dysprosium | 156-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Erbium | 164-1 | 87 | 43 | 73 | 68 | 32.75 | cps |
| Erbium | 164-2 | 17 | 10 | 20 | 16 | 32.73 | cps |
| Gadolinium | 160-1 | 133 | 163 | 140 | 146 | 10.82 | cps |
| Gadolinium | 160-2 | 47 | 17 | 33 | 32 | 46.65 | cps |
| Holmium | 165-1 | 10743168 | 10628087 | 10627168 | 10666141 | 0.63 | cps |
| Holmium | 165-2 | 4343266 | 4339831 | 4313952 | 4332350 | 0.37 | cps |
| Indium | 115-1 | 9541157 | 9374321 | 9420075 | 9445184 | 0.91 | cps |
| Indium | 115-2 | 1174700 | 1168073 | 1164947 | 1169240 | 0.43 | cps |
| Iron | 54-2 | 26254 | 27012 | 25590 | 26285 | 2.71 | cps |
| Iron | 56-2 | 468676 | 462154 | 457204 | 462678 | 1.24 | cps |
| Iron | 57-2 | 11935 | 11555 | 11315 | 11601 | 2.70 | cps |
| Krypton | 83-1 | 443 | 347 | 437 | 409 | 13.21 | cps |
| Lead | 206-1 | 27496 | 27924 | 27479 | 27633 | 0.91 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P8 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:36:29 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 23959 | 24380 | 23999 | 24112 | 0.96 | cps |
| Lead | 208-1 | 109695 | 110999 | 109635 | 110110 | 0.70 | cps |
| Lithium | 6-1 | 3356255 | 3328074 | 3313644 | 3332658 | 0.65 | cps |
| Magnesium | 24-2 | 315517 | 311778 | 306322 | 311206 | 1.49 | cps |
| Manganese | 55-2 | 6138 | 6538 | 6388 | 6355 | 3.18 | cps |
| Molybdenum | 94-1 | 87328 | 84884 | 85319 | 85844 | 1.52 | cps |
| Molybdenum | 95-1 | 103156 | 104231 | 104680 | 104022 | 0.75 | cps |
| Molybdenum | 96-1 | 114786 | 115324 | 114427 | 114846 | 0.39 | cps |
| Molybdenum | 97-1 | 64683 | 64710 | 64080 | 64491 | 0.55 | cps |
| Molybdenum | 98-1 | 166859 | 167659 | 167028 | 167182 | 0.25 | cps |
| Neodymium | 150-1 | 27 | 20 | 33 | 27 | 24.99 | cps |
| Neodymium | 150-2 | 7 | 0 | 10 | 6 | 91.64 | cps |
| Nickel | 60-2 | 9286 | 9627 | 9450 | 9454 | 1.80 | cps |
| Phosphorus | 31-2 | 570 | 523 | 470 | 521 | 9.60 | cps |
| Potassium | 39-2 | 239600 | 237612 | 235400 | 237537 | 0.88 | cps |
| Rhodium | 103-1 | 9202054 | 8943454 | 9078768 | 9074759 | 1.43 | cps |
| Rhodium | 103-2 | 4042605 | 4154991 | 4015213 | 4070937 | 1.82 | cps |
| Scandium | 45-1 | 6254709 | 6110474 | 6152045 | 6172410 | 1.20 | cps |
| Scandium | 45-2 | 156925 | 156225 | 154612 | 155921 | 0.76 | cps |
| Selenium | 82-1 | 3397 | 3261 | 3471 | 3376 | 3.16 | cps |
| Selenium | 77-2 | 80 | 103 | 73 | 86 | 18.41 | cps |
| Selenium | 78-2 | 307 | 327 | 320 | 318 | 3.20 | cps |
| Silicon | 28-1 | 715926 | 744457 | 710935 | 723773 | 2.50 | cps |
| Silver | 107-1 | 51723 | 52229 | 52687 | 52213 | 0.92 | cps |
| Silver | 109-1 | 49472 | 49084 | 49927 | 49494 | 0.85 | cps |
| Sodium | 23-2 | 677764 | 670718 | 663740 | 670741 | 1.05 | cps |
| Strontium | 86-1 | 14474 | 14748 | 14698 | 14640 | 1.00 | cps |
| Strontium | 88-1 | 118010 | 119130 | 121540 | 119560 | 1.51 | cps |
| Sulfur | 34-1 | 763061 | 763583 | 761439 | 762694 | 0.15 | cps |
| Terbium | 159-1 | 11207079 | 10925482 | 10888220 | 11006927 | 1.58 | cps |
| Terbium | 159-2 | 4346278 | 4345731 | 4322081 | 4338030 | 0.32 | cps |
| Thallium | 203-1 | 32547 | 32698 | 33002 | 32749 | 0.71 | cps |
| Thallium | 205-1 | 79096 | 79173 | 78811 | 79027 | 0.24 | cps |
| Tin | 118-1 | 169313 | 169434 | 171007 | 169918 | 0.56 | cps |
| Titanium | 47-1 | 30983 | 31084 | 30656 | 30908 | 0.72 | cps |
| Uranium | 238-1 | 97856 | 97732 | 98763 | 98117 | 0.57 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P8 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:36:29 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 39855 | 39788 | 39511 | 39718 | 0.46 | cps |
| Ytterbium | 172-1 | 50 | 50 | 53 | 51 | 3.76 | cps |
| Ytterbium | 172-2 | 27 | 13 | 37 | 26 | 45.82 | cps |
| Ytterbium | 176-1 | 2010 | 1964 | 2004 | 1992 | 1.27 | cps |
| Ytterbium | 176-2 | 523 | 433 | 487 | 481 | 9.41 | cps |
| Yttrium | 89-1 | 16817090 | 16843784 | 17273742 | 16978205 | 1.51 | cps |
| Yttrium | 89-2 | 1568999 | 1581038 | 1562248 | 1570762 | 0.61 | cps |
| Zinc | 66-2 | 12876 | 13013 | 12592 | 12827 | 1.67 | cps |
| Zirconium | 90-1 | 72118 | 71991 | 72531 | 72213 | 0.39 | cps |
| Zirconium | 91-1 | 15983 | 15689 | 15846 | 15839 | 0.93 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P8 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:39:50 | DataFile Name : | 007CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 163213 | 161708 | 164349 | 163090 | 0.81 | cps |
| Antimony | 121-1 | 1941243 | 1953640 | 1941213 | 1945365 | 0.37 | cps |
| Arsenic | 75-2 | 46938 | 47383 | 46530 | 46950 | 0.91 | cps |
| Barium | 135-1 | 2339692 | 2332306 | 2314717 | 2328905 | 0.55 | cps |
| Barium | 137-1 | 3972548 | 4005640 | 3910574 | 3962921 | 1.22 | cps |
| Beryllium | 9-1 | 458258 | 457635 | 458905 | 458266 | 0.14 | cps |
| Bismuth | 209-1 | 6120903 | 6162396 | 6152331 | 6145210 | 0.35 | cps |
| Bismuth | 209-2 | 3044404 | 2992287 | 3023963 | 3020218 | 0.87 | cps |
| Bromine | 81-1 | 29514 | 29504 | 28866 | 29295 | 1.27 | cps |
| Cadmium | 108-1 | 40218 | 40436 | 40175 | 40276 | 0.35 | cps |
| Cadmium | 106-1 | 63525 | 64523 | 64952 | 64333 | 1.14 | cps |
| Cadmium | 111-1 | 501449 | 505462 | 505657 | 504189 | 0.47 | cps |
| Calcium | 43-1 | 622343 | 625828 | 619488 | 622553 | 0.51 | cps |
| Calcium | 44-1 | 10040381 | 9839455 | 10051241 | 9977026 | 1.20 | cps |
| Carbon | 12-1 | 4660692 | 4624524 | 4507711 | 4597643 | 1.74 | cps |
| Carbon | 12-2 | 33946 | 33856 | 33639 | 33813 | 0.47 | cps |
| Chlorine | 35-1 | 228904 | 229734 | 229328 | 229322 | 0.18 | cps |
| Chlorine | 35-2 | 1297 | 1183 | 1210 | 1230 | 4.82 | cps |
| Chromium | 52-2 | 498689 | 493866 | 490056 | 494204 | 0.88 | cps |
| Cobalt | 59-2 | 888368 | 881895 | 872378 | 880880 | 0.91 | cps |
| Copper | 63-2 | 7702209 | 7623515 | 7619119 | 7648281 | 0.61 | cps |
| Dysprosium | 156-1 | 77 | 60 | 50 | 62 | 21.65 | cps |
| Dysprosium | 156-2 | 13 | 7 | 13 | 11 | 34.61 | cps |
| Erbium | 164-1 | 87 | 130 | 103 | 107 | 20.49 | cps |
| Erbium | 164-2 | 37 | 27 | 20 | 28 | 30.20 | cps |
| Gadolinium | 160-1 | 130 | 163 | 173 | 156 | 14.59 | cps |
| Gadolinium | 160-2 | 33 | 33 | 33 | 33 | 0.00 | cps |
| Holmium | 165-1 | 10600408 | 10567698 | 10659254 | 10609120 | 0.44 | cps |
| Holmium | 165-2 | 4283363 | 4304106 | 4285321 | 4290930 | 0.27 | cps |
| Indium | 115-1 | 9432824 | 9376000 | 9282785 | 9363869 | 0.81 | cps |
| Indium | 115-2 | 1142606 | 1125230 | 1129396 | 1132411 | 0.80 | cps |
| Iron | 54-2 | 1023912 | 1005837 | 1004363 | 1011370 | 1.08 | cps |
| Iron | 56-2 | 18664642 | 18385350 | 18654908 | 18568300 | 0.85 | cps |
| Iron | 57-2 | 468390 | 459506 | 460889 | 462928 | 1.03 | cps |
| Krypton | 83-1 | 400 | 400 | 420 | 407 | 2.84 | cps |
| Lead | 206-1 | 6371728 | 6446248 | 6491987 | 6436655 | 0.94 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P8 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:39:50 | DataFile Name : | 007CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5399389 | 5504000 | 5669981 | 5524457 | 2.47 | cps |
| Lead | 208-1 | 24802167 | 25299757 | 25547350 | 25216425 | 1.51 | cps |
| Lithium | 6-1 | 3385771 | 3231377 | 3309721 | 3308956 | 2.33 | cps |
| Magnesium | 24-2 | 2809152 | 2796662 | 2794202 | 2800005 | 0.29 | cps |
| Manganese | 55-2 | 2390684 | 2374680 | 2350002 | 2371789 | 0.86 | cps |
| Molybdenum | 94-1 | 6701074 | 6744263 | 6891847 | 6779061 | 1.48 | cps |
| Molybdenum | 95-1 | 9833560 | 9833430 | 9934868 | 9867286 | 0.59 | cps |
| Molybdenum | 96-1 | 10512157 | 10760989 | 10743239 | 10672128 | 1.30 | cps |
| Molybdenum | 97-1 | 5999990 | 6043172 | 5994416 | 6012526 | 0.44 | cps |
| Molybdenum | 98-1 | 15637969 | 15748117 | 15779455 | 15721847 | 0.47 | cps |
| Neodymium | 150-1 | 190 | 190 | 217 | 199 | 7.74 | cps |
| Neodymium | 150-2 | 13 | 20 | 3 | 12 | 68.66 | cps |
| Nickel | 60-2 | 251855 | 249559 | 247147 | 249521 | 0.94 | cps |
| Phosphorus | 31-2 | 8759 | 8763 | 8729 | 8750 | 0.21 | cps |
| Potassium | 39-2 | 1014833 | 999780 | 1005930 | 1006847 | 0.75 | cps |
| Rhodium | 103-1 | 8765719 | 8885130 | 9030210 | 8893686 | 1.49 | cps |
| Rhodium | 103-2 | 3940126 | 3958154 | 3919316 | 3939199 | 0.49 | cps |
| Scandium | 45-1 | 6297810 | 6169252 | 6095121 | 6187394 | 1.66 | cps |
| Scandium | 45-2 | 151385 | 149975 | 151114 | 150825 | 0.50 | cps |
| Selenium | 82-1 | 31633 | 31647 | 31757 | 31679 | 0.21 | cps |
| Selenium | 77-2 | 637 | 630 | 723 | 663 | 7.85 | cps |
| Selenium | 78-2 | 2624 | 2457 | 2430 | 2504 | 4.19 | cps |
| Silicon | 28-1 | 8576754 | 8675382 | 8522132 | 8591423 | 0.90 | cps |
| Silver | 107-1 | 2618446 | 2666005 | 2625720 | 2636724 | 0.97 | cps |
| Silver | 109-1 | 2447618 | 2475624 | 2491593 | 2471612 | 0.90 | cps |
| Sodium | 23-2 | 5643782 | 5554208 | 5538203 | 5578731 | 1.02 | cps |
| Strontium | 86-1 | 629394 | 626732 | 627128 | 627751 | 0.23 | cps |
| Strontium | 88-1 | 5528314 | 5529699 | 5553846 | 5537286 | 0.26 | cps |
| Sulfur | 34-1 | 927307 | 928874 | 921774 | 925985 | 0.40 | cps |
| Terbium | 159-1 | 11050886 | 11123670 | 11139554 | 11104703 | 0.43 | cps |
| Terbium | 159-2 | 4291916 | 4213739 | 4251149 | 4252268 | 0.92 | cps |
| Thallium | 203-1 | 1567108 | 1571282 | 1574013 | 1570801 | 0.22 | cps |
| Thallium | 205-1 | 3784811 | 3819439 | 3844962 | 3816404 | 0.79 | cps |
| Tin | 118-1 | 1518045 | 1584469 | 1522848 | 1541787 | 2.40 | cps |
| Titanium | 47-1 | 2837644 | 2776793 | 2769324 | 2794587 | 1.34 | cps |
| Uranium | 238-1 | 4545096 | 4633460 | 4620695 | 4599750 | 1.04 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P8 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:39:50 | DataFile Name : | 007CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 369273 | 362985 | 364093 | 365450 | 0.92 | cps |
| Ytterbium | 172-1 | 103 | 93 | 100 | 99 | 5.15 | cps |
| Ytterbium | 172-2 | 53 | 53 | 33 | 47 | 24.75 | cps |
| Ytterbium | 176-1 | 9280 | 9497 | 9320 | 9366 | 1.23 | cps |
| Ytterbium | 176-2 | 3410 | 3534 | 3574 | 3506 | 2.43 | cps |
| Yttrium | 89-1 | 17151261 | 16863800 | 17092249 | 17035770 | 0.89 | cps |
| Yttrium | 89-2 | 1542389 | 1507070 | 1517416 | 1522291 | 1.19 | cps |
| Zinc | 66-2 | 891475 | 889442 | 879513 | 886810 | 0.72 | cps |
| Zirconium | 90-1 | 3413030 | 3493050 | 3452332 | 3452804 | 1.16 | cps |
| Zirconium | 91-1 | 739544 | 752148 | 745964 | 745885 | 0.84 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P8 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:42:51 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 392001 | 389300 | 391697 | 391000 | 0.38 | cps |
| Antimony | 121-1 | 4666672 | 4704825 | 4711968 | 4694488 | 0.52 | cps |
| Arsenic | 75-2 | 115371 | 116241 | 114188 | 115266 | 0.89 | cps |
| Barium | 135-1 | 5620760 | 5726708 | 5569471 | 5638979 | 1.42 | cps |
| Barium | 137-1 | 9686406 | 9755236 | 9507891 | 9649845 | 1.32 | cps |
| Beryllium | 9-1 | 1044268 | 1085026 | 1043070 | 1057454 | 2.26 | cps |
| Bismuth | 209-1 | 6114844 | 6105189 | 6184716 | 6134917 | 0.71 | cps |
| Bismuth | 209-2 | 2983772 | 2916083 | 2943225 | 2947693 | 1.16 | cps |
| Bromine | 81-1 | 28910 | 29441 | 28546 | 28966 | 1.55 | cps |
| Cadmium | 108-1 | 98126 | 98858 | 98831 | 98605 | 0.42 | cps |
| Cadmium | 106-1 | 144740 | 143312 | 143537 | 143863 | 0.53 | cps |
| Cadmium | 111-1 | 1205143 | 1220407 | 1219767 | 1215106 | 0.71 | cps |
| Calcium | 43-1 | 1474502 | 1504772 | 1471983 | 1483752 | 1.23 | cps |
| Calcium | 44-1 | 24162757 | 24150924 | 24152082 | 24155254 | 0.03 | cps |
| Carbon | 12-1 | 4759326 | 4731690 | 4658850 | 4716622 | 1.10 | cps |
| Carbon | 12-2 | 35352 | 35068 | 35359 | 35260 | 0.47 | cps |
| Chlorine | 35-1 | 228410 | 235435 | 233093 | 232313 | 1.54 | cps |
| Chlorine | 35-2 | 1223 | 1287 | 1240 | 1250 | 2.63 | cps |
| Chromium | 52-2 | 1191679 | 1187433 | 1176859 | 1185324 | 0.64 | cps |
| Cobalt | 59-2 | 2247158 | 2183381 | 2157959 | 2196166 | 2.09 | cps |
| Copper | 63-2 | 18427471 | 18630679 | 18497877 | 18518676 | 0.56 | cps |
| Dysprosium | 156-1 | 130 | 137 | 130 | 132 | 2.91 | cps |
| Dysprosium | 156-2 | 20 | 33 | 17 | 23 | 37.78 | cps |
| Erbium | 164-1 | 170 | 103 | 170 | 148 | 26.05 | cps |
| Erbium | 164-2 | 37 | 57 | 20 | 38 | 48.60 | cps |
| Gadolinium | 160-1 | 213 | 207 | 220 | 213 | 3.12 | cps |
| Gadolinium | 160-2 | 40 | 37 | 53 | 43 | 20.34 | cps |
| Holmium | 165-1 | 10711652 | 10691890 | 10585734 | 10663092 | 0.64 | cps |
| Holmium | 165-2 | 4388282 | 4212857 | 4340218 | 4313786 | 2.10 | cps |
| Indium | 115-1 | 9117317 | 9284871 | 9163180 | 9188456 | 0.94 | cps |
| Indium | 115-2 | 1111380 | 1105679 | 1103849 | 1106970 | 0.35 | cps |
| Iron | 54-2 | 2534561 | 2535416 | 2478397 | 2516125 | 1.30 | cps |
| Iron | 56-2 | 45107878 | 45021703 | 44777873 | 44969151 | 0.38 | cps |
| Iron | 57-2 | 1123990 | 1125143 | 1120563 | 1123232 | 0.21 | cps |
| Krypton | 83-1 | 480 | 427 | 420 | 442 | 7.44 | cps |
| Lead | 206-1 | 15706447 | 15840596 | 15784312 | 15777118 | 0.43 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P8 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:42:51 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 13410532 | 13592891 | 13586628 | 13530017 | 0.77 | cps |
| Lead | 208-1 | 61350532 | 61941391 | 62214124 | 61835349 | 0.71 | cps |
| Lithium | 6-1 | 3244669 | 3287279 | 3247841 | 3259929 | 0.73 | cps |
| Magnesium | 24-2 | 6728202 | 6802388 | 6693614 | 6741401 | 0.82 | cps |
| Manganese | 55-2 | 5694189 | 5685420 | 5631894 | 5670501 | 0.59 | cps |
| Molybdenum | 94-1 | 16417296 | 16718434 | 16637218 | 16590983 | 0.94 | cps |
| Molybdenum | 95-1 | 23926078 | 24356584 | 24132636 | 24138433 | 0.89 | cps |
| Molybdenum | 96-1 | 26314848 | 26552114 | 26562757 | 26476573 | 0.53 | cps |
| Molybdenum | 97-1 | 14992133 | 14879393 | 15013537 | 14961688 | 0.48 | cps |
| Molybdenum | 98-1 | 38795408 | 38984889 | 38899405 | 38893234 | 0.24 | cps |
| Neodymium | 150-1 | 403 | 357 | 427 | 396 | 9.01 | cps |
| Neodymium | 150-2 | 47 | 30 | 23 | 33 | 36.07 | cps |
| Nickel | 60-2 | 595669 | 592518 | 590325 | 592837 | 0.45 | cps |
| Phosphorus | 31-2 | 20715 | 20929 | 20308 | 20650 | 1.53 | cps |
| Potassium | 39-2 | 2482157 | 2469895 | 2424738 | 2458930 | 1.23 | cps |
| Rhodium | 103-1 | 8895940 | 8773765 | 8860017 | 8843241 | 0.71 | cps |
| Rhodium | 103-2 | 3922939 | 3772415 | 3886673 | 3860675 | 2.03 | cps |
| Scandium | 45-1 | 6036877 | 6007488 | 5952065 | 5998810 | 0.72 | cps |
| Scandium | 45-2 | 151114 | 150889 | 148733 | 150245 | 0.88 | cps |
| Selenium | 82-1 | 74867 | 76637 | 76365 | 75957 | 1.25 | cps |
| Selenium | 77-2 | 1640 | 1720 | 1737 | 1699 | 3.04 | cps |
| Selenium | 78-2 | 5508 | 5915 | 5868 | 5763 | 3.86 | cps |
| Silicon | 28-1 | 19984161 | 19909766 | 19677670 | 19857199 | 0.81 | cps |
| Silver | 107-1 | 6364551 | 6278370 | 6253841 | 6298920 | 0.92 | cps |
| Silver | 109-1 | 5968322 | 5993141 | 5985802 | 5982422 | 0.21 | cps |
| Sodium | 23-2 | 13465415 | 13485621 | 13611284 | 13520773 | 0.58 | cps |
| Strontium | 86-1 | 1575014 | 1596612 | 1574029 | 1581885 | 0.81 | cps |
| Strontium | 88-1 | 13514717 | 13509611 | 13505539 | 13509955 | 0.03 | cps |
| Sulfur | 34-1 | 1057457 | 1053401 | 1054133 | 1054997 | 0.20 | cps |
| Terbium | 159-1 | 10842943 | 10987495 | 10972481 | 10934306 | 0.73 | cps |
| Terbium | 159-2 | 4251988 | 4201786 | 4228064 | 4227280 | 0.59 | cps |
| Thallium | 203-1 | 4012291 | 4029472 | 4048353 | 4030038 | 0.45 | cps |
| Thallium | 205-1 | 9201199 | 9223688 | 9317067 | 9247318 | 0.66 | cps |
| Tin | 118-1 | 3730498 | 3788779 | 3823209 | 3780829 | 1.24 | cps |
| Titanium | 47-1 | 6683910 | 6718126 | 6711188 | 6704408 | 0.27 | cps |
| Uranium | 238-1 | 11147812 | 11305887 | 11202764 | 11218821 | 0.72 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P8 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:42:51 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 899829 | 891747 | 890219 | 893932 | 0.58 | cps |
| Ytterbium | 172-1 | 137 | 133 | 157 | 142 | 8.87 | cps |
| Ytterbium | 172-2 | 90 | 63 | 73 | 76 | 17.83 | cps |
| Ytterbium | 176-1 | 20339 | 20603 | 20189 | 20377 | 1.03 | cps |
| Ytterbium | 176-2 | 7912 | 7712 | 7842 | 7822 | 1.30 | cps |
| Yttrium | 89-1 | 16850708 | 16855511 | 16718507 | 16808242 | 0.46 | cps |
| Yttrium | 89-2 | 1512462 | 1450071 | 1488588 | 1483707 | 2.12 | cps |
| Zinc | 66-2 | 2179900 | 2209378 | 2189421 | 2192900 | 0.69 | cps |
| Zirconium | 90-1 | 8354540 | 8387892 | 8354202 | 8365545 | 0.23 | cps |
| Zirconium | 91-1 | 1840673 | 1879408 | 1846481 | 1855521 | 1.13 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P8 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:45:39 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 762053 | 768172 | 755498 | 761908 | 0.83 | cps |
| Antimony | 121-1 | 8993736 | 9165610 | 9011595 | 9056980 | 1.04 | cps |
| Arsenic | 75-2 | 225950 | 226262 | 223782 | 225331 | 0.60 | cps |
| Barium | 135-1 | 10844887 | 10936690 | 10878661 | 10886746 | 0.43 | cps |
| Barium | 137-1 | 18576689 | 18790215 | 18694350 | 18687085 | 0.57 | cps |
| Beryllium | 9-1 | 1997503 | 2035195 | 2065503 | 2032734 | 1.68 | cps |
| Bismuth | 209-1 | 6117815 | 5961556 | 6016339 | 6031903 | 1.31 | cps |
| Bismuth | 209-2 | 2898560 | 2880957 | 2925525 | 2901680 | 0.77 | cps |
| Bromine | 81-1 | 28292 | 29668 | 30300 | 29420 | 3.49 | cps |
| Cadmium | 108-1 | 186487 | 189050 | 191021 | 188853 | 1.20 | cps |
| Cadmium | 106-1 | 271681 | 271497 | 270386 | 271188 | 0.26 | cps |
| Cadmium | 111-1 | 2405018 | 2456233 | 2453344 | 2438198 | 1.18 | cps |
| Calcium | 43-1 | 2946943 | 2910122 | 2898166 | 2918410 | 0.87 | cps |
| Calcium | 44-1 | 47287188 | 46966339 | 47281691 | 47178406 | 0.39 | cps |
| Carbon | 12-1 | 4999048 | 4993976 | 4903651 | 4965558 | 1.08 | cps |
| Carbon | 12-2 | 37945 | 37561 | 37959 | 37822 | 0.60 | cps |
| Chlorine | 35-1 | 238727 | 245565 | 245250 | 243181 | 1.59 | cps |
| Chlorine | 35-2 | 1183 | 1253 | 1280 | 1239 | 4.03 | cps |
| Chromium | 52-2 | 2409607 | 2390601 | 2330257 | 2376822 | 1.74 | cps |
| Cobalt | 59-2 | 4252058 | 4307378 | 4227644 | 4262360 | 0.96 | cps |
| Copper | 63-2 | 35778230 | 35556220 | 35649004 | 35661152 | 0.31 | cps |
| Dysprosium | 156-1 | 233 | 220 | 243 | 232 | 5.04 | cps |
| Dysprosium | 156-2 | 60 | 47 | 57 | 54 | 12.74 | cps |
| Erbium | 164-1 | 203 | 277 | 210 | 230 | 17.63 | cps |
| Erbium | 164-2 | 77 | 90 | 67 | 78 | 15.05 | cps |
| Gadolinium | 160-1 | 253 | 223 | 250 | 242 | 6.79 | cps |
| Gadolinium | 160-2 | 63 | 53 | 63 | 60 | 9.62 | cps |
| Holmium | 165-1 | 10670365 | 10897352 | 10479156 | 10682291 | 1.96 | cps |
| Holmium | 165-2 | 4291029 | 4268475 | 4264947 | 4274817 | 0.33 | cps |
| Indium | 115-1 | 9105048 | 9230590 | 9002756 | 9112798 | 1.25 | cps |
| Indium | 115-2 | 1085080 | 1089261 | 1083366 | 1085903 | 0.28 | cps |
| Iron | 54-2 | 4833500 | 4856035 | 4776195 | 4821910 | 0.85 | cps |
| Iron | 56-2 | 87211262 | 87826222 | 86941149 | 87326211 | 0.52 | cps |
| Iron | 57-2 | 2207375 | 2260432 | 2240638 | 2236148 | 1.20 | cps |
| Krypton | 83-1 | 390 | 483 | 343 | 406 | 17.58 | cps |
| Lead | 206-1 | 30654903 | 30911179 | 30014478 | 30526853 | 1.51 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P8 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:45:39 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 26259418 | 25814111 | 25899504 | 25991011 | 0.91 | cps |
| Lead | 208-1 | 120766353 | 119307884 | 119605699 | 119893312 | 0.64 | cps |
| Lithium | 6-1 | 3214370 | 3218731 | 3192543 | 3208548 | 0.44 | cps |
| Magnesium | 24-2 | 13310214 | 13076799 | 13169655 | 13185556 | 0.89 | cps |
| Manganese | 55-2 | 11185253 | 11263188 | 10893734 | 11114058 | 1.75 | cps |
| Molybdenum | 94-1 | 32261516 | 32871002 | 32619348 | 32583955 | 0.94 | cps |
| Molybdenum | 95-1 | 46970258 | 47457234 | 47586283 | 47337925 | 0.69 | cps |
| Molybdenum | 96-1 | 51851234 | 51726139 | 51479826 | 51685733 | 0.37 | cps |
| Molybdenum | 97-1 | 29333099 | 29724737 | 29041081 | 29366306 | 1.17 | cps |
| Molybdenum | 98-1 | 76183439 | 77065819 | 74916862 | 76055373 | 1.42 | cps |
| Neodymium | 150-1 | 780 | 690 | 783 | 751 | 7.05 | cps |
| Neodymium | 150-2 | 23 | 57 | 43 | 41 | 40.82 | cps |
| Nickel | 60-2 | 1131343 | 1142341 | 1130912 | 1134865 | 0.57 | cps |
| Phosphorus | 31-2 | 41268 | 40844 | 40744 | 40952 | 0.68 | cps |
| Potassium | 39-2 | 4722173 | 4736928 | 4684580 | 4714560 | 0.57 | cps |
| Rhodium | 103-1 | 8775173 | 8778544 | 8447056 | 8666924 | 2.20 | cps |
| Rhodium | 103-2 | 3825256 | 3818902 | 3798879 | 3814346 | 0.36 | cps |
| Scandium | 45-1 | 6067093 | 5982408 | 5986113 | 6011871 | 0.80 | cps |
| Scandium | 45-2 | 149899 | 150414 | 151472 | 150595 | 0.53 | cps |
| Selenium | 82-1 | 147133 | 151180 | 147689 | 148667 | 1.48 | cps |
| Selenium | 77-2 | 3277 | 3134 | 3260 | 3224 | 2.43 | cps |
| Selenium | 78-2 | 11448 | 11074 | 11071 | 11198 | 1.93 | cps |
| Silicon | 28-1 | 38709179 | 39176609 | 38631985 | 38839258 | 0.76 | cps |
| Silver | 107-1 | 11996501 | 11937464 | 12139490 | 12024485 | 0.86 | cps |
| Silver | 109-1 | 11597631 | 11629114 | 11645593 | 11624113 | 0.21 | cps |
| Sodium | 23-2 | 26479810 | 26342080 | 26494305 | 26438732 | 0.32 | cps |
| Strontium | 86-1 | 3098982 | 3081826 | 3082374 | 3087727 | 0.32 | cps |
| Strontium | 88-1 | 26654712 | 26830300 | 26628999 | 26704670 | 0.41 | cps |
| Sulfur | 34-1 | 1388378 | 1380859 | 1367868 | 1379035 | 0.75 | cps |
| Terbium | 159-1 | 11136435 | 11154568 | 10997667 | 11096223 | 0.77 | cps |
| Terbium | 159-2 | 4225364 | 4261988 | 4161439 | 4216264 | 1.21 | cps |
| Thallium | 203-1 | 7765344 | 7835670 | 7584407 | 7728474 | 1.68 | cps |
| Thallium | 205-1 | 18327949 | 18357168 | 17815398 | 18166838 | 1.68 | cps |
| Tin | 118-1 | 7480234 | 7585882 | 7323580 | 7463232 | 1.77 | cps |
| Titanium | 47-1 | 13162120 | 13061566 | 13023958 | 13082548 | 0.55 | cps |
| Uranium | 238-1 | 22044265 | 21570913 | 22269753 | 21961643 | 1.62 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P8 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:45:39 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1772448 | 1752336 | 1762402 | 1762395 | 0.57 | cps |
| Ytterbium | 172-1 | 197 | 207 | 170 | 191 | 9.92 | cps |
| Ytterbium | 172-2 | 117 | 133 | 97 | 116 | 15.89 | cps |
| Ytterbium | 176-1 | 37517 | 38590 | 37877 | 37995 | 1.44 | cps |
| Ytterbium | 176-2 | 15225 | 14925 | 15256 | 15135 | 1.21 | cps |
| Yttrium | 89-1 | 16819311 | 16674346 | 16683508 | 16725722 | 0.49 | cps |
| Yttrium | 89-2 | 1490259 | 1506242 | 1504087 | 1500196 | 0.58 | cps |
| Zinc | 66-2 | 4176482 | 4178931 | 4227503 | 4194305 | 0.69 | cps |
| Zirconium | 90-1 | 16348927 | 16601546 | 16478412 | 16476295 | 0.77 | cps |
| Zirconium | 91-1 | 3637687 | 3651162 | 3702866 | 3663905 | 0.94 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P8 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:48:26 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1482213 | 1466199 | 1463197 | 1470536 | 0.70 | cps |
| Antimony | 121-1 | 17875270 | 17793118 | 17815615 | 17828001 | 0.24 | cps |
| Arsenic | 75-2 | 441758 | 438420 | 443860 | 441346 | 0.62 | cps |
| Barium | 135-1 | 21687408 | 21622136 | 21649385 | 21652976 | 0.15 | cps |
| Barium | 137-1 | 36948380 | 36942020 | 37102097 | 36997499 | 0.24 | cps |
| Beryllium | 9-1 | 3880855 | 3882860 | 3937990 | 3900569 | 0.83 | cps |
| Bismuth | 209-1 | 5521157 | 5823219 | 5860022 | 5734799 | 3.24 | cps |
| Bismuth | 209-2 | 2804497 | 2830122 | 2814885 | 2816501 | 0.46 | cps |
| Bromine | 81-1 | 29334 | 29802 | 29414 | 29517 | 0.85 | cps |
| Cadmium | 108-1 | 366617 | 364742 | 367811 | 366390 | 0.42 | cps |
| Cadmium | 106-1 | 522198 | 523190 | 524129 | 523173 | 0.18 | cps |
| Cadmium | 111-1 | 4675972 | 4683062 | 4746518 | 4701851 | 0.83 | cps |
| Calcium | 43-1 | 5621517 | 5725833 | 5664666 | 5670672 | 0.92 | cps |
| Calcium | 44-1 | 91894022 | 92968502 | 91916002 | 92259509 | 0.67 | cps |
| Carbon | 12-1 | 5346472 | 5402107 | 5425341 | 5391307 | 0.75 | cps |
| Carbon | 12-2 | 43073 | 43009 | 43003 | 43028 | 0.09 | cps |
| Chlorine | 35-1 | 265761 | 269173 | 272504 | 269146 | 1.25 | cps |
| Chlorine | 35-2 | 1433 | 1453 | 1500 | 1462 | 2.34 | cps |
| Chromium | 52-2 | 4637902 | 4605422 | 4516374 | 4586566 | 1.37 | cps |
| Cobalt | 59-2 | 8164300 | 8176408 | 8248048 | 8196252 | 0.55 | cps |
| Copper | 63-2 | 68405177 | 68693869 | 68972146 | 68690397 | 0.41 | cps |
| Dysprosium | 156-1 | 373 | 507 | 383 | 421 | 17.64 | cps |
| Dysprosium | 156-2 | 70 | 90 | 77 | 79 | 12.91 | cps |
| Erbium | 164-1 | 287 | 337 | 360 | 328 | 11.43 | cps |
| Erbium | 164-2 | 133 | 120 | 97 | 117 | 15.91 | cps |
| Gadolinium | 160-1 | 257 | 333 | 370 | 320 | 18.07 | cps |
| Gadolinium | 160-2 | 97 | 100 | 100 | 99 | 1.94 | cps |
| Holmium | 165-1 | 9815222 | 10598976 | 10397739 | 10270645 | 3.96 | cps |
| Holmium | 165-2 | 4237479 | 4243150 | 4348013 | 4276214 | 1.46 | cps |
| Indium | 115-1 | 8208649 | 8662127 | 8743664 | 8538146 | 3.38 | cps |
| Indium | 115-2 | 1022355 | 1023352 | 1036780 | 1027496 | 0.78 | cps |
| Iron | 54-2 | 9538683 | 9415547 | 9356245 | 9436825 | 0.99 | cps |
| Iron | 56-2 | 172559391 | 171394377 | 171405184 | 171786317 | 0.39 | cps |
| Iron | 57-2 | 4328044 | 4320850 | 4359134 | 4336009 | 0.47 | cps |
| Krypton | 83-1 | 433 | 370 | 487 | 430 | 13.58 | cps |
| Lead | 206-1 | 58456724 | 59466684 | 59146251 | 59023220 | 0.87 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P8 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:48:26 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 50459104 | 51014678 | 50433186 | 50635656 | 0.65 | cps |
| Lead | 208-1 | 231416747 | 234901756 | 232687015 | 233001839 | 0.76 | cps |
| Lithium | 6-1 | 3038931 | 3140856 | 3170445 | 3116744 | 2.21 | cps |
| Magnesium | 24-2 | 25886998 | 25993529 | 25800528 | 25893685 | 0.37 | cps |
| Manganese | 55-2 | 21838514 | 21771906 | 21710212 | 21773544 | 0.29 | cps |
| Molybdenum | 94-1 | 64051919 | 63781362 | 65315867 | 64383050 | 1.27 | cps |
| Molybdenum | 95-1 | 93122455 | 91849805 | 93729219 | 92900493 | 1.03 | cps |
| Molybdenum | 96-1 | 101773998 | 100815322 | 102469552 | 101686291 | 0.82 | cps |
| Molybdenum | 97-1 | 57005246 | 57425586 | 57272749 | 57234527 | 0.37 | cps |
| Molybdenum | 98-1 | 150959574 | 149633898 | 149554044 | 150049172 | 0.53 | cps |
| Neodymium | 150-1 | 1453 | 1503 | 1550 | 1502 | 3.22 | cps |
| Neodymium | 150-2 | 93 | 93 | 110 | 99 | 9.73 | cps |
| Nickel | 60-2 | 2347889 | 2318285 | 2359099 | 2341757 | 0.90 | cps |
| Phosphorus | 31-2 | 79747 | 80220 | 79741 | 79903 | 0.34 | cps |
| Potassium | 39-2 | 9368743 | 9423496 | 9239495 | 9343911 | 1.01 | cps |
| Rhodium | 103-1 | 7816075 | 8350933 | 8350064 | 8172357 | 3.78 | cps |
| Rhodium | 103-2 | 3699323 | 3682958 | 3682800 | 3688360 | 0.26 | cps |
| Scandium | 45-1 | 5541198 | 5914157 | 5950423 | 5801926 | 3.90 | cps |
| Scandium | 45-2 | 148818 | 152465 | 149107 | 150130 | 1.35 | cps |
| Selenium | 82-1 | 282352 | 285807 | 288732 | 285631 | 1.12 | cps |
| Selenium | 77-2 | 6692 | 6158 | 6251 | 6367 | 4.48 | cps |
| Selenium | 78-2 | 22201 | 21633 | 21700 | 21845 | 1.42 | cps |
| Silicon | 28-1 | 74240337 | 74029867 | 73445154 | 73905119 | 0.56 | cps |
| Silver | 107-1 | 23476669 | 23392354 | 23521560 | 23463528 | 0.28 | cps |
| Silver | 109-1 | 22213476 | 22418399 | 22240261 | 22290712 | 0.50 | cps |
| Sodium | 23-2 | 52291733 | 52073113 | 51994616 | 52119820 | 0.30 | cps |
| Strontium | 86-1 | 6030508 | 6063723 | 5947469 | 6013900 | 1.00 | cps |
| Strontium | 88-1 | 52348968 | 53108688 | 52147869 | 52535175 | 0.96 | cps |
| Sulfur | 34-1 | 2027353 | 2029649 | 2051844 | 2036282 | 0.66 | cps |
| Terbium | 159-1 | 10104625 | 10864557 | 10840549 | 10603244 | 4.07 | cps |
| Terbium | 159-2 | 4199140 | 4156384 | 4150690 | 4168738 | 0.64 | cps |
| Thallium | 203-1 | 14772540 | 14902384 | 14982991 | 14885972 | 0.71 | cps |
| Thallium | 205-1 | 34960144 | 35229793 | 35643925 | 35277954 | 0.98 | cps |
| Tin | 118-1 | 14466636 | 14548947 | 14452101 | 14489228 | 0.36 | cps |
| Titanium | 47-1 | 25755706 | 25925782 | 25785425 | 25822305 | 0.35 | cps |
| Uranium | 238-1 | 43143630 | 43333843 | 43737619 | 43405031 | 0.70 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P8 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:48:26 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3487707 | 3458640 | 3426739 | 3457696 | 0.88 | cps |
| Ytterbium | 172-1 | 347 | 277 | 373 | 332 | 15.03 | cps |
| Ytterbium | 172-2 | 180 | 177 | 183 | 180 | 1.85 | cps |
| Ytterbium | 176-1 | 73272 | 72678 | 73851 | 73267 | 0.80 | cps |
| Ytterbium | 176-2 | 28832 | 29145 | 28203 | 28727 | 1.67 | cps |
| Yttrium | 89-1 | 15528418 | 16879211 | 16502886 | 16303505 | 4.28 | cps |
| Yttrium | 89-2 | 1491722 | 1497741 | 1476419 | 1488627 | 0.74 | cps |
| Zinc | 66-2 | 8060392 | 7997504 | 8235776 | 8097891 | 1.52 | cps |
| Zirconium | 90-1 | 32346708 | 32891697 | 32639754 | 32626053 | 0.84 | cps |
| Zirconium | 91-1 | 7232736 | 7202117 | 7233446 | 7222766 | 0.25 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P8 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:51:11 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2968381 | 2980581 | 2925810 | 2958258 | 0.97 | cps |
| Antimony | 121-1 | 34987019 | 34955107 | 35358316 | 35100148 | 0.64 | cps |
| Arsenic | 75-2 | 874342 | 864020 | 862917 | 867093 | 0.73 | cps |
| Barium | 135-1 | 42421554 | 42623176 | 43018626 | 42687785 | 0.71 | cps |
| Barium | 137-1 | 72497381 | 73246457 | 73294834 | 73012891 | 0.61 | cps |
| Beryllium | 9-1 | 7650947 | 7668135 | 7712427 | 7677170 | 0.41 | cps |
| Bismuth | 209-1 | 5644073 | 5506498 | 5573693 | 5574755 | 1.23 | cps |
| Bismuth | 209-2 | 2700224 | 2757229 | 2706038 | 2721164 | 1.15 | cps |
| Bromine | 81-1 | 29701 | 30166 | 29835 | 29901 | 0.80 | cps |
| Cadmium | 108-1 | 708920 | 707348 | 715882 | 710717 | 0.64 | cps |
| Cadmium | 106-1 | 1014753 | 1011785 | 1027296 | 1017945 | 0.81 | cps |
| Cadmium | 111-1 | 8993803 | 8984402 | 8971972 | 8983392 | 0.12 | cps |
| Calcium | 43-1 | 11391267 | 11386294 | 11333019 | 11370194 | 0.28 | cps |
| Calcium | 44-1 | 184930144 | 184854117 | 184279931 | 184688064 | 0.19 | cps |
| Carbon | 12-1 | 6327187 | 6473602 | 6630077 | 6476955 | 2.34 | cps |
| Carbon | 12-2 | 53126 | 54246 | 54035 | 53802 | 1.11 | cps |
| Chlorine | 35-1 | 326837 | 335049 | 340768 | 334218 | 2.10 | cps |
| Chlorine | 35-2 | 1927 | 1883 | 1860 | 1890 | 1.79 | cps |
| Chromium | 52-2 | 8978077 | 8986779 | 8839034 | 8934630 | 0.93 | cps |
| Cobalt | 59-2 | 16157206 | 16177359 | 16103720 | 16146095 | 0.24 | cps |
| Copper | 63-2 | 133836795 | 134041231 | 133224678 | 133700901 | 0.32 | cps |
| Dysprosium | 156-1 | 817 | 960 | 923 | 900 | 8.27 | cps |
| Dysprosium | 156-2 | 140 | 183 | 173 | 166 | 13.71 | cps |
| Erbium | 164-1 | 540 | 520 | 663 | 574 | 13.51 | cps |
| Erbium | 164-2 | 223 | 193 | 207 | 208 | 7.23 | cps |
| Gadolinium | 160-1 | 457 | 443 | 550 | 483 | 12.03 | cps |
| Gadolinium | 160-2 | 223 | 183 | 173 | 193 | 13.68 | cps |
| Holmium | 165-1 | 10323356 | 10484794 | 10284365 | 10364172 | 1.03 | cps |
| Holmium | 165-2 | 4231975 | 4159732 | 4280370 | 4224026 | 1.44 | cps |
| Indium | 115-1 | 8241871 | 8195240 | 8235877 | 8224329 | 0.31 | cps |
| Indium | 115-2 | 946410 | 945451 | 946138 | 946000 | 0.05 | cps |
| Iron | 54-2 | 18378044 | 18683204 | 18359836 | 18473695 | 0.98 | cps |
| Iron | 56-2 | 334951088 | 338615322 | 334745662 | 336104024 | 0.65 | cps |
| Iron | 57-2 | 8592941 | 8508503 | 8576799 | 8559414 | 0.52 | cps |
| Krypton | 83-1 | 503 | 460 | 417 | 460 | 9.42 | cps |
| Lead | 206-1 | 115724572 | 116045548 | 117411438 | 116393853 | 0.77 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P8 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:51:11 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 98457045 | 97900199 | 99666112 | 98674452 | 0.91 | cps |
| Lead | 208-1 | 451933807 | 452839930 | 460094106 | 454955948 | 0.98 | cps |
| Lithium | 6-1 | 3136578 | 3184207 | 3164509 | 3161765 | 0.76 | cps |
| Magnesium | 24-2 | 51041919 | 51017549 | 50953471 | 51004313 | 0.09 | cps |
| Manganese | 55-2 | 42669616 | 43445451 | 42497429 | 42870832 | 1.18 | cps |
| Molybdenum | 94-1 | 125632728 | 128530518 | 129545595 | 127902947 | 1.59 | cps |
| Molybdenum | 95-1 | 184728204 | 186902557 | 186567651 | 186066137 | 0.63 | cps |
| Molybdenum | 96-1 | 202080357 | 203507244 | 204593524 | 203393708 | 0.62 | cps |
| Molybdenum | 97-1 | 111605422 | 114205088 | 115255115 | 113688542 | 1.65 | cps |
| Molybdenum | 98-1 | 296261676 | 298129202 | 301772716 | 298721198 | 0.94 | cps |
| Neodymium | 150-1 | 3087 | 3084 | 2897 | 3023 | 3.60 | cps |
| Neodymium | 150-2 | 170 | 190 | 153 | 171 | 10.73 | cps |
| Nickel | 60-2 | 4523383 | 4411807 | 4463728 | 4466306 | 1.25 | cps |
| Phosphorus | 31-2 | 156868 | 158269 | 155196 | 156778 | 0.98 | cps |
| Potassium | 39-2 | 18780481 | 18738783 | 18526309 | 18681858 | 0.73 | cps |
| Rhodium | 103-1 | 8113882 | 8091481 | 8231226 | 8145529 | 0.92 | cps |
| Rhodium | 103-2 | 3566599 | 3594183 | 3644277 | 3601686 | 1.09 | cps |
| Scandium | 45-1 | 6014477 | 5975769 | 6055416 | 6015221 | 0.66 | cps |
| Scandium | 45-2 | 155990 | 156262 | 155012 | 155755 | 0.42 | cps |
| Selenium | 82-1 | 555846 | 552756 | 555956 | 554853 | 0.33 | cps |
| Selenium | 77-2 | 12549 | 12903 | 12285 | 12579 | 2.46 | cps |
| Selenium | 78-2 | 41855 | 42434 | 41384 | 41891 | 1.26 | cps |
| Silicon | 28-1 | 139777921 | 140125455 | 139431231 | 139778202 | 0.25 | cps |
| Silver | 107-1 | 44747498 | 45826321 | 45159358 | 45244392 | 1.20 | cps |
| Silver | 109-1 | 42181143 | 42117813 | 42181143 | 42160033 | 0.09 | cps |
| Sodium | 23-2 | 103702412 | 103444975 | 104442865 | 103863417 | 0.50 | cps |
| Strontium | 86-1 | 11766080 | 11961752 | 11919502 | 11882445 | 0.87 | cps |
| Strontium | 88-1 | 101742352 | 103340735 | 103733935 | 102939007 | 1.02 | cps |
| Sulfur | 34-1 | 3415410 | 3442228 | 3436085 | 3431241 | 0.41 | cps |
| Terbium | 159-1 | 10607710 | 10669760 | 10703069 | 10660180 | 0.45 | cps |
| Terbium | 159-2 | 4107934 | 4157807 | 4150033 | 4138592 | 0.65 | cps |
| Thallium | 203-1 | 29199665 | 29404662 | 29192960 | 29265763 | 0.41 | cps |
| Thallium | 205-1 | 68848616 | 69817066 | 69680072 | 69448585 | 0.75 | cps |
| Tin | 118-1 | 28191496 | 28391683 | 28376793 | 28319991 | 0.39 | cps |
| Titanium | 47-1 | 51597256 | 52147931 | 52022986 | 51922724 | 0.56 | cps |
| Uranium | 238-1 | 85336085 | 85293705 | 85194900 | 85274897 | 0.08 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P8 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:51:11 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 6777420 | 6880186 | 6838092 | 6831899 | 0.76 | cps |
| Ytterbium | 172-1 | 613 | 703 | 803 | 707 | 13.45 | cps |
| Ytterbium | 172-2 | 320 | 293 | 307 | 307 | 4.35 | cps |
| Ytterbium | 176-1 | 143221 | 144319 | 145003 | 144181 | 0.62 | cps |
| Ytterbium | 176-2 | 57846 | 57498 | 57069 | 57471 | 0.68 | cps |
| Yttrium | 89-1 | 16068455 | 16293138 | 16550419 | 16304004 | 1.48 | cps |
| Yttrium | 89-2 | 1402888 | 1492844 | 1470830 | 1455521 | 3.22 | cps |
| Zinc | 66-2 | 15828644 | 15648638 | 15618435 | 15698572 | 0.72 | cps |
| Zirconium | 90-1 | 63435464 | 64783706 | 65889766 | 64702978 | 1.90 | cps |
| Zirconium | 91-1 | 14253568 | 14679959 | 14709155 | 14547561 | 1.75 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P8 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:54:02 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 13982132 | 14388730 | 14360281 | 14243715 | 1.59 | cps |
| Antimony | 121-1 | 15102 | 14648 | 13957 | 14569 | 3.96 | cps |
| Arsenic | 75-2 | 443 | 367 | 413 | 408 | 9.47 | cps |
| Barium | 135-1 | 14832 | 14718 | 14748 | 14766 | 0.40 | cps |
| Barium | 137-1 | 26356 | 25678 | 24863 | 25632 | 2.92 | cps |
| Beryllium | 9-1 | 377 | 316 | 250 | 315 | 20.12 | cps |
| Bismuth | 209-1 | 4762122 | 4594762 | 4692935 | 4683273 | 1.80 | cps |
| Bismuth | 209-2 | 2361286 | 2320072 | 2286304 | 2322554 | 1.62 | cps |
| Bromine | 81-1 | 29040 | 28689 | 28399 | 28709 | 1.12 | cps |
| Cadmium | 108-1 | 223 | 240 | 307 | 257 | 17.18 | cps |
| Cadmium | 106-1 | 6235 | 6452 | 6301 | 6329 | 1.75 | cps |
| Cadmium | 111-1 | 5541 | 5488 | 5370 | 5466 | 1.61 | cps |
| Calcium | 43-1 | 49616864 | 49780381 | 49976706 | 49791317 | 0.36 | cps |
| Calcium | 44-1 | 818769428 | 813226361 | 815856228 | 815950672 | 0.34 | cps |
| Carbon | 12-1 | 5327062 | 5231278 | 5198959 | 5252433 | 1.27 | cps |
| Carbon | 12-2 | 56334 | 55792 | 57170 | 56432 | 1.23 | cps |
| Chlorine | 35-1 | 206041 | 204019 | 202465 | 204175 | 0.88 | cps |
| Chlorine | 35-2 | 1183 | 1297 | 1287 | 1256 | 5.00 | cps |
| Chromium | 52-2 | 70603 | 70750 | 72640 | 71331 | 1.59 | cps |
| Cobalt | 59-2 | 32093 | 31879 | 32908 | 32293 | 1.68 | cps |
| Copper | 63-2 | 95897 | 96807 | 96931 | 96545 | 0.58 | cps |
| Dysprosium | 156-1 | 1040 | 1037 | 1133 | 1070 | 5.13 | cps |
| Dysprosium | 156-2 | 307 | 403 | 353 | 354 | 13.64 | cps |
| Erbium | 164-1 | 1290 | 1310 | 1107 | 1236 | 9.07 | cps |
| Erbium | 164-2 | 393 | 507 | 540 | 480 | 16.02 | cps |
| Gadolinium | 160-1 | 1000 | 897 | 1037 | 978 | 7.42 | cps |
| Gadolinium | 160-2 | 453 | 430 | 393 | 426 | 7.11 | cps |
| Holmium | 165-1 | 9386245 | 9351111 | 9118761 | 9285372 | 1.57 | cps |
| Holmium | 165-2 | 3904473 | 3944538 | 3929613 | 3926208 | 0.52 | cps |
| Indium | 115-1 | 7687338 | 7616813 | 7634949 | 7646367 | 0.48 | cps |
| Indium | 115-2 | 988696 | 990952 | 999540 | 993063 | 0.58 | cps |
| Iron | 54-2 | 82205592 | 83224857 | 84206269 | 83212239 | 1.20 | cps |
| Iron | 56-2 | 1549287070 | 1548809310 | 1541175390 | 1546423924 | 0.29 | cps |
| Iron | 57-2 | 38666059 | 39372296 | 39371041 | 39136466 | 1.04 | cps |
| Krypton | 83-1 | 457 | 483 | 533 | 491 | 7.93 | cps |
| Lead | 206-1 | 77242 | 76775 | 75344 | 76454 | 1.29 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P8 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:54:02 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 64784 | 64915 | 63706 | 64468 | 1.03 | cps |
| Lead | 208-1 | 302550 | 297108 | 294969 | 298209 | 1.31 | cps |
| Lithium | 6-1 | 2803438 | 2823042 | 2788226 | 2804902 | 0.62 | cps |
| Magnesium | 24-2 | 237344690 | 237313690 | 236359723 | 237006034 | 0.24 | cps |
| Manganese | 55-2 | 21556 | 21269 | 21046 | 21290 | 1.20 | cps |
| Molybdenum | 94-1 | 23223 | 22452 | 22118 | 22597 | 2.51 | cps |
| Molybdenum | 95-1 | 22004 | 21507 | 20959 | 21490 | 2.43 | cps |
| Molybdenum | 96-1 | 39092 | 37985 | 36939 | 38005 | 2.83 | cps |
| Molybdenum | 97-1 | 13937 | 12552 | 12462 | 12984 | 6.37 | cps |
| Molybdenum | 98-1 | 34022 | 32729 | 31068 | 32606 | 4.54 | cps |
| Neodymium | 150-1 | 543 | 567 | 627 | 579 | 7.43 | cps |
| Neodymium | 150-2 | 197 | 190 | 140 | 176 | 17.64 | cps |
| Nickel | 60-2 | 33646 | 33767 | 33910 | 33775 | 0.39 | cps |
| Phosphorus | 31-2 | 247 | 193 | 247 | 229 | 13.45 | cps |
| Potassium | 39-2 | 92021085 | 91463855 | 92017162 | 91834034 | 0.35 | cps |
| Rhodium | 103-1 | 6845472 | 6996270 | 6853501 | 6898414 | 1.23 | cps |
| Rhodium | 103-2 | 3154075 | 3132512 | 3174641 | 3153743 | 0.67 | cps |
| Scandium | 45-1 | 5386564 | 5443868 | 5424753 | 5418395 | 0.54 | cps |
| Scandium | 45-2 | 145616 | 144098 | 144861 | 144858 | 0.52 | cps |
| Selenium | 82-1 | 373 | 287 | 470 | 377 | 24.35 | cps |
| Selenium | 77-2 | 13 | 3 | 0 | 6 | 124.93 | cps |
| Selenium | 78-2 | 57 | 43 | 47 | 49 | 14.20 | cps |
| Silicon | 28-1 | 962683 | 913594 | 1059987 | 978755 | 7.61 | cps |
| Silver | 107-1 | 4341 | 3957 | 3470 | 3923 | 11.12 | cps |
| Silver | 109-1 | 3944 | 3947 | 3334 | 3742 | 9.44 | cps |
| Sodium | 23-2 | 486023006 | 488833286 | 486373286 | 487076526 | 0.31 | cps |
| Strontium | 86-1 | 35448 | 34773 | 34773 | 34998 | 1.11 | cps |
| Strontium | 88-1 | 299443 | 299170 | 301312 | 299975 | 0.39 | cps |
| Sulfur | 34-1 | 606333 | 594810 | 597518 | 599554 | 1.00 | cps |
| Terbium | 159-1 | 9695321 | 9617660 | 9590987 | 9634656 | 0.56 | cps |
| Terbium | 159-2 | 3805847 | 3846031 | 3829917 | 3827265 | 0.53 | cps |
| Thallium | 203-1 | 2087 | 1810 | 1650 | 1849 | 11.95 | cps |
| Thallium | 205-1 | 4878 | 4261 | 3957 | 4365 | 10.74 | cps |
| Tin | 118-1 | 10548 | 9800 | 10111 | 10153 | 3.70 | cps |
| Titanium | 47-1 | 4037 | 3797 | 4014 | 3949 | 3.35 | cps |
| Uranium | 238-1 | 3674 | 3030 | 2717 | 3140 | 15.53 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P8 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 11:54:02 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1797 | 1743 | 1543 | 1695 | 7.88 | cps |
| Ytterbium | 172-1 | 1924 | 2047 | 2010 | 1994 | 3.18 | cps |
| Ytterbium | 172-2 | 807 | 843 | 930 | 860 | 7.36 | cps |
| Ytterbium | 176-1 | 2664 | 2767 | 2714 | 2715 | 1.90 | cps |
| Ytterbium | 176-2 | 957 | 1057 | 923 | 979 | 7.09 | cps |
| Yttrium | 89-1 | 14915256 | 14653568 | 14798153 | 14788992 | 0.89 | cps |
| Yttrium | 89-2 | 1380806 | 1382381 | 1397300 | 1386829 | 0.66 | cps |
| Zinc | 66-2 | 29063 | 29093 | 29377 | 29178 | 0.59 | cps |
| Zirconium | 90-1 | 28155 | 27604 | 26726 | 27495 | 2.62 | cps |
| Zirconium | 91-1 | 6225 | 6175 | 5998 | 6133 | 1.94 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:40:43 | DataFile Name : | 017ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 77170 | 77368 | 75635 | 76724 | 1.24 | cps |
| Antimony | 121-1 | 7329904 | 7240271 | 7287060 | 7285745 | 0.62 | cps |
| Arsenic | 75-2 | 190243 | 187530 | 185157 | 187643 | 1.36 | cps |
| Barium | 135-1 | 853632 | 860718 | 870295 | 861548 | 0.97 | cps |
| Barium | 137-1 | 1557888 | 1531854 | 1512582 | 1534108 | 1.48 | cps |
| Beryllium | 9-1 | 807378 | 802644 | 809141 | 806388 | 0.42 | cps |
| Bismuth | 209-1 | 6285840 | 6469071 | 6245343 | 6333418 | 1.88 | cps |
| Bismuth | 209-2 | 2998753 | 2995382 | 2968030 | 2987388 | 0.56 | cps |
| Bromine | 81-1 | 30507 | 31408 | 31005 | 30973 | 1.46 | cps |
| Cadmium | 108-1 | 132816 | 134146 | 134769 | 133910 | 0.74 | cps |
| Cadmium | 106-1 | 207030 | 207259 | 206741 | 207010 | 0.13 | cps |
| Cadmium | 111-1 | 1007333 | 1023791 | 1023966 | 1018364 | 0.94 | cps |
| Calcium | 43-1 | 271247 | 273953 | 272598 | 272599 | 0.50 | cps |
| Calcium | 44-1 | 4209891 | 4183348 | 4226703 | 4206647 | 0.52 | cps |
| Carbon | 12-1 | 6250565 | 6360555 | 6358367 | 6323162 | 0.99 | cps |
| Carbon | 12-2 | 45727 | 46627 | 46426 | 46260 | 1.02 | cps |
| Chlorine | 35-1 | 241203 | 246539 | 248481 | 245408 | 1.54 | cps |
| Chlorine | 35-2 | 1390 | 1407 | 1447 | 1415 | 2.06 | cps |
| Chromium | 52-2 | 982238 | 972475 | 968668 | 974460 | 0.72 | cps |
| Cobalt | 59-2 | 1828674 | 1833845 | 1817134 | 1826551 | 0.47 | cps |
| Copper | 63-2 | 1362211 | 1355574 | 1360820 | 1359535 | 0.26 | cps |
| Dysprosium | 156-1 | 60 | 40 | 57 | 52 | 20.52 | cps |
| Dysprosium | 156-2 | 20 | 20 | 10 | 17 | 34.64 | cps |
| Erbium | 164-1 | 97 | 93 | 73 | 88 | 14.38 | cps |
| Erbium | 164-2 | 47 | 33 | 23 | 34 | 34.00 | cps |
| Gadolinium | 160-1 | 120 | 143 | 113 | 126 | 12.55 | cps |
| Gadolinium | 160-2 | 33 | 50 | 30 | 38 | 28.37 | cps |
| Holmium | 165-1 | 10908114 | 10837478 | 10920107 | 10888566 | 0.41 | cps |
| Holmium | 165-2 | 4327159 | 4347164 | 4324758 | 4333027 | 0.28 | cps |
| Indium | 115-1 | 9421270 | 9361817 | 9373168 | 9385418 | 0.34 | cps |
| Indium | 115-2 | 1093787 | 1100727 | 1086905 | 1093806 | 0.63 | cps |
| Iron | 54-2 | 801177 | 798346 | 800212 | 799912 | 0.18 | cps |
| Iron | 56-2 | 14587345 | 14200479 | 14469080 | 14418968 | 1.37 | cps |
| Iron | 57-2 | 358619 | 356481 | 358355 | 357818 | 0.33 | cps |
| Krypton | 83-1 | 443 | 420 | 353 | 406 | 11.52 | cps |
| Lead | 206-1 | 5323072 | 5283943 | 5270467 | 5292494 | 0.52 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:40:43 | DataFile Name : | 017ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4389148 | 4371934 | 4421010 | 4394031 | 0.57 | cps |
| Lead | 208-1 | 20391427 | 20529823 | 20514651 | 20478634 | 0.37 | cps |
| Lithium | 6-1 | 3487382 | 3486662 | 3465138 | 3479728 | 0.36 | cps |
| Magnesium | 24-2 | 647220 | 641699 | 645914 | 644944 | 0.45 | cps |
| Manganese | 55-2 | 440431 | 432240 | 437131 | 436601 | 0.94 | cps |
| Molybdenum | 94-1 | 67041996 | 66148239 | 66743787 | 66644674 | 0.68 | cps |
| Molybdenum | 95-1 | 96331739 | 94553279 | 96829655 | 95904891 | 1.25 | cps |
| Molybdenum | 96-1 | 105967832 | 104598645 | 104372328 | 104979602 | 0.82 | cps |
| Molybdenum | 97-1 | 59103062 | 59736192 | 58774534 | 59204596 | 0.83 | cps |
| Molybdenum | 98-1 | 154248174 | 155615084 | 152598768 | 154154009 | 0.98 | cps |
| Neodymium | 150-1 | 87 | 57 | 90 | 78 | 23.60 | cps |
| Neodymium | 150-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Nickel | 60-2 | 516462 | 514548 | 515110 | 515373 | 0.19 | cps |
| Phosphorus | 31-2 | 153 | 180 | 193 | 176 | 11.60 | cps |
| Potassium | 39-2 | 803664 | 794106 | 792362 | 796711 | 0.76 | cps |
| Rhodium | 103-1 | 9166132 | 9377705 | 9215280 | 9253039 | 1.20 | cps |
| Rhodium | 103-2 | 4026608 | 4073148 | 3959117 | 4019624 | 1.43 | cps |
| Scandium | 45-1 | 6508457 | 6368040 | 6387674 | 6421390 | 1.18 | cps |
| Scandium | 45-2 | 164708 | 167524 | 165996 | 166076 | 0.85 | cps |
| Selenium | 82-1 | 120422 | 122802 | 122207 | 121811 | 1.02 | cps |
| Selenium | 77-2 | 2857 | 2694 | 2707 | 2753 | 3.30 | cps |
| Selenium | 78-2 | 9560 | 9183 | 9657 | 9467 | 2.64 | cps |
| Silicon | 28-1 | 10251853 | 10388728 | 10324280 | 10321620 | 0.66 | cps |
| Silver | 107-1 | 2482933 | 2488362 | 2494389 | 2488561 | 0.23 | cps |
| Silver | 109-1 | 2343773 | 2296588 | 2291579 | 2310647 | 1.25 | cps |
| Sodium | 23-2 | 2319122 | 2278711 | 2307293 | 2301708 | 0.90 | cps |
| Strontium | 86-1 | 6394981 | 6525584 | 6407154 | 6442573 | 1.12 | cps |
| Strontium | 88-1 | 55925896 | 56585326 | 56286146 | 56265789 | 0.59 | cps |
| Sulfur | 34-1 | 639495 | 642824 | 639223 | 640514 | 0.31 | cps |
| Terbium | 159-1 | 11212283 | 11125265 | 11263181 | 11200243 | 0.62 | cps |
| Terbium | 159-2 | 4262116 | 4202845 | 4246386 | 4237116 | 0.72 | cps |
| Thallium | 203-1 | 6576111 | 6507739 | 6463800 | 6515883 | 0.87 | cps |
| Thallium | 205-1 | 15310691 | 15253827 | 15351544 | 15305354 | 0.32 | cps |
| Tin | 118-1 | 15468550 | 15204206 | 15378624 | 15350460 | 0.88 | cps |
| Titanium | 47-1 | 26904655 | 26943964 | 26964613 | 26937744 | 0.11 | cps |
| Uranium | 238-1 | 47565578 | 48228429 | 48117613 | 47970540 | 0.74 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:40:43 | DataFile Name : | 017ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 706362 | 706600 | 707598 | 706853 | 0.09 | cps |
| Ytterbium | 172-1 | 307 | 297 | 310 | 304 | 2.28 | cps |
| Ytterbium | 172-2 | 140 | 147 | 193 | 160 | 18.16 | cps |
| Ytterbium | 176-1 | 71586 | 72625 | 73372 | 72527 | 1.24 | cps |
| Ytterbium | 176-2 | 28488 | 28380 | 29196 | 28688 | 1.54 | cps |
| Yttrium | 89-1 | 17876097 | 17669095 | 17710607 | 17751933 | 0.62 | cps |
| Yttrium | 89-2 | 1632866 | 1618149 | 1575071 | 1608695 | 1.87 | cps |
| Zinc | 66-2 | 348582 | 345919 | 342951 | 345817 | 0.81 | cps |
| Zirconium | 90-1 | 34011974 | 33197750 | 34343067 | 33850930 | 1.74 | cps |
| Zirconium | 91-1 | 7540693 | 7374467 | 7579730 | 7498297 | 1.45 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P8 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:44:45 | DataFile Name : | 018LLIC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3967 | 4147 | 4317 | 4144 | 4.22 | cps |
| Antimony | 121-1 | 70990 | 71529 | 69646 | 70722 | 1.37 | cps |
| Arsenic | 75-2 | 943 | 993 | 877 | 938 | 6.24 | cps |
| Barium | 135-1 | 84125 | 83237 | 83250 | 83538 | 0.61 | cps |
| Barium | 137-1 | 143198 | 144523 | 143623 | 143781 | 0.47 | cps |
| Beryllium | 9-1 | 9276 | 8919 | 9037 | 9078 | 2.00 | cps |
| Bismuth | 209-1 | 6394645 | 6240712 | 6303997 | 6313118 | 1.23 | cps |
| Bismuth | 209-2 | 3004824 | 3020810 | 2961833 | 2995822 | 1.02 | cps |
| Bromine | 81-1 | 31345 | 31519 | 32290 | 31718 | 1.59 | cps |
| Cadmium | 108-1 | 717 | 747 | 710 | 724 | 2.70 | cps |
| Cadmium | 106-1 | 8186 | 7652 | 7515 | 7784 | 4.55 | cps |
| Cadmium | 111-1 | 14341 | 14067 | 14281 | 14230 | 1.01 | cps |
| Calcium | 43-1 | 66345 | 67189 | 67220 | 66918 | 0.74 | cps |
| Calcium | 44-1 | 1098109 | 1102774 | 1100418 | 1100434 | 0.21 | cps |
| Carbon | 12-1 | 5206235 | 5081097 | 4986130 | 5091154 | 2.17 | cps |
| Carbon | 12-2 | 36462 | 36114 | 36499 | 36358 | 0.58 | cps |
| Chlorine | 35-1 | 211228 | 215251 | 217144 | 214541 | 1.41 | cps |
| Chlorine | 35-2 | 1213 | 1243 | 1143 | 1200 | 4.28 | cps |
| Chromium | 52-2 | 34331 | 34238 | 33199 | 33922 | 1.85 | cps |
| Cobalt | 59-2 | 18068 | 18055 | 17444 | 17856 | 2.00 | cps |
| Copper | 63-2 | 31251 | 30867 | 30199 | 30772 | 1.73 | cps |
| Dysprosium | 156-1 | 17 | 20 | 17 | 18 | 10.81 | cps |
| Dysprosium | 156-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 70 | 83 | 83 | 79 | 9.76 | cps |
| Erbium | 164-2 | 43 | 13 | 10 | 22 | 82.62 | cps |
| Gadolinium | 160-1 | 110 | 130 | 140 | 127 | 12.06 | cps |
| Gadolinium | 160-2 | 23 | 50 | 33 | 36 | 37.90 | cps |
| Holmium | 165-1 | 10656297 | 10573282 | 10821242 | 10683607 | 1.18 | cps |
| Holmium | 165-2 | 4316113 | 4265870 | 4321544 | 4301176 | 0.71 | cps |
| Indium | 115-1 | 9676140 | 9622596 | 9714005 | 9670914 | 0.47 | cps |
| Indium | 115-2 | 1160768 | 1155456 | 1164049 | 1160091 | 0.37 | cps |
| Iron | 54-2 | 24578 | 23974 | 23533 | 24028 | 2.18 | cps |
| Iron | 56-2 | 416570 | 419662 | 438588 | 424940 | 2.81 | cps |
| Iron | 57-2 | 10317 | 10697 | 9813 | 10276 | 4.32 | cps |
| Krypton | 83-1 | 417 | 420 | 440 | 426 | 2.97 | cps |
| Lead | 206-1 | 25675 | 25876 | 25422 | 25658 | 0.89 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P8 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:44:45 | DataFile Name : | 018LLIC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 22506 | 22723 | 21705 | 22312 | 2.40 | cps |
| Lead | 208-1 | 102780 | 101293 | 101310 | 101794 | 0.84 | cps |
| Lithium | 6-1 | 3447881 | 3567647 | 3567219 | 3527582 | 1.96 | cps |
| Magnesium | 24-2 | 284276 | 284347 | 280408 | 283011 | 0.80 | cps |
| Manganese | 55-2 | 6211 | 6425 | 6458 | 6365 | 2.10 | cps |
| Molybdenum | 94-1 | 76710 | 75738 | 75125 | 75857 | 1.05 | cps |
| Molybdenum | 95-1 | 92240 | 92435 | 91633 | 92103 | 0.45 | cps |
| Molybdenum | 96-1 | 102024 | 104217 | 103065 | 103102 | 1.06 | cps |
| Molybdenum | 97-1 | 58700 | 57850 | 57465 | 58005 | 1.09 | cps |
| Molybdenum | 98-1 | 150246 | 148805 | 149121 | 149391 | 0.51 | cps |
| Neodymium | 150-1 | 40 | 23 | 17 | 27 | 45.07 | cps |
| Neodymium | 150-2 | 0 | 3 | 10 | 4 | 114.60 | cps |
| Nickel | 60-2 | 8843 | 8576 | 8789 | 8736 | 1.62 | cps |
| Phosphorus | 31-2 | 667 | 600 | 500 | 589 | 14.25 | cps |
| Potassium | 39-2 | 222769 | 224400 | 222549 | 223239 | 0.45 | cps |
| Rhodium | 103-1 | 9267713 | 9249274 | 9201429 | 9239472 | 0.37 | cps |
| Rhodium | 103-2 | 4035412 | 4073638 | 4031071 | 4046707 | 0.58 | cps |
| Scandium | 45-1 | 6558785 | 6426775 | 6393288 | 6459616 | 1.35 | cps |
| Scandium | 45-2 | 161954 | 163603 | 160333 | 161963 | 1.01 | cps |
| Selenium | 82-1 | 3027 | 3000 | 2810 | 2946 | 4.01 | cps |
| Selenium | 77-2 | 60 | 53 | 57 | 57 | 5.89 | cps |
| Selenium | 78-2 | 290 | 237 | 240 | 256 | 11.69 | cps |
| Silicon | 28-1 | 815411 | 804624 | 791029 | 803688 | 1.52 | cps |
| Silver | 107-1 | 44642 | 44659 | 45234 | 44845 | 0.75 | cps |
| Silver | 109-1 | 41937 | 42910 | 43060 | 42636 | 1.43 | cps |
| Sodium | 23-2 | 643135 | 639046 | 625715 | 635965 | 1.43 | cps |
| Strontium | 86-1 | 13533 | 13784 | 13210 | 13509 | 2.13 | cps |
| Strontium | 88-1 | 115520 | 114914 | 114592 | 115009 | 0.41 | cps |
| Sulfur | 34-1 | 686544 | 696942 | 699521 | 694335 | 0.99 | cps |
| Terbium | 159-1 | 11247442 | 11376944 | 11208530 | 11277639 | 0.78 | cps |
| Terbium | 159-2 | 4244068 | 4289233 | 4249269 | 4260857 | 0.58 | cps |
| Thallium | 203-1 | 28812 | 30048 | 29353 | 29404 | 2.11 | cps |
| Thallium | 205-1 | 69482 | 69364 | 69089 | 69312 | 0.29 | cps |
| Tin | 118-1 | 149394 | 149577 | 149294 | 149421 | 0.10 | cps |
| Titanium | 47-1 | 28221 | 27370 | 27924 | 27838 | 1.55 | cps |
| Uranium | 238-1 | 84898 | 84528 | 85177 | 84868 | 0.38 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P8 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:44:45 | DataFile Name : | 018LLIC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 35280 | 36172 | 34779 | 35410 | 1.99 | cps |
| Ytterbium | 172-1 | 67 | 70 | 93 | 77 | 18.95 | cps |
| Ytterbium | 172-2 | 40 | 17 | 30 | 29 | 40.51 | cps |
| Ytterbium | 176-1 | 1503 | 1660 | 1710 | 1625 | 6.64 | cps |
| Ytterbium | 176-2 | 453 | 457 | 540 | 483 | 10.16 | cps |
| Yttrium | 89-1 | 17803648 | 17542634 | 17436731 | 17594338 | 1.07 | cps |
| Yttrium | 89-2 | 1573061 | 1594219 | 1580620 | 1582633 | 0.68 | cps |
| Zinc | 66-2 | 13036 | 13420 | 13183 | 13213 | 1.46 | cps |
| Zirconium | 90-1 | 64655 | 65225 | 63949 | 64610 | 0.99 | cps |
| Zirconium | 91-1 | 14087 | 14127 | 14237 | 14151 | 0.55 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:48:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 780 | 693 | 640 | 704 | 10.03 | cps |
| Antimony | 121-1 | 430 | 417 | 493 | 447 | 9.17 | cps |
| Arsenic | 75-2 | 17 | 20 | 17 | 18 | 10.81 | cps |
| Barium | 135-1 | 180 | 230 | 143 | 184 | 23.58 | cps |
| Barium | 137-1 | 337 | 343 | 313 | 331 | 4.76 | cps |
| Beryllium | 9-1 | 155 | 141 | 127 | 141 | 9.79 | cps |
| Bismuth | 209-1 | 6320434 | 6264712 | 6280133 | 6288426 | 0.46 | cps |
| Bismuth | 209-2 | 3000704 | 2978075 | 2911234 | 2963338 | 1.57 | cps |
| Bromine | 81-1 | 31542 | 32047 | 31338 | 31642 | 1.15 | cps |
| Cadmium | 108-1 | 33 | 13 | 13 | 20 | 57.74 | cps |
| Cadmium | 106-1 | 6348 | 6358 | 6685 | 6464 | 2.97 | cps |
| Cadmium | 111-1 | 4480 | 4481 | 4717 | 4560 | 2.99 | cps |
| Calcium | 43-1 | 4414 | 4537 | 4564 | 4505 | 1.78 | cps |
| Calcium | 44-1 | 94910 | 95450 | 95470 | 95277 | 0.33 | cps |
| Carbon | 12-1 | 4906625 | 4863601 | 4775688 | 4848638 | 1.38 | cps |
| Carbon | 12-2 | 34056 | 34420 | 33836 | 34104 | 0.87 | cps |
| Chlorine | 35-1 | 203830 | 204443 | 206152 | 204809 | 0.59 | cps |
| Chlorine | 35-2 | 1157 | 1200 | 1193 | 1183 | 1.97 | cps |
| Chromium | 52-2 | 15575 | 15912 | 14874 | 15454 | 3.43 | cps |
| Cobalt | 59-2 | 327 | 343 | 343 | 338 | 2.85 | cps |
| Copper | 63-2 | 4154 | 4071 | 4117 | 4114 | 1.02 | cps |
| Dysprosium | 156-1 | 13 | 13 | 27 | 18 | 43.33 | cps |
| Dysprosium | 156-2 | 10 | 7 | 3 | 7 | 50.03 | cps |
| Erbium | 164-1 | 87 | 47 | 93 | 76 | 33.40 | cps |
| Erbium | 164-2 | 7 | 33 | 23 | 21 | 63.80 | cps |
| Gadolinium | 160-1 | 113 | 177 | 150 | 147 | 21.68 | cps |
| Gadolinium | 160-2 | 23 | 20 | 27 | 23 | 14.29 | cps |
| Holmium | 165-1 | 10689466 | 10638610 | 10511480 | 10613185 | 0.86 | cps |
| Holmium | 165-2 | 4281146 | 4340810 | 4247085 | 4289680 | 1.11 | cps |
| Indium | 115-1 | 9753989 | 9433079 | 9581590 | 9589553 | 1.67 | cps |
| Indium | 115-2 | 1159565 | 1158034 | 1149255 | 1155618 | 0.48 | cps |
| Iron | 54-2 | 4214 | 4134 | 4141 | 4163 | 1.07 | cps |
| Iron | 56-2 | 62704 | 61358 | 73153 | 65738 | 9.82 | cps |
| Iron | 57-2 | 1563 | 1403 | 1617 | 1528 | 7.27 | cps |
| Krypton | 83-1 | 430 | 363 | 397 | 397 | 8.40 | cps |
| Lead | 206-1 | 2427 | 2377 | 2354 | 2386 | 1.57 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:48:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1990 | 2044 | 2124 | 2052 | 3.27 | cps |
| Lead | 208-1 | 9401 | 9768 | 9395 | 9521 | 2.24 | cps |
| Lithium | 6-1 | 3486193 | 3540290 | 3488008 | 3504830 | 0.88 | cps |
| Magnesium | 24-2 | 1217 | 1137 | 1280 | 1211 | 5.93 | cps |
| Manganese | 55-2 | 1783 | 1880 | 1937 | 1867 | 4.15 | cps |
| Molybdenum | 94-1 | 1310 | 1263 | 1077 | 1217 | 10.15 | cps |
| Molybdenum | 95-1 | 1450 | 1320 | 1243 | 1338 | 7.81 | cps |
| Molybdenum | 96-1 | 1750 | 1523 | 1430 | 1568 | 10.50 | cps |
| Molybdenum | 97-1 | 953 | 870 | 823 | 882 | 7.47 | cps |
| Molybdenum | 98-1 | 2234 | 2130 | 2104 | 2156 | 3.19 | cps |
| Neodymium | 150-1 | 7 | 13 | 7 | 9 | 43.25 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 4154 | 4151 | 4227 | 4177 | 1.04 | cps |
| Phosphorus | 31-2 | 237 | 223 | 240 | 233 | 3.78 | cps |
| Potassium | 39-2 | 30065 | 29918 | 30258 | 30080 | 0.57 | cps |
| Rhodium | 103-1 | 9258085 | 8985616 | 9052404 | 9098701 | 1.56 | cps |
| Rhodium | 103-2 | 4032471 | 4091316 | 3975640 | 4033142 | 1.43 | cps |
| Scandium | 45-1 | 6480219 | 6374945 | 6326104 | 6393756 | 1.23 | cps |
| Scandium | 45-2 | 161711 | 160862 | 160768 | 161114 | 0.32 | cps |
| Selenium | 82-1 | 13 | 63 | -23 | 18 | 244.76 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 30 | 37 | 57 | 41 | 33.76 | cps |
| Silicon | 28-1 | 626238 | 616979 | 617132 | 620116 | 0.86 | cps |
| Silver | 107-1 | 557 | 517 | 490 | 521 | 6.44 | cps |
| Silver | 109-1 | 493 | 470 | 430 | 464 | 6.90 | cps |
| Sodium | 23-2 | 84311 | 81717 | 82709 | 82912 | 1.58 | cps |
| Strontium | 86-1 | 890 | 910 | 953 | 918 | 3.53 | cps |
| Strontium | 88-1 | 2637 | 2604 | 2720 | 2654 | 2.27 | cps |
| Sulfur | 34-1 | 686592 | 691655 | 692927 | 690391 | 0.49 | cps |
| Terbium | 159-1 | 11019844 | 11089944 | 11102382 | 11070723 | 0.40 | cps |
| Terbium | 159-2 | 4260291 | 4212462 | 4181695 | 4218149 | 0.94 | cps |
| Thallium | 203-1 | 717 | 627 | 590 | 644 | 10.11 | cps |
| Thallium | 205-1 | 1460 | 1453 | 1407 | 1440 | 2.02 | cps |
| Tin | 118-1 | 5221 | 5298 | 5141 | 5220 | 1.50 | cps |
| Titanium | 47-1 | 623 | 563 | 523 | 570 | 8.83 | cps |
| Uranium | 238-1 | 440 | 420 | 427 | 429 | 2.37 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:48:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 63 | 57 | 80 | 67 | 18.03 | cps |
| Ytterbium | 172-1 | 67 | 80 | 67 | 71 | 10.82 | cps |
| Ytterbium | 172-2 | 57 | 27 | 13 | 32 | 68.89 | cps |
| Ytterbium | 176-1 | 1443 | 1647 | 1563 | 1551 | 6.59 | cps |
| Ytterbium | 176-2 | 390 | 430 | 333 | 384 | 12.63 | cps |
| Yttrium | 89-1 | 17222986 | 17347786 | 17232411 | 17267728 | 0.40 | cps |
| Yttrium | 89-2 | 1579261 | 1581726 | 1568100 | 1576363 | 0.46 | cps |
| Zinc | 66-2 | 4764 | 4611 | 4581 | 4652 | 2.11 | cps |
| Zirconium | 90-1 | 1413 | 1490 | 1373 | 1426 | 4.16 | cps |
| Zirconium | 91-1 | 300 | 277 | 320 | 299 | 7.26 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:57:28 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 15421425 | 15652681 | 14834078 | 15302728 | 2.76 | cps |
| Antimony | 121-1 | 43623 | 43981 | 43335 | 43646 | 0.74 | cps |
| Arsenic | 75-2 | 337 | 413 | 337 | 362 | 12.22 | cps |
| Barium | 135-1 | 11949 | 12643 | 11999 | 12197 | 3.17 | cps |
| Barium | 137-1 | 21230 | 21000 | 20966 | 21065 | 0.68 | cps |
| Beryllium | 9-1 | -2851 | -2998 | -2911 | -2920 | -2.53 | cps |
| Bismuth | 209-1 | 5514531 | 5501788 | 5424880 | 5480400 | 0.89 | cps |
| Bismuth | 209-2 | 2653251 | 2668212 | 2592737 | 2638067 | 1.51 | cps |
| Bromine | 81-1 | 36050 | 35077 | 34970 | 35366 | 1.68 | cps |
| Cadmium | 108-1 | 10174 | 10141 | 10598 | 10304 | 2.47 | cps |
| Cadmium | 106-1 | 6325 | 6151 | 6008 | 6161 | 2.57 | cps |
| Cadmium | 111-1 | 10035 | 9226 | 9223 | 9495 | 4.93 | cps |
| Calcium | 43-1 | 12033783 | 12068061 | 11831940 | 11977928 | 1.07 | cps |
| Calcium | 44-1 | 195485857 | 195311604 | 193239457 | 194678973 | 0.64 | cps |
| Carbon | 12-1 | 78113301 | 79163829 | 79899535 | 79058888 | 1.14 | cps |
| Carbon | 12-2 | 591345 | 590981 | 581409 | 587911 | 0.96 | cps |
| Chlorine | 35-1 | 179307504 | 184332304 | 187615597 | 183751802 | 2.28 | cps |
| Chlorine | 35-2 | 1078671 | 1081227 | 1079116 | 1079671 | 0.13 | cps |
| Chromium | 52-2 | 201900 | 201510 | 199017 | 200809 | 0.78 | cps |
| Cobalt | 59-2 | 20378 | 20154 | 20365 | 20299 | 0.62 | cps |
| Copper | 63-2 | 103846 | 101778 | 100945 | 102190 | 1.46 | cps |
| Dysprosium | 156-1 | 127 | 157 | 147 | 143 | 10.66 | cps |
| Dysprosium | 156-2 | 53 | 43 | 63 | 53 | 18.75 | cps |
| Erbium | 164-1 | 183 | 203 | 173 | 187 | 8.18 | cps |
| Erbium | 164-2 | 63 | 87 | 50 | 67 | 27.84 | cps |
| Gadolinium | 160-1 | 237 | 200 | 190 | 209 | 11.76 | cps |
| Gadolinium | 160-2 | 77 | 77 | 77 | 77 | 0.00 | cps |
| Holmium | 165-1 | 10236485 | 10209872 | 10239901 | 10228752 | 0.16 | cps |
| Holmium | 165-2 | 4218842 | 4115197 | 4135664 | 4156568 | 1.32 | cps |
| Indium | 115-1 | 9154386 | 8796578 | 9080068 | 9010344 | 2.10 | cps |
| Indium | 115-2 | 1086622 | 1086211 | 1083282 | 1085371 | 0.17 | cps |
| Iron | 54-2 | 39123718 | 39441728 | 38719775 | 39095074 | 0.93 | cps |
| Iron | 56-2 | 718787803 | 725562336 | 715897963 | 720082700 | 0.69 | cps |
| Iron | 57-2 | 18327273 | 18075361 | 17948617 | 18117084 | 1.06 | cps |
| Krypton | 83-1 | 450 | 517 | 420 | 462 | 10.70 | cps |
| Lead | 206-1 | 105921 | 105209 | 104689 | 105273 | 0.59 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:57:28 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 84490 | 83661 | 82269 | 83473 | 1.34 | cps |
| Lead | 208-1 | 398772 | 394447 | 391892 | 395037 | 0.88 | cps |
| Lithium | 6-1 | 3392167 | 3438168 | 3468237 | 3432857 | 1.12 | cps |
| Magnesium | 24-2 | 55455034 | 55247081 | 53915509 | 54872541 | 1.52 | cps |
| Manganese | 55-2 | 33706 | 33192 | 32277 | 33058 | 2.19 | cps |
| Molybdenum | 94-1 | 20993551 | 20721998 | 20823984 | 20846511 | 0.66 | cps |
| Molybdenum | 95-1 | 36766993 | 36564409 | 36556475 | 36629292 | 0.33 | cps |
| Molybdenum | 96-1 | 39186039 | 39191519 | 39366869 | 39248142 | 0.26 | cps |
| Molybdenum | 97-1 | 22575993 | 22673261 | 22605816 | 22618356 | 0.22 | cps |
| Molybdenum | 98-1 | 59579414 | 58751182 | 59390846 | 59240481 | 0.73 | cps |
| Neodymium | 150-1 | 160 | 120 | 153 | 144 | 14.84 | cps |
| Neodymium | 150-2 | 70 | 50 | 63 | 61 | 16.66 | cps |
| Nickel | 60-2 | 29227 | 30018 | 29440 | 29562 | 1.39 | cps |
| Phosphorus | 31-2 | 927704 | 933501 | 902076 | 921094 | 1.82 | cps |
| Potassium | 39-2 | 42271924 | 42201624 | 42275428 | 42249658 | 0.10 | cps |
| Rhodium | 103-1 | 8192957 | 8223492 | 8131557 | 8182669 | 0.57 | cps |
| Rhodium | 103-2 | 3660764 | 3640198 | 3641178 | 3647380 | 0.32 | cps |
| Scandium | 45-1 | 6476640 | 6485636 | 6473103 | 6478460 | 0.10 | cps |
| Scandium | 45-2 | 163228 | 164969 | 164831 | 164343 | 0.59 | cps |
| Selenium | 82-1 | 27 | -3 | 97 | 40 | 128.28 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 40 | 40 | 47 | 42 | 9.12 | cps |
| Silicon | 28-1 | 1068614 | 1059840 | 1044527 | 1057660 | 1.15 | cps |
| Silver | 107-1 | 1563 | 1903 | 2394 | 1953 | 21.36 | cps |
| Silver | 109-1 | 1577 | 1870 | 1994 | 1813 | 11.80 | cps |
| Sodium | 23-2 | 121563768 | 119190288 | 119295102 | 120016386 | 1.12 | cps |
| Strontium | 86-1 | 405754 | 404556 | 404142 | 404817 | 0.21 | cps |
| Strontium | 88-1 | 3681410 | 3745390 | 3729053 | 3718617 | 0.89 | cps |
| Sulfur | 34-1 | 16072216 | 16086759 | 15995713 | 16051563 | 0.30 | cps |
| Terbium | 159-1 | 10719316 | 10499714 | 10683396 | 10634142 | 1.11 | cps |
| Terbium | 159-2 | 4103445 | 4020615 | 4076181 | 4066747 | 1.04 | cps |
| Thallium | 203-1 | 1857 | 2360 | 2644 | 2287 | 17.43 | cps |
| Thallium | 205-1 | 4524 | 5351 | 6335 | 5403 | 16.78 | cps |
| Tin | 118-1 | 9226 | 8553 | 8780 | 8853 | 3.87 | cps |
| Titanium | 47-1 | 11404029 | 11566481 | 11402982 | 11457830 | 0.82 | cps |
| Uranium | 238-1 | 1894 | 1947 | 1890 | 1910 | 1.66 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 12:57:28 | DataFile Name : | 021ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1157 | 1113 | 1130 | 1133 | 1.93 | cps |
| Ytterbium | 172-1 | 63 | 97 | 113 | 91 | 27.94 | cps |
| Ytterbium | 172-2 | 60 | 33 | 33 | 42 | 36.47 | cps |
| Ytterbium | 176-1 | 1260 | 1383 | 1477 | 1373 | 7.91 | cps |
| Ytterbium | 176-2 | 327 | 380 | 403 | 370 | 10.62 | cps |
| Yttrium | 89-1 | 16882648 | 17252641 | 17131771 | 17089020 | 1.10 | cps |
| Yttrium | 89-2 | 1553479 | 1586229 | 1574667 | 1571458 | 1.06 | cps |
| Zinc | 66-2 | 24652 | 24475 | 23463 | 24196 | 2.65 | cps |
| Zirconium | 90-1 | 2707 | 3054 | 3354 | 3038 | 10.65 | cps |
| Zirconium | 91-1 | 603 | 660 | 763 | 676 | 12.01 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:04:20 | DataFile Name : | 023ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 16563554 | 16276236 | 16112529 | 16317439 | 1.40 | cps |
| Antimony | 121-1 | 758796 | 763448 | 770405 | 764216 | 0.76 | cps |
| Arsenic | 75-2 | 20695 | 20508 | 20291 | 20498 | 0.99 | cps |
| Barium | 135-1 | 181981 | 185444 | 183931 | 183785 | 0.94 | cps |
| Barium | 137-1 | 321937 | 319233 | 318407 | 319859 | 0.58 | cps |
| Beryllium | 9-1 | 182500 | 182148 | 182568 | 182405 | 0.12 | cps |
| Bismuth | 209-1 | 5622398 | 5592358 | 5579361 | 5598039 | 0.39 | cps |
| Bismuth | 209-2 | 2656878 | 2645091 | 2615346 | 2639105 | 0.81 | cps |
| Bromine | 81-1 | 36601 | 37196 | 36952 | 36916 | 0.81 | cps |
| Cadmium | 108-1 | 26819 | 26896 | 26592 | 26769 | 0.59 | cps |
| Cadmium | 106-1 | 33247 | 33290 | 33547 | 33361 | 0.49 | cps |
| Cadmium | 111-1 | 197630 | 195669 | 196846 | 196715 | 0.50 | cps |
| Calcium | 43-1 | 12811833 | 12440611 | 12519686 | 12590710 | 1.55 | cps |
| Calcium | 44-1 | 206081570 | 203281237 | 203771937 | 204378248 | 0.73 | cps |
| Carbon | 12-1 | 81640409 | 83973122 | 84204577 | 83272703 | 1.70 | cps |
| Carbon | 12-2 | 628136 | 629801 | 615112 | 624349 | 1.29 | cps |
| Chlorine | 35-1 | 184897524 | 190804304 | 192999724 | 189567184 | 2.21 | cps |
| Chlorine | 35-2 | 1138926 | 1145447 | 1185445 | 1156606 | 2.18 | cps |
| Chromium | 52-2 | 420873 | 414359 | 408673 | 414635 | 1.47 | cps |
| Cobalt | 59-2 | 378630 | 382228 | 376807 | 379222 | 0.73 | cps |
| Copper | 63-2 | 377000 | 380787 | 372041 | 376610 | 1.16 | cps |
| Dysprosium | 156-1 | 117 | 173 | 123 | 138 | 22.48 | cps |
| Dysprosium | 156-2 | 40 | 57 | 57 | 51 | 18.83 | cps |
| Erbium | 164-1 | 177 | 143 | 187 | 169 | 13.43 | cps |
| Erbium | 164-2 | 93 | 50 | 50 | 64 | 38.82 | cps |
| Gadolinium | 160-1 | 180 | 263 | 233 | 226 | 18.71 | cps |
| Gadolinium | 160-2 | 133 | 67 | 93 | 98 | 34.32 | cps |
| Holmium | 165-1 | 10438897 | 10387417 | 10396673 | 10407662 | 0.26 | cps |
| Holmium | 165-2 | 4174750 | 4188567 | 4128497 | 4163938 | 0.76 | cps |
| Indium | 115-1 | 9016874 | 8940892 | 9064452 | 9007406 | 0.69 | cps |
| Indium | 115-2 | 1098797 | 1088309 | 1096300 | 1094469 | 0.50 | cps |
| Iron | 54-2 | 40686565 | 41120514 | 40126018 | 40644366 | 1.23 | cps |
| Iron | 56-2 | 752524522 | 755225349 | 741955669 | 749901847 | 0.94 | cps |
| Iron | 57-2 | 18912927 | 19159657 | 18786520 | 18953035 | 1.00 | cps |
| Krypton | 83-1 | 457 | 453 | 500 | 470 | 5.54 | cps |
| Lead | 206-1 | 564313 | 570201 | 568349 | 567621 | 0.53 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:04:20 | DataFile Name : | 023ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 463163 | 470412 | 463948 | 465841 | 0.85 | cps |
| Lead | 208-1 | 2156390 | 2187114 | 2164097 | 2169200 | 0.74 | cps |
| Lithium | 6-1 | 3524431 | 3469583 | 3494028 | 3496014 | 0.79 | cps |
| Magnesium | 24-2 | 58522411 | 58825881 | 58165354 | 58504549 | 0.57 | cps |
| Manganese | 55-2 | 121824 | 123926 | 120476 | 122075 | 1.42 | cps |
| Molybdenum | 94-1 | 23092441 | 22964640 | 22868121 | 22975067 | 0.49 | cps |
| Molybdenum | 95-1 | 38445467 | 38912164 | 38196560 | 38518064 | 0.94 | cps |
| Molybdenum | 96-1 | 41434515 | 41652279 | 41380941 | 41489245 | 0.35 | cps |
| Molybdenum | 97-1 | 23379995 | 23518836 | 23700598 | 23533143 | 0.68 | cps |
| Molybdenum | 98-1 | 61176954 | 61603307 | 62649822 | 61810028 | 1.23 | cps |
| Neodymium | 150-1 | 190 | 150 | 210 | 183 | 16.66 | cps |
| Neodymium | 150-2 | 57 | 43 | 47 | 49 | 14.20 | cps |
| Nickel | 60-2 | 127108 | 126735 | 126237 | 126693 | 0.34 | cps |
| Phosphorus | 31-2 | 987838 | 981125 | 966705 | 978556 | 1.10 | cps |
| Potassium | 39-2 | 44700551 | 45174204 | 45308031 | 45060929 | 0.71 | cps |
| Rhodium | 103-1 | 8283363 | 8249665 | 8397457 | 8310161 | 0.93 | cps |
| Rhodium | 103-2 | 3719364 | 3684533 | 3667730 | 3690542 | 0.71 | cps |
| Scandium | 45-1 | 6601549 | 6629169 | 6572188 | 6600969 | 0.43 | cps |
| Scandium | 45-2 | 171943 | 172297 | 173966 | 172735 | 0.63 | cps |
| Selenium | 82-1 | 12873 | 12766 | 12266 | 12635 | 2.57 | cps |
| Selenium | 77-2 | 277 | 323 | 313 | 304 | 8.07 | cps |
| Selenium | 78-2 | 1010 | 950 | 1037 | 999 | 4.44 | cps |
| Silicon | 28-1 | 2110728 | 2115392 | 2126404 | 2117508 | 0.38 | cps |
| Silver | 107-1 | 876264 | 878394 | 875404 | 876687 | 0.18 | cps |
| Silver | 109-1 | 825371 | 823650 | 819713 | 822912 | 0.35 | cps |
| Sodium | 23-2 | 127605091 | 128408221 | 126684045 | 127565786 | 0.68 | cps |
| Strontium | 86-1 | 1002189 | 1006304 | 1003475 | 1003989 | 0.21 | cps |
| Strontium | 88-1 | 9023506 | 8935012 | 9087804 | 9015440 | 0.85 | cps |
| Sulfur | 34-1 | 16628441 | 16445170 | 16603536 | 16559049 | 0.60 | cps |
| Terbium | 159-1 | 10804647 | 10863759 | 10812571 | 10826992 | 0.30 | cps |
| Terbium | 159-2 | 4107916 | 4121712 | 4080306 | 4103311 | 0.51 | cps |
| Thallium | 203-1 | 568700 | 572742 | 565677 | 569039 | 0.62 | cps |
| Thallium | 205-1 | 1363982 | 1362379 | 1363963 | 1363441 | 0.07 | cps |
| Tin | 118-1 | 1346414 | 1373680 | 1353720 | 1357938 | 1.04 | cps |
| Titanium | 47-1 | 11974000 | 11953633 | 12021674 | 11983102 | 0.29 | cps |
| Uranium | 238-1 | 4006952 | 4023629 | 4084679 | 4038420 | 1.01 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P8 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:04:20 | DataFile Name : | 023ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 157239 | 158029 | 156121 | 157130 | 0.61 | cps |
| Ytterbium | 172-1 | 90 | 130 | 110 | 110 | 18.18 | cps |
| Ytterbium | 172-2 | 40 | 50 | 33 | 41 | 20.41 | cps |
| Ytterbium | 176-1 | 7976 | 8253 | 8183 | 8137 | 1.77 | cps |
| Ytterbium | 176-2 | 2897 | 2944 | 2880 | 2907 | 1.13 | cps |
| Yttrium | 89-1 | 17389956 | 17298478 | 17347556 | 17345330 | 0.26 | cps |
| Yttrium | 89-2 | 1637624 | 1650086 | 1616855 | 1634855 | 1.03 | cps |
| Zinc | 66-2 | 61513 | 62192 | 61529 | 61745 | 0.63 | cps |
| Zirconium | 90-1 | 3282322 | 3243004 | 3263555 | 3262961 | 0.60 | cps |
| Zirconium | 91-1 | 696717 | 686184 | 689531 | 690810 | 0.78 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:07:30 | DataFile Name : | 024CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8875983 | 8996823 | 8874907 | 8915904 | 0.79 | cps |
| Antimony | 121-1 | 17289650 | 17171531 | 17292031 | 17251071 | 0.40 | cps |
| Arsenic | 75-2 | 482192 | 482965 | 486540 | 483899 | 0.48 | cps |
| Barium | 135-1 | 20620866 | 20964685 | 21020312 | 20868621 | 1.04 | cps |
| Barium | 137-1 | 35182290 | 35912125 | 36110125 | 35734847 | 1.37 | cps |
| Beryllium | 9-1 | 4222795 | 4309615 | 4312112 | 4281507 | 1.19 | cps |
| Bismuth | 209-1 | 5081618 | 5085390 | 5117893 | 5094967 | 0.39 | cps |
| Bismuth | 209-2 | 2488247 | 2498221 | 2451989 | 2479486 | 0.98 | cps |
| Bromine | 81-1 | 34837 | 34633 | 34743 | 34737 | 0.29 | cps |
| Cadmium | 108-1 | 342270 | 343800 | 345089 | 343719 | 0.41 | cps |
| Cadmium | 106-1 | 492795 | 499138 | 499785 | 497239 | 0.78 | cps |
| Cadmium | 111-1 | 4298068 | 4417376 | 4399468 | 4371637 | 1.47 | cps |
| Calcium | 43-1 | 30240121 | 30323972 | 30381604 | 30315232 | 0.23 | cps |
| Calcium | 44-1 | 487059393 | 499218273 | 493885526 | 493387730 | 1.24 | cps |
| Carbon | 12-1 | 7391438 | 7322671 | 7148174 | 7287428 | 1.72 | cps |
| Carbon | 12-2 | 64654 | 64387 | 64163 | 64401 | 0.38 | cps |
| Chlorine | 35-1 | 7895844 | 7288833 | 6743726 | 7309468 | 7.88 | cps |
| Chlorine | 35-2 | 34628 | 33773 | 31464 | 33288 | 4.92 | cps |
| Chromium | 52-2 | 5160674 | 5142071 | 5088891 | 5130545 | 0.73 | cps |
| Cobalt | 59-2 | 8654763 | 8763157 | 8637287 | 8685069 | 0.79 | cps |
| Copper | 63-2 | 68857131 | 70314292 | 69024569 | 69398664 | 1.15 | cps |
| Dysprosium | 156-1 | 950 | 940 | 890 | 927 | 3.47 | cps |
| Dysprosium | 156-2 | 220 | 233 | 293 | 249 | 15.70 | cps |
| Erbium | 164-1 | 780 | 807 | 840 | 809 | 3.72 | cps |
| Erbium | 164-2 | 277 | 307 | 353 | 312 | 12.37 | cps |
| Gadolinium | 160-1 | 653 | 610 | 747 | 670 | 10.42 | cps |
| Gadolinium | 160-2 | 237 | 300 | 293 | 277 | 12.58 | cps |
| Holmium | 165-1 | 9729232 | 9816415 | 9843689 | 9796445 | 0.61 | cps |
| Holmium | 165-2 | 4027106 | 4067153 | 4163408 | 4085889 | 1.71 | cps |
| Indium | 115-1 | 8102302 | 8240366 | 8191633 | 8178100 | 0.86 | cps |
| Indium | 115-2 | 1002579 | 1009980 | 1010890 | 1007816 | 0.45 | cps |
| Iron | 54-2 | 49876096 | 50007388 | 50041259 | 49974914 | 0.17 | cps |
| Iron | 56-2 | 917787720 | 916336466 | 926680120 | 920268102 | 0.61 | cps |
| Iron | 57-2 | 22803835 | 22907485 | 22846656 | 22852659 | 0.23 | cps |
| Krypton | 83-1 | 507 | 537 | 540 | 528 | 3.48 | cps |
| Lead | 206-1 | 54037638 | 53764343 | 53906739 | 53902906 | 0.25 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:07:30 | DataFile Name : | 024CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 46056161 | 46280576 | 45503363 | 45946700 | 0.87 | cps |
| Lead | 208-1 | 211247837 | 213310243 | 210531300 | 211696460 | 0.68 | cps |
| Lithium | 6-1 | 3205272 | 3240172 | 3285829 | 3243758 | 1.25 | cps |
| Magnesium | 24-2 | 149999081 | 146370581 | 152327114 | 149565592 | 2.01 | cps |
| Manganese | 55-2 | 24085666 | 24305365 | 24182401 | 24191144 | 0.46 | cps |
| Molybdenum | 94-1 | 64860956 | 64751554 | 64943716 | 64852075 | 0.15 | cps |
| Molybdenum | 95-1 | 92127262 | 93897215 | 93482849 | 93169109 | 0.99 | cps |
| Molybdenum | 96-1 | 101503348 | 102329112 | 102265938 | 102032800 | 0.45 | cps |
| Molybdenum | 97-1 | 57023102 | 57725044 | 57287974 | 57345374 | 0.62 | cps |
| Molybdenum | 98-1 | 148629211 | 151284364 | 148674834 | 149529470 | 1.02 | cps |
| Neodymium | 150-1 | 1827 | 1623 | 1817 | 1756 | 6.53 | cps |
| Neodymium | 150-2 | 193 | 147 | 183 | 174 | 14.09 | cps |
| Nickel | 60-2 | 2365206 | 2417647 | 2455658 | 2412837 | 1.88 | cps |
| Phosphorus | 31-2 | 93948 | 95944 | 95733 | 95209 | 1.15 | cps |
| Potassium | 39-2 | 55890651 | 56264081 | 57273064 | 56475932 | 1.27 | cps |
| Rhodium | 103-1 | 7686044 | 7629267 | 7684342 | 7666551 | 0.42 | cps |
| Rhodium | 103-2 | 3476390 | 3423514 | 3504202 | 3468035 | 1.18 | cps |
| Scandium | 45-1 | 6293263 | 6319143 | 6415561 | 6342655 | 1.02 | cps |
| Scandium | 45-2 | 170360 | 170823 | 171311 | 170831 | 0.28 | cps |
| Selenium | 82-1 | 279544 | 279728 | 279371 | 279548 | 0.06 | cps |
| Selenium | 77-2 | 6805 | 6725 | 6798 | 6776 | 0.66 | cps |
| Selenium | 78-2 | 23466 | 23396 | 23253 | 23372 | 0.47 | cps |
| Silicon | 28-1 | 75461624 | 75063501 | 74177356 | 74900827 | 0.88 | cps |
| Silver | 107-1 | 21376661 | 21648838 | 21995479 | 21673659 | 1.43 | cps |
| Silver | 109-1 | 20021365 | 20583873 | 20450967 | 20352068 | 1.44 | cps |
| Sodium | 23-2 | 307085349 | 307795202 | 312439275 | 309106609 | 0.94 | cps |
| Strontium | 86-1 | 6108996 | 6075100 | 6157872 | 6113989 | 0.68 | cps |
| Strontium | 88-1 | 53021186 | 53436551 | 53488801 | 53315513 | 0.48 | cps |
| Sulfur | 34-1 | 2362949 | 2369423 | 2375939 | 2369437 | 0.27 | cps |
| Terbium | 159-1 | 10037680 | 10064752 | 10032386 | 10044939 | 0.17 | cps |
| Terbium | 159-2 | 3907200 | 3968551 | 4076601 | 3984117 | 2.15 | cps |
| Thallium | 203-1 | 13583971 | 13609401 | 13700368 | 13631247 | 0.45 | cps |
| Thallium | 205-1 | 31980295 | 31703485 | 32069957 | 31917912 | 0.60 | cps |
| Tin | 118-1 | 13888115 | 13930761 | 13974402 | 13931093 | 0.31 | cps |
| Titanium | 47-1 | 27983831 | 27554784 | 28464403 | 28001006 | 1.63 | cps |
| Uranium | 238-1 | 40119966 | 40727975 | 40771607 | 40539849 | 0.90 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:07:30 | DataFile Name : | 024CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3951534 | 3923357 | 3964799 | 3946563 | 0.54 | cps |
| Ytterbium | 172-1 | 1030 | 1183 | 1153 | 1122 | 7.24 | cps |
| Ytterbium | 172-2 | 570 | 537 | 543 | 550 | 3.21 | cps |
| Ytterbium | 176-1 | 69787 | 69917 | 70540 | 70081 | 0.57 | cps |
| Ytterbium | 176-2 | 28003 | 27906 | 28387 | 28099 | 0.91 | cps |
| Yttrium | 89-1 | 16517327 | 16517854 | 16380685 | 16471955 | 0.48 | cps |
| Yttrium | 89-2 | 1586498 | 1589038 | 1572645 | 1582727 | 0.56 | cps |
| Zinc | 66-2 | 9520817 | 9578497 | 9552658 | 9550657 | 0.30 | cps |
| Zirconium | 90-1 | 32822355 | 33332382 | 33487934 | 33214224 | 1.05 | cps |
| Zirconium | 91-1 | 7257602 | 7441617 | 7380316 | 7359845 | 1.27 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:17:26 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 390 | 360 | 423 | 391 | 8.10 | cps |
| Antimony | 121-1 | 573 | 597 | 600 | 590 | 2.46 | cps |
| Arsenic | 75-2 | 13 | 13 | 10 | 12 | 15.73 | cps |
| Barium | 135-1 | 253 | 210 | 243 | 236 | 9.63 | cps |
| Barium | 137-1 | 377 | 317 | 393 | 362 | 11.13 | cps |
| Beryllium | 9-1 | 135 | 158 | 119 | 137 | 14.23 | cps |
| Bismuth | 209-1 | 6386514 | 6546018 | 6426502 | 6453012 | 1.29 | cps |
| Bismuth | 209-2 | 3077204 | 3111679 | 3033504 | 3074129 | 1.27 | cps |
| Bromine | 81-1 | 32869 | 34195 | 34235 | 33766 | 2.30 | cps |
| Cadmium | 108-1 | 33 | 27 | 17 | 26 | 32.81 | cps |
| Cadmium | 106-1 | 6982 | 7309 | 6738 | 7010 | 4.08 | cps |
| Cadmium | 111-1 | 4967 | 5177 | 4762 | 4969 | 4.18 | cps |
| Calcium | 43-1 | 4144 | 4084 | 4177 | 4135 | 1.14 | cps |
| Calcium | 44-1 | 91294 | 91938 | 90972 | 91401 | 0.54 | cps |
| Carbon | 12-1 | 5272154 | 5015335 | 5000881 | 5096123 | 2.99 | cps |
| Carbon | 12-2 | 36145 | 35402 | 35272 | 35606 | 1.32 | cps |
| Chlorine | 35-1 | 1120630 | 1094443 | 1072936 | 1096003 | 2.18 | cps |
| Chlorine | 35-2 | 5955 | 5861 | 5728 | 5848 | 1.95 | cps |
| Chromium | 52-2 | 13400 | 14007 | 13403 | 13603 | 2.57 | cps |
| Cobalt | 59-2 | 283 | 240 | 313 | 279 | 13.22 | cps |
| Copper | 63-2 | 3951 | 3517 | 3691 | 3719 | 5.87 | cps |
| Dysprosium | 156-1 | 20 | 20 | 10 | 17 | 34.64 | cps |
| Dysprosium | 156-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Erbium | 164-1 | 70 | 87 | 57 | 71 | 21.14 | cps |
| Erbium | 164-2 | 17 | 17 | 23 | 19 | 20.36 | cps |
| Gadolinium | 160-1 | 130 | 97 | 87 | 104 | 21.72 | cps |
| Gadolinium | 160-2 | 17 | 37 | 27 | 27 | 37.50 | cps |
| Holmium | 165-1 | 10972689 | 10905909 | 10838286 | 10905628 | 0.62 | cps |
| Holmium | 165-2 | 4574383 | 4400695 | 4469538 | 4481539 | 1.95 | cps |
| Indium | 115-1 | 10271167 | 10143810 | 10043503 | 10152827 | 1.12 | cps |
| Indium | 115-2 | 1252379 | 1248273 | 1242143 | 1247598 | 0.41 | cps |
| Iron | 54-2 | 3961 | 4121 | 4061 | 4047 | 2.00 | cps |
| Iron | 56-2 | 61271 | 60163 | 58938 | 60124 | 1.94 | cps |
| Iron | 57-2 | 1577 | 1550 | 1463 | 1530 | 3.87 | cps |
| Krypton | 83-1 | 453 | 433 | 450 | 446 | 2.40 | cps |
| Lead | 206-1 | 2360 | 2474 | 2617 | 2484 | 5.18 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:17:26 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2204 | 2067 | 2147 | 2139 | 3.21 | cps |
| Lead | 208-1 | 9802 | 9885 | 9895 | 9860 | 0.52 | cps |
| Lithium | 6-1 | 3929949 | 3850310 | 3904366 | 3894875 | 1.04 | cps |
| Magnesium | 24-2 | 1007 | 1020 | 1070 | 1032 | 3.23 | cps |
| Manganese | 55-2 | 1767 | 1880 | 1963 | 1870 | 5.28 | cps |
| Molybdenum | 94-1 | 1253 | 1090 | 1070 | 1138 | 8.84 | cps |
| Molybdenum | 95-1 | 1097 | 1033 | 1050 | 1060 | 3.10 | cps |
| Molybdenum | 96-1 | 1347 | 1163 | 1183 | 1231 | 8.17 | cps |
| Molybdenum | 97-1 | 657 | 747 | 637 | 680 | 8.62 | cps |
| Molybdenum | 98-1 | 1673 | 1617 | 1760 | 1683 | 4.29 | cps |
| Neodymium | 150-1 | 27 | 7 | 10 | 14 | 74.18 | cps |
| Neodymium | 150-2 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Nickel | 60-2 | 3604 | 3447 | 3570 | 3540 | 2.33 | cps |
| Phosphorus | 31-2 | 223 | 203 | 217 | 214 | 4.75 | cps |
| Potassium | 39-2 | 39935 | 39541 | 39584 | 39687 | 0.54 | cps |
| Rhodium | 103-1 | 9711313 | 9859157 | 9597289 | 9722586 | 1.35 | cps |
| Rhodium | 103-2 | 4374196 | 4318555 | 4383665 | 4358805 | 0.81 | cps |
| Scandium | 45-1 | 7113212 | 7295215 | 7226879 | 7211769 | 1.27 | cps |
| Scandium | 45-2 | 185011 | 183171 | 184991 | 184391 | 0.57 | cps |
| Selenium | 82-1 | -47 | -10 | -13 | -23 | -86.88 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 30 | 7 | 37 | 24 | 64.43 | cps |
| Silicon | 28-1 | 644551 | 648149 | 658978 | 650559 | 1.15 | cps |
| Silver | 107-1 | 627 | 523 | 497 | 549 | 12.51 | cps |
| Silver | 109-1 | 500 | 480 | 417 | 466 | 9.34 | cps |
| Sodium | 23-2 | 116927 | 114119 | 115257 | 115434 | 1.22 | cps |
| Strontium | 86-1 | 897 | 830 | 967 | 898 | 7.61 | cps |
| Strontium | 88-1 | 1787 | 1613 | 1663 | 1688 | 5.29 | cps |
| Sulfur | 34-1 | 813624 | 823282 | 822175 | 819694 | 0.64 | cps |
| Terbium | 159-1 | 11463581 | 11559121 | 11446609 | 11489771 | 0.53 | cps |
| Terbium | 159-2 | 4402338 | 4452960 | 4428598 | 4427965 | 0.57 | cps |
| Thallium | 203-1 | 930 | 947 | 920 | 932 | 1.45 | cps |
| Thallium | 205-1 | 2280 | 2184 | 2080 | 2181 | 4.59 | cps |
| Tin | 118-1 | 4898 | 4587 | 4744 | 4743 | 3.27 | cps |
| Titanium | 47-1 | 710 | 570 | 687 | 656 | 11.44 | cps |
| Uranium | 238-1 | 320 | 247 | 283 | 283 | 12.94 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:17:26 | DataFile Name : | 026CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 70 | 43 | 67 | 60 | 24.22 | cps |
| Ytterbium | 172-1 | 57 | 60 | 80 | 66 | 19.25 | cps |
| Ytterbium | 172-2 | 20 | 40 | 27 | 29 | 35.25 | cps |
| Ytterbium | 176-1 | 1560 | 1507 | 1467 | 1511 | 3.10 | cps |
| Ytterbium | 176-2 | 323 | 377 | 427 | 376 | 13.76 | cps |
| Yttrium | 89-1 | 18636146 | 18755634 | 18291796 | 18561192 | 1.30 | cps |
| Yttrium | 89-2 | 1760475 | 1744755 | 1747861 | 1751030 | 0.48 | cps |
| Zinc | 66-2 | 3997 | 3734 | 3797 | 3843 | 3.58 | cps |
| Zirconium | 90-1 | 1473 | 1410 | 1253 | 1379 | 8.21 | cps |
| Zirconium | 91-1 | 317 | 243 | 297 | 286 | 13.27 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P8 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:20:50 | DataFile Name : | 027LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4781 | 4874 | 4908 | 4854 | 1.35 | cps |
| Antimony | 121-1 | 73157 | 73597 | 73104 | 73286 | 0.37 | cps |
| Arsenic | 75-2 | 1037 | 1127 | 1097 | 1087 | 4.22 | cps |
| Barium | 135-1 | 85454 | 85910 | 85313 | 85559 | 0.36 | cps |
| Barium | 137-1 | 147898 | 149130 | 149105 | 148711 | 0.47 | cps |
| Beryllium | 9-1 | 9534 | 9844 | 9699 | 9692 | 1.60 | cps |
| Bismuth | 209-1 | 6544689 | 6417532 | 6525144 | 6495788 | 1.05 | cps |
| Bismuth | 209-2 | 3077362 | 3067112 | 3064352 | 3069608 | 0.22 | cps |
| Bromine | 81-1 | 34279 | 34720 | 35408 | 34802 | 1.64 | cps |
| Cadmium | 108-1 | 743 | 753 | 663 | 720 | 6.85 | cps |
| Cadmium | 106-1 | 8006 | 8286 | 8009 | 8100 | 1.99 | cps |
| Cadmium | 111-1 | 14827 | 14900 | 14639 | 14789 | 0.91 | cps |
| Calcium | 43-1 | 73386 | 73316 | 74180 | 73627 | 0.65 | cps |
| Calcium | 44-1 | 1253720 | 1271431 | 1257192 | 1260781 | 0.74 | cps |
| Carbon | 12-1 | 5763424 | 5589489 | 5614986 | 5655966 | 1.66 | cps |
| Carbon | 12-2 | 40843 | 39252 | 39817 | 39971 | 2.02 | cps |
| Chlorine | 35-1 | 946326 | 931034 | 923019 | 933460 | 1.27 | cps |
| Chlorine | 35-2 | 5244 | 5091 | 5114 | 5150 | 1.60 | cps |
| Chromium | 52-2 | 37212 | 37222 | 37202 | 37212 | 0.03 | cps |
| Cobalt | 59-2 | 20101 | 19464 | 19747 | 19770 | 1.62 | cps |
| Copper | 63-2 | 33804 | 33546 | 33660 | 33670 | 0.38 | cps |
| Dysprosium | 156-1 | 47 | 10 | 37 | 31 | 60.93 | cps |
| Dysprosium | 156-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Erbium | 164-1 | 77 | 90 | 73 | 80 | 11.02 | cps |
| Erbium | 164-2 | 23 | 33 | 30 | 29 | 17.63 | cps |
| Gadolinium | 160-1 | 130 | 113 | 120 | 121 | 6.92 | cps |
| Gadolinium | 160-2 | 33 | 27 | 33 | 31 | 12.36 | cps |
| Holmium | 165-1 | 11042315 | 11033462 | 11072509 | 11049429 | 0.19 | cps |
| Holmium | 165-2 | 4447557 | 4496285 | 4467192 | 4470345 | 0.55 | cps |
| Indium | 115-1 | 10162068 | 10103783 | 10171566 | 10145805 | 0.36 | cps |
| Indium | 115-2 | 1247975 | 1241940 | 1237790 | 1242568 | 0.41 | cps |
| Iron | 54-2 | 26638 | 26895 | 26057 | 26530 | 1.62 | cps |
| Iron | 56-2 | 461155 | 458283 | 452668 | 457369 | 0.94 | cps |
| Iron | 57-2 | 11712 | 11381 | 11041 | 11378 | 2.95 | cps |
| Krypton | 83-1 | 470 | 450 | 403 | 441 | 7.76 | cps |
| Lead | 206-1 | 25462 | 25752 | 25846 | 25687 | 0.78 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P8 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:20:50 | DataFile Name : | 027LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 21825 | 22623 | 22119 | 22189 | 1.82 | cps |
| Lead | 208-1 | 100670 | 102655 | 101870 | 101732 | 0.98 | cps |
| Lithium | 6-1 | 3895435 | 3925410 | 3888924 | 3903256 | 0.50 | cps |
| Magnesium | 24-2 | 333369 | 325625 | 321859 | 326951 | 1.79 | cps |
| Manganese | 55-2 | 7199 | 7379 | 7252 | 7276 | 1.27 | cps |
| Molybdenum | 94-1 | 78426 | 78717 | 78430 | 78524 | 0.21 | cps |
| Molybdenum | 95-1 | 95549 | 95183 | 95210 | 95314 | 0.21 | cps |
| Molybdenum | 96-1 | 106535 | 104664 | 105429 | 105543 | 0.89 | cps |
| Molybdenum | 97-1 | 59105 | 58613 | 58369 | 58696 | 0.64 | cps |
| Molybdenum | 98-1 | 152716 | 153128 | 154129 | 153324 | 0.47 | cps |
| Neodymium | 150-1 | 23 | 30 | 13 | 22 | 37.76 | cps |
| Neodymium | 150-2 | 0 | 7 | 3 | 3 | 100.05 | cps |
| Nickel | 60-2 | 9647 | 9196 | 9570 | 9471 | 2.54 | cps |
| Phosphorus | 31-2 | 703 | 683 | 587 | 658 | 9.49 | cps |
| Potassium | 39-2 | 264809 | 265489 | 265207 | 265169 | 0.13 | cps |
| Rhodium | 103-1 | 9881558 | 9558603 | 9864214 | 9768125 | 1.86 | cps |
| Rhodium | 103-2 | 4303747 | 4340538 | 4330194 | 4324826 | 0.44 | cps |
| Scandium | 45-1 | 7178333 | 7329221 | 7359578 | 7289044 | 1.33 | cps |
| Scandium | 45-2 | 186615 | 182721 | 182719 | 184018 | 1.22 | cps |
| Selenium | 82-1 | 3037 | 3221 | 3120 | 3126 | 2.94 | cps |
| Selenium | 77-2 | 117 | 93 | 87 | 99 | 15.93 | cps |
| Selenium | 78-2 | 287 | 280 | 300 | 289 | 3.53 | cps |
| Silicon | 28-1 | 823246 | 814779 | 816974 | 818333 | 0.54 | cps |
| Silver | 107-1 | 45495 | 47167 | 45642 | 46101 | 2.01 | cps |
| Silver | 109-1 | 42706 | 45053 | 43689 | 43816 | 2.69 | cps |
| Sodium | 23-2 | 768330 | 761419 | 754954 | 761567 | 0.88 | cps |
| Strontium | 86-1 | 14481 | 14037 | 14227 | 14248 | 1.56 | cps |
| Strontium | 88-1 | 121261 | 121954 | 121036 | 121417 | 0.39 | cps |
| Sulfur | 34-1 | 841163 | 844889 | 848759 | 844937 | 0.45 | cps |
| Terbium | 159-1 | 11687299 | 11394406 | 11477344 | 11519683 | 1.31 | cps |
| Terbium | 159-2 | 4372739 | 4405842 | 4448890 | 4409157 | 0.87 | cps |
| Thallium | 203-1 | 28769 | 30015 | 29230 | 29338 | 2.15 | cps |
| Thallium | 205-1 | 70195 | 69881 | 69813 | 69963 | 0.29 | cps |
| Tin | 118-1 | 153948 | 154694 | 158674 | 155772 | 1.63 | cps |
| Titanium | 47-1 | 30115 | 30152 | 29991 | 30086 | 0.28 | cps |
| Uranium | 238-1 | 83663 | 82747 | 83328 | 83246 | 0.56 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P8 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:20:50 | DataFile Name : | 027LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 39257 | 39524 | 38599 | 39127 | 1.22 | cps |
| Ytterbium | 172-1 | 60 | 60 | 53 | 58 | 6.67 | cps |
| Ytterbium | 172-2 | 43 | 40 | 37 | 40 | 8.32 | cps |
| Ytterbium | 176-1 | 1600 | 1690 | 1800 | 1697 | 5.90 | cps |
| Ytterbium | 176-2 | 407 | 427 | 387 | 407 | 4.92 | cps |
| Yttrium | 89-1 | 18781703 | 18810781 | 18312552 | 18635012 | 1.50 | cps |
| Yttrium | 89-2 | 1745879 | 1737682 | 1756041 | 1746534 | 0.53 | cps |
| Zinc | 66-2 | 14805 | 14434 | 14311 | 14516 | 1.77 | cps |
| Zirconium | 90-1 | 64177 | 66327 | 66725 | 65743 | 2.09 | cps |
| Zirconium | 91-1 | 14144 | 14731 | 14688 | 14521 | 2.25 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-12 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:24:11 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7042 | 6778 | 7008 | 6943 | 2.07 | cps |
| Antimony | 121-1 | 10978 | 10884 | 10758 | 10873 | 1.02 | cps |
| Arsenic | 75-2 | 847 | 833 | 770 | 817 | 5.02 | cps |
| Barium | 135-1 | 3773645 | 3832481 | 3721119 | 3775749 | 1.48 | cps |
| Barium | 137-1 | 6455467 | 6623892 | 6413262 | 6497540 | 1.72 | cps |
| Beryllium | 9-1 | -44933 | -45990 | -46130 | -45684 | -1.43 | cps |
| Bismuth | 209-1 | 6338434 | 6299130 | 6280172 | 6305912 | 0.47 | cps |
| Bismuth | 209-2 | 3024160 | 3026841 | 3015763 | 3022255 | 0.19 | cps |
| Bromine | 81-1 | 183717 | 189887 | 190928 | 188178 | 2.07 | cps |
| Cadmium | 108-1 | 110 | 183 | 110 | 134 | 31.49 | cps |
| Cadmium | 106-1 | 6822 | 7199 | 6555 | 6858 | 4.72 | cps |
| Cadmium | 111-1 | 4908 | 5144 | 4728 | 4927 | 4.23 | cps |
| Calcium | 43-1 | 3696540 | 3689416 | 3679066 | 3688341 | 0.24 | cps |
| Calcium | 44-1 | 60533777 | 59791579 | 59701554 | 60008970 | 0.76 | cps |
| Carbon | 12-1 | 8523962 | 9338688 | 9871503 | 9244718 | 7.34 | cps |
| Carbon | 12-2 | 78914 | 80277 | 80536 | 79909 | 1.09 | cps |
| Chlorine | 35-1 | 3760118 | 4010927 | 4090258 | 3953768 | 4.36 | cps |
| Chlorine | 35-2 | 24881 | 24751 | 25195 | 24943 | 0.92 | cps |
| Chromium | 52-2 | 2984 | 3114 | 3024 | 3040 | 2.19 | cps |
| Cobalt | 59-2 | 121803 | 122229 | 123883 | 122638 | 0.90 | cps |
| Copper | 63-2 | 5214 | 5234 | 5111 | 5187 | 1.28 | cps |
| Dysprosium | 156-1 | 87 | 110 | 77 | 91 | 18.77 | cps |
| Dysprosium | 156-2 | 23 | 3 | 13 | 13 | 75.02 | cps |
| Erbium | 164-1 | 133 | 127 | 120 | 127 | 5.27 | cps |
| Erbium | 164-2 | 40 | 57 | 37 | 44 | 24.11 | cps |
| Gadolinium | 160-1 | 137 | 173 | 113 | 141 | 21.43 | cps |
| Gadolinium | 160-2 | 37 | 63 | 43 | 48 | 29.04 | cps |
| Holmium | 165-1 | 11212146 | 10983635 | 11013223 | 11069668 | 1.12 | cps |
| Holmium | 165-2 | 4450679 | 4490005 | 4502011 | 4480898 | 0.60 | cps |
| Indium | 115-1 | 10123423 | 9957699 | 9967097 | 10016073 | 0.93 | cps |
| Indium | 115-2 | 1228859 | 1234776 | 1235484 | 1233039 | 0.30 | cps |
| Iron | 54-2 | 2374691 | 2360840 | 2390570 | 2375367 | 0.63 | cps |
| Iron | 56-2 | 43077016 | 42224768 | 42906508 | 42736097 | 1.06 | cps |
| Iron | 57-2 | 1035476 | 1037553 | 1034506 | 1035845 | 0.15 | cps |
| Krypton | 83-1 | 460 | 407 | 407 | 424 | 7.25 | cps |
| Lead | 206-1 | 6588 | 6532 | 6652 | 6591 | 0.91 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-12 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:24:11 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5528 | 5485 | 5398 | 5470 | 1.21 | cps |
| Lead | 208-1 | 25390 | 25246 | 25176 | 25271 | 0.43 | cps |
| Lithium | 6-1 | 3984422 | 3958609 | 4019895 | 3987642 | 0.77 | cps |
| Magnesium | 24-2 | 5265372 | 5241310 | 5217325 | 5241336 | 0.46 | cps |
| Manganese | 55-2 | 2573128 | 2502776 | 2500975 | 2525626 | 1.63 | cps |
| Molybdenum | 94-1 | 232266 | 236601 | 233682 | 234183 | 0.94 | cps |
| Molybdenum | 95-1 | 407247 | 408357 | 409842 | 408482 | 0.32 | cps |
| Molybdenum | 96-1 | 434456 | 439152 | 435746 | 436452 | 0.56 | cps |
| Molybdenum | 97-1 | 253612 | 253702 | 253804 | 253706 | 0.04 | cps |
| Molybdenum | 98-1 | 661165 | 649444 | 653573 | 654728 | 0.91 | cps |
| Neodymium | 150-1 | 313 | 277 | 297 | 296 | 6.21 | cps |
| Neodymium | 150-2 | 23 | 13 | 23 | 20 | 28.87 | cps |
| Nickel | 60-2 | 48746 | 49191 | 47810 | 48583 | 1.45 | cps |
| Phosphorus | 31-2 | 3310 | 3324 | 3250 | 3295 | 1.19 | cps |
| Potassium | 39-2 | 3879745 | 3830365 | 3899888 | 3869999 | 0.92 | cps |
| Rhodium | 103-1 | 9672697 | 9354730 | 9520300 | 9515909 | 1.67 | cps |
| Rhodium | 103-2 | 4259763 | 4277458 | 4169308 | 4235510 | 1.37 | cps |
| Scandium | 45-1 | 7440755 | 7306878 | 7301544 | 7349726 | 1.07 | cps |
| Scandium | 45-2 | 183492 | 182038 | 187087 | 184206 | 1.41 | cps |
| Selenium | 82-1 | 163 | 243 | 233 | 213 | 20.43 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 37 | 60 | 47 | 48 | 24.50 | cps |
| Silicon | 28-1 | 472126686 | 469904033 | 466607606 | 469546109 | 0.59 | cps |
| Silver | 107-1 | 680 | 613 | 613 | 636 | 6.06 | cps |
| Silver | 109-1 | 523 | 520 | 497 | 513 | 2.83 | cps |
| Sodium | 23-2 | 9341594 | 9391119 | 9272794 | 9335169 | 0.64 | cps |
| Strontium | 86-1 | 3516715 | 3591517 | 3584325 | 3564186 | 1.16 | cps |
| Strontium | 88-1 | 30285123 | 30960540 | 31081826 | 30775830 | 1.39 | cps |
| Sulfur | 34-1 | 1039685 | 1005393 | 990392 | 1011823 | 2.50 | cps |
| Terbium | 159-1 | 11357271 | 11330489 | 11330743 | 11339501 | 0.14 | cps |
| Terbium | 159-2 | 4392484 | 4417740 | 4362319 | 4390848 | 0.63 | cps |
| Thallium | 203-1 | 7599 | 7639 | 7409 | 7549 | 1.63 | cps |
| Thallium | 205-1 | 18123 | 18126 | 18283 | 18177 | 0.50 | cps |
| Tin | 118-1 | 14828 | 15082 | 14801 | 14904 | 1.04 | cps |
| Titanium | 47-1 | 9406 | 9276 | 9100 | 9261 | 1.66 | cps |
| Uranium | 238-1 | 897 | 873 | 920 | 897 | 2.60 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-12 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-17B-55-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:24:11 | DataFile Name : | 028AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 2880 | 2750 | 2704 | 2778 | 3.30 | cps |
| Ytterbium | 172-1 | 80 | 110 | 113 | 101 | 18.16 | cps |
| Ytterbium | 172-2 | 17 | 43 | 30 | 30 | 44.43 | cps |
| Ytterbium | 176-1 | 1663 | 1567 | 1470 | 1567 | 6.17 | cps |
| Ytterbium | 176-2 | 343 | 323 | 403 | 357 | 11.67 | cps |
| Yttrium | 89-1 | 18544356 | 18386350 | 18455131 | 18461945 | 0.43 | cps |
| Yttrium | 89-2 | 1741586 | 1733638 | 1757954 | 1744393 | 0.71 | cps |
| Zinc | 66-2 | 10584 | 10594 | 10647 | 10609 | 0.32 | cps |
| Zirconium | 90-1 | 1997 | 2107 | 1917 | 2007 | 4.75 | cps |
| Zirconium | 91-1 | 407 | 427 | 437 | 423 | 3.61 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-13 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:27:23 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 970 | 920 | 897 | 929 | 4.03 | cps |
| Antimony | 121-1 | 370 | 353 | 387 | 370 | 4.51 | cps |
| Arsenic | 75-2 | 13 | 13 | 13 | 13 | 0.00 | cps |
| Barium | 135-1 | 893 | 847 | 760 | 833 | 8.12 | cps |
| Barium | 137-1 | 1417 | 1213 | 1407 | 1346 | 8.52 | cps |
| Beryllium | 9-1 | 94 | 111 | 102 | 102 | 8.58 | cps |
| Bismuth | 209-1 | 6442861 | 6521001 | 6413134 | 6458999 | 0.86 | cps |
| Bismuth | 209-2 | 3186582 | 3040521 | 3010205 | 3079103 | 3.06 | cps |
| Bromine | 81-1 | 45002 | 43190 | 40953 | 43048 | 4.71 | cps |
| Cadmium | 108-1 | 23 | 43 | 30 | 32 | 31.61 | cps |
| Cadmium | 106-1 | 6885 | 6892 | 6995 | 6924 | 0.89 | cps |
| Cadmium | 111-1 | 4877 | 4847 | 4916 | 4880 | 0.70 | cps |
| Calcium | 43-1 | 4901 | 4637 | 4768 | 4769 | 2.76 | cps |
| Calcium | 44-1 | 107554 | 106903 | 104136 | 106198 | 1.71 | cps |
| Carbon | 12-1 | 8679148 | 9331684 | 9764791 | 9258541 | 5.90 | cps |
| Carbon | 12-2 | 73965 | 73583 | 74142 | 73897 | 0.39 | cps |
| Chlorine | 35-1 | 975141 | 947037 | 909105 | 943761 | 3.51 | cps |
| Chlorine | 35-2 | 4878 | 4944 | 4791 | 4871 | 1.58 | cps |
| Chromium | 52-2 | 4734 | 4934 | 4661 | 4776 | 2.96 | cps |
| Cobalt | 59-2 | 227 | 203 | 233 | 221 | 7.12 | cps |
| Copper | 63-2 | 4848 | 4791 | 5041 | 4893 | 2.68 | cps |
| Dysprosium | 156-1 | 40 | 27 | 23 | 30 | 29.40 | cps |
| Dysprosium | 156-2 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Erbium | 164-1 | 90 | 77 | 103 | 90 | 14.82 | cps |
| Erbium | 164-2 | 57 | 17 | 27 | 33 | 62.44 | cps |
| Gadolinium | 160-1 | 113 | 113 | 150 | 126 | 16.86 | cps |
| Gadolinium | 160-2 | 33 | 33 | 30 | 32 | 5.97 | cps |
| Holmium | 165-1 | 11063289 | 11196480 | 10916177 | 11058648 | 1.27 | cps |
| Holmium | 165-2 | 4567678 | 4442219 | 4306914 | 4438937 | 2.94 | cps |
| Indium | 115-1 | 10417926 | 10265457 | 10197493 | 10293625 | 1.10 | cps |
| Indium | 115-2 | 1265069 | 1237873 | 1212698 | 1238546 | 2.11 | cps |
| Iron | 54-2 | 8913 | 9073 | 9040 | 9008 | 0.94 | cps |
| Iron | 56-2 | 160304 | 160285 | 158948 | 159846 | 0.49 | cps |
| Iron | 57-2 | 4141 | 3934 | 4027 | 4034 | 2.57 | cps |
| Krypton | 83-1 | 373 | 373 | 410 | 386 | 5.49 | cps |
| Lead | 206-1 | 3717 | 3947 | 3734 | 3799 | 3.38 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-13 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:27:23 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3360 | 3160 | 3117 | 3213 | 4.04 | cps |
| Lead | 208-1 | 14997 | 15094 | 14880 | 14990 | 0.71 | cps |
| Lithium | 6-1 | 3911262 | 3955177 | 3835286 | 3900575 | 1.56 | cps |
| Magnesium | 24-2 | 2800 | 2807 | 2657 | 2755 | 3.08 | cps |
| Manganese | 55-2 | 9797 | 9603 | 9730 | 9710 | 1.01 | cps |
| Molybdenum | 94-1 | 863 | 827 | 893 | 861 | 3.88 | cps |
| Molybdenum | 95-1 | 657 | 750 | 637 | 681 | 8.88 | cps |
| Molybdenum | 96-1 | 807 | 813 | 817 | 812 | 0.63 | cps |
| Molybdenum | 97-1 | 457 | 370 | 407 | 411 | 10.58 | cps |
| Molybdenum | 98-1 | 1123 | 1057 | 1030 | 1070 | 4.49 | cps |
| Neodymium | 150-1 | 23 | 13 | 13 | 17 | 34.65 | cps |
| Neodymium | 150-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Nickel | 60-2 | 2494 | 2370 | 2360 | 2408 | 3.08 | cps |
| Phosphorus | 31-2 | 323 | 320 | 330 | 324 | 1.57 | cps |
| Potassium | 39-2 | 41957 | 40985 | 41827 | 41590 | 1.27 | cps |
| Rhodium | 103-1 | 9821896 | 9988631 | 9769707 | 9860078 | 1.16 | cps |
| Rhodium | 103-2 | 4446885 | 4342988 | 4298951 | 4362942 | 1.74 | cps |
| Scandium | 45-1 | 7207512 | 7203708 | 7133956 | 7181725 | 0.58 | cps |
| Scandium | 45-2 | 185718 | 182847 | 177775 | 182114 | 2.21 | cps |
| Selenium | 82-1 | 100 | 77 | -7 | 57 | 98.96 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 60 | 20 | 60 | 47 | 49.49 | cps |
| Silicon | 28-1 | 924515 | 939355 | 934623 | 932831 | 0.81 | cps |
| Silver | 107-1 | 387 | 327 | 320 | 344 | 10.66 | cps |
| Silver | 109-1 | 253 | 233 | 260 | 249 | 5.58 | cps |
| Sodium | 23-2 | 188038 | 187312 | 186657 | 187336 | 0.37 | cps |
| Strontium | 86-1 | 1480 | 1620 | 1500 | 1533 | 4.94 | cps |
| Strontium | 88-1 | 7495 | 7482 | 7169 | 7382 | 2.51 | cps |
| Sulfur | 34-1 | 714300 | 723338 | 717980 | 718540 | 0.63 | cps |
| Terbium | 159-1 | 11394569 | 11810002 | 11804544 | 11669705 | 2.04 | cps |
| Terbium | 159-2 | 4415915 | 4348523 | 4258941 | 4341126 | 1.81 | cps |
| Thallium | 203-1 | 640 | 550 | 573 | 588 | 7.95 | cps |
| Thallium | 205-1 | 1443 | 1400 | 1313 | 1386 | 4.78 | cps |
| Tin | 118-1 | 14424 | 14895 | 14651 | 14657 | 1.61 | cps |
| Titanium | 47-1 | 760 | 840 | 697 | 766 | 9.38 | cps |
| Uranium | 238-1 | 167 | 207 | 170 | 181 | 12.25 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-13 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:27:23 | DataFile Name : | 029AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 43 | 53 | 47 | 48 | 10.66 | cps |
| Ytterbium | 172-1 | 77 | 60 | 70 | 69 | 12.18 | cps |
| Ytterbium | 172-2 | 30 | 33 | 10 | 24 | 51.62 | cps |
| Ytterbium | 176-1 | 1577 | 1563 | 1623 | 1588 | 1.98 | cps |
| Ytterbium | 176-2 | 270 | 380 | 310 | 320 | 17.40 | cps |
| Yttrium | 89-1 | 19008096 | 19003968 | 18704993 | 18905686 | 0.92 | cps |
| Yttrium | 89-2 | 1745384 | 1763113 | 1712778 | 1740425 | 1.47 | cps |
| Zinc | 66-2 | 4087 | 3971 | 3627 | 3895 | 6.14 | cps |
| Zirconium | 90-1 | 1307 | 1403 | 1327 | 1346 | 3.79 | cps |
| Zirconium | 91-1 | 283 | 230 | 247 | 253 | 10.77 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:30:44 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 274387 | 271662 | 273286 | 273112 | 0.50 | cps |
| Antimony | 121-1 | 64880 | 65158 | 65376 | 65138 | 0.38 | cps |
| Arsenic | 75-2 | 980 | 1013 | 960 | 984 | 2.74 | cps |
| Barium | 135-1 | 1066655 | 1078290 | 1084020 | 1076322 | 0.82 | cps |
| Barium | 137-1 | 1937279 | 1925308 | 1921215 | 1927934 | 0.43 | cps |
| Beryllium | 9-1 | -96490 | -95220 | -95277 | -95662 | -0.75 | cps |
| Bismuth | 209-1 | 5976468 | 6079058 | 6062777 | 6039434 | 0.91 | cps |
| Bismuth | 209-2 | 2923869 | 2923002 | 2966603 | 2937825 | 0.85 | cps |
| Bromine | 81-1 | 147942 | 157355 | 163305 | 156201 | 4.96 | cps |
| Cadmium | 108-1 | 460 | 487 | 450 | 466 | 4.07 | cps |
| Cadmium | 106-1 | 6872 | 6882 | 6792 | 6848 | 0.72 | cps |
| Cadmium | 111-1 | 5035 | 4983 | 5019 | 5012 | 0.53 | cps |
| Calcium | 43-1 | 12521613 | 12310216 | 12202646 | 12344825 | 1.31 | cps |
| Calcium | 44-1 | 201138424 | 202276150 | 195858857 | 199757810 | 1.71 | cps |
| Carbon | 12-1 | 10773606 | 11805645 | 12140763 | 11573338 | 6.16 | cps |
| Carbon | 12-2 | 94152 | 93220 | 95091 | 94154 | 0.99 | cps |
| Chlorine | 35-1 | 4081766 | 4390455 | 4494155 | 4322126 | 4.96 | cps |
| Chlorine | 35-2 | 27757 | 27877 | 28057 | 27897 | 0.54 | cps |
| Chromium | 52-2 | 2497 | 2487 | 2287 | 2424 | 4.89 | cps |
| Cobalt | 59-2 | 780 | 903 | 853 | 846 | 7.34 | cps |
| Copper | 63-2 | 5304 | 5558 | 5401 | 5421 | 2.36 | cps |
| Dysprosium | 156-1 | 40 | 57 | 43 | 47 | 18.90 | cps |
| Dysprosium | 156-2 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Erbium | 164-1 | 97 | 87 | 70 | 84 | 15.95 | cps |
| Erbium | 164-2 | 23 | 27 | 20 | 23 | 14.29 | cps |
| Gadolinium | 160-1 | 133 | 93 | 153 | 127 | 24.12 | cps |
| Gadolinium | 160-2 | 13 | 27 | 27 | 22 | 34.66 | cps |
| Holmium | 165-1 | 10602833 | 10895772 | 10793674 | 10764093 | 1.38 | cps |
| Holmium | 165-2 | 4422491 | 4469335 | 4488527 | 4460118 | 0.76 | cps |
| Indium | 115-1 | 9826609 | 9755493 | 9771884 | 9784662 | 0.38 | cps |
| Indium | 115-2 | 1221530 | 1220405 | 1215732 | 1219222 | 0.25 | cps |
| Iron | 54-2 | 19907 | 19844 | 19834 | 19862 | 0.20 | cps |
| Iron | 56-2 | 357553 | 353359 | 356805 | 355905 | 0.63 | cps |
| Iron | 57-2 | 9850 | 9597 | 9503 | 9650 | 1.86 | cps |
| Krypton | 83-1 | 400 | 420 | 377 | 399 | 5.44 | cps |
| Lead | 206-1 | 4307 | 4207 | 4304 | 4273 | 1.33 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:30:44 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3777 | 3584 | 3777 | 3713 | 3.01 | cps |
| Lead | 208-1 | 17155 | 16544 | 16714 | 16804 | 1.87 | cps |
| Lithium | 6-1 | 3921644 | 3830382 | 3881381 | 3877802 | 1.18 | cps |
| Magnesium | 24-2 | 239681 | 240530 | 236549 | 238920 | 0.88 | cps |
| Manganese | 55-2 | 50512 | 49780 | 50208 | 50167 | 0.73 | cps |
| Molybdenum | 94-1 | 792230 | 787133 | 789660 | 789674 | 0.32 | cps |
| Molybdenum | 95-1 | 1460426 | 1473932 | 1477858 | 1470739 | 0.62 | cps |
| Molybdenum | 96-1 | 1590527 | 1558930 | 1573282 | 1574246 | 1.00 | cps |
| Molybdenum | 97-1 | 865839 | 869267 | 853819 | 862975 | 0.94 | cps |
| Molybdenum | 98-1 | 2400587 | 2342446 | 2379723 | 2374252 | 1.24 | cps |
| Neodymium | 150-1 | 93 | 133 | 123 | 117 | 17.85 | cps |
| Neodymium | 150-2 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Nickel | 60-2 | 37001 | 36791 | 36978 | 36923 | 0.31 | cps |
| Phosphorus | 31-2 | 353 | 347 | 397 | 366 | 7.43 | cps |
| Potassium | 39-2 | 11580172 | 11644435 | 11527766 | 11584125 | 0.50 | cps |
| Rhodium | 103-1 | 9268825 | 9241366 | 9312359 | 9274183 | 0.39 | cps |
| Rhodium | 103-2 | 4114717 | 4161974 | 4119373 | 4132021 | 0.63 | cps |
| Scandium | 45-1 | 7129437 | 7040120 | 7103402 | 7090986 | 0.65 | cps |
| Scandium | 45-2 | 180235 | 183023 | 183992 | 182417 | 1.07 | cps |
| Selenium | 82-1 | 543 | 487 | 540 | 523 | 6.08 | cps |
| Selenium | 77-2 | 17 | 7 | 7 | 10 | 57.72 | cps |
| Selenium | 78-2 | 60 | 70 | 117 | 82 | 36.79 | cps |
| Silicon | 28-1 | 101445338 | 101100688 | 100651819 | 101065948 | 0.39 | cps |
| Silver | 107-1 | 297 | 283 | 277 | 286 | 3.57 | cps |
| Silver | 109-1 | 230 | 187 | 270 | 229 | 18.21 | cps |
| Sodium | 23-2 | 27412289 | 27081300 | 26822213 | 27105267 | 1.09 | cps |
| Strontium | 86-1 | 7236095 | 7316127 | 7328484 | 7293569 | 0.69 | cps |
| Strontium | 88-1 | 64405646 | 63568471 | 63588127 | 63854081 | 0.75 | cps |
| Sulfur | 34-1 | 1725411 | 1710694 | 1717851 | 1717986 | 0.43 | cps |
| Terbium | 159-1 | 11357597 | 11193607 | 11242909 | 11264704 | 0.75 | cps |
| Terbium | 159-2 | 4365950 | 4362921 | 4352848 | 4360573 | 0.16 | cps |
| Thallium | 203-1 | 1263 | 1277 | 1317 | 1286 | 2.16 | cps |
| Thallium | 205-1 | 2997 | 3070 | 3017 | 3028 | 1.25 | cps |
| Tin | 118-1 | 16407 | 16634 | 16857 | 16632 | 1.35 | cps |
| Titanium | 47-1 | 2544 | 2534 | 2420 | 2499 | 2.74 | cps |
| Uranium | 238-1 | 420 | 450 | 413 | 428 | 4.57 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:30:44 | DataFile Name : | 030AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 31164 | 31024 | 31405 | 31197 | 0.62 | cps |
| Ytterbium | 172-1 | 100 | 60 | 43 | 68 | 42.97 | cps |
| Ytterbium | 172-2 | 20 | 20 | 40 | 27 | 43.30 | cps |
| Ytterbium | 176-1 | 1590 | 1523 | 1567 | 1560 | 2.17 | cps |
| Ytterbium | 176-2 | 357 | 367 | 357 | 360 | 1.60 | cps |
| Yttrium | 89-1 | 18503041 | 18632085 | 18166601 | 18433909 | 1.30 | cps |
| Yttrium | 89-2 | 1740260 | 1733932 | 1754007 | 1742733 | 0.59 | cps |
| Zinc | 66-2 | 5601 | 5481 | 5531 | 5538 | 1.09 | cps |
| Zirconium | 90-1 | 1790 | 1910 | 1810 | 1837 | 3.50 | cps |
| Zirconium | 91-1 | 367 | 320 | 377 | 354 | 8.53 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14DUP | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:33:59 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 277212 | 275911 | 273450 | 275524 | 0.69 | cps |
| Antimony | 121-1 | 65965 | 66336 | 66427 | 66243 | 0.37 | cps |
| Arsenic | 75-2 | 843 | 1053 | 930 | 942 | 11.20 | cps |
| Barium | 135-1 | 1094944 | 1084336 | 1088680 | 1089320 | 0.49 | cps |
| Barium | 137-1 | 2042658 | 2019473 | 1994355 | 2018828 | 1.20 | cps |
| Beryllium | 9-1 | -95665 | -95559 | -96439 | -95888 | -0.50 | cps |
| Bismuth | 209-1 | 6148304 | 6063500 | 6084178 | 6098661 | 0.73 | cps |
| Bismuth | 209-2 | 3012373 | 3030586 | 3037978 | 3026979 | 0.44 | cps |
| Bromine | 81-1 | 155886 | 160184 | 170446 | 162172 | 4.61 | cps |
| Cadmium | 108-1 | 480 | 427 | 480 | 462 | 6.66 | cps |
| Cadmium | 106-1 | 6989 | 6982 | 7162 | 7044 | 1.45 | cps |
| Cadmium | 111-1 | 5089 | 5142 | 5194 | 5142 | 1.02 | cps |
| Calcium | 43-1 | 12205174 | 12163898 | 12329214 | 12232762 | 0.70 | cps |
| Calcium | 44-1 | 200440484 | 199191090 | 198603857 | 199411810 | 0.47 | cps |
| Carbon | 12-1 | 10061437 | 10545348 | 10694992 | 10433926 | 3.17 | cps |
| Carbon | 12-2 | 80448 | 80797 | 80861 | 80702 | 0.28 | cps |
| Chlorine | 35-1 | 4274995 | 4663015 | 4818382 | 4585464 | 6.10 | cps |
| Chlorine | 35-2 | 28759 | 29356 | 29681 | 29265 | 1.60 | cps |
| Chromium | 52-2 | 2444 | 2457 | 2540 | 2480 | 2.11 | cps |
| Cobalt | 59-2 | 897 | 893 | 893 | 894 | 0.21 | cps |
| Copper | 63-2 | 5935 | 5885 | 5671 | 5830 | 2.40 | cps |
| Dysprosium | 156-1 | 27 | 37 | 33 | 32 | 15.80 | cps |
| Dysprosium | 156-2 | 3 | 7 | 13 | 8 | 65.47 | cps |
| Erbium | 164-1 | 97 | 50 | 87 | 78 | 31.59 | cps |
| Erbium | 164-2 | 30 | 23 | 37 | 30 | 22.23 | cps |
| Gadolinium | 160-1 | 120 | 120 | 160 | 133 | 17.32 | cps |
| Gadolinium | 160-2 | 50 | 33 | 47 | 43 | 20.36 | cps |
| Holmium | 165-1 | 11167021 | 10944846 | 11034344 | 11048737 | 1.01 | cps |
| Holmium | 165-2 | 4553953 | 4496470 | 4521166 | 4523863 | 0.64 | cps |
| Indium | 115-1 | 9962717 | 9879912 | 9720326 | 9854318 | 1.25 | cps |
| Indium | 115-2 | 1234509 | 1232168 | 1231973 | 1232883 | 0.11 | cps |
| Iron | 54-2 | 20672 | 20201 | 20385 | 20419 | 1.16 | cps |
| Iron | 56-2 | 367190 | 368355 | 361005 | 365517 | 1.08 | cps |
| Iron | 57-2 | 9870 | 9740 | 9964 | 9858 | 1.14 | cps |
| Krypton | 83-1 | 403 | 450 | 447 | 433 | 6.01 | cps |
| Lead | 206-1 | 5548 | 5501 | 5521 | 5523 | 0.42 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14DUP | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:33:59 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 4614 | 4741 | 4527 | 4628 | 2.32 | cps |
| Lead | 208-1 | 21224 | 21344 | 21534 | 21367 | 0.73 | cps |
| Lithium | 6-1 | 3883979 | 4006979 | 3934571 | 3941843 | 1.57 | cps |
| Magnesium | 24-2 | 244858 | 239348 | 241140 | 241782 | 1.16 | cps |
| Manganese | 55-2 | 36764 | 37118 | 37850 | 37244 | 1.49 | cps |
| Molybdenum | 94-1 | 793467 | 786824 | 800314 | 793535 | 0.85 | cps |
| Molybdenum | 95-1 | 1463182 | 1439767 | 1459338 | 1454096 | 0.86 | cps |
| Molybdenum | 96-1 | 1561026 | 1561770 | 1639792 | 1587529 | 2.85 | cps |
| Molybdenum | 97-1 | 854650 | 867627 | 871207 | 864495 | 1.01 | cps |
| Molybdenum | 98-1 | 2320855 | 2392588 | 2360919 | 2358121 | 1.52 | cps |
| Neodymium | 150-1 | 63 | 113 | 110 | 96 | 29.26 | cps |
| Neodymium | 150-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 37620 | 36844 | 37690 | 37385 | 1.25 | cps |
| Phosphorus | 31-2 | 377 | 347 | 400 | 374 | 7.14 | cps |
| Potassium | 39-2 | 11619536 | 11574812 | 11545403 | 11579917 | 0.32 | cps |
| Rhodium | 103-1 | 9300872 | 9320441 | 9257720 | 9293011 | 0.35 | cps |
| Rhodium | 103-2 | 4178410 | 4276915 | 4191992 | 4215772 | 1.27 | cps |
| Scandium | 45-1 | 7099136 | 7132763 | 7284085 | 7171995 | 1.37 | cps |
| Scandium | 45-2 | 185116 | 184529 | 184130 | 184592 | 0.27 | cps |
| Selenium | 82-1 | 530 | 527 | 487 | 514 | 4.69 | cps |
| Selenium | 77-2 | 3 | 20 | 0 | 8 | 137.80 | cps |
| Selenium | 78-2 | 53 | 53 | 50 | 52 | 3.68 | cps |
| Silicon | 28-1 | 100175559 | 100597419 | 100373005 | 100381994 | 0.21 | cps |
| Silver | 107-1 | 207 | 327 | 253 | 262 | 23.07 | cps |
| Silver | 109-1 | 177 | 190 | 197 | 188 | 5.42 | cps |
| Sodium | 23-2 | 27627670 | 27367772 | 27356475 | 27450639 | 0.56 | cps |
| Strontium | 86-1 | 7331273 | 7433394 | 7359938 | 7374869 | 0.71 | cps |
| Strontium | 88-1 | 63852304 | 63777587 | 64374346 | 64001412 | 0.51 | cps |
| Sulfur | 34-1 | 1686513 | 1704044 | 1690971 | 1693842 | 0.54 | cps |
| Terbium | 159-1 | 11248331 | 11389764 | 11350199 | 11329431 | 0.64 | cps |
| Terbium | 159-2 | 4462869 | 4401937 | 4483544 | 4449450 | 0.95 | cps |
| Thallium | 203-1 | 1287 | 1330 | 1210 | 1276 | 4.76 | cps |
| Thallium | 205-1 | 2817 | 3037 | 3084 | 2979 | 4.78 | cps |
| Tin | 118-1 | 16937 | 16977 | 17445 | 17120 | 1.65 | cps |
| Titanium | 47-1 | 2357 | 2467 | 2554 | 2459 | 4.01 | cps |
| Uranium | 238-1 | 377 | 437 | 367 | 393 | 9.62 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14DUP | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225DUP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:33:59 | DataFile Name : | 031AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 31264 | 32166 | 31298 | 31576 | 1.62 | cps |
| Ytterbium | 172-1 | 50 | 50 | 67 | 56 | 17.32 | cps |
| Ytterbium | 172-2 | 17 | 17 | 20 | 18 | 10.81 | cps |
| Ytterbium | 176-1 | 1467 | 1610 | 1470 | 1516 | 5.40 | cps |
| Ytterbium | 176-2 | 370 | 393 | 410 | 391 | 5.14 | cps |
| Yttrium | 89-1 | 18669172 | 18702741 | 18608598 | 18660170 | 0.26 | cps |
| Yttrium | 89-2 | 1785616 | 1764824 | 1737423 | 1762621 | 1.37 | cps |
| Zinc | 66-2 | 4834 | 4674 | 4587 | 4699 | 2.66 | cps |
| Zirconium | 90-1 | 1707 | 1683 | 1673 | 1688 | 1.01 | cps |
| Zirconium | 91-1 | 420 | 373 | 300 | 364 | 16.60 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-07 13:37:11 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 55000 | 54746 | 54612 | 54786 | 0.36 | cps |
| Antimony | 121-1 | 13517 | 12973 | 13140 | 13210 | 2.11 | cps |
| Arsenic | 75-2 | 213 | 237 | 197 | 216 | 9.32 | cps |
| Barium | 135-1 | 214272 | 217423 | 214753 | 215483 | 0.79 | cps |
| Barium | 137-1 | 367841 | 376927 | 378065 | 374278 | 1.50 | cps |
| Beryllium | 9-1 | -19214 | -19001 | -19072 | -19095 | -0.57 | cps |
| Bismuth | 209-1 | 6124441 | 6074719 | 6259064 | 6152741 | 1.55 | cps |
| Bismuth | 209-2 | 2978391 | 3011585 | 3028635 | 3006203 | 0.85 | cps |
| Bromine | 81-1 | 68902 | 70040 | 69562 | 69501 | 0.82 | cps |
| Cadmium | 108-1 | 107 | 147 | 87 | 113 | 26.96 | cps |
| Cadmium | 106-1 | 6558 | 6902 | 6592 | 6684 | 2.83 | cps |
| Cadmium | 111-1 | 4659 | 4842 | 4680 | 4727 | 2.11 | cps |
| Calcium | 43-1 | 2410936 | 2466111 | 2484214 | 2453754 | 1.56 | cps |
| Calcium | 44-1 | 39196200 | 39302858 | 40091090 | 39530049 | 1.24 | cps |
| Carbon | 12-1 | 7677165 | 7647778 | 7657078 | 7660674 | 0.20 | cps |
| Carbon | 12-2 | 53865 | 53356 | 53437 | 53553 | 0.51 | cps |
| Chlorine | 35-1 | 1676582 | 1689031 | 1711662 | 1692425 | 1.05 | cps |
| Chlorine | 35-2 | 9250 | 9527 | 9280 | 9352 | 1.62 | cps |
| Chromium | 52-2 | 3150 | 3127 | 3170 | 3149 | 0.69 | cps |
| Cobalt | 59-2 | 280 | 280 | 293 | 284 | 2.71 | cps |
| Copper | 63-2 | 4444 | 4537 | 4617 | 4533 | 1.91 | cps |
| Dysprosium | 156-1 | 17 | 13 | 17 | 16 | 12.40 | cps |
| Dysprosium | 156-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Erbium | 164-1 | 67 | 110 | 73 | 83 | 28.00 | cps |
| Erbium | 164-2 | 37 | 30 | 27 | 31 | 16.37 | cps |
| Gadolinium | 160-1 | 110 | 97 | 83 | 97 | 13.79 | cps |
| Gadolinium | 160-2 | 17 | 17 | 27 | 20 | 28.86 | cps |
| Holmium | 165-1 | 10739605 | 10954213 | 10736648 | 10810155 | 1.15 | cps |
| Holmium | 165-2 | 4491723 | 4399623 | 4458751 | 4450032 | 1.05 | cps |
| Indium | 115-1 | 9848105 | 9759113 | 9649283 | 9752167 | 1.02 | cps |
| Indium | 115-2 | 1212955 | 1198533 | 1215366 | 1208951 | 0.75 | cps |
| Iron | 54-2 | 5381 | 5394 | 5281 | 5352 | 1.16 | cps |
| Iron | 56-2 | 88928 | 89394 | 89465 | 89263 | 0.33 | cps |
| Iron | 57-2 | 2534 | 2460 | 2460 | 2485 | 1.70 | cps |
| Krypton | 83-1 | 417 | 463 | 427 | 436 | 5.64 | cps |
| Lead | 206-1 | 2210 | 2377 | 2470 | 2352 | 5.60 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-07 13:37:11 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2074 | 2167 | 2087 | 2109 | 2.39 | cps |
| Lead | 208-1 | 9305 | 9762 | 9365 | 9477 | 2.62 | cps |
| Lithium | 6-1 | 3814033 | 3899285 | 3831853 | 3848390 | 1.17 | cps |
| Magnesium | 24-2 | 47975 | 48270 | 48082 | 48109 | 0.31 | cps |
| Manganese | 55-2 | 14164 | 14000 | 14327 | 14164 | 1.15 | cps |
| Molybdenum | 94-1 | 158787 | 159108 | 158171 | 158689 | 0.30 | cps |
| Molybdenum | 95-1 | 273444 | 280430 | 273330 | 275735 | 1.47 | cps |
| Molybdenum | 96-1 | 293701 | 293434 | 296069 | 294401 | 0.49 | cps |
| Molybdenum | 97-1 | 169869 | 172153 | 171579 | 171200 | 0.69 | cps |
| Molybdenum | 98-1 | 438110 | 443479 | 446566 | 442718 | 0.97 | cps |
| Neodymium | 150-1 | 20 | 23 | 30 | 24 | 20.83 | cps |
| Neodymium | 150-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Nickel | 60-2 | 8236 | 8686 | 8272 | 8398 | 2.98 | cps |
| Phosphorus | 31-2 | 210 | 220 | 297 | 242 | 19.58 | cps |
| Potassium | 39-2 | 2365877 | 2343313 | 2339264 | 2349485 | 0.61 | cps |
| Rhodium | 103-1 | 9390270 | 9293660 | 9154193 | 9279374 | 1.28 | cps |
| Rhodium | 103-2 | 4264716 | 4128754 | 4213520 | 4202330 | 1.63 | cps |
| Scandium | 45-1 | 6881668 | 6859732 | 6936502 | 6892634 | 0.57 | cps |
| Scandium | 45-2 | 179044 | 177359 | 177347 | 177916 | 0.55 | cps |
| Selenium | 82-1 | 53 | 20 | 57 | 43 | 46.79 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 30 | 43 | 53 | 42 | 27.72 | cps |
| Silicon | 28-1 | 20031157 | 19892203 | 20297791 | 20073717 | 1.03 | cps |
| Silver | 107-1 | 250 | 257 | 243 | 250 | 2.67 | cps |
| Silver | 109-1 | 177 | 150 | 110 | 146 | 23.05 | cps |
| Sodium | 23-2 | 5531226 | 5464925 | 5355713 | 5450621 | 1.63 | cps |
| Strontium | 86-1 | 1475235 | 1449586 | 1505314 | 1476712 | 1.89 | cps |
| Strontium | 88-1 | 12871525 | 12724040 | 12768563 | 12788043 | 0.59 | cps |
| Sulfur | 34-1 | 1037567 | 1048333 | 1058832 | 1048244 | 1.01 | cps |
| Terbium | 159-1 | 11215493 | 11132809 | 11272139 | 11206813 | 0.63 | cps |
| Terbium | 159-2 | 4336753 | 4346862 | 4403469 | 4362361 | 0.82 | cps |
| Thallium | 203-1 | 613 | 630 | 690 | 644 | 6.26 | cps |
| Thallium | 205-1 | 1657 | 1647 | 1540 | 1615 | 4.01 | cps |
| Tin | 118-1 | 7996 | 8216 | 8096 | 8102 | 1.36 | cps |
| Titanium | 47-1 | 887 | 827 | 847 | 853 | 3.58 | cps |
| Uranium | 238-1 | 197 | 263 | 187 | 216 | 19.34 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14LX5 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2025-04-07 13:37:11 | DataFile Name : | 032AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 6545 | 6105 | 6205 | 6285 | 3.67 | cps |
| Ytterbium | 172-1 | 53 | 70 | 73 | 66 | 16.35 | cps |
| Ytterbium | 172-2 | 30 | 27 | 20 | 26 | 19.92 | cps |
| Ytterbium | 176-1 | 1580 | 1540 | 1537 | 1552 | 1.55 | cps |
| Ytterbium | 176-2 | 387 | 343 | 323 | 351 | 9.22 | cps |
| Yttrium | 89-1 | 18190318 | 17966030 | 18232323 | 18129557 | 0.79 | cps |
| Yttrium | 89-2 | 1714570 | 1660014 | 1716638 | 1697074 | 1.89 | cps |
| Zinc | 66-2 | 3590 | 3430 | 3527 | 3516 | 2.29 | cps |
| Zirconium | 90-1 | 3107 | 3400 | 3370 | 3293 | 4.90 | cps |
| Zirconium | 91-1 | 663 | 633 | 737 | 678 | 7.84 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-15 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:40:28 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1986852 | 2020694 | 2017224 | 2008257 | 0.93 | cps |
| Antimony | 121-1 | 18497816 | 19063888 | 18760443 | 18774049 | 1.51 | cps |
| Arsenic | 75-2 | 1000 | 1107 | 997 | 1034 | 6.05 | cps |
| Barium | 135-1 | 20815964 | 21099764 | 20972376 | 20962701 | 0.68 | cps |
| Barium | 137-1 | 35625454 | 36414434 | 36132896 | 36057595 | 1.11 | cps |
| Beryllium | 9-1 | 4586108 | 4490353 | 4503032 | 4526497 | 1.15 | cps |
| Bismuth | 209-1 | 5969882 | 5891625 | 5850093 | 5903867 | 1.03 | cps |
| Bismuth | 209-2 | 2781691 | 2834773 | 2821074 | 2812513 | 0.98 | cps |
| Bromine | 81-1 | 152726 | 159277 | 163788 | 158597 | 3.51 | cps |
| Cadmium | 108-1 | 350317 | 351695 | 350178 | 350730 | 0.24 | cps |
| Cadmium | 106-1 | 519374 | 533321 | 524209 | 525635 | 1.35 | cps |
| Cadmium | 111-1 | 4765332 | 4791571 | 4777921 | 4778275 | 0.27 | cps |
| Calcium | 43-1 | 17496871 | 18034736 | 17873598 | 17801735 | 1.55 | cps |
| Calcium | 44-1 | 286618522 | 288670936 | 289794436 | 288361298 | 0.56 | cps |
| Carbon | 12-1 | 8889103 | 9418416 | 9942476 | 9416665 | 5.59 | cps |
| Carbon | 12-2 | 77057 | 79859 | 80274 | 79063 | 2.21 | cps |
| Chlorine | 35-1 | 150782008 | 160327401 | 164364128 | 158491179 | 4.40 | cps |
| Chlorine | 35-2 | 999685 | 1014048 | 1000771 | 1004835 | 0.80 | cps |
| Chromium | 52-2 | 5203566 | 5261221 | 5243661 | 5236149 | 0.56 | cps |
| Cobalt | 59-2 | 9463652 | 9408282 | 9344950 | 9405628 | 0.63 | cps |
| Copper | 63-2 | 70417587 | 70135764 | 70232969 | 70262107 | 0.20 | cps |
| Dysprosium | 156-1 | 647 | 693 | 623 | 654 | 5.45 | cps |
| Dysprosium | 156-2 | 177 | 140 | 133 | 150 | 15.55 | cps |
| Erbium | 164-1 | 347 | 290 | 320 | 319 | 8.89 | cps |
| Erbium | 164-2 | 117 | 100 | 90 | 102 | 13.18 | cps |
| Gadolinium | 160-1 | 547 | 513 | 403 | 488 | 15.38 | cps |
| Gadolinium | 160-2 | 153 | 147 | 143 | 148 | 3.45 | cps |
| Holmium | 165-1 | 10668877 | 10709925 | 10749357 | 10709387 | 0.38 | cps |
| Holmium | 165-2 | 4316113 | 4376645 | 4397056 | 4363271 | 0.96 | cps |
| Indium | 115-1 | 9284280 | 9388060 | 9394536 | 9355625 | 0.66 | cps |
| Indium | 115-2 | 1137037 | 1142489 | 1127700 | 1135742 | 0.66 | cps |
| Iron | 54-2 | 9901211 | 9804430 | 9945330 | 9883657 | 0.73 | cps |
| Iron | 56-2 | 176572517 | 177537757 | 176288444 | 176799573 | 0.37 | cps |
| Iron | 57-2 | 4417470 | 4466664 | 4479168 | 4454434 | 0.73 | cps |
| Krypton | 83-1 | 533 | 647 | 473 | 551 | 15.97 | cps |
| Lead | 206-1 | 58222699 | 58837867 | 58772827 | 58611131 | 0.58 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-15 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:40:28 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 50484584 | 50542379 | 50390206 | 50472390 | 0.15 | cps |
| Lead | 208-1 | 230901348 | 231827468 | 230253955 | 230994257 | 0.34 | cps |
| Lithium | 6-1 | 3981229 | 3942469 | 3903062 | 3942253 | 0.99 | cps |
| Magnesium | 24-2 | 32740122 | 32560335 | 32897604 | 32732687 | 0.52 | cps |
| Manganese | 55-2 | 23304150 | 23114864 | 23236735 | 23218583 | 0.41 | cps |
| Molybdenum | 94-1 | 32743333 | 33103006 | 32716381 | 32854240 | 0.66 | cps |
| Molybdenum | 95-1 | 36617904 | 36541818 | 36404420 | 36521381 | 0.30 | cps |
| Molybdenum | 96-1 | 41452862 | 41333324 | 41352419 | 41379535 | 0.16 | cps |
| Molybdenum | 97-1 | 22483536 | 22440549 | 22621418 | 22515168 | 0.42 | cps |
| Molybdenum | 98-1 | 58667024 | 59249506 | 59352266 | 59089599 | 0.63 | cps |
| Neodymium | 150-1 | 1300 | 1333 | 1377 | 1337 | 2.88 | cps |
| Neodymium | 150-2 | 47 | 53 | 77 | 59 | 26.75 | cps |
| Nickel | 60-2 | 2600367 | 2648309 | 2622668 | 2623781 | 0.91 | cps |
| Phosphorus | 31-2 | 333 | 417 | 437 | 396 | 13.86 | cps |
| Potassium | 39-2 | 21980718 | 21956714 | 21546608 | 21828013 | 1.12 | cps |
| Rhodium | 103-1 | 8930403 | 8880525 | 8874320 | 8895083 | 0.35 | cps |
| Rhodium | 103-2 | 4032926 | 4032769 | 4020919 | 4028871 | 0.17 | cps |
| Scandium | 45-1 | 7090869 | 7060498 | 6999110 | 7050159 | 0.66 | cps |
| Scandium | 45-2 | 189685 | 192168 | 189810 | 190554 | 0.73 | cps |
| Selenium | 82-1 | 297828 | 297516 | 300869 | 298738 | 0.62 | cps |
| Selenium | 77-2 | 7382 | 7515 | 7282 | 7393 | 1.58 | cps |
| Selenium | 78-2 | 24625 | 24732 | 25179 | 24845 | 1.18 | cps |
| Silicon | 28-1 | 90216489 | 92949885 | 92804519 | 91990298 | 1.67 | cps |
| Silver | 107-1 | 3776409 | 3846085 | 3784086 | 3802194 | 1.00 | cps |
| Silver | 109-1 | 3571615 | 3543465 | 3544484 | 3553188 | 0.45 | cps |
| Sodium | 23-2 | 91667815 | 90524939 | 92826449 | 91673068 | 1.26 | cps |
| Strontium | 86-1 | 14250228 | 14492401 | 14465347 | 14402659 | 0.92 | cps |
| Strontium | 88-1 | 124257271 | 124197941 | 125105481 | 124520231 | 0.41 | cps |
| Sulfur | 34-1 | 1559982 | 1585094 | 1571028 | 1572034 | 0.80 | cps |
| Terbium | 159-1 | 11003307 | 11209817 | 10933642 | 11048922 | 1.30 | cps |
| Terbium | 159-2 | 4247627 | 4315712 | 4260747 | 4274695 | 0.85 | cps |
| Thallium | 203-1 | 14041933 | 14300056 | 14329727 | 14223906 | 1.11 | cps |
| Thallium | 205-1 | 33010030 | 33634011 | 33826893 | 33490311 | 1.27 | cps |
| Tin | 118-1 | 13362783 | 13708354 | 13710786 | 13593974 | 1.47 | cps |
| Titanium | 47-1 | 11998 | 12265 | 12322 | 12195 | 1.42 | cps |
| Uranium | 238-1 | 42888870 | 42834660 | 42536666 | 42753399 | 0.44 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-15 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:40:28 | DataFile Name : | 033AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4220646 | 4302980 | 4259639 | 4261088 | 0.97 | cps |
| Ytterbium | 172-1 | 640 | 810 | 747 | 732 | 11.73 | cps |
| Ytterbium | 172-2 | 310 | 310 | 287 | 302 | 4.46 | cps |
| Ytterbium | 176-1 | 71757 | 70447 | 72873 | 71692 | 1.69 | cps |
| Ytterbium | 176-2 | 27930 | 27602 | 27632 | 27721 | 0.65 | cps |
| Yttrium | 89-1 | 18063561 | 18165104 | 18220071 | 18149578 | 0.44 | cps |
| Yttrium | 89-2 | 1728317 | 1748974 | 1737962 | 1738417 | 0.59 | cps |
| Zinc | 66-2 | 8253871 | 8314999 | 8342045 | 8303638 | 0.54 | cps |
| Zirconium | 90-1 | 33762317 | 33911545 | 34214304 | 33962722 | 0.68 | cps |
| Zirconium | 91-1 | 7434508 | 7432068 | 7540193 | 7468923 | 0.83 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-16 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:43:14 | DataFile Name : | 034AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1989637 | 2007445 | 2011669 | 2002917 | 0.58 | cps |
| Antimony | 121-1 | 18470058 | 19088162 | 18712765 | 18756995 | 1.66 | cps |
| Arsenic | 75-2 | 1007 | 1023 | 960 | 997 | 3.29 | cps |
| Barium | 135-1 | 20895523 | 21312646 | 21040660 | 21082943 | 1.00 | cps |
| Barium | 137-1 | 36005290 | 35639415 | 35395001 | 35679902 | 0.86 | cps |
| Beryllium | 9-1 | 4551619 | 4661662 | 4653453 | 4622245 | 1.33 | cps |
| Bismuth | 209-1 | 5898270 | 5759465 | 5776566 | 5811434 | 1.30 | cps |
| Bismuth | 209-2 | 2834241 | 2833847 | 2830141 | 2832743 | 0.08 | cps |
| Bromine | 81-1 | 150862 | 158359 | 163255 | 157492 | 3.96 | cps |
| Cadmium | 108-1 | 354396 | 353151 | 348564 | 352037 | 0.87 | cps |
| Cadmium | 106-1 | 530679 | 525928 | 529324 | 528644 | 0.46 | cps |
| Cadmium | 111-1 | 4759757 | 4758309 | 4731531 | 4749866 | 0.33 | cps |
| Calcium | 43-1 | 18048356 | 17985917 | 18081237 | 18038503 | 0.27 | cps |
| Calcium | 44-1 | 289464049 | 291659929 | 296788676 | 292637551 | 1.28 | cps |
| Carbon | 12-1 | 9489307 | 10099190 | 10312531 | 9967010 | 4.29 | cps |
| Carbon | 12-2 | 80988 | 81012 | 81163 | 81054 | 0.12 | cps |
| Chlorine | 35-1 | 161743341 | 169194224 | 172224431 | 167720665 | 3.22 | cps |
| Chlorine | 35-2 | 1015791 | 1014511 | 1007654 | 1012652 | 0.43 | cps |
| Chromium | 52-2 | 5352709 | 5293950 | 5265107 | 5303922 | 0.84 | cps |
| Cobalt | 59-2 | 9531162 | 9358198 | 9311368 | 9400243 | 1.23 | cps |
| Copper | 63-2 | 72022879 | 69200334 | 70129032 | 70450748 | 2.04 | cps |
| Dysprosium | 156-1 | 583 | 583 | 670 | 612 | 8.17 | cps |
| Dysprosium | 156-2 | 147 | 140 | 147 | 144 | 2.67 | cps |
| Erbium | 164-1 | 277 | 337 | 323 | 312 | 10.09 | cps |
| Erbium | 164-2 | 120 | 163 | 97 | 127 | 26.71 | cps |
| Gadolinium | 160-1 | 393 | 393 | 367 | 384 | 4.00 | cps |
| Gadolinium | 160-2 | 187 | 187 | 160 | 178 | 8.66 | cps |
| Holmium | 165-1 | 10775290 | 10783886 | 10827726 | 10795634 | 0.26 | cps |
| Holmium | 165-2 | 4423987 | 4370087 | 4338593 | 4377556 | 0.99 | cps |
| Indium | 115-1 | 9480323 | 9283614 | 9244129 | 9336022 | 1.36 | cps |
| Indium | 115-2 | 1130028 | 1122308 | 1128147 | 1126827 | 0.36 | cps |
| Iron | 54-2 | 10149288 | 9902795 | 9797964 | 9950016 | 1.81 | cps |
| Iron | 56-2 | 178175637 | 178913984 | 177528124 | 178205915 | 0.39 | cps |
| Iron | 57-2 | 4511369 | 4557281 | 4523648 | 4530766 | 0.52 | cps |
| Krypton | 83-1 | 570 | 533 | 503 | 536 | 6.23 | cps |
| Lead | 206-1 | 58801104 | 58789669 | 58414269 | 58668347 | 0.38 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-16 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:43:14 | DataFile Name : | 034AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 50754049 | 50955366 | 49756843 | 50488753 | 1.27 | cps |
| Lead | 208-1 | 231551892 | 231833547 | 229416457 | 230933965 | 0.57 | cps |
| Lithium | 6-1 | 3948437 | 3893713 | 3989836 | 3943995 | 1.22 | cps |
| Magnesium | 24-2 | 33215085 | 32829805 | 33367975 | 33137621 | 0.84 | cps |
| Manganese | 55-2 | 23779991 | 23312049 | 23219183 | 23437074 | 1.28 | cps |
| Molybdenum | 94-1 | 33017978 | 33387082 | 33228999 | 33211353 | 0.56 | cps |
| Molybdenum | 95-1 | 37023285 | 37171146 | 37358433 | 37184288 | 0.45 | cps |
| Molybdenum | 96-1 | 41857488 | 42249274 | 42396663 | 42167808 | 0.66 | cps |
| Molybdenum | 97-1 | 22908883 | 22868788 | 23085769 | 22954480 | 0.50 | cps |
| Molybdenum | 98-1 | 59374261 | 58864482 | 60701666 | 59646803 | 1.59 | cps |
| Neodymium | 150-1 | 1353 | 1340 | 1373 | 1356 | 1.24 | cps |
| Neodymium | 150-2 | 63 | 47 | 90 | 67 | 32.79 | cps |
| Nickel | 60-2 | 2655385 | 2675784 | 2635004 | 2655391 | 0.77 | cps |
| Phosphorus | 31-2 | 373 | 417 | 397 | 396 | 5.48 | cps |
| Potassium | 39-2 | 22450621 | 21923169 | 21925186 | 22099659 | 1.38 | cps |
| Rhodium | 103-1 | 8881150 | 8752041 | 8936381 | 8856524 | 1.07 | cps |
| Rhodium | 103-2 | 4057080 | 3942804 | 4067302 | 4022395 | 1.72 | cps |
| Scandium | 45-1 | 7264745 | 7274640 | 7201393 | 7246926 | 0.55 | cps |
| Scandium | 45-2 | 193129 | 190079 | 190979 | 191396 | 0.82 | cps |
| Selenium | 82-1 | 305481 | 302849 | 301133 | 303154 | 0.72 | cps |
| Selenium | 77-2 | 7559 | 7435 | 7619 | 7538 | 1.24 | cps |
| Selenium | 78-2 | 25136 | 25206 | 24765 | 25036 | 0.95 | cps |
| Silicon | 28-1 | 95087179 | 94515322 | 94212392 | 94604964 | 0.47 | cps |
| Silver | 107-1 | 3725652 | 3810900 | 3756651 | 3764401 | 1.15 | cps |
| Silver | 109-1 | 3563221 | 3570487 | 3509669 | 3547792 | 0.94 | cps |
| Sodium | 23-2 | 93675885 | 94928772 | 93225732 | 93943463 | 0.94 | cps |
| Strontium | 86-1 | 14493414 | 14372327 | 14479215 | 14448319 | 0.46 | cps |
| Strontium | 88-1 | 126518265 | 126126105 | 125556728 | 126067033 | 0.38 | cps |
| Sulfur | 34-1 | 1555431 | 1543579 | 1566198 | 1555069 | 0.73 | cps |
| Terbium | 159-1 | 11092301 | 10979644 | 11200752 | 11090899 | 1.00 | cps |
| Terbium | 159-2 | 4273521 | 4267609 | 4309946 | 4283692 | 0.54 | cps |
| Thallium | 203-1 | 14368272 | 14443269 | 14527297 | 14446280 | 0.55 | cps |
| Thallium | 205-1 | 33498125 | 33753593 | 34265328 | 33839015 | 1.15 | cps |
| Tin | 118-1 | 13662798 | 14045941 | 13563698 | 13757479 | 1.85 | cps |
| Titanium | 47-1 | 12812 | 13476 | 12836 | 13042 | 2.89 | cps |
| Uranium | 238-1 | 42922849 | 42276266 | 42087228 | 42428781 | 1.03 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-16 | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225MSD | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:43:14 | DataFile Name : | 034AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4286510 | 4264981 | 4257992 | 4269828 | 0.35 | cps |
| Ytterbium | 172-1 | 667 | 710 | 680 | 686 | 3.24 | cps |
| Ytterbium | 172-2 | 283 | 347 | 303 | 311 | 10.41 | cps |
| Ytterbium | 176-1 | 71764 | 70390 | 70765 | 70973 | 1.00 | cps |
| Ytterbium | 176-2 | 27485 | 28411 | 27803 | 27900 | 1.69 | cps |
| Yttrium | 89-1 | 18378274 | 17945569 | 18094349 | 18139397 | 1.21 | cps |
| Yttrium | 89-2 | 1727137 | 1725683 | 1749938 | 1734253 | 0.78 | cps |
| Zinc | 66-2 | 8307858 | 8281451 | 8332869 | 8307393 | 0.31 | cps |
| Zirconium | 90-1 | 34023359 | 34425291 | 34507094 | 34318581 | 0.75 | cps |
| Zirconium | 91-1 | 7540483 | 7639188 | 7588051 | 7589241 | 0.65 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:58:04 | DataFile Name : | 036CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9020846 | 9198407 | 8961919 | 9060391 | 1.36 | cps |
| Antimony | 121-1 | 17042181 | 16875762 | 16748580 | 16888841 | 0.87 | cps |
| Arsenic | 75-2 | 469935 | 464556 | 468916 | 467803 | 0.61 | cps |
| Barium | 135-1 | 20483958 | 20190692 | 20413523 | 20362724 | 0.75 | cps |
| Barium | 137-1 | 34759026 | 34370095 | 35114438 | 34747853 | 1.07 | cps |
| Beryllium | 9-1 | 4224690 | 4249223 | 4221433 | 4231782 | 0.36 | cps |
| Bismuth | 209-1 | 5108551 | 5093228 | 5106518 | 5102765 | 0.16 | cps |
| Bismuth | 209-2 | 2470597 | 2525115 | 2619111 | 2538274 | 2.96 | cps |
| Bromine | 81-1 | 33420 | 34282 | 34005 | 33902 | 1.30 | cps |
| Cadmium | 108-1 | 333026 | 335404 | 331480 | 333303 | 0.59 | cps |
| Cadmium | 106-1 | 479720 | 478663 | 476165 | 478183 | 0.38 | cps |
| Cadmium | 111-1 | 4297110 | 4187046 | 4308385 | 4264180 | 1.57 | cps |
| Calcium | 43-1 | 30036798 | 29552334 | 29764583 | 29784572 | 0.82 | cps |
| Calcium | 44-1 | 491848406 | 491766913 | 490183339 | 491266219 | 0.19 | cps |
| Carbon | 12-1 | 6856988 | 6920858 | 7137635 | 6971827 | 2.11 | cps |
| Carbon | 12-2 | 63419 | 64644 | 64708 | 64257 | 1.13 | cps |
| Chlorine | 35-1 | 856126 | 847862 | 840565 | 848184 | 0.92 | cps |
| Chlorine | 35-2 | 5161 | 4791 | 4811 | 4921 | 4.23 | cps |
| Chromium | 52-2 | 5100687 | 5112296 | 5053334 | 5088772 | 0.61 | cps |
| Cobalt | 59-2 | 8496765 | 8520635 | 8567513 | 8528304 | 0.42 | cps |
| Copper | 63-2 | 74365156 | 73017677 | 73854872 | 73745902 | 0.92 | cps |
| Dysprosium | 156-1 | 910 | 913 | 817 | 880 | 6.24 | cps |
| Dysprosium | 156-2 | 257 | 263 | 257 | 259 | 1.49 | cps |
| Erbium | 164-1 | 867 | 770 | 883 | 840 | 7.29 | cps |
| Erbium | 164-2 | 300 | 297 | 310 | 302 | 2.30 | cps |
| Gadolinium | 160-1 | 730 | 710 | 630 | 690 | 7.67 | cps |
| Gadolinium | 160-2 | 293 | 243 | 320 | 286 | 13.63 | cps |
| Holmium | 165-1 | 9557233 | 9532751 | 9556682 | 9548889 | 0.15 | cps |
| Holmium | 165-2 | 4025111 | 4118670 | 4282661 | 4142147 | 3.15 | cps |
| Indium | 115-1 | 8225714 | 8090538 | 8053026 | 8123093 | 1.12 | cps |
| Indium | 115-2 | 1006912 | 1037015 | 1084440 | 1042789 | 3.75 | cps |
| Iron | 54-2 | 49378606 | 49700293 | 49311903 | 49463600 | 0.42 | cps |
| Iron | 56-2 | 900747960 | 912673400 | 925657400 | 913026253 | 1.36 | cps |
| Iron | 57-2 | 22515231 | 22721681 | 23051530 | 22762814 | 1.19 | cps |
| Krypton | 83-1 | 583 | 507 | 480 | 523 | 10.25 | cps |
| Lead | 206-1 | 53057033 | 52484846 | 52478666 | 52673515 | 0.63 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:58:04 | DataFile Name : | 036CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 44441889 | 44598241 | 44454456 | 44498195 | 0.20 | cps |
| Lead | 208-1 | 207091100 | 204284509 | 206694517 | 206023375 | 0.74 | cps |
| Lithium | 6-1 | 3322346 | 3450792 | 3337464 | 3370201 | 2.08 | cps |
| Magnesium | 24-2 | 149708851 | 150533441 | 150515984 | 150252759 | 0.31 | cps |
| Manganese | 55-2 | 23852082 | 24131387 | 24144580 | 24042683 | 0.69 | cps |
| Molybdenum | 94-1 | 63726987 | 62252157 | 63058677 | 63012607 | 1.17 | cps |
| Molybdenum | 95-1 | 91534382 | 90280412 | 92058172 | 91290989 | 1.00 | cps |
| Molybdenum | 96-1 | 100293399 | 101136022 | 100425279 | 100618233 | 0.45 | cps |
| Molybdenum | 97-1 | 56914737 | 57000757 | 56245414 | 56720303 | 0.73 | cps |
| Molybdenum | 98-1 | 146651141 | 145288421 | 147440478 | 146460013 | 0.74 | cps |
| Neodymium | 150-1 | 1630 | 1697 | 1697 | 1675 | 2.30 | cps |
| Neodymium | 150-2 | 157 | 147 | 110 | 138 | 17.83 | cps |
| Nickel | 60-2 | 2361642 | 2334410 | 2438910 | 2378321 | 2.28 | cps |
| Phosphorus | 31-2 | 95851 | 96531 | 95558 | 95980 | 0.52 | cps |
| Potassium | 39-2 | 57622322 | 57465682 | 57184927 | 57424311 | 0.39 | cps |
| Rhodium | 103-1 | 7693414 | 7710619 | 7465956 | 7623330 | 1.79 | cps |
| Rhodium | 103-2 | 3443257 | 3546978 | 3569347 | 3519861 | 1.91 | cps |
| Scandium | 45-1 | 6167189 | 6226514 | 6286442 | 6226715 | 0.96 | cps |
| Scandium | 45-2 | 172272 | 175001 | 183438 | 176904 | 3.29 | cps |
| Selenium | 82-1 | 265059 | 263310 | 264185 | 264185 | 0.33 | cps |
| Selenium | 77-2 | 6798 | 6852 | 6872 | 6841 | 0.55 | cps |
| Selenium | 78-2 | 23296 | 23052 | 22802 | 23050 | 1.07 | cps |
| Silicon | 28-1 | 82862374 | 82416769 | 81629000 | 82302714 | 0.76 | cps |
| Silver | 107-1 | 21099127 | 20968531 | 21196347 | 21088002 | 0.54 | cps |
| Silver | 109-1 | 20063664 | 20021146 | 19938405 | 20007738 | 0.32 | cps |
| Sodium | 23-2 | 320872815 | 318618689 | 321597869 | 320363124 | 0.48 | cps |
| Strontium | 86-1 | 5974241 | 6027120 | 6006759 | 6002707 | 0.44 | cps |
| Strontium | 88-1 | 52229848 | 52660693 | 52529091 | 52473210 | 0.42 | cps |
| Sulfur | 34-1 | 2345201 | 2323223 | 2307523 | 2325316 | 0.81 | cps |
| Terbium | 159-1 | 9867163 | 10143955 | 9985658 | 9998925 | 1.39 | cps |
| Terbium | 159-2 | 3913094 | 4021235 | 4145015 | 4026448 | 2.88 | cps |
| Thallium | 203-1 | 13336051 | 13455437 | 13096027 | 13295839 | 1.38 | cps |
| Thallium | 205-1 | 31792974 | 31847792 | 31598473 | 31746413 | 0.41 | cps |
| Tin | 118-1 | 13716128 | 13714158 | 13410824 | 13613703 | 1.29 | cps |
| Titanium | 47-1 | 26955440 | 27119610 | 26999428 | 27024826 | 0.31 | cps |
| Uranium | 238-1 | 39398960 | 39209904 | 39376145 | 39328336 | 0.26 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 13:58:04 | DataFile Name : | 036CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3959443 | 3980750 | 3919084 | 3953092 | 0.79 | cps |
| Ytterbium | 172-1 | 997 | 1133 | 1163 | 1098 | 8.09 | cps |
| Ytterbium | 172-2 | 560 | 483 | 530 | 524 | 7.37 | cps |
| Ytterbium | 176-1 | 69465 | 67970 | 67612 | 68349 | 1.44 | cps |
| Ytterbium | 176-2 | 27338 | 26657 | 27181 | 27059 | 1.32 | cps |
| Yttrium | 89-1 | 16381047 | 16394353 | 16191972 | 16322457 | 0.69 | cps |
| Yttrium | 89-2 | 1600685 | 1604286 | 1714062 | 1639678 | 3.93 | cps |
| Zinc | 66-2 | 8669924 | 8454162 | 8738143 | 8620743 | 1.72 | cps |
| Zirconium | 90-1 | 32518402 | 31889599 | 32075800 | 32161267 | 1.00 | cps |
| Zirconium | 91-1 | 7289027 | 7096433 | 7295119 | 7226860 | 1.56 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:05:27 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 413 | 497 | 497 | 469 | 10.26 | cps |
| Antimony | 121-1 | 1170 | 1170 | 960 | 1100 | 11.02 | cps |
| Arsenic | 75-2 | 23 | 13 | 27 | 21 | 32.88 | cps |
| Barium | 135-1 | 417 | 520 | 370 | 436 | 17.62 | cps |
| Barium | 137-1 | 730 | 703 | 693 | 709 | 2.67 | cps |
| Beryllium | 9-1 | 290 | 319 | 336 | 315 | 7.40 | cps |
| Bismuth | 209-1 | 6196052 | 6148774 | 6143594 | 6162807 | 0.47 | cps |
| Bismuth | 209-2 | 2942615 | 2977464 | 2912062 | 2944047 | 1.11 | cps |
| Bromine | 81-1 | 34258 | 34569 | 34713 | 34514 | 0.67 | cps |
| Cadmium | 108-1 | 27 | 33 | 33 | 31 | 12.36 | cps |
| Cadmium | 106-1 | 6478 | 6485 | 6532 | 6498 | 0.45 | cps |
| Cadmium | 111-1 | 4673 | 4643 | 4669 | 4661 | 0.35 | cps |
| Calcium | 43-1 | 3921 | 4224 | 4157 | 4101 | 3.89 | cps |
| Calcium | 44-1 | 91945 | 91847 | 90354 | 91382 | 0.98 | cps |
| Carbon | 12-1 | 5209217 | 5082022 | 5015253 | 5102164 | 1.93 | cps |
| Carbon | 12-2 | 35981 | 35429 | 35743 | 35718 | 0.77 | cps |
| Chlorine | 35-1 | 536311 | 535794 | 535879 | 535994 | 0.05 | cps |
| Chlorine | 35-2 | 3200 | 2837 | 2930 | 2989 | 6.31 | cps |
| Chromium | 52-2 | 12949 | 12799 | 13713 | 13154 | 3.73 | cps |
| Cobalt | 59-2 | 413 | 320 | 457 | 397 | 17.61 | cps |
| Copper | 63-2 | 4374 | 4394 | 4247 | 4338 | 1.83 | cps |
| Dysprosium | 156-1 | 10 | 10 | 17 | 12 | 31.50 | cps |
| Dysprosium | 156-2 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 77 | 83 | 77 | 79 | 4.87 | cps |
| Erbium | 164-2 | 27 | 27 | 20 | 24 | 15.75 | cps |
| Gadolinium | 160-1 | 110 | 103 | 93 | 102 | 8.21 | cps |
| Gadolinium | 160-2 | 27 | 27 | 23 | 26 | 7.55 | cps |
| Holmium | 165-1 | 10384662 | 10583402 | 10493610 | 10487225 | 0.95 | cps |
| Holmium | 165-2 | 4299858 | 4245552 | 4229315 | 4258241 | 0.87 | cps |
| Indium | 115-1 | 9580671 | 9759061 | 9691086 | 9676939 | 0.93 | cps |
| Indium | 115-2 | 1186294 | 1191998 | 1188173 | 1188822 | 0.24 | cps |
| Iron | 54-2 | 3927 | 4017 | 4021 | 3988 | 1.33 | cps |
| Iron | 56-2 | 60705 | 59728 | 58747 | 59727 | 1.64 | cps |
| Iron | 57-2 | 1363 | 1633 | 1433 | 1477 | 9.49 | cps |
| Krypton | 83-1 | 433 | 437 | 460 | 443 | 3.28 | cps |
| Lead | 206-1 | 3761 | 3741 | 3597 | 3699 | 2.41 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:05:27 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3160 | 3100 | 3197 | 3153 | 1.55 | cps |
| Lead | 208-1 | 14547 | 14327 | 13853 | 14242 | 2.49 | cps |
| Lithium | 6-1 | 3680547 | 3754927 | 3747092 | 3727522 | 1.10 | cps |
| Magnesium | 24-2 | 1593 | 1643 | 1803 | 1680 | 6.53 | cps |
| Manganese | 55-2 | 1953 | 2064 | 1987 | 2001 | 2.82 | cps |
| Molybdenum | 94-1 | 1767 | 1663 | 1697 | 1709 | 3.09 | cps |
| Molybdenum | 95-1 | 1957 | 1800 | 1813 | 1857 | 4.68 | cps |
| Molybdenum | 96-1 | 2310 | 1970 | 2054 | 2111 | 8.40 | cps |
| Molybdenum | 97-1 | 1210 | 1143 | 1040 | 1131 | 7.57 | cps |
| Molybdenum | 98-1 | 3040 | 2844 | 2847 | 2910 | 3.87 | cps |
| Neodymium | 150-1 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Neodymium | 150-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 3340 | 3494 | 3270 | 3368 | 3.39 | cps |
| Phosphorus | 31-2 | 190 | 207 | 233 | 210 | 10.41 | cps |
| Potassium | 39-2 | 37572 | 38241 | 37940 | 37918 | 0.88 | cps |
| Rhodium | 103-1 | 9245589 | 9254609 | 9257876 | 9252691 | 0.07 | cps |
| Rhodium | 103-2 | 4193795 | 4108311 | 4129804 | 4143970 | 1.07 | cps |
| Scandium | 45-1 | 6856896 | 6765811 | 6823859 | 6815522 | 0.68 | cps |
| Scandium | 45-2 | 172594 | 172843 | 171894 | 172444 | 0.29 | cps |
| Selenium | 82-1 | 70 | -10 | -43 | 6 | 1047.66 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 63 | 70 | 40 | 58 | 27.26 | cps |
| Silicon | 28-1 | 616682 | 620545 | 607995 | 615074 | 1.05 | cps |
| Silver | 107-1 | 797 | 760 | 750 | 769 | 3.20 | cps |
| Silver | 109-1 | 657 | 727 | 573 | 652 | 11.77 | cps |
| Sodium | 23-2 | 104386 | 102795 | 103695 | 103625 | 0.77 | cps |
| Strontium | 86-1 | 957 | 850 | 867 | 891 | 6.44 | cps |
| Strontium | 88-1 | 2450 | 2364 | 2520 | 2445 | 3.21 | cps |
| Sulfur | 34-1 | 772806 | 781853 | 784403 | 779687 | 0.78 | cps |
| Terbium | 159-1 | 10853732 | 10947567 | 11097976 | 10966425 | 1.12 | cps |
| Terbium | 159-2 | 4213812 | 4188739 | 4212462 | 4205004 | 0.34 | cps |
| Thallium | 203-1 | 1187 | 1110 | 1050 | 1116 | 6.14 | cps |
| Thallium | 205-1 | 2737 | 2554 | 2464 | 2585 | 5.39 | cps |
| Tin | 118-1 | 4617 | 4451 | 4511 | 4526 | 1.87 | cps |
| Titanium | 47-1 | 3503 | 720 | 750 | 1658 | 96.41 | cps |
| Uranium | 238-1 | 757 | 673 | 687 | 706 | 6.34 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:05:27 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 110 | 150 | 100 | 120 | 22.05 | cps |
| Ytterbium | 172-1 | 73 | 77 | 53 | 68 | 18.62 | cps |
| Ytterbium | 172-2 | 27 | 33 | 17 | 26 | 32.81 | cps |
| Ytterbium | 176-1 | 1400 | 1500 | 1407 | 1436 | 3.90 | cps |
| Ytterbium | 176-2 | 357 | 393 | 383 | 378 | 5.02 | cps |
| Yttrium | 89-1 | 17799833 | 17790178 | 17681496 | 17757169 | 0.37 | cps |
| Yttrium | 89-2 | 1680937 | 1672528 | 1661458 | 1671641 | 0.58 | cps |
| Zinc | 66-2 | 3924 | 3927 | 3837 | 3896 | 1.31 | cps |
| Zirconium | 90-1 | 1653 | 1620 | 1600 | 1625 | 1.66 | cps |
| Zirconium | 91-1 | 380 | 317 | 277 | 324 | 16.06 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14A | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:08:49 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1961511 | 1962628 | 1915618 | 1946586 | 1.38 | cps |
| Antimony | 121-1 | 17913991 | 17965561 | 18073888 | 17984480 | 0.45 | cps |
| Arsenic | 75-2 | 987 | 1093 | 977 | 1019 | 6.35 | cps |
| Barium | 135-1 | 19750802 | 20033760 | 20312953 | 20032505 | 1.40 | cps |
| Barium | 137-1 | 34401569 | 33712415 | 34435888 | 34183291 | 1.19 | cps |
| Beryllium | 9-1 | 4280824 | 4327461 | 4366179 | 4324822 | 0.99 | cps |
| Bismuth | 209-1 | 5768201 | 5653631 | 5658731 | 5693521 | 1.14 | cps |
| Bismuth | 209-2 | 2717136 | 2753306 | 2667325 | 2712589 | 1.59 | cps |
| Bromine | 81-1 | 143024 | 149635 | 154784 | 149148 | 3.95 | cps |
| Cadmium | 108-1 | 331070 | 326886 | 330870 | 329609 | 0.72 | cps |
| Cadmium | 106-1 | 500410 | 498544 | 511748 | 503568 | 1.42 | cps |
| Cadmium | 111-1 | 4492700 | 4528754 | 4493143 | 4504866 | 0.46 | cps |
| Calcium | 43-1 | 17082599 | 16997001 | 17175013 | 17084871 | 0.52 | cps |
| Calcium | 44-1 | 277467316 | 273801956 | 280435429 | 277234900 | 1.20 | cps |
| Carbon | 12-1 | 8724848 | 9345973 | 9793138 | 9287986 | 5.78 | cps |
| Carbon | 12-2 | 76994 | 77657 | 78505 | 77718 | 0.97 | cps |
| Chlorine | 35-1 | 140990858 | 149456121 | 153194518 | 147880499 | 4.23 | cps |
| Chlorine | 35-2 | 947010 | 947356 | 951489 | 948618 | 0.26 | cps |
| Chromium | 52-2 | 5168770 | 5124666 | 5116445 | 5136627 | 0.55 | cps |
| Cobalt | 59-2 | 9113033 | 9117823 | 9022066 | 9084307 | 0.59 | cps |
| Copper | 63-2 | 68487117 | 67270026 | 67838372 | 67865172 | 0.90 | cps |
| Dysprosium | 156-1 | 620 | 590 | 620 | 610 | 2.84 | cps |
| Dysprosium | 156-2 | 130 | 130 | 153 | 138 | 9.78 | cps |
| Erbium | 164-1 | 337 | 277 | 280 | 298 | 11.32 | cps |
| Erbium | 164-2 | 113 | 110 | 120 | 114 | 4.45 | cps |
| Gadolinium | 160-1 | 380 | 377 | 393 | 383 | 2.30 | cps |
| Gadolinium | 160-2 | 183 | 160 | 177 | 173 | 6.94 | cps |
| Holmium | 165-1 | 10393827 | 10373293 | 9981820 | 10249647 | 2.27 | cps |
| Holmium | 165-2 | 4213928 | 4228428 | 4229241 | 4223866 | 0.20 | cps |
| Indium | 115-1 | 8865901 | 8858641 | 8789728 | 8838090 | 0.48 | cps |
| Indium | 115-2 | 1090739 | 1087349 | 1078906 | 1085665 | 0.56 | cps |
| Iron | 54-2 | 9594703 | 9459952 | 9550029 | 9534895 | 0.72 | cps |
| Iron | 56-2 | 173031111 | 172722844 | 171454577 | 172402844 | 0.48 | cps |
| Iron | 57-2 | 4397225 | 4302843 | 4264688 | 4321585 | 1.58 | cps |
| Krypton | 83-1 | 470 | 493 | 433 | 466 | 6.50 | cps |
| Lead | 206-1 | 56670281 | 55100004 | 55662741 | 55811009 | 1.43 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14A | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:08:49 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 48708449 | 47547558 | 48024941 | 48093649 | 1.21 | cps |
| Lead | 208-1 | 222777642 | 218375067 | 220474877 | 220542528 | 1.00 | cps |
| Lithium | 6-1 | 3733967 | 3715332 | 3703010 | 3717436 | 0.42 | cps |
| Magnesium | 24-2 | 31411349 | 31514691 | 31450755 | 31458931 | 0.17 | cps |
| Manganese | 55-2 | 22757322 | 22564341 | 22443260 | 22588307 | 0.70 | cps |
| Molybdenum | 94-1 | 31985157 | 31582097 | 31573296 | 31713517 | 0.74 | cps |
| Molybdenum | 95-1 | 35472665 | 35066434 | 35428709 | 35322603 | 0.63 | cps |
| Molybdenum | 96-1 | 39729664 | 39903239 | 39753450 | 39795451 | 0.24 | cps |
| Molybdenum | 97-1 | 21691105 | 21778557 | 21857411 | 21775691 | 0.38 | cps |
| Molybdenum | 98-1 | 56361622 | 56855306 | 57237776 | 56818235 | 0.77 | cps |
| Neodymium | 150-1 | 1290 | 1333 | 1180 | 1268 | 6.24 | cps |
| Neodymium | 150-2 | 67 | 117 | 47 | 77 | 47.03 | cps |
| Nickel | 60-2 | 2598498 | 2563619 | 2537805 | 2566641 | 1.19 | cps |
| Phosphorus | 31-2 | 353 | 337 | 390 | 360 | 7.58 | cps |
| Potassium | 39-2 | 21313689 | 21197352 | 21571478 | 21360840 | 0.90 | cps |
| Rhodium | 103-1 | 8762747 | 8599940 | 8587531 | 8650073 | 1.13 | cps |
| Rhodium | 103-2 | 3888703 | 3801242 | 3744795 | 3811580 | 1.90 | cps |
| Scandium | 45-1 | 7016864 | 6895534 | 6846371 | 6919590 | 1.27 | cps |
| Scandium | 45-2 | 184869 | 185318 | 183783 | 184657 | 0.43 | cps |
| Selenium | 82-1 | 288487 | 289198 | 288316 | 288667 | 0.16 | cps |
| Selenium | 77-2 | 7275 | 7179 | 7189 | 7214 | 0.74 | cps |
| Selenium | 78-2 | 24789 | 24241 | 24224 | 24418 | 1.32 | cps |
| Silicon | 28-1 | 90250902 | 92307059 | 91207742 | 91255234 | 1.13 | cps |
| Silver | 107-1 | 3565628 | 3615746 | 3730075 | 3637150 | 2.32 | cps |
| Silver | 109-1 | 3358990 | 3405223 | 3370389 | 3378201 | 0.71 | cps |
| Sodium | 23-2 | 89572579 | 89962472 | 88760289 | 89431780 | 0.69 | cps |
| Strontium | 86-1 | 13797867 | 14009715 | 13886204 | 13897929 | 0.77 | cps |
| Strontium | 88-1 | 121069978 | 122854908 | 121788792 | 121904559 | 0.74 | cps |
| Sulfur | 34-1 | 1516636 | 1492331 | 1497409 | 1502126 | 0.85 | cps |
| Terbium | 159-1 | 10698753 | 10630775 | 10716179 | 10681903 | 0.42 | cps |
| Terbium | 159-2 | 4185728 | 4156402 | 4057331 | 4133154 | 1.63 | cps |
| Thallium | 203-1 | 13594175 | 13496249 | 13591986 | 13560803 | 0.41 | cps |
| Thallium | 205-1 | 31711966 | 31900125 | 32231211 | 31947767 | 0.82 | cps |
| Tin | 118-1 | 12943542 | 13038348 | 13017779 | 12999890 | 0.38 | cps |
| Titanium | 47-1 | 11728 | 12155 | 12185 | 12023 | 2.13 | cps |
| Uranium | 238-1 | 40562089 | 40080706 | 41257282 | 40633359 | 1.46 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1711-14A | Instrumnet Name : | P8 |
| Client Sample ID : | MW-18B-56-040225A | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:08:49 | DataFile Name : | 038AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 4136145 | 4121381 | 4182320 | 4146615 | 0.77 | cps |
| Ytterbium | 172-1 | 683 | 640 | 600 | 641 | 6.50 | cps |
| Ytterbium | 172-2 | 310 | 250 | 300 | 287 | 11.22 | cps |
| Ytterbium | 176-1 | 67511 | 68593 | 66526 | 67544 | 1.53 | cps |
| Ytterbium | 176-2 | 27048 | 26794 | 27225 | 27022 | 0.80 | cps |
| Yttrium | 89-1 | 17763961 | 17799816 | 17566318 | 17710032 | 0.71 | cps |
| Yttrium | 89-2 | 1703205 | 1654209 | 1658404 | 1671939 | 1.62 | cps |
| Zinc | 66-2 | 8025550 | 8066930 | 8054010 | 8048830 | 0.26 | cps |
| Zirconium | 90-1 | 32934066 | 32926270 | 33171894 | 33010743 | 0.42 | cps |
| Zirconium | 91-1 | 7368101 | 7315752 | 7225966 | 7303273 | 0.98 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-05 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:11:39 | DataFile Name : | 039AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 947 | 850 | 927 | 908 | 5.62 | cps |
| Antimony | 121-1 | 1150 | 960 | 960 | 1023 | 10.72 | cps |
| Arsenic | 75-2 | 3 | 3 | 23 | 10 | 115.51 | cps |
| Barium | 135-1 | 1293 | 1107 | 1013 | 1138 | 12.53 | cps |
| Barium | 137-1 | 2047 | 1877 | 1933 | 1952 | 4.43 | cps |
| Beryllium | 9-1 | 543 | 510 | 482 | 512 | 6.01 | cps |
| Bismuth | 209-1 | 6110661 | 6187062 | 6100928 | 6132884 | 0.77 | cps |
| Bismuth | 209-2 | 2994298 | 2971019 | 3023845 | 2996387 | 0.88 | cps |
| Bromine | 81-1 | 42738 | 41000 | 40214 | 41318 | 3.13 | cps |
| Cadmium | 108-1 | 40 | 47 | 43 | 43 | 7.70 | cps |
| Cadmium | 106-1 | 6685 | 6488 | 6398 | 6524 | 2.25 | cps |
| Cadmium | 111-1 | 4958 | 4716 | 4618 | 4764 | 3.67 | cps |
| Calcium | 43-1 | 4407 | 4231 | 4141 | 4260 | 3.19 | cps |
| Calcium | 44-1 | 96876 | 94457 | 94373 | 95236 | 1.49 | cps |
| Carbon | 12-1 | 8365538 | 8931581 | 9243696 | 8846939 | 5.03 | cps |
| Carbon | 12-2 | 69390 | 69175 | 70974 | 69846 | 1.41 | cps |
| Chlorine | 35-1 | 4401278 | 3926061 | 3491791 | 3939710 | 11.55 | cps |
| Chlorine | 35-2 | 16827 | 15599 | 14738 | 15721 | 6.68 | cps |
| Chromium | 52-2 | 2430 | 2364 | 2440 | 2411 | 1.73 | cps |
| Cobalt | 59-2 | 190 | 247 | 217 | 218 | 13.02 | cps |
| Copper | 63-2 | 5378 | 5021 | 5314 | 5238 | 3.63 | cps |
| Dysprosium | 156-1 | 50 | 47 | 10 | 36 | 62.42 | cps |
| Dysprosium | 156-2 | 0 | 10 | 7 | 6 | 91.64 | cps |
| Erbium | 164-1 | 67 | 97 | 90 | 84 | 18.65 | cps |
| Erbium | 164-2 | 37 | 37 | 50 | 41 | 18.72 | cps |
| Gadolinium | 160-1 | 137 | 113 | 123 | 124 | 9.41 | cps |
| Gadolinium | 160-2 | 30 | 23 | 20 | 24 | 20.83 | cps |
| Holmium | 165-1 | 10554199 | 10551499 | 10660374 | 10588691 | 0.59 | cps |
| Holmium | 165-2 | 4347367 | 4242356 | 4303368 | 4297697 | 1.23 | cps |
| Indium | 115-1 | 9804223 | 9922925 | 9639806 | 9788985 | 1.45 | cps |
| Indium | 115-2 | 1191021 | 1191707 | 1190366 | 1191031 | 0.06 | cps |
| Iron | 54-2 | 2740 | 2600 | 2857 | 2733 | 4.70 | cps |
| Iron | 56-2 | 40945 | 41477 | 41343 | 41255 | 0.67 | cps |
| Iron | 57-2 | 1083 | 1027 | 1027 | 1046 | 3.13 | cps |
| Krypton | 83-1 | 430 | 377 | 483 | 430 | 12.40 | cps |
| Lead | 206-1 | 8073 | 7172 | 6715 | 7320 | 9.44 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-05 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:11:39 | DataFile Name : | 039AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 6688 | 6101 | 5581 | 6124 | 9.05 | cps |
| Lead | 208-1 | 31582 | 27919 | 26000 | 28500 | 9.95 | cps |
| Lithium | 6-1 | 3877218 | 3892033 | 3758193 | 3842481 | 1.91 | cps |
| Magnesium | 24-2 | 2357 | 2244 | 2030 | 2210 | 7.51 | cps |
| Manganese | 55-2 | 5264 | 5354 | 5451 | 5357 | 1.74 | cps |
| Molybdenum | 94-1 | 2920 | 2757 | 2447 | 2708 | 8.88 | cps |
| Molybdenum | 95-1 | 2044 | 1603 | 1387 | 1678 | 19.94 | cps |
| Molybdenum | 96-1 | 2580 | 2090 | 1890 | 2187 | 16.24 | cps |
| Molybdenum | 97-1 | 1197 | 1090 | 893 | 1060 | 14.52 | cps |
| Molybdenum | 98-1 | 3120 | 2540 | 2220 | 2627 | 17.37 | cps |
| Neodymium | 150-1 | 47 | 73 | 53 | 58 | 24.02 | cps |
| Neodymium | 150-2 | 10 | 7 | 13 | 10 | 33.30 | cps |
| Nickel | 60-2 | 1490 | 1277 | 1377 | 1381 | 7.73 | cps |
| Phosphorus | 31-2 | 250 | 343 | 240 | 278 | 20.52 | cps |
| Potassium | 39-2 | 42776 | 42663 | 42399 | 42613 | 0.45 | cps |
| Rhodium | 103-1 | 9498854 | 9468493 | 9253427 | 9406925 | 1.42 | cps |
| Rhodium | 103-2 | 4127932 | 4198503 | 4199028 | 4175154 | 0.98 | cps |
| Scandium | 45-1 | 6979532 | 6806119 | 6773081 | 6852911 | 1.62 | cps |
| Scandium | 45-2 | 178288 | 178630 | 176875 | 177931 | 0.52 | cps |
| Selenium | 82-1 | 37 | 13 | 13 | 21 | 63.83 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 30 | 33 | 63 | 42 | 43.48 | cps |
| Silicon | 28-1 | 878538 | 881028 | 875413 | 878326 | 0.32 | cps |
| Silver | 107-1 | 1233 | 1023 | 897 | 1051 | 16.18 | cps |
| Silver | 109-1 | 1040 | 813 | 693 | 849 | 20.74 | cps |
| Sodium | 23-2 | 137877 | 135758 | 134660 | 136098 | 1.20 | cps |
| Strontium | 86-1 | 1890 | 1593 | 1460 | 1648 | 13.36 | cps |
| Strontium | 88-1 | 9427 | 8956 | 8739 | 9041 | 3.89 | cps |
| Sulfur | 34-1 | 791177 | 795406 | 794287 | 793623 | 0.28 | cps |
| Terbium | 159-1 | 11018647 | 10948564 | 10933098 | 10966770 | 0.42 | cps |
| Terbium | 159-2 | 4306588 | 4217352 | 4303102 | 4275681 | 1.18 | cps |
| Thallium | 203-1 | 4237 | 3334 | 2784 | 3452 | 21.27 | cps |
| Thallium | 205-1 | 9674 | 7596 | 6658 | 7976 | 19.35 | cps |
| Tin | 118-1 | 11789 | 11735 | 12279 | 11934 | 2.51 | cps |
| Titanium | 47-1 | 767 | 740 | 690 | 732 | 5.32 | cps |
| Uranium | 238-1 | 1217 | 940 | 747 | 968 | 24.41 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-05 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:11:39 | DataFile Name : | 039AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 130 | 133 | 77 | 113 | 28.06 | cps |
| Ytterbium | 172-1 | 43 | 83 | 100 | 76 | 38.55 | cps |
| Ytterbium | 172-2 | 30 | 47 | 40 | 39 | 21.57 | cps |
| Ytterbium | 176-1 | 1610 | 1417 | 1433 | 1487 | 7.21 | cps |
| Ytterbium | 176-2 | 377 | 380 | 407 | 388 | 4.24 | cps |
| Yttrium | 89-1 | 18299048 | 18162950 | 18102787 | 18188262 | 0.55 | cps |
| Yttrium | 89-2 | 1685567 | 1672473 | 1671839 | 1676626 | 0.46 | cps |
| Zinc | 66-2 | 3487 | 3634 | 3340 | 3487 | 4.21 | cps |
| Zirconium | 90-1 | 4651 | 4347 | 3864 | 4287 | 9.26 | cps |
| Zirconium | 91-1 | 1083 | 997 | 890 | 990 | 9.78 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-06 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:14:59 | DataFile Name : | 040AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 883 | 790 | 823 | 832 | 5.68 | cps |
| Antimony | 121-1 | 770 | 700 | 677 | 716 | 6.79 | cps |
| Arsenic | 75-2 | 13 | 17 | 17 | 16 | 12.40 | cps |
| Barium | 135-1 | 730 | 710 | 723 | 721 | 1.41 | cps |
| Barium | 137-1 | 1200 | 1123 | 937 | 1087 | 12.46 | cps |
| Beryllium | 9-1 | 269 | 282 | 276 | 276 | 2.35 | cps |
| Bismuth | 209-1 | 6225037 | 6310407 | 6080367 | 6205270 | 1.87 | cps |
| Bismuth | 209-2 | 2994751 | 2924736 | 2939421 | 2952970 | 1.25 | cps |
| Bromine | 81-1 | 35829 | 35836 | 35014 | 35560 | 1.33 | cps |
| Cadmium | 108-1 | 33 | 27 | 23 | 28 | 18.33 | cps |
| Cadmium | 106-1 | 6438 | 6312 | 6548 | 6433 | 1.84 | cps |
| Cadmium | 111-1 | 4593 | 4499 | 4671 | 4588 | 1.87 | cps |
| Calcium | 43-1 | 4217 | 4284 | 4277 | 4260 | 0.86 | cps |
| Calcium | 44-1 | 98877 | 106605 | 98095 | 101192 | 4.65 | cps |
| Carbon | 12-1 | 8280830 | 8926245 | 9259389 | 8822155 | 5.64 | cps |
| Carbon | 12-2 | 68542 | 68070 | 69302 | 68638 | 0.91 | cps |
| Chlorine | 35-1 | 1815615 | 1713100 | 1652003 | 1726906 | 4.79 | cps |
| Chlorine | 35-2 | 8503 | 8112 | 7879 | 8165 | 3.86 | cps |
| Chromium | 52-2 | 1827 | 1953 | 1890 | 1890 | 3.35 | cps |
| Cobalt | 59-2 | 150 | 150 | 143 | 148 | 2.60 | cps |
| Copper | 63-2 | 4611 | 4687 | 4697 | 4665 | 1.02 | cps |
| Dysprosium | 156-1 | 33 | 23 | 23 | 27 | 21.65 | cps |
| Dysprosium | 156-2 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Erbium | 164-1 | 87 | 77 | 57 | 73 | 20.83 | cps |
| Erbium | 164-2 | 37 | 17 | 33 | 29 | 37.08 | cps |
| Gadolinium | 160-1 | 93 | 130 | 167 | 130 | 28.20 | cps |
| Gadolinium | 160-2 | 43 | 43 | 13 | 33 | 51.97 | cps |
| Holmium | 165-1 | 10631907 | 10835201 | 10411275 | 10626127 | 2.00 | cps |
| Holmium | 165-2 | 4215701 | 4296330 | 4260347 | 4257460 | 0.95 | cps |
| Indium | 115-1 | 9790693 | 9821137 | 9540740 | 9717524 | 1.58 | cps |
| Indium | 115-2 | 1184977 | 1183816 | 1193236 | 1187343 | 0.43 | cps |
| Iron | 54-2 | 1823 | 1873 | 2060 | 1919 | 6.50 | cps |
| Iron | 56-2 | 29150 | 29392 | 28789 | 29110 | 1.04 | cps |
| Iron | 57-2 | 740 | 647 | 743 | 710 | 7.73 | cps |
| Krypton | 83-1 | 353 | 470 | 400 | 408 | 14.40 | cps |
| Lead | 206-1 | 4101 | 3964 | 3794 | 3953 | 3.89 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-06 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:14:59 | DataFile Name : | 040AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3467 | 3300 | 3390 | 3386 | 2.46 | cps |
| Lead | 208-1 | 15407 | 15574 | 15320 | 15434 | 0.83 | cps |
| Lithium | 6-1 | 3873650 | 3785372 | 3744431 | 3801151 | 1.74 | cps |
| Magnesium | 24-2 | 4114 | 4137 | 4077 | 4110 | 0.74 | cps |
| Manganese | 55-2 | 16259 | 16767 | 15972 | 16333 | 2.46 | cps |
| Molybdenum | 94-1 | 1073 | 1087 | 1030 | 1063 | 2.79 | cps |
| Molybdenum | 95-1 | 487 | 527 | 540 | 518 | 5.36 | cps |
| Molybdenum | 96-1 | 753 | 763 | 733 | 750 | 2.04 | cps |
| Molybdenum | 97-1 | 337 | 330 | 337 | 334 | 1.15 | cps |
| Molybdenum | 98-1 | 937 | 793 | 823 | 851 | 8.88 | cps |
| Neodymium | 150-1 | 17 | 17 | 30 | 21 | 36.45 | cps |
| Neodymium | 150-2 | 7 | 3 | 10 | 7 | 50.03 | cps |
| Nickel | 60-2 | 1440 | 1493 | 1447 | 1460 | 1.99 | cps |
| Phosphorus | 31-2 | 267 | 213 | 280 | 253 | 13.92 | cps |
| Potassium | 39-2 | 40497 | 40239 | 39878 | 40205 | 0.77 | cps |
| Rhodium | 103-1 | 9454920 | 9556900 | 9255026 | 9422282 | 1.63 | cps |
| Rhodium | 103-2 | 4145417 | 4140796 | 4173929 | 4153381 | 0.43 | cps |
| Scandium | 45-1 | 6974002 | 6860293 | 6699834 | 6844710 | 2.01 | cps |
| Scandium | 45-2 | 173454 | 173995 | 174694 | 174048 | 0.36 | cps |
| Selenium | 82-1 | 140 | -70 | 20 | 30 | 351.17 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 40 | 37 | 53 | 43 | 20.34 | cps |
| Silicon | 28-1 | 843016 | 848018 | 856630 | 849221 | 0.81 | cps |
| Silver | 107-1 | 423 | 443 | 490 | 452 | 7.57 | cps |
| Silver | 109-1 | 357 | 303 | 330 | 330 | 8.08 | cps |
| Sodium | 23-2 | 149978 | 149210 | 147719 | 148969 | 0.77 | cps |
| Strontium | 86-1 | 1713 | 1573 | 1590 | 1626 | 4.70 | cps |
| Strontium | 88-1 | 9073 | 8810 | 9090 | 8991 | 1.75 | cps |
| Sulfur | 34-1 | 798535 | 797440 | 799231 | 798402 | 0.11 | cps |
| Terbium | 159-1 | 10950142 | 10960079 | 10737068 | 10882430 | 1.16 | cps |
| Terbium | 159-2 | 4254142 | 4306095 | 4225199 | 4261812 | 0.96 | cps |
| Thallium | 203-1 | 1487 | 1227 | 1330 | 1348 | 9.71 | cps |
| Thallium | 205-1 | 3481 | 3114 | 2947 | 3180 | 8.58 | cps |
| Tin | 118-1 | 16977 | 16226 | 16744 | 16649 | 2.31 | cps |
| Titanium | 47-1 | 663 | 750 | 713 | 709 | 6.14 | cps |
| Uranium | 238-1 | 323 | 337 | 287 | 316 | 8.21 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1731-06 | Instrumnet Name : | P8 |
| Client Sample ID : | EB01-040325 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 14:14:59 | DataFile Name : | 040AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 80 | 50 | 73 | 68 | 23.24 | cps |
| Ytterbium | 172-1 | 40 | 90 | 67 | 66 | 38.16 | cps |
| Ytterbium | 172-2 | 40 | 20 | 27 | 29 | 35.25 | cps |
| Ytterbium | 176-1 | 1413 | 1553 | 1377 | 1448 | 6.44 | cps |
| Ytterbium | 176-2 | 303 | 400 | 300 | 334 | 16.98 | cps |
| Yttrium | 89-1 | 17922248 | 18039597 | 17548621 | 17836822 | 1.44 | cps |
| Yttrium | 89-2 | 1650399 | 1669461 | 1677535 | 1665798 | 0.84 | cps |
| Zinc | 66-2 | 3587 | 3654 | 3741 | 3661 | 2.10 | cps |
| Zirconium | 90-1 | 2004 | 2014 | 1823 | 1947 | 5.49 | cps |
| Zirconium | 91-1 | 373 | 413 | 413 | 400 | 5.77 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:18:21 | DataFile Name : | 041AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3087 | 3267 | 3137 | 3164 | 2.94 | cps |
| Antimony | 121-1 | 8106 | 8156 | 8283 | 8181 | 1.11 | cps |
| Arsenic | 75-2 | 49627 | 51537 | 53271 | 51478 | 3.54 | cps |
| Barium | 135-1 | 12002 | 12132 | 12289 | 12141 | 1.18 | cps |
| Barium | 137-1 | 20733 | 21077 | 20873 | 20894 | 0.83 | cps |
| Beryllium | 9-1 | -1403 | -1475 | -1468 | -1449 | -2.74 | cps |
| Bismuth | 209-1 | 7445168 | 7429199 | 7404651 | 7426339 | 0.27 | cps |
| Bismuth | 209-2 | 3561532 | 3580022 | 3641561 | 3594371 | 1.17 | cps |
| Bromine | 81-1 | 54017 | 53191 | 52853 | 53353 | 1.12 | cps |
| Cadmium | 108-1 | 767 | 427 | 247 | 480 | 55.02 | cps |
| Cadmium | 106-1 | 10624 | 9543 | 9100 | 9756 | 8.04 | cps |
| Cadmium | 111-1 | 7120 | 6598 | 6414 | 6711 | 5.46 | cps |
| Calcium | 43-1 | 648279 | 651492 | 655490 | 651754 | 0.55 | cps |
| Calcium | 44-1 | 12159445 | 12414108 | 12375462 | 12316338 | 1.11 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | 49931041 | 50396398 | 49167196 | 49831545 | 1.25 | cps |
| Chlorine | 35-1 | 2703430 | 2802467 | 2868838 | 2791578 | 2.98 | cps |
| Chlorine | 35-2 | 15679 | 15558 | 15675 | 15637 | 0.44 | cps |
| Chromium | 52-2 | 7165 | 6998 | 7319 | 7161 | 2.24 | cps |
| Cobalt | 59-2 | 9767 | 9377 | 9226 | 9457 | 2.95 | cps |
| Copper | 63-2 | 16193 | 16193 | 15822 | 16069 | 1.33 | cps |
| Dysprosium | 156-1 | 57 | 30 | 57 | 48 | 32.23 | cps |
| Dysprosium | 156-2 | 17 | 10 | 17 | 14 | 26.66 | cps |
| Erbium | 164-1 | 83 | 120 | 70 | 91 | 28.42 | cps |
| Erbium | 164-2 | 40 | 37 | 60 | 46 | 27.70 | cps |
| Gadolinium | 160-1 | 173 | 127 | 110 | 137 | 24.02 | cps |
| Gadolinium | 160-2 | 33 | 33 | 53 | 40 | 28.87 | cps |
| Holmium | 165-1 | 12597188 | 12452977 | 12636142 | 12562102 | 0.77 | cps |
| Holmium | 165-2 | 5177555 | 5261508 | 5314023 | 5251029 | 1.31 | cps |
| Indium | 115-1 | 11720458 | 11528184 | 11615227 | 11621289 | 0.83 | cps |
| Indium | 115-2 | 1415043 | 1418147 | 1456588 | 1429926 | 1.62 | cps |
| Iron | 54-2 | 10042856 | 10037072 | 9768313 | 9949414 | 1.58 | cps |
| Iron | 56-2 | 184482417 | 185267284 | 180968104 | 183572602 | 1.25 | cps |
| Iron | 57-2 | 4636730 | 4672246 | 4592041 | 4633672 | 0.87 | cps |
| Krypton | 83-1 | 437 | 527 | 477 | 480 | 9.39 | cps |
| Lead | 206-1 | 8089 | 8470 | 8460 | 8339 | 2.60 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:18:21 | DataFile Name : | 041AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 7042 | 7095 | 7062 | 7066 | 0.38 | cps |
| Lead | 208-1 | 32326 | 32446 | 32276 | 32349 | 0.27 | cps |
| Lithium | 6-1 | 4651307 | 4701701 | 4800193 | 4717734 | 1.61 | cps |
| Magnesium | 24-2 | 579485 | 587353 | 576533 | 581124 | 0.96 | cps |
| Manganese | 55-2 | 3943876 | 4000941 | 3953624 | 3966147 | 0.77 | cps |
| Molybdenum | 94-1 | 200801 | 107982 | 74335 | 127706 | 51.29 | cps |
| Molybdenum | 95-1 | 6745 | 6368 | 6535 | 6549 | 2.88 | cps |
| Molybdenum | 96-1 | 41590 | 25771 | 21210 | 29524 | 36.23 | cps |
| Molybdenum | 97-1 | 3894 | 3864 | 3777 | 3845 | 1.58 | cps |
| Molybdenum | 98-1 | 9990 | 10077 | 9994 | 10020 | 0.49 | cps |
| Neodymium | 150-1 | 20 | 27 | 33 | 27 | 24.99 | cps |
| Neodymium | 150-2 | 7 | 7 | 0 | 4 | 86.60 | cps |
| Nickel | 60-2 | 3477 | 3550 | 3687 | 3572 | 2.98 | cps |
| Phosphorus | 31-2 | 670 | 683 | 687 | 680 | 1.30 | cps |
| Potassium | 39-2 | 2547962 | 2569907 | 2590108 | 2569326 | 0.82 | cps |
| Rhodium | 103-1 | 11297014 | 11224959 | 11352609 | 11291527 | 0.57 | cps |
| Rhodium | 103-2 | 5105533 | 5060954 | 5148135 | 5104874 | 0.85 | cps |
| Scandium | 45-1 | 8424644 | 8626954 | 8624793 | 8558797 | 1.36 | cps |
| Scandium | 45-2 | 210144 | 212955 | 221383 | 214827 | 2.72 | cps |
| Selenium | 82-1 | 21551 | 24118 | 23961 | 23210 | 6.20 | cps |
| Selenium | 77-2 | 553 | 540 | 527 | 540 | 2.47 | cps |
| Selenium | 78-2 | 1777 | 1817 | 1960 | 1851 | 5.21 | cps |
| Silicon | 28-1 | 36869224 | 37802120 | 38414646 | 37695330 | 2.06 | cps |
| Silver | 107-1 | 940 | 760 | 607 | 769 | 21.70 | cps |
| Silver | 109-1 | 380 | 377 | 433 | 397 | 8.02 | cps |
| Sodium | 23-2 | 10922752 | 11056997 | 10733369 | 10904373 | 1.49 | cps |
| Strontium | 86-1 | 132662 | 133097 | 134553 | 133437 | 0.74 | cps |
| Strontium | 88-1 | 1126120 | 1156332 | 1152225 | 1144893 | 1.43 | cps |
| Sulfur | 34-1 | 1108019 | 1082523 | 1078917 | 1089820 | 1.46 | cps |
| Terbium | 159-1 | 13221125 | 13192766 | 13131242 | 13181711 | 0.35 | cps |
| Terbium | 159-2 | 5035691 | 5005362 | 5170128 | 5070394 | 1.73 | cps |
| Thallium | 203-1 | 5588 | 4591 | 4157 | 4779 | 15.35 | cps |
| Thallium | 205-1 | 12750 | 11245 | 9647 | 11214 | 13.84 | cps |
| Tin | 118-1 | 10714 | 11125 | 11512 | 11117 | 3.59 | cps |
| Titanium | 47-1 | 2794 | 3024 | 2774 | 2864 | 4.85 | cps |
| Uranium | 238-1 | 730 | 713 | 710 | 718 | 1.49 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:18:21 | DataFile Name : | 041AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 537 | 523 | 520 | 527 | 1.67 | cps |
| Ytterbium | 172-1 | 97 | 120 | 77 | 98 | 22.18 | cps |
| Ytterbium | 172-2 | 27 | 60 | 33 | 40 | 44.09 | cps |
| Ytterbium | 176-1 | 2784 | 2287 | 2167 | 2412 | 13.55 | cps |
| Ytterbium | 176-2 | 523 | 507 | 550 | 527 | 4.15 | cps |
| Yttrium | 89-1 | 21573518 | 21644800 | 21733481 | 21650600 | 0.37 | cps |
| Yttrium | 89-2 | 2023216 | 2032721 | 2072822 | 2042920 | 1.29 | cps |
| Zinc | 66-2 | 41678 | 41236 | 41484 | 41466 | 0.53 | cps |
| Zirconium | 90-1 | 551933 | 284436 | 196209 | 344192 | 53.82 | cps |
| Zirconium | 91-1 | 121165 | 62675 | 43438 | 75759 | 53.43 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:21:35 | DataFile Name : | 042AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 12052 | 12222 | 12339 | 12204 | 1.18 | cps |
| Antimony | 121-1 | 8866 | 9013 | 8723 | 8867 | 1.64 | cps |
| Arsenic | 75-2 | 90793 | 93776 | 93424 | 92664 | 1.76 | cps |
| Barium | 135-1 | 22375 | 23133 | 22549 | 22686 | 1.75 | cps |
| Barium | 137-1 | 37950 | 38802 | 38959 | 38570 | 1.41 | cps |
| Beryllium | 9-1 | -961 | -958 | -960 | -960 | -0.19 | cps |
| Bismuth | 209-1 | 7950122 | 8072549 | 8041943 | 8021538 | 0.79 | cps |
| Bismuth | 209-2 | 3899957 | 3933526 | 3939439 | 3924307 | 0.54 | cps |
| Bromine | 81-1 | 57641 | 56781 | 57595 | 57339 | 0.84 | cps |
| Cadmium | 108-1 | 117 | 150 | 147 | 138 | 13.32 | cps |
| Cadmium | 106-1 | 9613 | 9934 | 9747 | 9765 | 1.65 | cps |
| Cadmium | 111-1 | 6848 | 6995 | 6913 | 6919 | 1.07 | cps |
| Calcium | 43-1 | 370891 | 379154 | 381705 | 377250 | 1.50 | cps |
| Calcium | 44-1 | 8597903 | 8417780 | 8484704 | 8500129 | 1.07 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | 74885521 | 74910832 | 75847384 | 75214579 | 0.73 | cps |
| Chlorine | 35-1 | 1852890 | 1929747 | 1943018 | 1908552 | 2.55 | cps |
| Chlorine | 35-2 | 10734 | 10167 | 10647 | 10516 | 2.90 | cps |
| Chromium | 52-2 | 11952 | 11855 | 11488 | 11765 | 2.08 | cps |
| Cobalt | 59-2 | 2917 | 2880 | 2647 | 2815 | 5.20 | cps |
| Copper | 63-2 | 22268 | 22855 | 22498 | 22540 | 1.31 | cps |
| Dysprosium | 156-1 | 377 | 350 | 353 | 360 | 4.04 | cps |
| Dysprosium | 156-2 | 147 | 137 | 133 | 139 | 4.99 | cps |
| Erbium | 164-1 | 477 | 390 | 390 | 419 | 11.95 | cps |
| Erbium | 164-2 | 167 | 127 | 150 | 148 | 13.60 | cps |
| Gadolinium | 160-1 | 463 | 543 | 477 | 494 | 8.67 | cps |
| Gadolinium | 160-2 | 187 | 180 | 180 | 182 | 2.11 | cps |
| Holmium | 165-1 | 13717133 | 13900867 | 14009944 | 13875981 | 1.07 | cps |
| Holmium | 165-2 | 5821789 | 5671633 | 5711551 | 5734991 | 1.36 | cps |
| Indium | 115-1 | 12702958 | 12837205 | 12863832 | 12801332 | 0.67 | cps |
| Indium | 115-2 | 1714013 | 1706917 | 1690261 | 1703730 | 0.72 | cps |
| Iron | 54-2 | 12763499 | 12738317 | 12958962 | 12820259 | 0.94 | cps |
| Iron | 56-2 | 234403450 | 234121777 | 235561103 | 234695443 | 0.33 | cps |
| Iron | 57-2 | 5904352 | 5966694 | 5944792 | 5938612 | 0.53 | cps |
| Krypton | 83-1 | 477 | 387 | 437 | 433 | 10.41 | cps |
| Lead | 206-1 | 18720 | 19341 | 19211 | 19091 | 1.72 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:21:35 | DataFile Name : | 042AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 15816 | 15927 | 15950 | 15898 | 0.45 | cps |
| Lead | 208-1 | 72920 | 75136 | 74307 | 74121 | 1.51 | cps |
| Lithium | 6-1 | 5136640 | 5115064 | 5166699 | 5139468 | 0.50 | cps |
| Magnesium | 24-2 | 538838 | 538869 | 548718 | 542142 | 1.05 | cps |
| Manganese | 55-2 | 5133744 | 5219073 | 5174599 | 5175805 | 0.82 | cps |
| Molybdenum | 94-1 | 31780 | 27634 | 25554 | 28322 | 11.19 | cps |
| Molybdenum | 95-1 | 6228 | 6208 | 6452 | 6296 | 2.15 | cps |
| Molybdenum | 96-1 | 14020 | 13620 | 13276 | 13639 | 2.73 | cps |
| Molybdenum | 97-1 | 3784 | 3797 | 3967 | 3849 | 2.66 | cps |
| Molybdenum | 98-1 | 9787 | 9950 | 9907 | 9881 | 0.86 | cps |
| Neodymium | 150-1 | 407 | 457 | 420 | 428 | 6.05 | cps |
| Neodymium | 150-2 | 123 | 150 | 87 | 120 | 26.50 | cps |
| Nickel | 60-2 | 3320 | 3510 | 3217 | 3349 | 4.44 | cps |
| Phosphorus | 31-2 | 700 | 650 | 680 | 677 | 3.72 | cps |
| Potassium | 39-2 | 219040 | 219835 | 221477 | 220117 | 0.56 | cps |
| Rhodium | 103-1 | 12416850 | 12821973 | 12621297 | 12620040 | 1.61 | cps |
| Rhodium | 103-2 | 5746573 | 5713756 | 5652846 | 5704392 | 0.83 | cps |
| Scandium | 45-1 | 9541989 | 9565862 | 9589258 | 9565703 | 0.25 | cps |
| Scandium | 45-2 | 238884 | 241440 | 242453 | 240926 | 0.76 | cps |
| Selenium | 82-1 | 25411 | 26957 | 27221 | 26529 | 3.69 | cps |
| Selenium | 77-2 | 663 | 730 | 543 | 646 | 14.65 | cps |
| Selenium | 78-2 | 2050 | 2024 | 1997 | 2024 | 1.32 | cps |
| Silicon | 28-1 | 52411348 | 54800664 | 55401479 | 54204497 | 2.92 | cps |
| Silver | 107-1 | 527 | 477 | 533 | 512 | 6.05 | cps |
| Silver | 109-1 | 363 | 340 | 407 | 370 | 9.14 | cps |
| Sodium | 23-2 | 6828539 | 6816155 | 6888239 | 6844311 | 0.56 | cps |
| Strontium | 86-1 | 93849 | 95135 | 96242 | 95075 | 1.26 | cps |
| Strontium | 88-1 | 818275 | 825012 | 821695 | 821661 | 0.41 | cps |
| Sulfur | 34-1 | 1083653 | 1091618 | 1097493 | 1090921 | 0.64 | cps |
| Terbium | 159-1 | 14190251 | 14703454 | 14444885 | 14446197 | 1.78 | cps |
| Terbium | 159-2 | 5581706 | 5582765 | 5589024 | 5584498 | 0.07 | cps |
| Thallium | 203-1 | 3507 | 3324 | 2850 | 3227 | 10.50 | cps |
| Thallium | 205-1 | 8703 | 8169 | 7295 | 8056 | 8.82 | cps |
| Tin | 118-1 | 14097 | 14241 | 14972 | 14437 | 3.25 | cps |
| Titanium | 47-1 | 11189 | 8002 | 7552 | 8915 | 22.24 | cps |
| Uranium | 238-1 | 1073 | 990 | 990 | 1018 | 4.73 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DLX10 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 10 |
| Date & Time Acquired : | 2025-04-07 14:21:35 | DataFile Name : | 042AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 1047 | 983 | 967 | 999 | 4.23 | cps |
| Ytterbium | 172-1 | 173 | 180 | 127 | 160 | 18.16 | cps |
| Ytterbium | 172-2 | 63 | 80 | 113 | 86 | 29.76 | cps |
| Ytterbium | 176-1 | 2450 | 2197 | 2150 | 2266 | 7.13 | cps |
| Ytterbium | 176-2 | 463 | 530 | 480 | 491 | 7.06 | cps |
| Yttrium | 89-1 | 23876659 | 24500642 | 23905671 | 24094324 | 1.46 | cps |
| Yttrium | 89-2 | 2255699 | 2308451 | 2289058 | 2284403 | 1.17 | cps |
| Zinc | 66-2 | 18242 | 17928 | 18295 | 18155 | 1.09 | cps |
| Zirconium | 90-1 | 77816 | 67777 | 61669 | 69087 | 11.80 | cps |
| Zirconium | 91-1 | 17414 | 15198 | 14071 | 15561 | 10.93 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:33:21 | DataFile Name : | 043AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1340 | 1197 | 1183 | 1240 | 7.00 | cps |
| Antimony | 121-1 | 2574 | 2520 | 2594 | 2562 | 1.48 | cps |
| Arsenic | 75-2 | 6181 | 6335 | 6815 | 6444 | 5.13 | cps |
| Barium | 135-1 | 3551 | 3574 | 3454 | 3526 | 1.80 | cps |
| Barium | 137-1 | 6312 | 6078 | 6432 | 6274 | 2.87 | cps |
| Beryllium | 9-1 | -349 | -336 | -369 | -351 | -4.74 | cps |
| Bismuth | 209-1 | 6932669 | 6867018 | 6998749 | 6932812 | 0.95 | cps |
| Bismuth | 209-2 | 3424794 | 3442495 | 3403368 | 3423553 | 0.57 | cps |
| Bromine | 81-1 | 42080 | 41883 | 42424 | 42129 | 0.65 | cps |
| Cadmium | 108-1 | 77 | 43 | 90 | 70 | 34.34 | cps |
| Cadmium | 106-1 | 8206 | 7816 | 8056 | 8026 | 2.45 | cps |
| Cadmium | 111-1 | 5767 | 5517 | 5609 | 5631 | 2.24 | cps |
| Calcium | 43-1 | 194369 | 196822 | 194781 | 195324 | 0.67 | cps |
| Calcium | 44-1 | 3944467 | 3979727 | 3849222 | 3924472 | 1.72 | cps |
| Carbon | 12-1 | 2671002627 | 2738970733 | 2765365292 | 2725112884 | 1.79 | cps |
| Carbon | 12-2 | 17588000 | 17761510 | 17565103 | 17638204 | 0.61 | cps |
| Chlorine | 35-1 | 1026043 | 1083177 | 1123834 | 1077685 | 4.56 | cps |
| Chlorine | 35-2 | 6251 | 6295 | 6475 | 6340 | 1.87 | cps |
| Chromium | 52-2 | 16640 | 16299 | 16573 | 16504 | 1.09 | cps |
| Cobalt | 59-2 | 3394 | 3217 | 3324 | 3312 | 2.69 | cps |
| Copper | 63-2 | 5985 | 5925 | 5638 | 5849 | 3.17 | cps |
| Dysprosium | 156-1 | 17 | 27 | 17 | 20 | 28.86 | cps |
| Dysprosium | 156-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Erbium | 164-1 | 67 | 93 | 97 | 86 | 19.22 | cps |
| Erbium | 164-2 | 40 | 17 | 27 | 28 | 42.13 | cps |
| Gadolinium | 160-1 | 137 | 110 | 107 | 118 | 13.96 | cps |
| Gadolinium | 160-2 | 30 | 30 | 13 | 24 | 39.37 | cps |
| Holmium | 165-1 | 11773414 | 11858687 | 11944585 | 11858895 | 0.72 | cps |
| Holmium | 165-2 | 4974848 | 4934801 | 4943834 | 4951161 | 0.42 | cps |
| Indium | 115-1 | 10998450 | 10934671 | 10790990 | 10908037 | 0.97 | cps |
| Indium | 115-2 | 1353805 | 1365003 | 1364484 | 1361098 | 0.46 | cps |
| Iron | 54-2 | 3360281 | 3309299 | 3351850 | 3340477 | 0.82 | cps |
| Iron | 56-2 | 60430397 | 60399032 | 60706824 | 60512085 | 0.28 | cps |
| Iron | 57-2 | 1553615 | 1537038 | 1555092 | 1548582 | 0.65 | cps |
| Krypton | 83-1 | 457 | 437 | 383 | 426 | 8.91 | cps |
| Lead | 206-1 | 2840 | 3044 | 2977 | 2954 | 3.51 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:33:21 | DataFile Name : | 043AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2417 | 2724 | 2720 | 2620 | 6.72 | cps |
| Lead | 208-1 | 11559 | 11829 | 11792 | 11727 | 1.25 | cps |
| Lithium | 6-1 | 4443243 | 4450578 | 4394863 | 4429561 | 0.68 | cps |
| Magnesium | 24-2 | 200171 | 197784 | 198956 | 198970 | 0.60 | cps |
| Manganese | 55-2 | 1264875 | 1275777 | 1260799 | 1267150 | 0.61 | cps |
| Molybdenum | 94-1 | 12446 | 11161 | 10074 | 11227 | 10.58 | cps |
| Molybdenum | 95-1 | 2710 | 2940 | 2917 | 2856 | 4.43 | cps |
| Molybdenum | 96-1 | 5358 | 5318 | 5064 | 5247 | 3.03 | cps |
| Molybdenum | 97-1 | 1647 | 1590 | 1650 | 1629 | 2.07 | cps |
| Molybdenum | 98-1 | 4331 | 3987 | 4344 | 4221 | 4.79 | cps |
| Neodymium | 150-1 | 27 | 7 | 17 | 17 | 59.99 | cps |
| Neodymium | 150-2 | 7 | 13 | 13 | 11 | 34.61 | cps |
| Nickel | 60-2 | 4297 | 4311 | 4444 | 4351 | 1.86 | cps |
| Phosphorus | 31-2 | 393 | 343 | 350 | 362 | 7.49 | cps |
| Potassium | 39-2 | 900963 | 900463 | 911107 | 904178 | 0.66 | cps |
| Rhodium | 103-1 | 10634349 | 10829794 | 10617996 | 10694047 | 1.10 | cps |
| Rhodium | 103-2 | 4852005 | 4867880 | 4918166 | 4879350 | 0.71 | cps |
| Scandium | 45-1 | 8017258 | 7978747 | 7798064 | 7931357 | 1.48 | cps |
| Scandium | 45-2 | 204302 | 205606 | 208541 | 206150 | 1.05 | cps |
| Selenium | 82-1 | 3751 | 4428 | 4704 | 4294 | 11.42 | cps |
| Selenium | 77-2 | 123 | 133 | 83 | 113 | 23.35 | cps |
| Selenium | 78-2 | 460 | 443 | 463 | 456 | 2.35 | cps |
| Silicon | 28-1 | 14252609 | 14576449 | 14747403 | 14525487 | 1.73 | cps |
| Silver | 107-1 | 297 | 257 | 250 | 268 | 9.42 | cps |
| Silver | 109-1 | 140 | 147 | 140 | 142 | 2.71 | cps |
| Sodium | 23-2 | 3930588 | 3965447 | 3943768 | 3946601 | 0.45 | cps |
| Strontium | 86-1 | 42916 | 43387 | 42959 | 43087 | 0.60 | cps |
| Strontium | 88-1 | 368201 | 368696 | 369866 | 368921 | 0.23 | cps |
| Sulfur | 34-1 | 1020849 | 1018833 | 1008061 | 1015914 | 0.68 | cps |
| Terbium | 159-1 | 12331238 | 12365816 | 12287375 | 12328143 | 0.32 | cps |
| Terbium | 159-2 | 4827676 | 4900560 | 4794865 | 4841034 | 1.12 | cps |
| Thallium | 203-1 | 1050 | 973 | 957 | 993 | 5.01 | cps |
| Thallium | 205-1 | 2607 | 2467 | 2237 | 2437 | 7.67 | cps |
| Tin | 118-1 | 6559 | 6178 | 6268 | 6335 | 3.14 | cps |
| Titanium | 47-1 | 1143 | 1117 | 1073 | 1111 | 3.18 | cps |
| Uranium | 238-1 | 143 | 157 | 207 | 169 | 19.77 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:33:21 | DataFile Name : | 043AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 267 | 250 | 247 | 254 | 4.21 | cps |
| Ytterbium | 172-1 | 40 | 73 | 67 | 60 | 29.40 | cps |
| Ytterbium | 172-2 | 33 | 37 | 40 | 37 | 9.10 | cps |
| Ytterbium | 176-1 | 1727 | 1773 | 1713 | 1738 | 1.81 | cps |
| Ytterbium | 176-2 | 383 | 440 | 550 | 458 | 18.51 | cps |
| Yttrium | 89-1 | 20467867 | 20890391 | 20494857 | 20617705 | 1.15 | cps |
| Yttrium | 89-2 | 1940769 | 1950783 | 1970278 | 1953943 | 0.77 | cps |
| Zinc | 66-2 | 14885 | 14801 | 14781 | 14822 | 0.37 | cps |
| Zirconium | 90-1 | 31152 | 27066 | 23944 | 27387 | 13.20 | cps |
| Zirconium | 91-1 | 6528 | 5895 | 5641 | 6021 | 7.59 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:36:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4364 | 4451 | 4194 | 4336 | 3.01 | cps |
| Antimony | 121-1 | 2697 | 2927 | 2937 | 2854 | 4.76 | cps |
| Arsenic | 75-2 | 11181 | 11368 | 11555 | 11368 | 1.64 | cps |
| Barium | 135-1 | 6905 | 7082 | 7022 | 7003 | 1.28 | cps |
| Barium | 137-1 | 12242 | 12252 | 12723 | 12406 | 2.21 | cps |
| Beryllium | 9-1 | -222 | -228 | -229 | -226 | -1.61 | cps |
| Bismuth | 209-1 | 7342480 | 7241884 | 7207877 | 7264080 | 0.96 | cps |
| Bismuth | 209-2 | 3584851 | 3566697 | 3538155 | 3563234 | 0.66 | cps |
| Bromine | 81-1 | 44163 | 44006 | 43207 | 43792 | 1.17 | cps |
| Cadmium | 108-1 | 80 | 60 | 57 | 66 | 19.25 | cps |
| Cadmium | 106-1 | 8326 | 8643 | 8519 | 8496 | 1.88 | cps |
| Cadmium | 111-1 | 5842 | 6105 | 5984 | 5977 | 2.20 | cps |
| Calcium | 43-1 | 126420 | 127284 | 127398 | 127034 | 0.42 | cps |
| Calcium | 44-1 | 3051779 | 3128294 | 3012626 | 3064233 | 1.92 | cps |
| Carbon | 12-1 | 3875666929 | 4036740740 | 4027742767 | 3980050145 | 2.27 | cps |
| Carbon | 12-2 | 25807257 | 25915420 | 25003890 | 25575523 | 1.95 | cps |
| Chlorine | 35-1 | 810420 | 828205 | 833549 | 824058 | 1.47 | cps |
| Chlorine | 35-2 | 4794 | 4924 | 4724 | 4814 | 2.11 | cps |
| Chromium | 52-2 | 18752 | 19003 | 18322 | 18692 | 1.84 | cps |
| Cobalt | 59-2 | 1097 | 1083 | 1017 | 1066 | 4.02 | cps |
| Copper | 63-2 | 6148 | 6298 | 6382 | 6276 | 1.89 | cps |
| Dysprosium | 156-1 | 100 | 120 | 130 | 117 | 13.09 | cps |
| Dysprosium | 156-2 | 63 | 53 | 50 | 56 | 12.49 | cps |
| Erbium | 164-1 | 197 | 197 | 177 | 190 | 6.08 | cps |
| Erbium | 164-2 | 80 | 50 | 137 | 89 | 49.51 | cps |
| Gadolinium | 160-1 | 220 | 237 | 293 | 250 | 15.38 | cps |
| Gadolinium | 160-2 | 107 | 103 | 73 | 94 | 19.44 | cps |
| Holmium | 165-1 | 12179286 | 12377089 | 12421332 | 12325902 | 1.05 | cps |
| Holmium | 165-2 | 5220538 | 5148407 | 5096797 | 5155247 | 1.21 | cps |
| Indium | 115-1 | 11515980 | 11310534 | 11466119 | 11430878 | 0.94 | cps |
| Indium | 115-2 | 1414616 | 1411906 | 1418056 | 1414860 | 0.22 | cps |
| Iron | 54-2 | 3919636 | 3934976 | 3846214 | 3900275 | 1.22 | cps |
| Iron | 56-2 | 72030117 | 70977012 | 70943477 | 71316869 | 0.87 | cps |
| Iron | 57-2 | 1868397 | 1815559 | 1837618 | 1840525 | 1.44 | cps |
| Krypton | 83-1 | 460 | 453 | 487 | 467 | 3.78 | cps |
| Lead | 206-1 | 6638 | 6688 | 6872 | 6733 | 1.83 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

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|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:36:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 5535 | 5661 | 5801 | 5666 | 2.36 | cps |
| Lead | 208-1 | 25760 | 25330 | 26708 | 25933 | 2.72 | cps |
| Lithium | 6-1 | 4624149 | 4669399 | 4677641 | 4657063 | 0.62 | cps |
| Magnesium | 24-2 | 179987 | 180080 | 177238 | 179102 | 0.90 | cps |
| Manganese | 55-2 | 1581557 | 1542009 | 1562339 | 1561968 | 1.27 | cps |
| Molybdenum | 94-1 | 7122 | 7609 | 7529 | 7420 | 3.52 | cps |
| Molybdenum | 95-1 | 2637 | 2730 | 2457 | 2608 | 5.33 | cps |
| Molybdenum | 96-1 | 4617 | 4407 | 4457 | 4494 | 2.44 | cps |
| Molybdenum | 97-1 | 1677 | 1683 | 1673 | 1678 | 0.30 | cps |
| Molybdenum | 98-1 | 4227 | 4114 | 4111 | 4151 | 1.60 | cps |
| Neodymium | 150-1 | 187 | 143 | 190 | 173 | 15.02 | cps |
| Neodymium | 150-2 | 43 | 67 | 63 | 58 | 21.85 | cps |
| Nickel | 60-2 | 4481 | 4531 | 4314 | 4442 | 2.55 | cps |
| Phosphorus | 31-2 | 333 | 337 | 340 | 337 | 0.99 | cps |
| Potassium | 39-2 | 98080 | 97071 | 97033 | 97395 | 0.61 | cps |
| Rhodium | 103-1 | 11012901 | 11405702 | 11219937 | 11212847 | 1.75 | cps |
| Rhodium | 103-2 | 5150760 | 5140731 | 5068182 | 5119891 | 0.88 | cps |
| Scandium | 45-1 | 8455338 | 8485751 | 8502887 | 8481325 | 0.28 | cps |
| Scandium | 45-2 | 215945 | 215979 | 214650 | 215524 | 0.35 | cps |
| Selenium | 82-1 | 6512 | 7396 | 7889 | 7266 | 9.60 | cps |
| Selenium | 77-2 | 223 | 177 | 187 | 196 | 12.57 | cps |
| Selenium | 78-2 | 663 | 733 | 623 | 673 | 8.27 | cps |
| Silicon | 28-1 | 20111898 | 21103001 | 20980400 | 20731766 | 2.61 | cps |
| Silver | 107-1 | 277 | 257 | 313 | 282 | 10.18 | cps |
| Silver | 109-1 | 160 | 167 | 170 | 166 | 3.08 | cps |
| Sodium | 23-2 | 2483519 | 2483121 | 2450917 | 2472519 | 0.76 | cps |
| Strontium | 86-1 | 31800 | 32578 | 31175 | 31851 | 2.21 | cps |
| Strontium | 88-1 | 270580 | 270845 | 271853 | 271093 | 0.25 | cps |
| Sulfur | 34-1 | 1032785 | 1015406 | 1014892 | 1021027 | 1.00 | cps |
| Terbium | 159-1 | 12919944 | 12737151 | 13083971 | 12913689 | 1.34 | cps |
| Terbium | 159-2 | 4973701 | 4919867 | 5018610 | 4970726 | 0.99 | cps |
| Thallium | 203-1 | 970 | 1060 | 1033 | 1021 | 4.53 | cps |
| Thallium | 205-1 | 2547 | 2474 | 2344 | 2455 | 4.20 | cps |
| Tin | 118-1 | 7522 | 7412 | 7475 | 7470 | 0.74 | cps |
| Titanium | 47-1 | 2444 | 2490 | 2434 | 2456 | 1.23 | cps |
| Uranium | 238-1 | 300 | 280 | 350 | 310 | 11.63 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL2X25 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL2 | Dilution Factor : | 25 |
| Date & Time Acquired : | 2025-04-07 14:36:37 | DataFile Name : | 044AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 433 | 547 | 470 | 483 | 11.97 | cps |
| Ytterbium | 172-1 | 100 | 107 | 160 | 122 | 26.91 | cps |
| Ytterbium | 172-2 | 60 | 40 | 60 | 53 | 21.65 | cps |
| Ytterbium | 176-1 | 1937 | 1887 | 1780 | 1868 | 4.28 | cps |
| Ytterbium | 176-2 | 447 | 453 | 510 | 470 | 7.40 | cps |
| Yttrium | 89-1 | 21462517 | 21545970 | 21400463 | 21469650 | 0.34 | cps |
| Yttrium | 89-2 | 2088340 | 2038397 | 2056675 | 2061138 | 1.23 | cps |
| Zinc | 66-2 | 6492 | 6488 | 6512 | 6497 | 0.19 | cps |
| Zirconium | 90-1 | 16563 | 16960 | 16637 | 16720 | 1.26 | cps |
| Zirconium | 91-1 | 3527 | 3761 | 3751 | 3679 | 3.59 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:39:54 | DataFile Name : | 045AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1030 | 1043 | 990 | 1021 | 2.72 | cps |
| Antimony | 121-1 | 1503 | 1337 | 1310 | 1383 | 7.57 | cps |
| Arsenic | 75-2 | 2227 | 2277 | 2384 | 2296 | 3.49 | cps |
| Barium | 135-1 | 1883 | 1984 | 1947 | 1938 | 2.61 | cps |
| Barium | 137-1 | 3347 | 3217 | 3337 | 3300 | 2.19 | cps |
| Beryllium | 9-1 | -129 | -103 | -119 | -117 | -11.20 | cps |
| Bismuth | 209-1 | 6724421 | 6336734 | 6502531 | 6521229 | 2.98 | cps |
| Bismuth | 209-2 | 3165866 | 3159085 | 3200656 | 3175202 | 0.70 | cps |
| Bromine | 81-1 | 40458 | 38149 | 38312 | 38973 | 3.31 | cps |
| Cadmium | 108-1 | 37 | 23 | 40 | 33 | 26.47 | cps |
| Cadmium | 106-1 | 7455 | 7089 | 6982 | 7175 | 3.46 | cps |
| Cadmium | 111-1 | 5250 | 4996 | 4899 | 5048 | 3.59 | cps |
| Calcium | 43-1 | 100213 | 94165 | 94269 | 96216 | 3.60 | cps |
| Calcium | 44-1 | 2043579 | 1920197 | 1970478 | 1978084 | 3.14 | cps |
| Carbon | 12-1 | 1467241418 | 1427143712 | 1403866859 | 1432750663 | 2.24 | cps |
| Carbon | 12-2 | 8921873 | 8834822 | 8645277 | 8800657 | 1.61 | cps |
| Chlorine | 35-1 | 756191 | 753349 | 759076 | 756205 | 0.38 | cps |
| Chlorine | 35-2 | 4621 | 4137 | 4291 | 4350 | 5.68 | cps |
| Chromium | 52-2 | 15005 | 14754 | 14874 | 14878 | 0.84 | cps |
| Cobalt | 59-2 | 2014 | 1840 | 1850 | 1901 | 5.12 | cps |
| Copper | 63-2 | 4594 | 4641 | 4481 | 4572 | 1.80 | cps |
| Dysprosium | 156-1 | 10 | 10 | 10 | 10 | 0.00 | cps |
| Dysprosium | 156-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Erbium | 164-1 | 93 | 80 | 50 | 74 | 29.81 | cps |
| Erbium | 164-2 | 23 | 27 | 17 | 22 | 22.91 | cps |
| Gadolinium | 160-1 | 120 | 143 | 83 | 116 | 26.18 | cps |
| Gadolinium | 160-2 | 30 | 30 | 30 | 30 | 0.00 | cps |
| Holmium | 165-1 | 11586098 | 11240926 | 10894652 | 11240558 | 3.08 | cps |
| Holmium | 165-2 | 4623647 | 4663693 | 4586371 | 4624570 | 0.84 | cps |
| Indium | 115-1 | 10487830 | 10148426 | 10175690 | 10270649 | 1.84 | cps |
| Indium | 115-2 | 1274582 | 1269443 | 1269608 | 1271211 | 0.23 | cps |
| Iron | 54-2 | 1805693 | 1780647 | 1751291 | 1779210 | 1.53 | cps |
| Iron | 56-2 | 32415101 | 31998723 | 31362217 | 31925347 | 1.66 | cps |
| Iron | 57-2 | 763871 | 754979 | 756457 | 758436 | 0.63 | cps |
| Krypton | 83-1 | 440 | 423 | 433 | 432 | 1.94 | cps |
| Lead | 206-1 | 2274 | 1970 | 2204 | 2149 | 7.39 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:39:54 | DataFile Name : | 045AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 1827 | 1813 | 1870 | 1837 | 1.61 | cps |
| Lead | 208-1 | 8915 | 8098 | 8441 | 8485 | 4.83 | cps |
| Lithium | 6-1 | 4351627 | 4103665 | 4142301 | 4199198 | 3.18 | cps |
| Magnesium | 24-2 | 100574 | 99933 | 99507 | 100005 | 0.54 | cps |
| Manganese | 55-2 | 656127 | 653381 | 646268 | 651925 | 0.78 | cps |
| Molybdenum | 94-1 | 4274 | 3954 | 4031 | 4086 | 4.09 | cps |
| Molybdenum | 95-1 | 1803 | 1707 | 1727 | 1746 | 2.92 | cps |
| Molybdenum | 96-1 | 2804 | 2614 | 2650 | 2689 | 3.75 | cps |
| Molybdenum | 97-1 | 1090 | 1017 | 1063 | 1057 | 3.51 | cps |
| Molybdenum | 98-1 | 2634 | 2484 | 2617 | 2578 | 3.19 | cps |
| Neodymium | 150-1 | 20 | 10 | 27 | 19 | 44.42 | cps |
| Neodymium | 150-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 3777 | 3874 | 4031 | 3894 | 3.28 | cps |
| Phosphorus | 31-2 | 323 | 283 | 263 | 290 | 10.53 | cps |
| Potassium | 39-2 | 467902 | 474491 | 468743 | 470379 | 0.76 | cps |
| Rhodium | 103-1 | 10517493 | 9863084 | 9967307 | 10115961 | 3.48 | cps |
| Rhodium | 103-2 | 4515391 | 4575233 | 4440532 | 4510385 | 1.50 | cps |
| Scandium | 45-1 | 7962046 | 7464992 | 7320659 | 7582566 | 4.44 | cps |
| Scandium | 45-2 | 190509 | 188828 | 192171 | 190503 | 0.88 | cps |
| Selenium | 82-1 | 1650 | 1814 | 1884 | 1782 | 6.72 | cps |
| Selenium | 77-2 | 40 | 40 | 40 | 40 | 0.00 | cps |
| Selenium | 78-2 | 153 | 193 | 203 | 183 | 14.43 | cps |
| Silicon | 28-1 | 8134058 | 7800575 | 7900167 | 7944933 | 2.15 | cps |
| Silver | 107-1 | 227 | 170 | 213 | 203 | 14.57 | cps |
| Silver | 109-1 | 107 | 110 | 157 | 124 | 22.46 | cps |
| Sodium | 23-2 | 2081156 | 2047179 | 2011644 | 2046660 | 1.70 | cps |
| Strontium | 86-1 | 23286 | 21754 | 21881 | 22307 | 3.81 | cps |
| Strontium | 88-1 | 194284 | 183666 | 184577 | 187509 | 3.14 | cps |
| Sulfur | 34-1 | 962580 | 913160 | 926496 | 934079 | 2.74 | cps |
| Terbium | 159-1 | 11960266 | 11626374 | 11469474 | 11685371 | 2.15 | cps |
| Terbium | 159-2 | 4541611 | 4471153 | 4464639 | 4492468 | 0.95 | cps |
| Thallium | 203-1 | 700 | 557 | 623 | 627 | 11.45 | cps |
| Thallium | 205-1 | 1477 | 1407 | 1347 | 1410 | 4.61 | cps |
| Tin | 118-1 | 5331 | 5034 | 5041 | 5135 | 3.30 | cps |
| Titanium | 47-1 | 757 | 800 | 717 | 758 | 5.50 | cps |
| Uranium | 238-1 | 123 | 147 | 190 | 153 | 22.06 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-01DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32725DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:39:54 | DataFile Name : | 045AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 187 | 160 | 160 | 169 | 9.12 | cps |
| Ytterbium | 172-1 | 107 | 67 | 77 | 83 | 24.98 | cps |
| Ytterbium | 172-2 | 20 | 17 | 10 | 16 | 32.73 | cps |
| Ytterbium | 176-1 | 1637 | 1503 | 1587 | 1576 | 4.28 | cps |
| Ytterbium | 176-2 | 380 | 360 | 390 | 377 | 4.06 | cps |
| Yttrium | 89-1 | 19987878 | 18907901 | 19240098 | 19378625 | 2.85 | cps |
| Yttrium | 89-2 | 1860771 | 1826090 | 1816441 | 1834434 | 1.27 | cps |
| Zinc | 66-2 | 9510 | 10050 | 9757 | 9772 | 2.77 | cps |
| Zirconium | 90-1 | 9050 | 8820 | 8756 | 8875 | 1.74 | cps |
| Zirconium | 91-1 | 1877 | 1830 | 1910 | 1872 | 2.15 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:43:27 | DataFile Name : | 046AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2354 | 2224 | 2354 | 2310 | 3.25 | cps |
| Antimony | 121-1 | 1483 | 1340 | 1460 | 1428 | 5.39 | cps |
| Arsenic | 75-2 | 2484 | 2494 | 2617 | 2531 | 2.93 | cps |
| Barium | 135-1 | 3674 | 3387 | 3537 | 3533 | 4.06 | cps |
| Barium | 137-1 | 5971 | 5745 | 5918 | 5878 | 2.02 | cps |
| Beryllium | 9-1 | -41 | -37 | -40 | -39 | -4.79 | cps |
| Bismuth | 209-1 | 6634066 | 6554187 | 6632639 | 6606964 | 0.69 | cps |
| Bismuth | 209-2 | 3327302 | 3245066 | 3281158 | 3284508 | 1.25 | cps |
| Bromine | 81-1 | 39379 | 40050 | 40184 | 39871 | 1.08 | cps |
| Cadmium | 108-1 | 33 | 47 | 27 | 36 | 28.64 | cps |
| Cadmium | 106-1 | 7015 | 7172 | 6945 | 7044 | 1.65 | cps |
| Cadmium | 111-1 | 4921 | 5054 | 4910 | 4962 | 1.62 | cps |
| Calcium | 43-1 | 60704 | 61464 | 61678 | 61282 | 0.84 | cps |
| Calcium | 44-1 | 1497966 | 1474799 | 1496324 | 1489696 | 0.87 | cps |
| Carbon | 12-1 | 1796341787 | 1824565999 | 1824805359 | 1815237715 | 0.90 | cps |
| Carbon | 12-2 | 11635166 | 11685738 | 11482355 | 11601086 | 0.91 | cps |
| Chlorine | 35-1 | 590296 | 595127 | 596125 | 593849 | 0.52 | cps |
| Chlorine | 35-2 | 3464 | 3447 | 3340 | 3417 | 1.96 | cps |
| Chromium | 52-2 | 16657 | 16089 | 15485 | 16077 | 3.64 | cps |
| Cobalt | 59-2 | 603 | 640 | 687 | 643 | 6.49 | cps |
| Copper | 63-2 | 5028 | 4981 | 4924 | 4978 | 1.04 | cps |
| Dysprosium | 156-1 | 83 | 67 | 77 | 76 | 11.10 | cps |
| Dysprosium | 156-2 | 30 | 33 | 37 | 33 | 10.01 | cps |
| Erbium | 164-1 | 137 | 97 | 127 | 120 | 17.35 | cps |
| Erbium | 164-2 | 33 | 40 | 43 | 39 | 13.09 | cps |
| Gadolinium | 160-1 | 130 | 170 | 137 | 146 | 14.72 | cps |
| Gadolinium | 160-2 | 57 | 40 | 30 | 42 | 31.91 | cps |
| Holmium | 165-1 | 11396450 | 11249778 | 11342472 | 11329566 | 0.65 | cps |
| Holmium | 165-2 | 4842498 | 4824895 | 4729988 | 4799127 | 1.26 | cps |
| Indium | 115-1 | 10571823 | 10405950 | 10712270 | 10563348 | 1.45 | cps |
| Indium | 115-2 | 1316452 | 1321895 | 1328654 | 1322334 | 0.46 | cps |
| Iron | 54-2 | 1803926 | 1760924 | 1781026 | 1781959 | 1.21 | cps |
| Iron | 56-2 | 32785285 | 31696761 | 32086514 | 32189520 | 1.71 | cps |
| Iron | 57-2 | 773278 | 776611 | 765128 | 771672 | 0.77 | cps |
| Krypton | 83-1 | 507 | 403 | 393 | 434 | 14.44 | cps |
| Lead | 206-1 | 3891 | 3871 | 3791 | 3851 | 1.37 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:43:27 | DataFile Name : | 046AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 3491 | 3557 | 3224 | 3424 | 5.15 | cps |
| Lead | 208-1 | 15537 | 15334 | 14787 | 15219 | 2.55 | cps |
| Lithium | 6-1 | 4162343 | 4174978 | 4257361 | 4198227 | 1.23 | cps |
| Magnesium | 24-2 | 83135 | 83937 | 82891 | 83321 | 0.66 | cps |
| Manganese | 55-2 | 676159 | 666079 | 661253 | 667830 | 1.14 | cps |
| Molybdenum | 94-1 | 3457 | 3891 | 3914 | 3754 | 6.85 | cps |
| Molybdenum | 95-1 | 1567 | 1480 | 1723 | 1590 | 7.76 | cps |
| Molybdenum | 96-1 | 2397 | 2624 | 2454 | 2491 | 4.74 | cps |
| Molybdenum | 97-1 | 873 | 893 | 930 | 899 | 3.20 | cps |
| Molybdenum | 98-1 | 2404 | 2487 | 2364 | 2418 | 2.60 | cps |
| Neodymium | 150-1 | 70 | 113 | 60 | 81 | 34.96 | cps |
| Neodymium | 150-2 | 37 | 20 | 27 | 28 | 30.20 | cps |
| Nickel | 60-2 | 4244 | 4184 | 3981 | 4136 | 3.34 | cps |
| Phosphorus | 31-2 | 240 | 267 | 260 | 256 | 5.43 | cps |
| Potassium | 39-2 | 63097 | 64272 | 62819 | 63396 | 1.22 | cps |
| Rhodium | 103-1 | 10268103 | 10196258 | 10515946 | 10326769 | 1.62 | cps |
| Rhodium | 103-2 | 4739725 | 4646662 | 4594871 | 4660419 | 1.57 | cps |
| Scandium | 45-1 | 7772339 | 7798654 | 7604315 | 7725102 | 1.36 | cps |
| Scandium | 45-2 | 197050 | 199841 | 197941 | 198277 | 0.72 | cps |
| Selenium | 82-1 | 1667 | 2107 | 2190 | 1988 | 14.15 | cps |
| Selenium | 77-2 | 67 | 57 | 30 | 51 | 37.09 | cps |
| Selenium | 78-2 | 203 | 243 | 193 | 213 | 12.40 | cps |
| Silicon | 28-1 | 9585739 | 9778149 | 9878917 | 9747602 | 1.53 | cps |
| Silver | 107-1 | 193 | 207 | 203 | 201 | 3.45 | cps |
| Silver | 109-1 | 90 | 133 | 113 | 112 | 19.33 | cps |
| Sodium | 23-2 | 1195842 | 1227006 | 1197644 | 1206831 | 1.45 | cps |
| Strontium | 86-1 | 15038 | 14921 | 15465 | 15142 | 1.89 | cps |
| Strontium | 88-1 | 127152 | 127331 | 126849 | 127111 | 0.19 | cps |
| Sulfur | 34-1 | 918616 | 921424 | 878844 | 906295 | 2.63 | cps |
| Terbium | 159-1 | 11921698 | 11833066 | 11931562 | 11895442 | 0.46 | cps |
| Terbium | 159-2 | 4674479 | 4701377 | 4753988 | 4709948 | 0.86 | cps |
| Thallium | 203-1 | 527 | 487 | 487 | 500 | 4.62 | cps |
| Thallium | 205-1 | 1277 | 1163 | 1150 | 1197 | 5.82 | cps |
| Tin | 118-1 | 5858 | 5711 | 5955 | 5841 | 2.10 | cps |
| Titanium | 47-1 | 1217 | 1363 | 1240 | 1273 | 6.19 | cps |
| Uranium | 238-1 | 223 | 220 | 303 | 249 | 18.96 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL3X50 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 50 |
| Date & Time Acquired : | 2025-04-07 14:43:27 | DataFile Name : | 046AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 203 | 267 | 227 | 232 | 13.79 | cps |
| Ytterbium | 172-1 | 80 | 73 | 73 | 76 | 5.10 | cps |
| Ytterbium | 172-2 | 50 | 37 | 33 | 40 | 22.05 | cps |
| Ytterbium | 176-1 | 1707 | 1490 | 1530 | 1576 | 7.32 | cps |
| Ytterbium | 176-2 | 350 | 387 | 473 | 403 | 15.70 | cps |
| Yttrium | 89-1 | 20013272 | 19827486 | 19948471 | 19929743 | 0.47 | cps |
| Yttrium | 89-2 | 1893459 | 1896370 | 1924628 | 1904819 | 0.90 | cps |
| Zinc | 66-2 | 4861 | 5184 | 5218 | 5088 | 3.87 | cps |
| Zirconium | 90-1 | 7686 | 7939 | 8002 | 7876 | 2.13 | cps |
| Zirconium | 91-1 | 1683 | 1580 | 1763 | 1676 | 5.49 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL4X100 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 100 |
| Date & Time Acquired : | 2025-04-07 14:52:05 | DataFile Name : | 048AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1583 | 1423 | 1400 | 1469 | 6.79 | cps |
| Antimony | 121-1 | 837 | 753 | 693 | 761 | 9.46 | cps |
| Arsenic | 75-2 | 793 | 703 | 770 | 756 | 6.18 | cps |
| Barium | 135-1 | 1753 | 1850 | 1837 | 1813 | 2.89 | cps |
| Barium | 137-1 | 3234 | 3434 | 3074 | 3247 | 5.56 | cps |
| Beryllium | 9-1 | 40 | 30 | 75 | 49 | 49.25 | cps |
| Bismuth | 209-1 | 6605512 | 6753562 | 6608990 | 6656021 | 1.27 | cps |
| Bismuth | 209-2 | 3321467 | 3329608 | 3263043 | 3304706 | 1.10 | cps |
| Bromine | 81-1 | 37386 | 38606 | 37353 | 37782 | 1.89 | cps |
| Cadmium | 108-1 | 63 | 23 | 23 | 37 | 62.99 | cps |
| Cadmium | 106-1 | 7212 | 7289 | 7205 | 7235 | 0.64 | cps |
| Cadmium | 111-1 | 5051 | 5122 | 5071 | 5081 | 0.73 | cps |
| Calcium | 43-1 | 31952 | 31778 | 32560 | 32097 | 1.28 | cps |
| Calcium | 44-1 | 697241 | 706067 | 707055 | 703454 | 0.77 | cps |
| Carbon | 12-1 | 859788361 | 902659827 | 907366333 | 889938173 | 2.95 | cps |
| Carbon | 12-2 | 5779905 | 5805597 | 5836448 | 5807317 | 0.49 | cps |
| Chlorine | 35-1 | 529207 | 535612 | 534452 | 533091 | 0.64 | cps |
| Chlorine | 35-2 | 2944 | 3134 | 2944 | 3007 | 3.65 | cps |
| Chromium | 52-2 | 14808 | 15282 | 15041 | 15044 | 1.57 | cps |
| Cobalt | 59-2 | 477 | 527 | 417 | 473 | 11.64 | cps |
| Copper | 63-2 | 4414 | 4621 | 4271 | 4435 | 3.97 | cps |
| Dysprosium | 156-1 | 43 | 43 | 33 | 40 | 14.43 | cps |
| Dysprosium | 156-2 | 10 | 17 | 17 | 14 | 26.66 | cps |
| Erbium | 164-1 | 113 | 77 | 97 | 96 | 19.21 | cps |
| Erbium | 164-2 | 40 | 37 | 27 | 34 | 20.14 | cps |
| Gadolinium | 160-1 | 130 | 110 | 107 | 116 | 10.92 | cps |
| Gadolinium | 160-2 | 37 | 50 | 33 | 40 | 22.05 | cps |
| Holmium | 165-1 | 11357679 | 11457242 | 11567346 | 11460756 | 0.92 | cps |
| Holmium | 165-2 | 4794786 | 4739445 | 4778439 | 4770890 | 0.60 | cps |
| Indium | 115-1 | 10570150 | 10595003 | 10433380 | 10532845 | 0.83 | cps |
| Indium | 115-2 | 1319913 | 1315453 | 1318556 | 1317974 | 0.17 | cps |
| Iron | 54-2 | 848914 | 846221 | 822047 | 839061 | 1.76 | cps |
| Iron | 56-2 | 16035967 | 16299677 | 15821089 | 16052245 | 1.49 | cps |
| Iron | 57-2 | 383806 | 388837 | 379013 | 383886 | 1.28 | cps |
| Krypton | 83-1 | 467 | 403 | 387 | 419 | 10.08 | cps |
| Lead | 206-1 | 3084 | 2960 | 2917 | 2987 | 2.90 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL4X100 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 100 |
| Date & Time Acquired : | 2025-04-07 14:52:05 | DataFile Name : | 048AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2494 | 2317 | 2427 | 2412 | 3.70 | cps |
| Lead | 208-1 | 11565 | 11072 | 11245 | 11294 | 2.22 | cps |
| Lithium | 6-1 | 4210890 | 4195783 | 4174164 | 4193612 | 0.44 | cps |
| Magnesium | 24-2 | 41242 | 42442 | 41646 | 41776 | 1.46 | cps |
| Manganese | 55-2 | 333360 | 332784 | 324449 | 330197 | 1.51 | cps |
| Molybdenum | 94-1 | 3554 | 3647 | 3671 | 3624 | 1.70 | cps |
| Molybdenum | 95-1 | 1010 | 1103 | 1177 | 1097 | 7.62 | cps |
| Molybdenum | 96-1 | 1870 | 1873 | 1757 | 1833 | 3.62 | cps |
| Molybdenum | 97-1 | 640 | 720 | 717 | 692 | 6.54 | cps |
| Molybdenum | 98-1 | 1703 | 1800 | 1803 | 1769 | 3.21 | cps |
| Neodymium | 150-1 | 67 | 60 | 43 | 57 | 21.21 | cps |
| Neodymium | 150-2 | 20 | 17 | 27 | 21 | 24.12 | cps |
| Nickel | 60-2 | 4144 | 4084 | 4121 | 4116 | 0.74 | cps |
| Phosphorus | 31-2 | 207 | 240 | 270 | 239 | 13.26 | cps |
| Potassium | 39-2 | 48852 | 49816 | 48434 | 49034 | 1.44 | cps |
| Rhodium | 103-1 | 10470152 | 10213516 | 10238993 | 10307554 | 1.37 | cps |
| Rhodium | 103-2 | 4634603 | 4645962 | 4647625 | 4642730 | 0.15 | cps |
| Scandium | 45-1 | 7645998 | 7618195 | 7674278 | 7646157 | 0.37 | cps |
| Scandium | 45-2 | 197884 | 195917 | 196784 | 196862 | 0.50 | cps |
| Selenium | 82-1 | 800 | 1000 | 1050 | 950 | 13.92 | cps |
| Selenium | 77-2 | 40 | 13 | 13 | 22 | 69.30 | cps |
| Selenium | 78-2 | 120 | 123 | 187 | 143 | 26.21 | cps |
| Silicon | 28-1 | 4955819 | 5177309 | 5228311 | 5120480 | 2.83 | cps |
| Silver | 107-1 | 157 | 223 | 223 | 201 | 19.14 | cps |
| Silver | 109-1 | 123 | 117 | 87 | 109 | 17.94 | cps |
| Sodium | 23-2 | 612263 | 612115 | 609568 | 611315 | 0.25 | cps |
| Strontium | 86-1 | 7959 | 7856 | 7909 | 7908 | 0.65 | cps |
| Strontium | 88-1 | 64036 | 63380 | 64669 | 64028 | 1.01 | cps |
| Sulfur | 34-1 | 903777 | 952448 | 928247 | 928157 | 2.62 | cps |
| Terbium | 159-1 | 11785831 | 11671452 | 11721116 | 11726133 | 0.49 | cps |
| Terbium | 159-2 | 4644478 | 4620664 | 4734188 | 4666443 | 1.28 | cps |
| Thallium | 203-1 | 410 | 377 | 443 | 410 | 8.13 | cps |
| Thallium | 205-1 | 1023 | 993 | 967 | 994 | 2.85 | cps |
| Tin | 118-1 | 5221 | 5144 | 5088 | 5151 | 1.30 | cps |
| Titanium | 47-1 | 970 | 833 | 887 | 897 | 7.68 | cps |
| Uranium | 238-1 | 217 | 160 | 177 | 184 | 15.79 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | Q1700-02DL4X100 | Instrumnet Name : | P8 |
| Client Sample ID : | 32525DL | Dilution Factor : | 100 |
| Date & Time Acquired : | 2025-04-07 14:52:05 | DataFile Name : | 048AREF.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 197 | 137 | 197 | 177 | 19.61 | cps |
| Ytterbium | 172-1 | 50 | 97 | 87 | 78 | 31.59 | cps |
| Ytterbium | 172-2 | 23 | 57 | 50 | 43 | 40.71 | cps |
| Ytterbium | 176-1 | 1543 | 1613 | 1573 | 1577 | 2.23 | cps |
| Ytterbium | 176-2 | 330 | 390 | 393 | 371 | 9.60 | cps |
| Yttrium | 89-1 | 19486737 | 19622869 | 19500602 | 19536736 | 0.38 | cps |
| Yttrium | 89-2 | 1902816 | 1913745 | 1920558 | 1912373 | 0.47 | cps |
| Zinc | 66-2 | 4507 | 4581 | 4767 | 4619 | 2.90 | cps |
| Zirconium | 90-1 | 8196 | 8556 | 8039 | 8264 | 3.21 | cps |
| Zirconium | 91-1 | 1917 | 1930 | 1797 | 1881 | 3.90 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:00:29 | DataFile Name : | 050CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8978463 | 8838402 | 8952557 | 8923141 | 0.84 | cps |
| Antimony | 121-1 | 16901618 | 17217982 | 17238134 | 17119245 | 1.10 | cps |
| Arsenic | 75-2 | 455339 | 460882 | 458023 | 458081 | 0.61 | cps |
| Barium | 135-1 | 20496955 | 20480481 | 21197932 | 20725122 | 1.98 | cps |
| Barium | 137-1 | 35423276 | 35343167 | 35366290 | 35377578 | 0.12 | cps |
| Beryllium | 9-1 | 4285979 | 4314358 | 4382385 | 4327574 | 1.14 | cps |
| Bismuth | 209-1 | 5223630 | 5301104 | 5288498 | 5271077 | 0.79 | cps |
| Bismuth | 209-2 | 2541882 | 2580635 | 2571304 | 2564607 | 0.79 | cps |
| Bromine | 81-1 | 32865 | 33089 | 32461 | 32805 | 0.97 | cps |
| Cadmium | 108-1 | 335567 | 335472 | 332312 | 334450 | 0.55 | cps |
| Cadmium | 106-1 | 473931 | 480971 | 481496 | 478799 | 0.88 | cps |
| Cadmium | 111-1 | 4358454 | 4333848 | 4403800 | 4365368 | 0.81 | cps |
| Calcium | 43-1 | 29700497 | 30376340 | 30052638 | 30043158 | 1.13 | cps |
| Calcium | 44-1 | 484518419 | 499556353 | 484836886 | 489637219 | 1.75 | cps |
| Carbon | 12-1 | 22503907 | 21747121 | 21920570 | 22057199 | 1.80 | cps |
| Carbon | 12-2 | 160145 | 160458 | 159484 | 160029 | 0.31 | cps |
| Chlorine | 35-1 | 473202 | 478775 | 483880 | 478619 | 1.12 | cps |
| Chlorine | 35-2 | 2990 | 2827 | 2844 | 2887 | 3.11 | cps |
| Chromium | 52-2 | 5051470 | 5056116 | 5101899 | 5069828 | 0.55 | cps |
| Cobalt | 59-2 | 8617713 | 8673347 | 8587633 | 8626231 | 0.50 | cps |
| Copper | 63-2 | 76261722 | 77820527 | 78160031 | 77414093 | 1.31 | cps |
| Dysprosium | 156-1 | 890 | 887 | 863 | 880 | 1.65 | cps |
| Dysprosium | 156-2 | 257 | 240 | 223 | 240 | 6.94 | cps |
| Erbium | 164-1 | 733 | 810 | 943 | 829 | 12.82 | cps |
| Erbium | 164-2 | 323 | 330 | 317 | 323 | 2.06 | cps |
| Gadolinium | 160-1 | 747 | 697 | 660 | 701 | 6.21 | cps |
| Gadolinium | 160-2 | 263 | 257 | 327 | 282 | 13.69 | cps |
| Holmium | 165-1 | 10095029 | 9964905 | 9974529 | 10011488 | 0.72 | cps |
| Holmium | 165-2 | 4151457 | 4193794 | 4169097 | 4171449 | 0.51 | cps |
| Indium | 115-1 | 8323499 | 8358700 | 8239506 | 8307235 | 0.74 | cps |
| Indium | 115-2 | 1015614 | 1005690 | 1014825 | 1012043 | 0.55 | cps |
| Iron | 54-2 | 48786846 | 49598701 | 49404183 | 49263243 | 0.86 | cps |
| Iron | 56-2 | 895197320 | 901200413 | 915970200 | 904122644 | 1.18 | cps |
| Iron | 57-2 | 22884151 | 22943661 | 22997845 | 22941886 | 0.25 | cps |
| Krypton | 83-1 | 483 | 483 | 477 | 481 | 0.80 | cps |
| Lead | 206-1 | 53522469 | 54448406 | 53408148 | 53793008 | 1.06 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:00:29 | DataFile Name : | 050CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 45611221 | 46259041 | 45410289 | 45760184 | 0.97 | cps |
| Lead | 208-1 | 208839875 | 213191489 | 210863539 | 210964967 | 1.03 | cps |
| Lithium | 6-1 | 3552529 | 3563818 | 3506882 | 3541076 | 0.85 | cps |
| Magnesium | 24-2 | 148682584 | 148603874 | 149719648 | 149002036 | 0.42 | cps |
| Manganese | 55-2 | 23716734 | 24051984 | 24117470 | 23962062 | 0.90 | cps |
| Molybdenum | 94-1 | 63882897 | 64740324 | 64077526 | 64233582 | 0.70 | cps |
| Molybdenum | 95-1 | 92439949 | 92705472 | 92447699 | 92531040 | 0.16 | cps |
| Molybdenum | 96-1 | 100570219 | 102556012 | 101110978 | 101412403 | 1.01 | cps |
| Molybdenum | 97-1 | 56847679 | 57846116 | 56562101 | 57085299 | 1.18 | cps |
| Molybdenum | 98-1 | 150505004 | 148189254 | 147475101 | 148723120 | 1.07 | cps |
| Neodymium | 150-1 | 1670 | 1713 | 1587 | 1657 | 3.89 | cps |
| Neodymium | 150-2 | 160 | 190 | 133 | 161 | 17.59 | cps |
| Nickel | 60-2 | 2367957 | 2379341 | 2383753 | 2377017 | 0.34 | cps |
| Phosphorus | 31-2 | 91261 | 92029 | 91751 | 91680 | 0.42 | cps |
| Potassium | 39-2 | 55447218 | 55000036 | 55982489 | 55476581 | 0.89 | cps |
| Rhodium | 103-1 | 7892699 | 7928552 | 7705075 | 7842108 | 1.53 | cps |
| Rhodium | 103-2 | 3604633 | 3628734 | 3549096 | 3594154 | 1.14 | cps |
| Scandium | 45-1 | 6450367 | 6463546 | 6392530 | 6435481 | 0.59 | cps |
| Scandium | 45-2 | 169017 | 169659 | 171409 | 170028 | 0.73 | cps |
| Selenium | 82-1 | 269766 | 269224 | 270908 | 269966 | 0.32 | cps |
| Selenium | 77-2 | 6728 | 6752 | 6775 | 6752 | 0.35 | cps |
| Selenium | 78-2 | 22658 | 22588 | 22528 | 22592 | 0.29 | cps |
| Silicon | 28-1 | 84412864 | 83464015 | 82374960 | 83417280 | 1.22 | cps |
| Silver | 107-1 | 21075659 | 21426741 | 21604916 | 21369105 | 1.26 | cps |
| Silver | 109-1 | 20125319 | 20346502 | 20429553 | 20300458 | 0.77 | cps |
| Sodium | 23-2 | 313643542 | 309552355 | 311402382 | 311532760 | 0.66 | cps |
| Strontium | 86-1 | 6107850 | 6182286 | 6013070 | 6101069 | 1.39 | cps |
| Strontium | 88-1 | 52128674 | 53384119 | 53216076 | 52909623 | 1.29 | cps |
| Sulfur | 34-1 | 2335748 | 2304917 | 2294088 | 2311584 | 0.94 | cps |
| Terbium | 159-1 | 10255742 | 10341961 | 10539351 | 10379018 | 1.40 | cps |
| Terbium | 159-2 | 4096912 | 4120434 | 4047112 | 4088153 | 0.92 | cps |
| Thallium | 203-1 | 13592846 | 13804899 | 13711470 | 13703072 | 0.78 | cps |
| Thallium | 205-1 | 31896294 | 32730590 | 32250880 | 32292588 | 1.30 | cps |
| Tin | 118-1 | 13803390 | 14059730 | 13952324 | 13938482 | 0.92 | cps |
| Titanium | 47-1 | 27828172 | 27974349 | 27602330 | 27801617 | 0.67 | cps |
| Uranium | 238-1 | 40075269 | 40249987 | 40624508 | 40316588 | 0.70 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:00:29 | DataFile Name : | 050CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 3910523 | 3954160 | 3971951 | 3945545 | 0.80 | cps |
| Ytterbium | 172-1 | 1180 | 1147 | 1150 | 1159 | 1.58 | cps |
| Ytterbium | 172-2 | 620 | 557 | 487 | 554 | 12.03 | cps |
| Ytterbium | 176-1 | 69592 | 68754 | 69032 | 69126 | 0.62 | cps |
| Ytterbium | 176-2 | 26888 | 27542 | 27706 | 27378 | 1.58 | cps |
| Yttrium | 89-1 | 16873043 | 16933124 | 16551406 | 16785858 | 1.22 | cps |
| Yttrium | 89-2 | 1618156 | 1599658 | 1630101 | 1615972 | 0.95 | cps |
| Zinc | 66-2 | 8787215 | 8993889 | 8923066 | 8901390 | 1.18 | cps |
| Zirconium | 90-1 | 32840089 | 32914080 | 32815245 | 32856471 | 0.16 | cps |
| Zirconium | 91-1 | 7255921 | 7225739 | 7364918 | 7282193 | 1.01 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:13:18 | DataFile Name : | 051CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 510 | 457 | 460 | 476 | 6.28 | cps |
| Antimony | 121-1 | 1010 | 823 | 813 | 882 | 12.56 | cps |
| Arsenic | 75-2 | 23 | 17 | 17 | 19 | 20.36 | cps |
| Barium | 135-1 | 450 | 473 | 387 | 437 | 10.27 | cps |
| Barium | 137-1 | 777 | 803 | 727 | 769 | 5.06 | cps |
| Beryllium | 9-1 | 246 | 259 | 259 | 255 | 2.89 | cps |
| Bismuth | 209-1 | 6563823 | 6545588 | 6325457 | 6478289 | 2.05 | cps |
| Bismuth | 209-2 | 3178028 | 3180728 | 3167048 | 3175268 | 0.23 | cps |
| Bromine | 81-1 | 34900 | 34997 | 34486 | 34794 | 0.78 | cps |
| Cadmium | 108-1 | 27 | 20 | 17 | 21 | 24.12 | cps |
| Cadmium | 106-1 | 6518 | 6625 | 6738 | 6627 | 1.66 | cps |
| Cadmium | 111-1 | 4654 | 4703 | 4855 | 4738 | 2.21 | cps |
| Calcium | 43-1 | 4061 | 4101 | 3977 | 4046 | 1.56 | cps |
| Calcium | 44-1 | 94903 | 94095 | 93636 | 94211 | 0.68 | cps |
| Carbon | 12-1 | 14835481 | 14524754 | 14617581 | 14659272 | 1.09 | cps |
| Carbon | 12-2 | 101072 | 100293 | 101034 | 100799 | 0.44 | cps |
| Chlorine | 35-1 | 366289 | 368396 | 370749 | 368478 | 0.61 | cps |
| Chlorine | 35-2 | 2084 | 1937 | 1970 | 1997 | 3.85 | cps |
| Chromium | 52-2 | 14070 | 13887 | 13947 | 13968 | 0.67 | cps |
| Cobalt | 59-2 | 427 | 453 | 333 | 404 | 15.58 | cps |
| Copper | 63-2 | 4434 | 4587 | 4374 | 4465 | 2.46 | cps |
| Dysprosium | 156-1 | 17 | 23 | 23 | 21 | 18.21 | cps |
| Dysprosium | 156-2 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Erbium | 164-1 | 77 | 80 | 100 | 86 | 14.75 | cps |
| Erbium | 164-2 | 27 | 37 | 27 | 30 | 19.24 | cps |
| Gadolinium | 160-1 | 127 | 113 | 93 | 111 | 15.10 | cps |
| Gadolinium | 160-2 | 23 | 27 | 13 | 21 | 32.88 | cps |
| Holmium | 165-1 | 11096733 | 10915222 | 10794538 | 10935497 | 1.39 | cps |
| Holmium | 165-2 | 4589641 | 4531289 | 4522108 | 4547679 | 0.81 | cps |
| Indium | 115-1 | 10393964 | 10151718 | 10313663 | 10286448 | 1.20 | cps |
| Indium | 115-2 | 1256818 | 1256000 | 1257713 | 1256844 | 0.07 | cps |
| Iron | 54-2 | 4111 | 4164 | 4111 | 4128 | 0.75 | cps |
| Iron | 56-2 | 63159 | 62961 | 61810 | 62643 | 1.16 | cps |
| Iron | 57-2 | 1457 | 1450 | 1583 | 1497 | 5.02 | cps |
| Krypton | 83-1 | 377 | 420 | 367 | 388 | 7.31 | cps |
| Lead | 206-1 | 2930 | 2907 | 2877 | 2905 | 0.92 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:13:18 | DataFile Name : | 051CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 207-1 | 2640 | 2717 | 2224 | 2527 | 10.51 | cps |
| Lead | 208-1 | 11909 | 11772 | 11112 | 11598 | 3.67 | cps |
| Lithium | 6-1 | 4091813 | 4069986 | 4031570 | 4064457 | 0.75 | cps |
| Magnesium | 24-2 | 1620 | 1670 | 1803 | 1698 | 5.58 | cps |
| Manganese | 55-2 | 1967 | 2204 | 2187 | 2119 | 6.23 | cps |
| Molybdenum | 94-1 | 1777 | 1640 | 1657 | 1691 | 4.41 | cps |
| Molybdenum | 95-1 | 1887 | 1610 | 1700 | 1732 | 8.15 | cps |
| Molybdenum | 96-1 | 2294 | 2040 | 2057 | 2130 | 6.65 | cps |
| Molybdenum | 97-1 | 1210 | 1020 | 1060 | 1097 | 9.13 | cps |
| Molybdenum | 98-1 | 2854 | 2950 | 2734 | 2846 | 3.81 | cps |
| Neodymium | 150-1 | 10 | 10 | 17 | 12 | 31.50 | cps |
| Neodymium | 150-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 3627 | 3514 | 3500 | 3547 | 1.96 | cps |
| Phosphorus | 31-2 | 227 | 170 | 177 | 191 | 16.21 | cps |
| Potassium | 39-2 | 38150 | 36991 | 37285 | 37475 | 1.61 | cps |
| Rhodium | 103-1 | 9856446 | 9719047 | 9846053 | 9807182 | 0.78 | cps |
| Rhodium | 103-2 | 4454464 | 4390736 | 4394202 | 4413134 | 0.81 | cps |
| Scandium | 45-1 | 7302134 | 7315817 | 7268956 | 7295636 | 0.33 | cps |
| Scandium | 45-2 | 185355 | 182290 | 182264 | 183303 | 0.97 | cps |
| Selenium | 82-1 | 130 | 17 | 173 | 107 | 75.84 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 27 | 43 | 43 | 38 | 25.46 | cps |
| Silicon | 28-1 | 672838 | 659726 | 666280 | 666281 | 0.98 | cps |
| Silver | 107-1 | 647 | 687 | 540 | 624 | 12.14 | cps |
| Silver | 109-1 | 413 | 460 | 457 | 443 | 5.87 | cps |
| Sodium | 23-2 | 105461 | 103944 | 104094 | 104500 | 0.80 | cps |
| Strontium | 86-1 | 933 | 877 | 920 | 910 | 3.26 | cps |
| Strontium | 88-1 | 2567 | 2424 | 2397 | 2462 | 3.71 | cps |
| Sulfur | 34-1 | 810960 | 816853 | 815333 | 814382 | 0.38 | cps |
| Terbium | 159-1 | 11764925 | 11638052 | 11522385 | 11641787 | 1.04 | cps |
| Terbium | 159-2 | 4476208 | 4529804 | 4399510 | 4468507 | 1.47 | cps |
| Thallium | 203-1 | 747 | 700 | 730 | 726 | 3.26 | cps |
| Thallium | 205-1 | 1720 | 1640 | 1733 | 1698 | 2.97 | cps |
| Tin | 118-1 | 4711 | 4661 | 4804 | 4725 | 1.54 | cps |
| Titanium | 47-1 | 780 | 837 | 707 | 774 | 8.42 | cps |
| Uranium | 238-1 | 743 | 687 | 707 | 712 | 4.04 | cps |

Reviewed By:mohan
On:4/9/2025 12:00:20 PM
Inst Id :P8
LB :LB135332

| | | | |
|---|---|---|---|
| LB Number : | LB135332 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P8 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2025-04-07 15:13:18 | DataFile Name : | 051CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Vanadium | 51-2 | 123 | 117 | 100 | 113 | 10.61 | cps |
| Ytterbium | 172-1 | 53 | 47 | 87 | 62 | 34.44 | cps |
| Ytterbium | 172-2 | 20 | 13 | 23 | 19 | 26.96 | cps |
| Ytterbium | 176-1 | 1403 | 1547 | 1533 | 1495 | 5.30 | cps |
| Ytterbium | 176-2 | 377 | 433 | 367 | 392 | 9.17 | cps |
| Yttrium | 89-1 | 19292136 | 18766538 | 18727444 | 18928706 | 1.67 | cps |
| Yttrium | 89-2 | 1793813 | 1788054 | 1745707 | 1775858 | 1.48 | cps |
| Zinc | 66-2 | 4204 | 4214 | 4194 | 4204 | 0.24 | cps |
| Zirconium | 90-1 | 1590 | 1490 | 1610 | 1563 | 4.11 | cps |
| Zirconium | 91-1 | 287 | 310 | 323 | 307 | 6.05 | cps |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

PB167465

**SOP ID :** M3010A-Digestion-17

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID:** ICP A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #1 2. N/A

**Start Digest Date:** 04/04/2025 **Time :** 12:05 **Temp :** 96 °C

**End Digest Date:** 04/04/2025 **Time :** 14:10 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SLD.

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| Spike Sol 1 | 0.50 | MP85065 |
| Spike Sol 2 | 1.00 | MP85066 |
| Spike Sol 3 | 1.00 | MP85067 |
| Spike Sol 4 | 1.00 | MP85068 |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Conc. HNO3 | 3.00 | M6158 |
| 1:1 HCL | 5.00 | MP84720 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK#1 CELL#50 96C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 04/04/25 15:10 | SLD, met dig | [signature] |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB167465**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB167465BL | PBW465 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| PB167465BS | LCS465 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP85065,MP85066,MP85067,N | 2 |
| Q1711-01DUP | MW-18B-56-040225DUP | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 4 |
| Q1711-01 | MW-18B-56-040225 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 3 |
| Q1711-02 | Q1711-01MS | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP85065,MP85066,MP85067,N | 5 |
| Q1711-03 | Q1711-01MSD | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP85065,MP85066,MP85067,N | 6 |
| Q1711-04 | MW-17B-55-040225 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 7 |
| Q1711-08 | EB01-040225 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 8 |
| Q1711-12 | MW-17B-55-040225 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 9 |
| Q1711-13 | EB01-040225 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 10 |
| Q1711-14 | MW-18B-56-040225 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 11 |
| Q1711-14DUP | MW-18B-56-040225DUP | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 12 |
| Q1711-15 | Q1711-14MS | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP85065,MP85066,MP85067,N | 13 |
| Q1711-16 | Q1711-14MSD | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP85065,MP85066,MP85067,N | 14 |
| Q1731-05 | EB01-040325 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 15 |
| Q1731-06 | EB01-040325 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 16 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB167465 **WorkList ID :** 188737 **Department :** Digestion **Date :** 04-04-2025 09:43:14



| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1711-01 | MW-18B-56-040225 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-02 | Q1711-01MS | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-03 | Q1711-01MSD | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-04 | MW-17B-55-040225 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-08 | EB01-040225 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-12 | MW-17B-55-040225 | Water | Dissolved ICP-Group2 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-13 | EB01-040225 | Water | Dissolved ICP-Group2 | 1:1 HNO3 to pH < 2 | JACO05 | L21 | 04/02/2025 | 6020B |
| Q1711-14 | MW-18B-56-040225 | Water | Dissolved ICP-Group2 | 1:1 HNO3 to pH < 2 | JACO05 | L21 | 04/02/2025 | 6020B |
| Q1711-15 | Q1711-14MS | Water | Dissolved ICP-Group2 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1711-16 | Q1711-14MSD | Water | Dissolved ICP-Group2 | 1:1 HNO3 to pH < 2 | JACO05 | I41 | 04/02/2025 | 6020B |
| Q1731-05 | EB01-040325 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | JACO05 | L31 | 04/03/2025 | 6020B |
| Q1731-06 | EB01-040325 | Water | Dissolved ICP-Group2 | Cool 4 deg C | JACO05 | L31 | 04/03/2025 | 6020B |

**Date/Time** 04/04/25 11:40
**Raw Sample Received by:** SLS. mcf. dl2
**Raw Sample Relinquished by:** SM



**Date/Time** 04/04/25 12:40
**Raw Sample Received by:** SM
**Raw Sample Relinquished by:** SLS. mcf. dl2

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**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135315

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 4/9/2025 11:42:35 AM |
| Supervise By | mohan | Supervise On | 4/9/2025 11:59:16 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982 |
| ICV Standard | MP84990 |
| CCV Standard | MP84992 |
| ICSA Standard | MP84993,MP84996 |
| CRI Standard | MP84988 |
| LCS Standard | |
| Chk Standard | MP84998,MP84999 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE | TUNE | 04/04/25 12:54 | | Jaswal | OK |
| 2 | S0 | S0 | CAL1 | 04/04/25 14:09 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 04/04/25 14:15 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 04/04/25 14:19 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 04/04/25 14:22 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 04/04/25 14:25 | | Jaswal | OK |
| 7 | S6 | S6 | CAL7 | 04/04/25 14:28 | | Jaswal | OK |
| 8 | S7 | S7 | CAL8 | 04/04/25 14:31 | | Jaswal | OK |
| 9 | S8 | S8 | CAL9 | 04/04/25 14:33 | | Jaswal | OK |
| 10 | ICV01 | ICV01 | ICV | 04/04/25 14:58 | | Jaswal | OK |
| 11 | LLICV | LLICV | LLICV | 04/04/25 15:17 | | Jaswal | OK |
| 12 | ICB01 | ICB01 | ICB | 04/04/25 15:20 | | Jaswal | OK |
| 13 | ICSA01 | ICSA01 | ICSA | 04/04/25 15:24 | | Jaswal | OK |
| 14 | ICSAB01 | ICSAB01 | ICSAB | 04/04/25 15:27 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 04/04/25 15:30 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 04/04/25 15:33 | | Jaswal | OK |
| 17 | CRI | CRI | CRDL | 04/04/25 15:37 | | Jaswal | OK |
| 18 | PB167465BL | PB167465BL | MB | 04/04/25 15:40 | | Jaswal | OK |

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**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135315

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 4/9/2025 11:42:35 AM |
| Supervise By | mohan | Supervise On | 4/9/2025 11:59:16 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982 |
| ICV Standard | MP84990 |
| CCV Standard | MP84992 |
| ICSA Standard | MP84993,MP84996 |
| CRI Standard | MP84988 |
| LCS Standard | |
| Chk Standard | MP84998,MP84999 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB167465BS | PB167465BS | LCS | 04/04/25 15:43 | | Jaswal | OK |
| 20 | Q1711-01 | MW-18B-56-040225 | SAM | 04/04/25 15:46 | | Jaswal | OK |
| 21 | Q1711-01DUP | MW-18B-56-040225D | DUP | 04/04/25 15:49 | | Jaswal | OK |
| 22 | Q1711-01L | MW-18B-56-040225L | SD | 04/04/25 15:53 | | Jaswal | OK |
| 23 | Q1711-02 | MW-18B-56-040225M | MS | 04/04/25 15:56 | | Jaswal | OK |
| 24 | Q1711-03 | MW-18B-56-040225M | MSD | 04/04/25 15:59 | | Jaswal | OK |
| 25 | Q1711-01A | MW-18B-56-040225A | PS | 04/04/25 16:02 | 0.1ml each mp85065,mp85069,0.2ml each mp85066,mp85067,mp85068-10ml sample | Jaswal | OK |
| 26 | CCV02 | CCV02 | CCV | 04/04/25 16:10 | | Jaswal | OK |
| 27 | CCB02 | CCB02 | CCB | 04/04/25 16:15 | | Jaswal | OK |
| 28 | Q1711-04 | MW-17B-55-040225 | SAM | 04/04/25 16:18 | | Jaswal | OK |
| 29 | Q1711-08 | EB01-040225 | SAM | 04/04/25 16:21 | | Jaswal | OK |
| 30 | CCV03 | CCV03 | CCV | 04/04/25 16:24 | | Jaswal | OK |
| 31 | CCB03 | CCB03 | CCB | 04/04/25 16:28 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135332

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 4/9/2025 11:54:31 AM |
| Supervise By | mohan | Supervise On | 4/9/2025 12:00:20 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982 |
| ICV Standard | MP84990 |
| CCV Standard | MP84992 |
| ICSA Standard | MP84993,MP84996 |
| CRI Standard | MP84988 |
| LCS Standard | |
| Chk Standard | MP84998,MP84999 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE | TUNE | 04/07/25 10:31 | | Jaswal | OK |
| 2 | S0 | S0 | CAL1 | 04/07/25 11:29 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 04/07/25 11:36 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 04/07/25 11:39 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 04/07/25 11:42 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 04/07/25 11:45 | | Jaswal | OK |
| 7 | S6 | S6 | CAL7 | 04/07/25 11:48 | | Jaswal | OK |
| 8 | S7 | S7 | CAL8 | 04/07/25 11:51 | | Jaswal | OK |
| 9 | S8 | S8 | CAL9 | 04/07/25 11:54 | | Jaswal | OK |
| 10 | ICV01 | ICV01 | ICV | 04/07/25 12:40 | | Jaswal | OK |
| 11 | LLICV | LLICV | LLICV | 04/07/25 12:44 | | Jaswal | OK |
| 12 | ICB01 | ICB01 | ICB | 04/07/25 12:48 | | Jaswal | OK |
| 13 | ICSA01 | ICSA01 | ICSA | 04/07/25 12:57 | | Jaswal | OK |
| 14 | ICSAB01 | ICSAB01 | ICSAB | 04/07/25 13:04 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 04/07/25 13:07 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 04/07/25 13:17 | | Jaswal | OK |
| 17 | CRI | CRI | CRDL | 04/07/25 13:20 | | Jaswal | OK |
| 18 | Q1711-12 | MW-17B-55-040225 | SAM | 04/07/25 13:24 | | Jaswal | OK |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135332

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 4/9/2025 11:54:31 AM |
| Supervise By | mohan | Supervise On | 4/9/2025 12:00:20 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982 |
| ICV Standard | MP84990 |
| CCV Standard | MP84992 |
| ICSA Standard | MP84993,MP84996 |
| CRI Standard | MP84988 |
| LCS Standard | |
| Chk Standard | MP84998,MP84999 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1711-13 | EB01-040225 | SAM | 04/07/25 13:27 | | Jaswal | OK |
| 20 | Q1711-14 | MW-18B-56-040225 | SAM | 04/07/25 13:30 | | Jaswal | OK |
| 21 | Q1711-14DUP | MW-18B-56-040225D | DUP | 04/07/25 13:33 | | Jaswal | OK |
| 22 | Q1711-14L | MW-18B-56-040225L | SD | 04/07/25 13:37 | | Jaswal | OK |
| 23 | Q1711-15 | MW-18B-56-040225M | MS | 04/07/25 13:40 | | Jaswal | OK |
| 24 | Q1711-16 | MW-18B-56-040225M | MSD | 04/07/25 13:43 | | Jaswal | OK |
| 25 | CCV02 | CCV02 | CCV | 04/07/25 13:58 | | Jaswal | OK |
| 26 | CCB02 | CCB02 | CCB | 04/07/25 14:05 | | Jaswal | OK |
| 27 | Q1711-14A | MW-18B-56-040225A | PS | 04/07/25 14:08 | 0.1ml each mp85065,mp85069,0.2ml each mp85066,mp85067,mp85068-10ml sample | Jaswal | OK |
| 28 | Q1731-05 | EB01-040325 | SAM | 04/07/25 14:11 | | Jaswal | OK |
| 29 | Q1731-06 | EB01-040325 | SAM | 04/07/25 14:14 | | Jaswal | OK |
| 30 | Q1700-01DL | 32725DL | SAM | 04/07/25 14:18 | INT_STD 6Li,45Sc(1&2) Fail | Jaswal | Dilution |
| 31 | Q1700-02DL | 32525DL | SAM | 04/07/25 14:21 | INT_STD 6Li,45Sc(1&2),89Y(1&2) Fail | Jaswal | Dilution |
| 32 | Q1700-01DL2 | 32725DL2 | SAM | 04/07/25 14:33 | 25X For INT_STD 6Li,45Sc(1&2), Still INT_STD 45Sc(2) Fail | Jaswal | Dilution |
| 33 | Q1700-02DL2 | 32525DL2 | SAM | 04/07/25 14:36 | 25X For INT_STD 6Li,45Sc(1&2),89Y(1&2) , Still INT_STD 6Li,45Sc(1&2),89Y(2) Fail | Jaswal | Dilution |

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**Instrument ID:** P8

## Daily Analysis Runlog For Sequence/QCBatch ID # LB135332

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 4/9/2025 11:54:31 AM |
| Supervise By | mohan | Supervise On | 4/9/2025 12:00:20 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP84981,MP84989,MP84988,MP84986,MP84985,MP84984,MP84983,MP84980,MP84982 |
| ICV Standard | MP84990 |
| CCV Standard | MP84992 |
| ICSA Standard | MP84993,MP84996 |
| CRI Standard | MP84988 |
| LCS Standard | |
| Chk Standard | MP84998,MP84999 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 34 | Q1700-01DL3 | 32725DL | SAM | 04/07/25 14:39 | 50X For INT_STD 45Sc(2) | Jaswal | Confirms |
| 35 | Q1700-02DL3 | 32525DL | SAM | 04/07/25 14:43 | 50X For INT_STD 6Li,45Sc(1&2),89Y(2) | Jaswal | Confirms |
| 36 | Q1700-02DL4 | 32525DL | SAM | 04/07/25 14:52 | Not Rerquired | Jaswal | Not Ok |
| 37 | CCV03 | CCV03 | CCV | 04/07/25 15:00 | | Jaswal | OK |
| 38 | CCB03 | CCB03 | CCB | 04/07/25 15:13 | | Jaswal | OK |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1711

**Test :** Dissolved ICP-Group2,Metals Group4

**Prepbatch ID :** PB167465,

**Sequence ID/Qc Batch ID:** LB135315,LB135332,LB135332,

**Standard ID :**
MP84720,MP84980,MP84981,MP84982,MP84983,MP84984,MP84985,MP84986,MP84987,MP84988,MP84989,MP84990,MP84992,MP84993,MP84996,MP84997,MP84998,MP84999,MP85065,MP85066,MP85067,MP85068,

**Chemical ID :**
M4888,M5305,M5472,M5519,M5520,M5545,M5658,M5739,M5751,M5798,M5799,M5800,M5801,M 5811,M5815,M5817,M5873,M5874,M5942,M5961,M5962,M5977,M5981,M5983,M6019,M6020,M6021,M6023,M6025,M6026,M6028,M6030,M6032,M6055,M6058,M6079,M6086,M6127,M6128,M6137,M6144,M6145,M6146,M6150,M6151,M6153,M6156,M6158,M6159,W3112,

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 170 | 1:1HCL | MP84720 | 03/03/2025 | 04/04/2025 | Sagar Kanani | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 03/03/2025 |

**FROM** 1000.00000ml of M6151 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3947 | S7(SFAM,6020,200.8) | MP84980 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 1.00000ml of M5799 + 1.00000ml of M5981 + 1.00000ml of M6079 + 1.00000ml of M6137 + 1.00000ml of M6153 + 1.90000ml of M6159 + 10.00000ml of M5942 + 10.00000ml of M5977 + 10.00000ml of M6158 + 2.00000ml of M5815 + 2.00000ml of M5817 + 4.00000ml of M6025 + 4.00000ml of M6032 + 4.90000ml of M5519 + 4.90000ml of M5811 + 5.00000ml of M6151 + 50.00000ml of M5305 + 829.60000ml of W3112 + 9.00000ml of M5751 + 9.00000ml of M6128 + 9.00000ml of M6145 + 9.90000ml of M6086 + 9.90000ml of M6127 + 9.90000ml of M6144 = Final Quantity: 1000.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1122 | ICPMS CALIB BLANK(S0/ICB/CCB) | MP84981 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 25.00000ml of M6151 + 4925.00000ml of W3112 + 50.00000ml of M6158 = Final Quantity: 5000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2902 | S8 ICPMS | MP84982 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 1.00000ml of M6159 + 2.50000ml of M5520 + 2.50000ml of M5811 + 5.00000ml of M6086 + 5.00000ml of M6127 + 5.00000ml of M6144 + 79.00000ml of MP84981 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3948 | S6(SFAM,6020,200.8) | MP84983 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.50000ml of M6151 + 1.00000ml of M6158 + 48.50000ml of W3112 + 50.00000ml of MP84980 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3949 | S5(SFAM,6020,200.8) | MP84984 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.50000ml of M6151 + 1.00000ml of M6158 + 73.50000ml of W3112 + 25.00000ml of MP84980 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3954 | S4(SFAM,6020,200.8) | MP84985 | 03/25/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.50000ml of M6151 + 1.00000ml of M6158 + 86.00000ml of W3112 + 12.50000ml of MP84980 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3951 | S3(SFAM, 6020,200.8) | MP84986 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP84983 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3955 | S2CONC(SFAM,6020,200.8) | MP84987 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.00500ml of M6153 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.05000ml of M6079 + 0.05000ml of M6128 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M6146 + 0.10000ml of M6159 + 0.25000ml of M5799 + 0.25000ml of M5811 + 0.25000ml of M5942 + 0.25000ml of M5962 + 0.25000ml of M5977 + 0.25000ml of M6021 + 0.25000ml of M6145 + 0.50000ml of M6032 + 0.50000ml of M6137 + 1.25000ml of M5815 + 1.25000ml of M5817 + 1.25000ml of M6151 + 2.50000ml of M5520 + 2.50000ml of M6086 + 2.50000ml of M6127 + 2.50000ml of M6144 + 2.50000ml of M6158 + 230.04500ml of W3112 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3956 | S2(SFAM,6020,200.8) | MP84988 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.50000ml of M6151 + 1.00000ml of M6158 + 98.00000ml of W3112 + 0.50000ml of MP84987 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3957 | S1(SFAM,6020,200.8) | MP84989 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.50000ml of M6151 + 1.00000ml of M6158 + 88.50000ml of W3112 + 10.00000ml of MP84988 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3959 | ICV(6020,200.8) | MP84990 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.05000ml of M5983 + 0.05000ml of M6019 + 0.05000ml of M6020 + 0.05000ml of M6058 + 0.45000ml of M5545 + 0.45000ml of M6156 + 2.00000ml of M6150 + 96.90000ml of MP84981 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3961 | CCV | MP84992 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.20000ml of M6026 + 0.50000ml of M5799 + 0.50000ml of M5981 + 0.50000ml of M6079 + 0.50000ml of M6137 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M6153 + 10.00000ml of M6158 + 12.45000ml of M5520 + 12.45000ml of M5811 + 2.00000ml of M6032 + 24.95000ml of M6086 + 24.95000ml of M6127 + 24.95000ml of M6144 + 25.00000ml of M5305 + 4.50000ml of M5751 + 4.50000ml of M6128 + 4.50000ml of M6145 + 4.95000ml of M6159 + 5.00000ml of M6151 + 5.50000ml of M5942 + 5.50000ml of M5977 + 823.35000ml of W3112 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1142 | ICSA ICPMS | MP84993 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 10.00000ml of M5873 + 90.00000ml of MP84981 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1143 | ICSAB ICPMS | MP84996 | 03/25/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.00500ml of M5983 + 0.00500ml of M6019 + 0.00500ml of M6020 + 0.00500ml of M6058 + 10.00000ml of M5873 + 10.00000ml of M5874 + 79.98000ml of MP84981 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3962 | MG 10PPM FOR TUNE | MP84997 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.01000ml of M6127 + 9.99000ml of MP84981 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3894 | TUNE 200PPB | MP84998 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 2.00000ml of M6055 + 2.00000ml of MP84997 + 96.00000ml of MP84981 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3903 | ISS 3PPM | MP84999 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 5.00000ml of M6158 + 75.00000ml of M5739 + 170.00000ml of MP84981 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3880 | M&B SPIKE-1 | MP85065 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 5.00000ml of M5472 + 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 5.00000ml of M6079 + 5.00000ml of M6146 + 35.00000ml of MP84981 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3881 | M&B SPIKE-2 | MP85066 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 10.00000ml of M4888 + 10.00000ml of M5977 + 12.50000ml of M5520 + 12.50000ml of M5811 + 12.50000ml of M6032 + 2.50000ml of M5799 + 2.50000ml of M6137 + 5.00000ml of M6159 + 32.50000ml of MP84981 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3882 | M&B SPIKE-3 | MP85067 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 0.62500ml of M6026 + 12.50000ml of M5751 + 12.50000ml of M6128 + 12.50000ml of M6145 + 11.87500ml of MP84981 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3900 | M&B SPIKE-4 | MP85068 | 03/24/2025 | 04/14/2025 | Janvi Patel | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 04/07/2025 |

**FROM** 6.25000ml of M6086 + 6.25000ml of M6127 + 6.25000ml of M6144 + 6.25000ml of MP84981 = Final Quantity: 25.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57022 / Ti, 1000 PPM, 125 ml | 070721 | 09/27/2025 | 08/06/2021 / jaswal | 08/05/2021 / jaswal | M4888 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | 6020CAL-1 / Calibration Standard Method 6020 | S2-MEB711244 | 10/20/2026 | 03/07/2025 / JANVI | 04/01/2022 / jaswal | M5305 |

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

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57119 / Potassium (K) 10,000PPM | 120822 | 12/08/2025 | 08/01/2024 / Jaswal | 03/17/2023 / bin | M5520 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57022 / Titanium (Ti) 1000PPM | 050223 | 05/02/2026 | 05/08/2023 / jaswal | 05/08/2023 / jaswal | M5545 |

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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. | 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 |

| 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 |

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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. | 57033 / As, 1000 PPM, 125 ml | 111323 | 11/13/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5801 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 051523 | 05/15/2026 | 02/06/2025 / kareem | 01/03/2024 / jaswal | M5811 |

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

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

| 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 |

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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 | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 06/18/2024 / Jaswal | 02/22/2024 / Jaswal | M5942 |

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

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

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57092 / U, 1000 PPM, 125 ml | 060724 | 06/07/2027 | 07/29/2024 / Jaswal | 06/11/2024 / Jaswal | M5981 |

| 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 |

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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 | CGSR1-1 / Strontium, 125 ml, 1000 PPM | U2-SR730227 | 03/03/2028 | 01/14/2025 / Jaswal | 08/05/2024 / Jaswal | M6019 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGU1-1 / Uranium 1000 ug/ml | U2-U735194 | 04/03/2028 | 01/15/2025 / Jaswal | 08/05/2024 / Jaswal | M6020 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 11/09/2026 | 08/05/2024 / Jaswal | 08/05/2024 / Jaswal | M6025 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57182 / Pb, 10000 PPM, 125 ml | 110923 | 11/09/2026 | 12/05/2024 / janvi | 08/05/2024 / Jaswal | M6026 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6028 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57047 / Ag, 1000 PPM, 125 ml | 122823 | 12/28/2026 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6030 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 010924 | 01/09/2027 | 01/14/2025 / Jaswal | 08/05/2024 / Jaswal | M6032 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL | U2-MEB734294 | 06/21/2028 | 08/21/2024 / Jaswal | 08/19/2024 / Jaswal | M6055 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti | V2-MEB746173 | 01/29/2026 | 01/29/2025 / JANVI | 08/22/2024 / Jaswal | M6058 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57040 / Zr, 1000 PPM, 125 ml | 071423 | 07/14/2026 | 01/15/2025 / Jaswal | 09/30/2024 / Jaswal | M6079 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Calcium, 500 ml, 10000 PPM | 082324 | 08/23/2027 | 03/06/2025 / JANVI | 10/14/2024 / jaswal | M6086 |

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58025 / Mn, 1000 PPM, 500 ml | 101124 | 10/11/2027 | 01/13/2025 / kareem | 01/13/2025 / kareem | M6128 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGSI1-1 / SILICON 125mL 1000ug/mL | V2-SI744713 | 07/10/2029 | 01/14/2025 / Jaswal | 10/03/2024 / Jaswal | M6137 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57051 / Sb, 1000 PPM, 125 ml | 071724 | 07/17/2027 | 01/31/2025 / kareem | 10/18/2024 / kareem | M6146 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | ICV-1 / ICV ( ICP/ICPMS ) STOCK SOLN | ICV1-1014 | 07/07/2025 | 02/07/2025 / JANVI | 04/20/2021 / JANVI | M6150 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22G2862015 | 08/18/2025 | 02/18/2025 / Sagar | 01/15/2025 / Sagar | M6151 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGSR10 / Strontium (SR), 125mL 10,000ppm | V2-SR754329 | 02/28/2026 | 02/28/2025 / JANVI | 01/07/2025 / JANVI | M6153 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57042 / Mo, 1000 PPM, 125 ml | 032123 | 03/21/2026 | 11/06/2024 / JANVI | 06/12/2024 / JANVI | M6156 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24D1062002 | 03/25/2029 | 03/10/2025 / Eman | 02/02/2025 / Sagar | M6158 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58113 / Al, 10000 PPM, 500 ml | 011325 | 03/18/2026 | 03/18/2025 / kareem | 02/09/2025 / kareem | M6159 |

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

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***Certified Reference Material CRM***

M6032

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

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

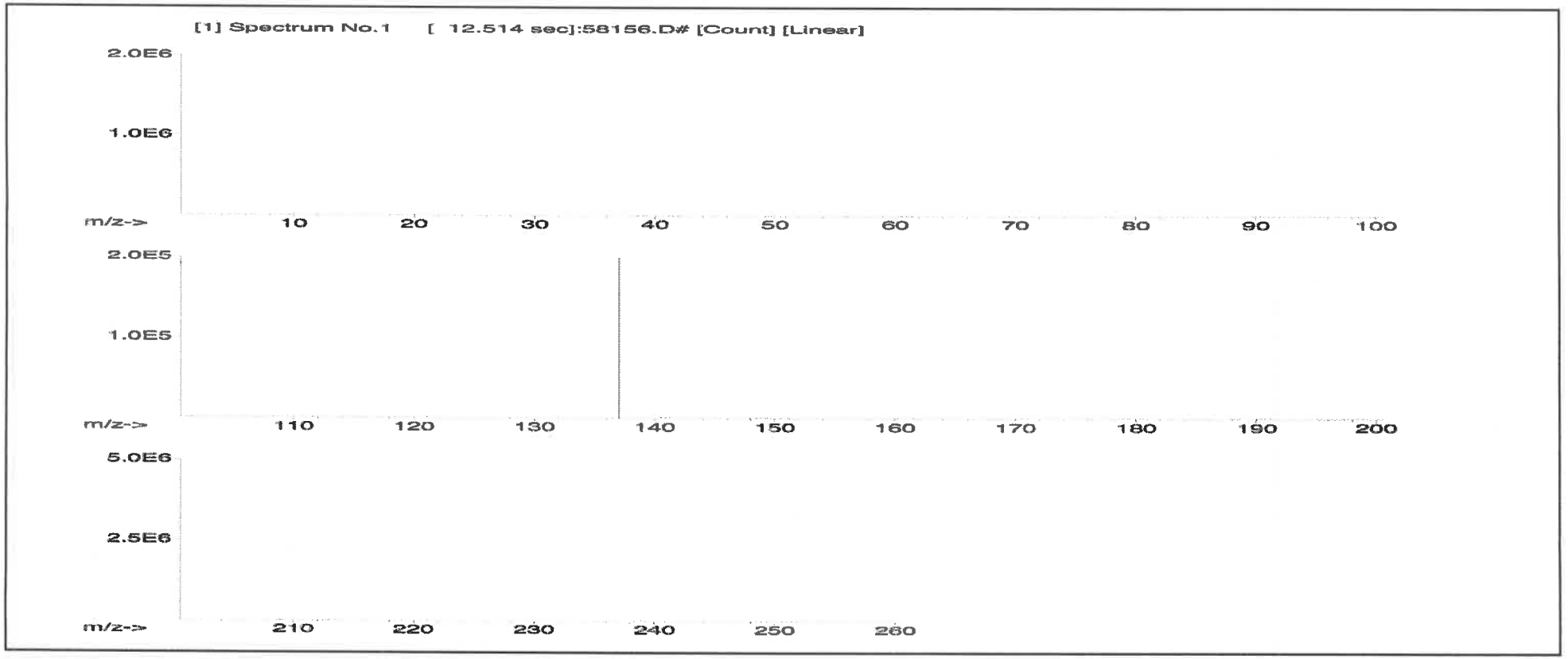
Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 010924 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 010924 |

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



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

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

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Revd 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58120** | | **Lot #** | | |
| **Lot Number:** | **082324** | | **Solvent:** | 24002546 | Nitric Acid |
| **Description:** | **Calcium (Ca)** | | | | |
| | | | 2% | 80.0 (mL) | Nitric Acid |
| **Expiration Date:** | 082327 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.1 | 0.15 | Flask Uncertainty | | |

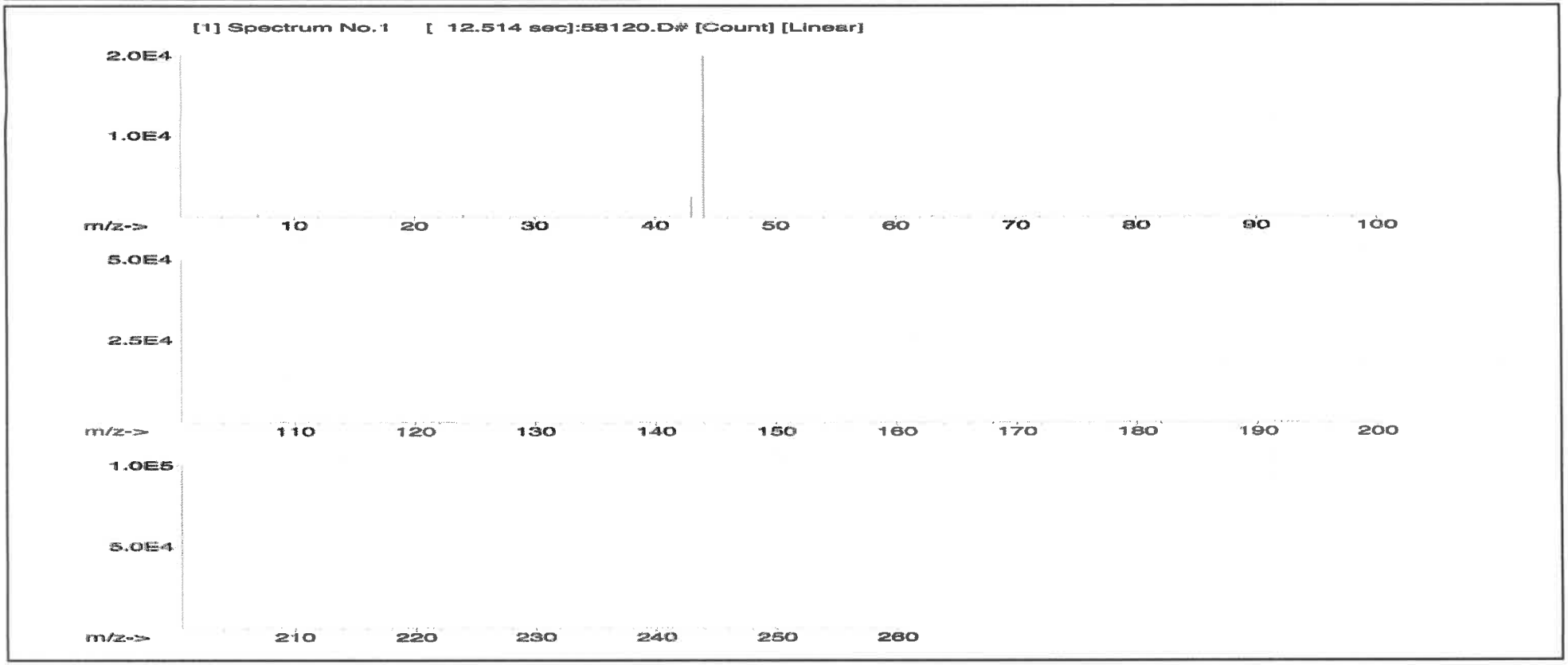
Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 082324 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 082324 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Calcium carbonate (Ca) | IN014 | CAD03203B3 | 10000 | 99.999 | 0.10 | 39.9 | 100.2537 | 100.2656 | **10001.2** | **20.0** | 471-34-1 | 5 mg/m3 | ori-rat >2000mg/kg | 3109a |



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

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

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | T | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | 30 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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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M6028

R 8/5/24

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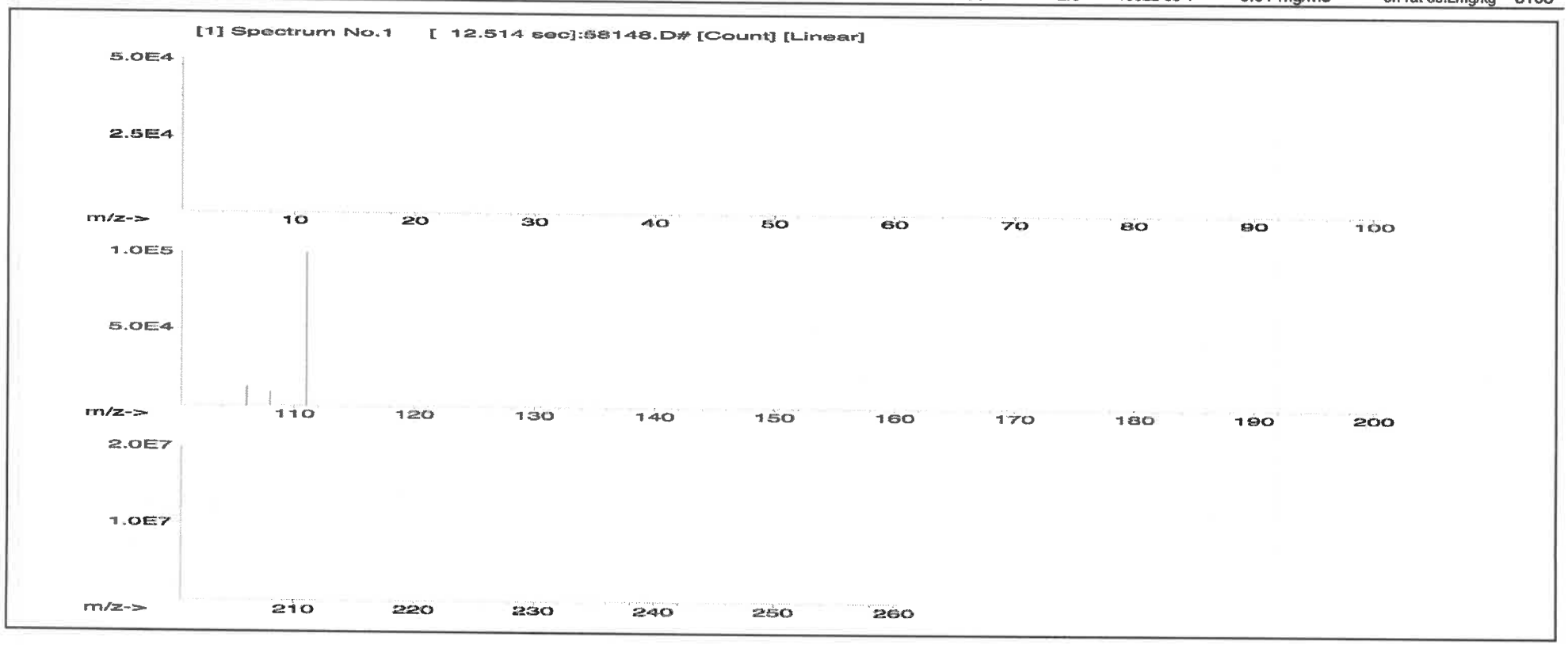
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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 |
| 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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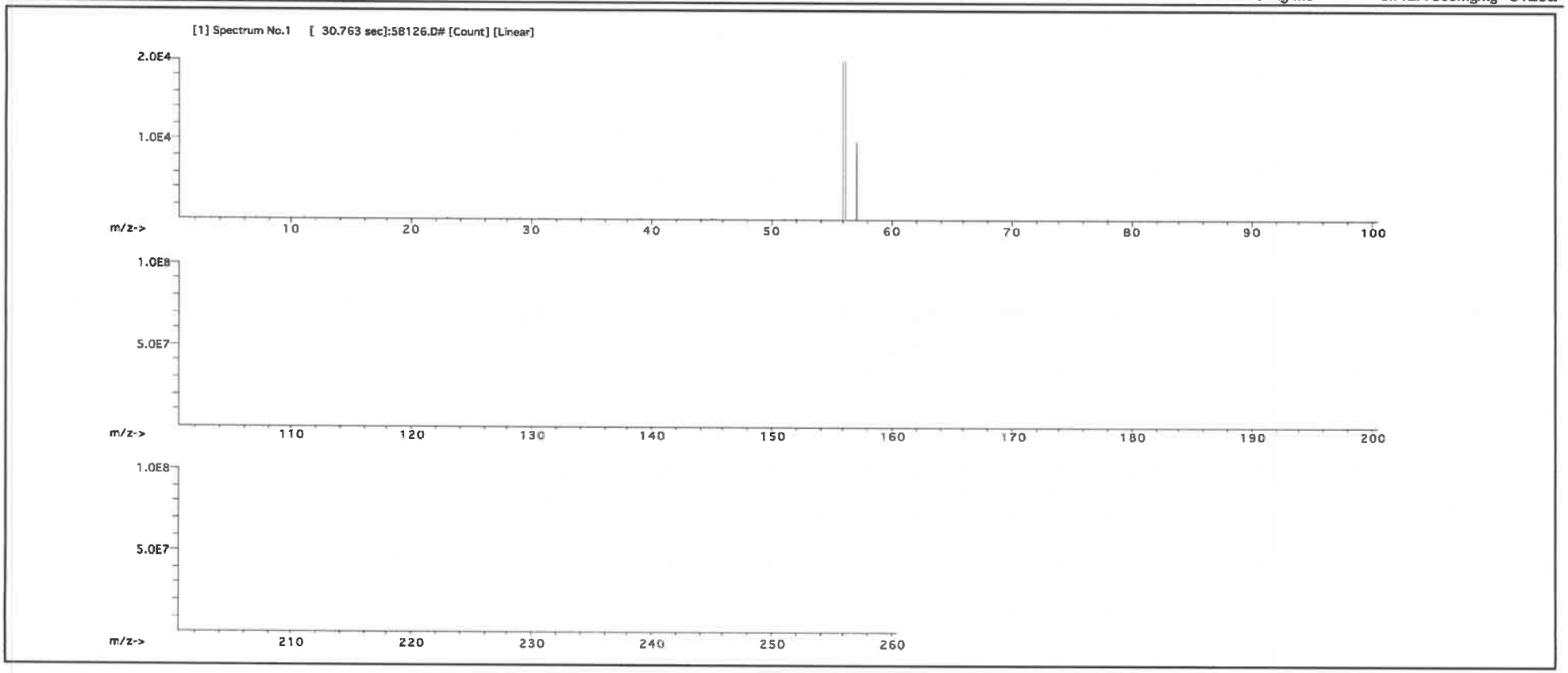
CERTIFIED WEIGHT REPORT:

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **58126** | | **Lot #** | |
| **Lot Number:** | **051523** | **Solvent:** | 21110221 | Nitric Acid |
| **Description:** | **Iron (Fe)** | 5.0% | 250.0 (mL) | Nitric Acid |
| **Expiration Date:** | 051526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 5000.1 | 0.12 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 051523 |
| Reviewed By: | Pedro L. Rentas | 051523 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2302010-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |



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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.10 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.10 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.05 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.10 |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

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R: 8/5/24 M6025

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CERTIFIED WEIGHT REPORT:

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

**Expiration Date:** 110926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

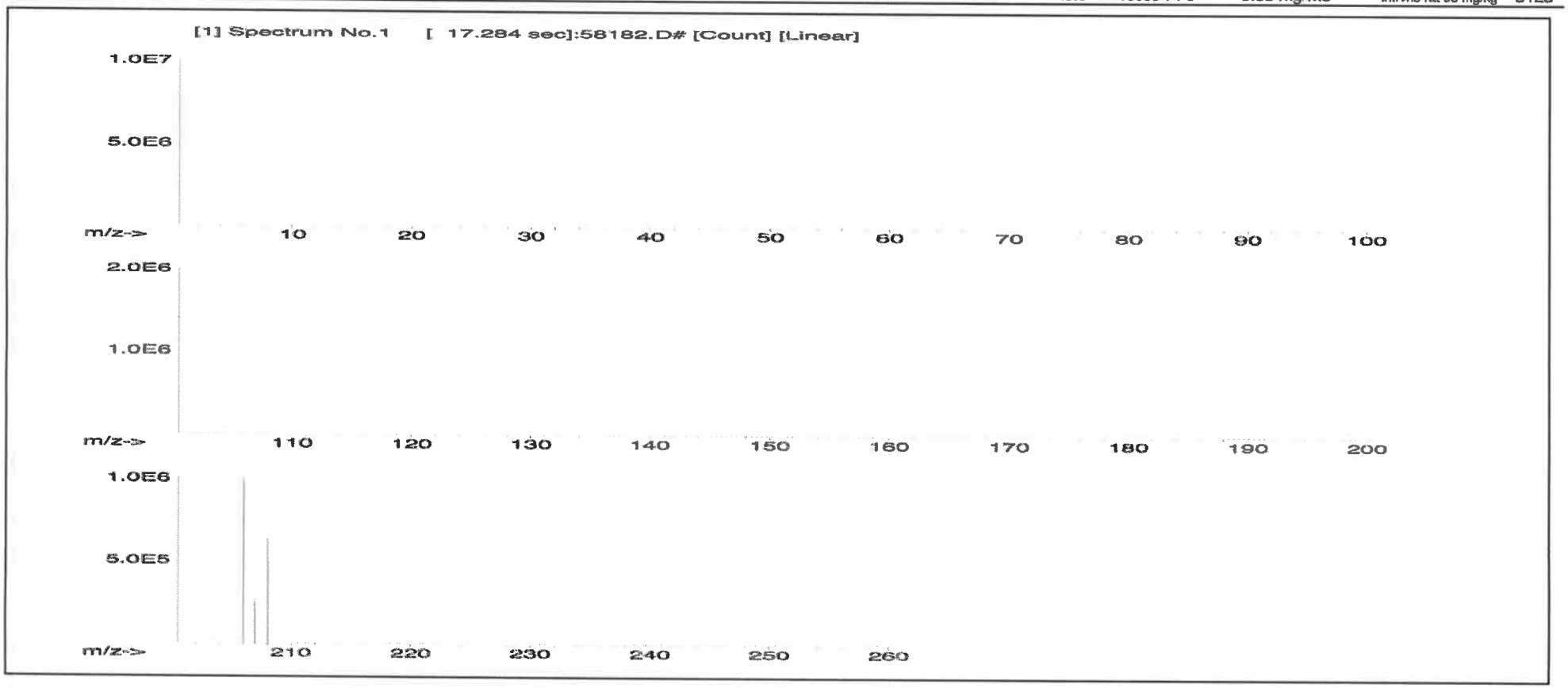
**Weight shown below was diluted to (mL):** 2000.02 ± 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawence Barry | 110923 |
| Reviewed By: | Pedro L. Rentas | 110923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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**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).

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***Certified Reference Material CRM***

M6026

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

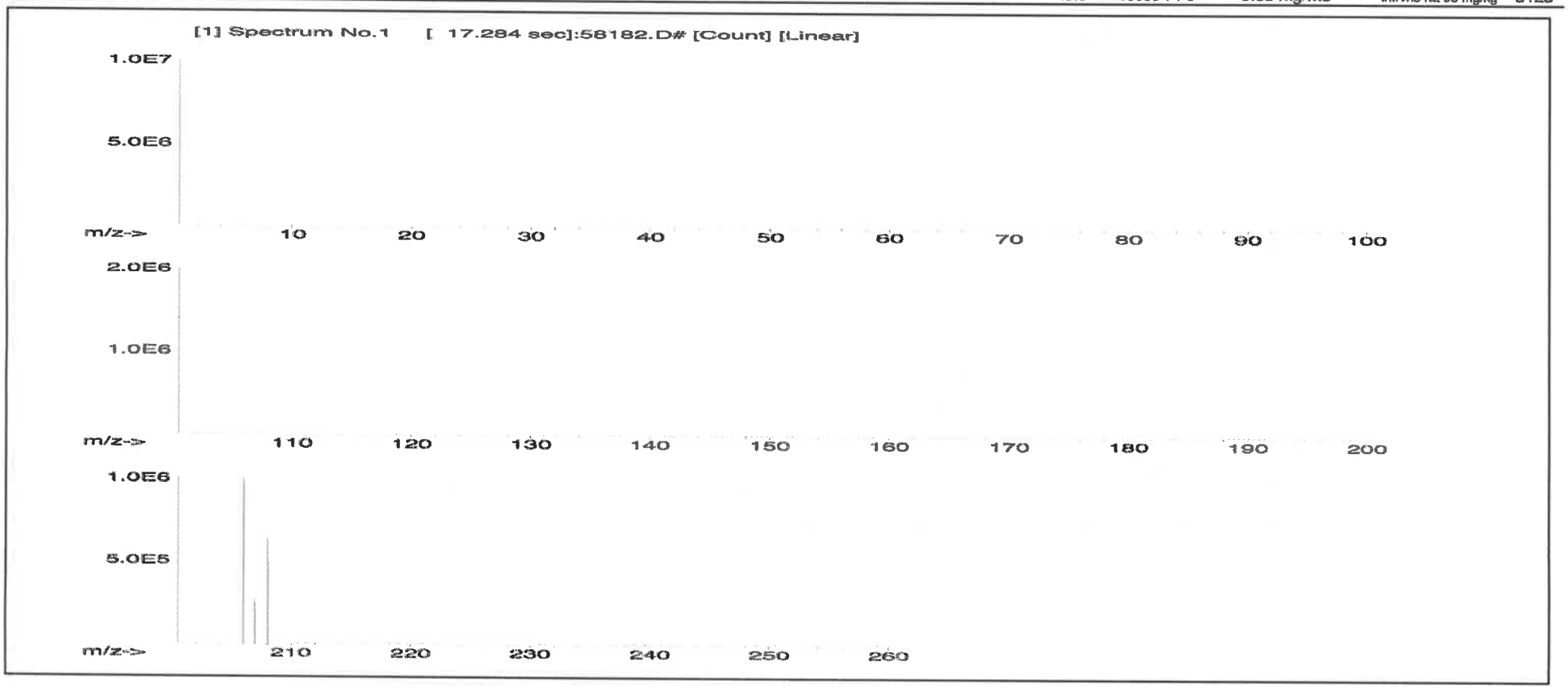
**Part Number:** 57182
**Lot Number:** 110923
**Description:** Lead (Pb)

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

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawence Barry | 110923 |
| Reviewed By: | Pedro L. Rentas | 110923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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**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).

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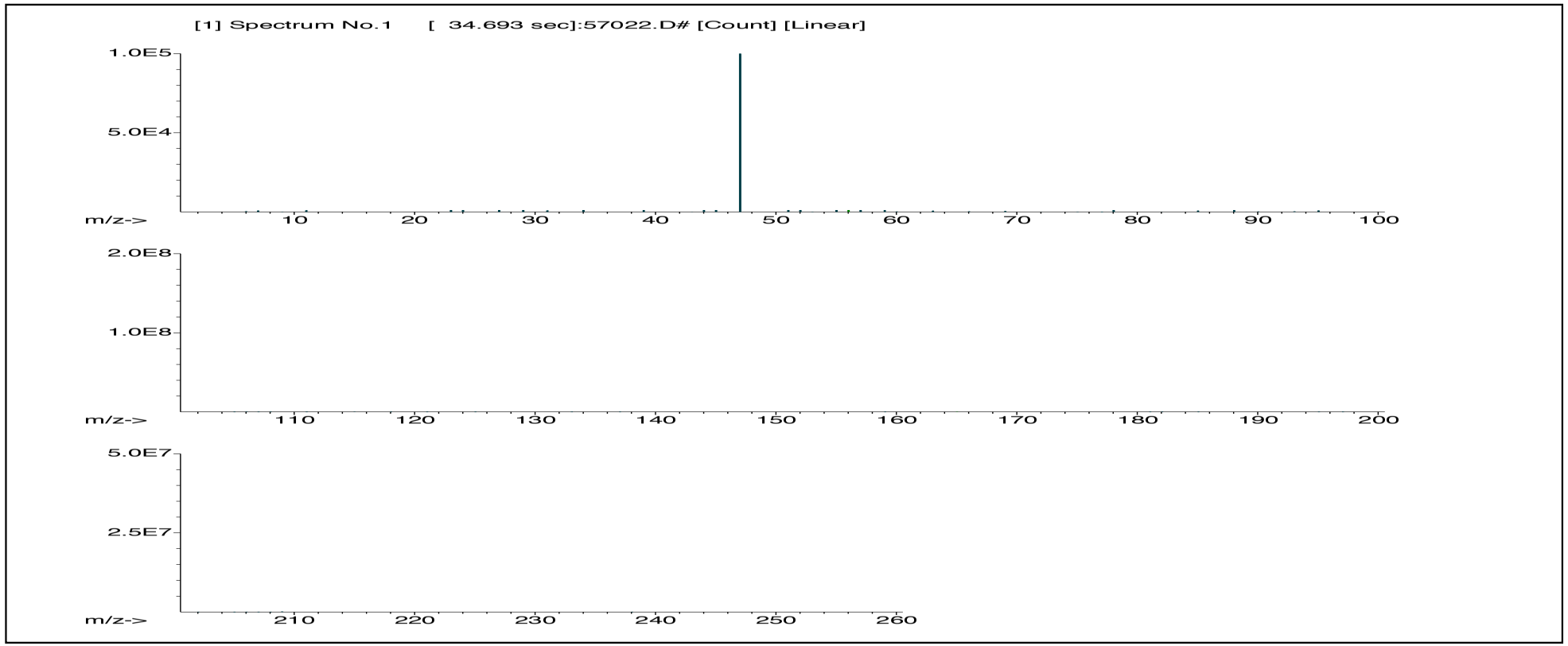
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57022** | 20370011 | Nitric Acid | |
| **Lot Number:** | **070721** | | | |
| **Description:** | **Titanium (Ti)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 070724 | | | |
| **Recommended Storage:** | Ambient (20 ºC) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 070721 |
| Reviewed By: | Pedro L. Rentas | 070721 |

| | Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | **Final Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Ammonium hexafluorotitanate (Ti) | 58122 | 070120 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 16962-40-6 | 2.5 (F) mg/m3 | NA | 3162a |



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**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:**

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# Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | 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** |

**Density:** 1.026 g/mL (measured at 20 ± 4 ºC)

## Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| Fe | Calculated | | See Sec. 4.2 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| Tl | Calculated | | See Sec. 4.2 |
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

**Low Silver Note:** This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

October 20, 2021

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

### 11.2 Lot Expiration Date

- **October 20, 2026**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
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*Certified Reference Material CRM*

M519. M520 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

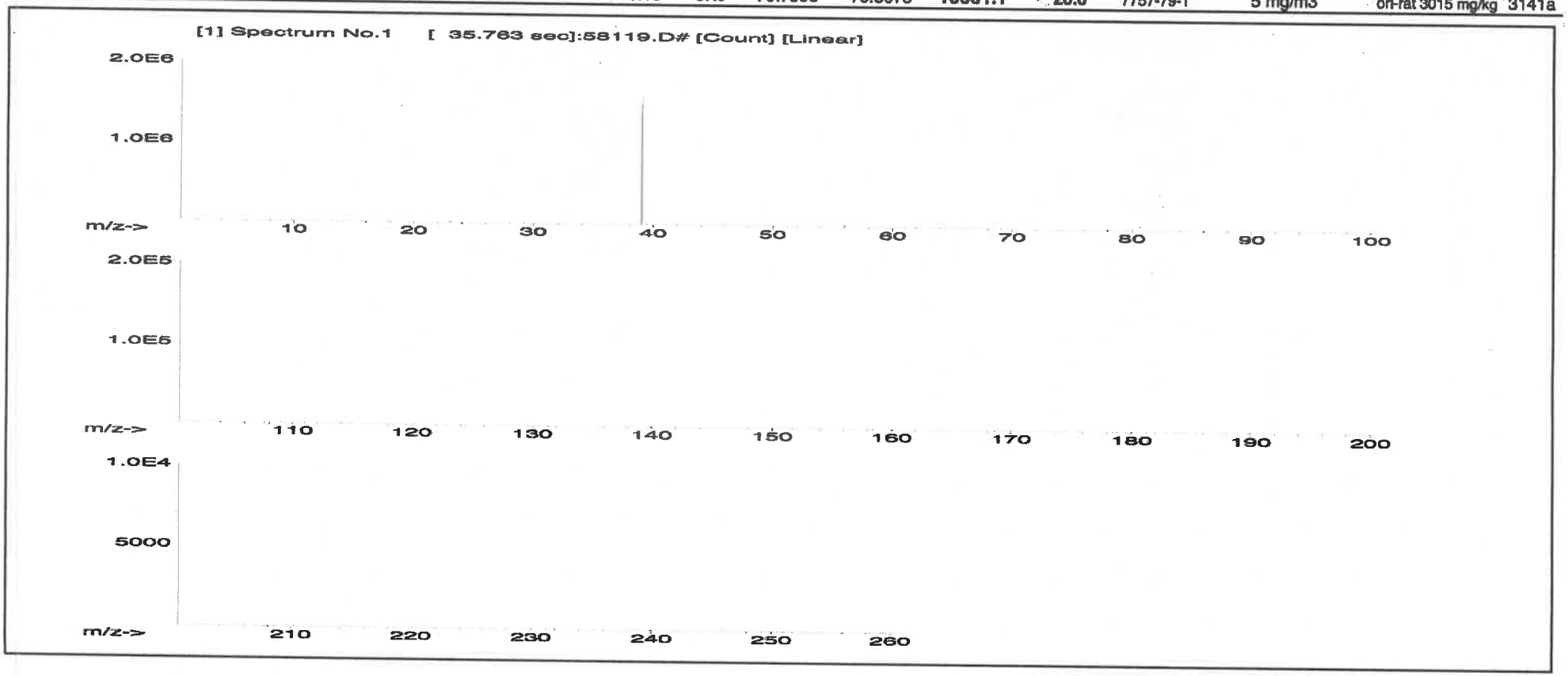
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |

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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
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M519. M520 (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 ± 0.06 Flask Uncertainty

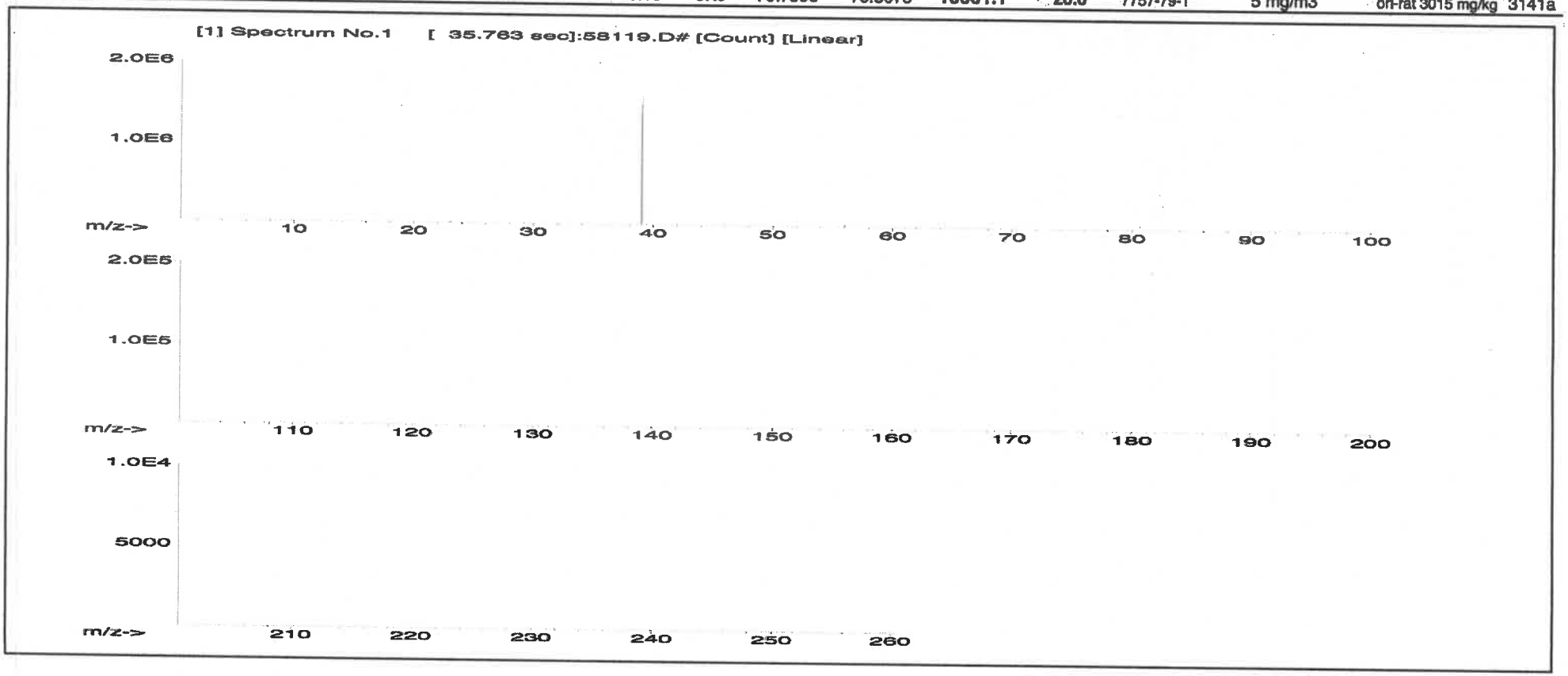
| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 20510011 | | Nitric Acid |
| | 2% | 60.0 (mL) | Nitric Acid |

± 5E-05 Balance Uncertainty

Giovanni Esposito

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

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



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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5658 R ! 8/25/23

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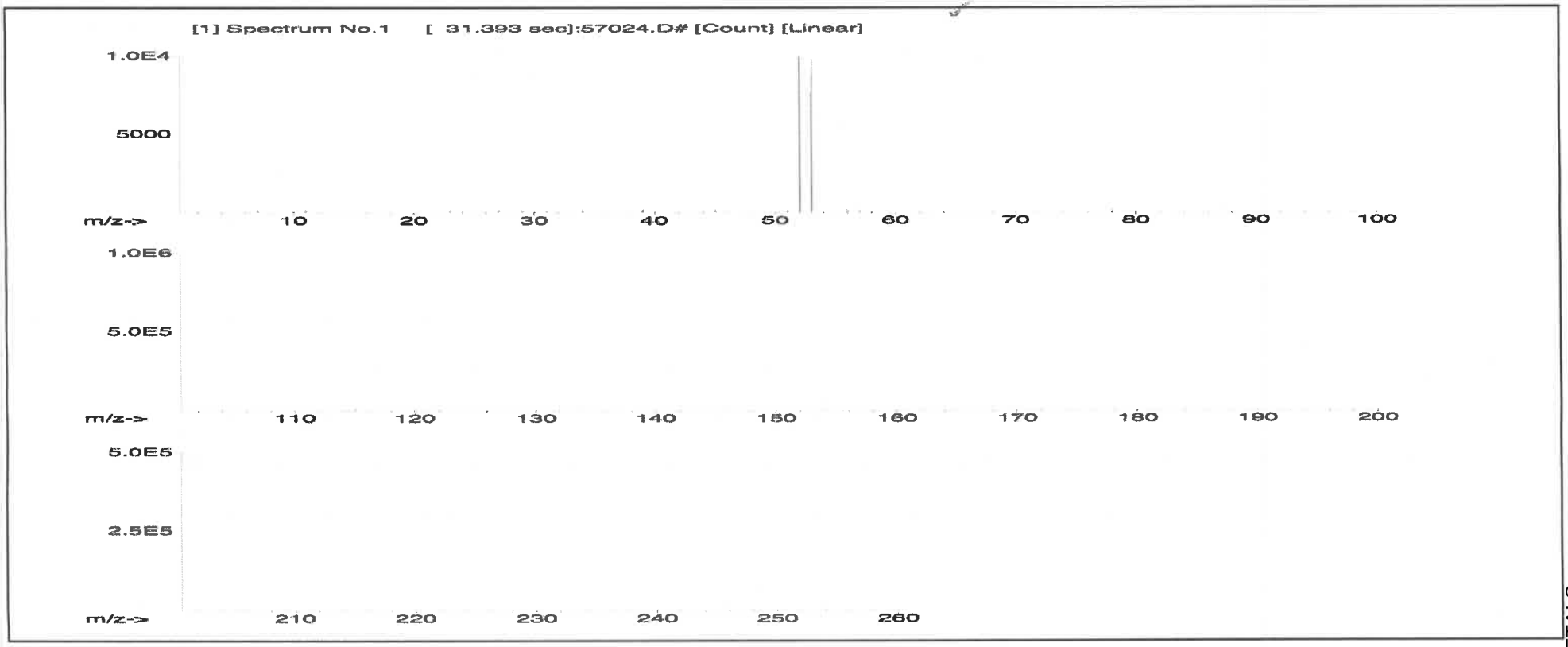
CERTIFIED WEIGHT REPORT:

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

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

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



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

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

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R: 8/25/23 M5751

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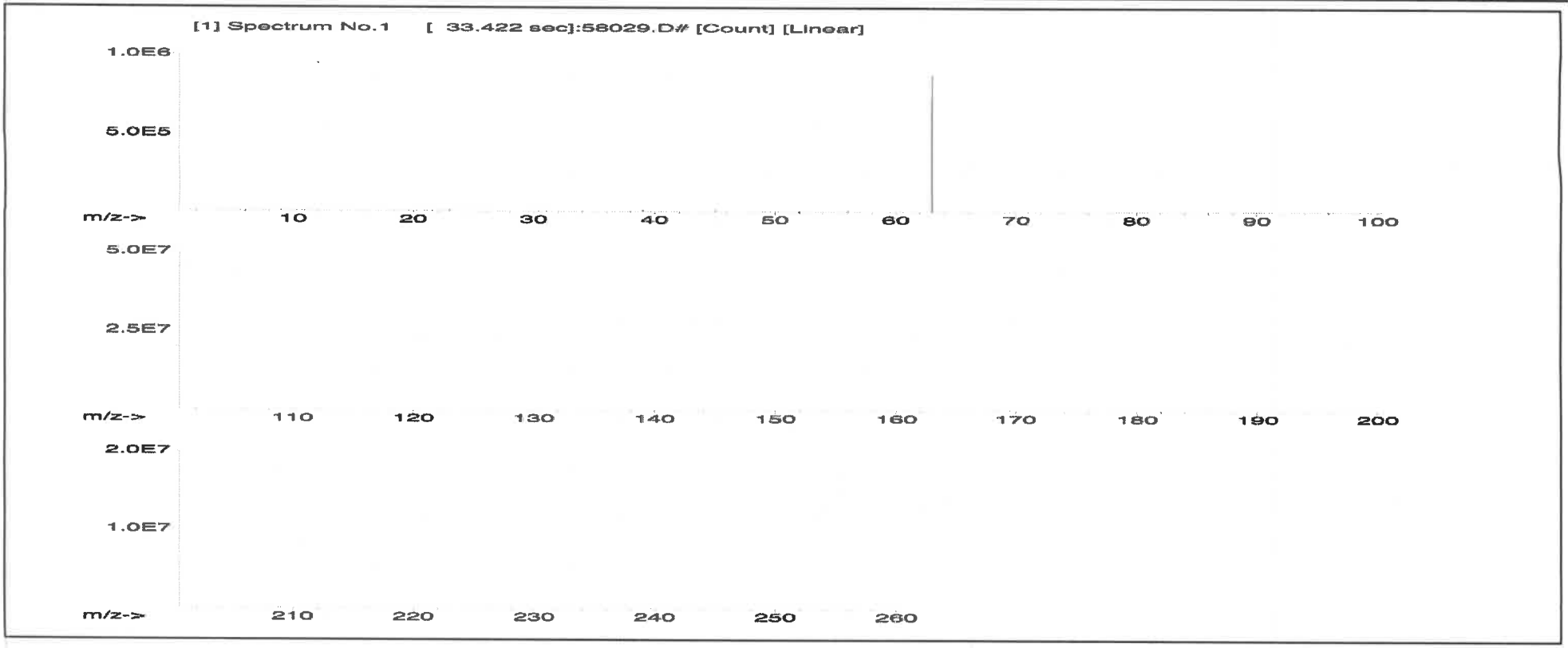
CERTIFIED WEIGHT REPORT:

| | | | | | | |
|---|---|---|---|---|---|---|
| **Part Number:** | **58029** | | | **Lot #** | **Solvent:** | |
| **Lot Number:** | **071723** | | | 21110221 | Nitric Acid | |
| **Description:** | **Copper (Cu)** | | | | | |
| | | | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071726 | | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | | |

| | |
|---|---|
| Formulated By: | Benson Chan 071723 |
| Reviewed By: | Pedro L. Rentas 071723 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Copper(II) nitrate trihydrate (Cu) | 58129 | 022723 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.5 | **1000.0** | **2.2** | 10031-43-3 | 1 mg/m3 | orl-rat 794 mg/kg | 3114 |



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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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R: 02/09/24 M5798

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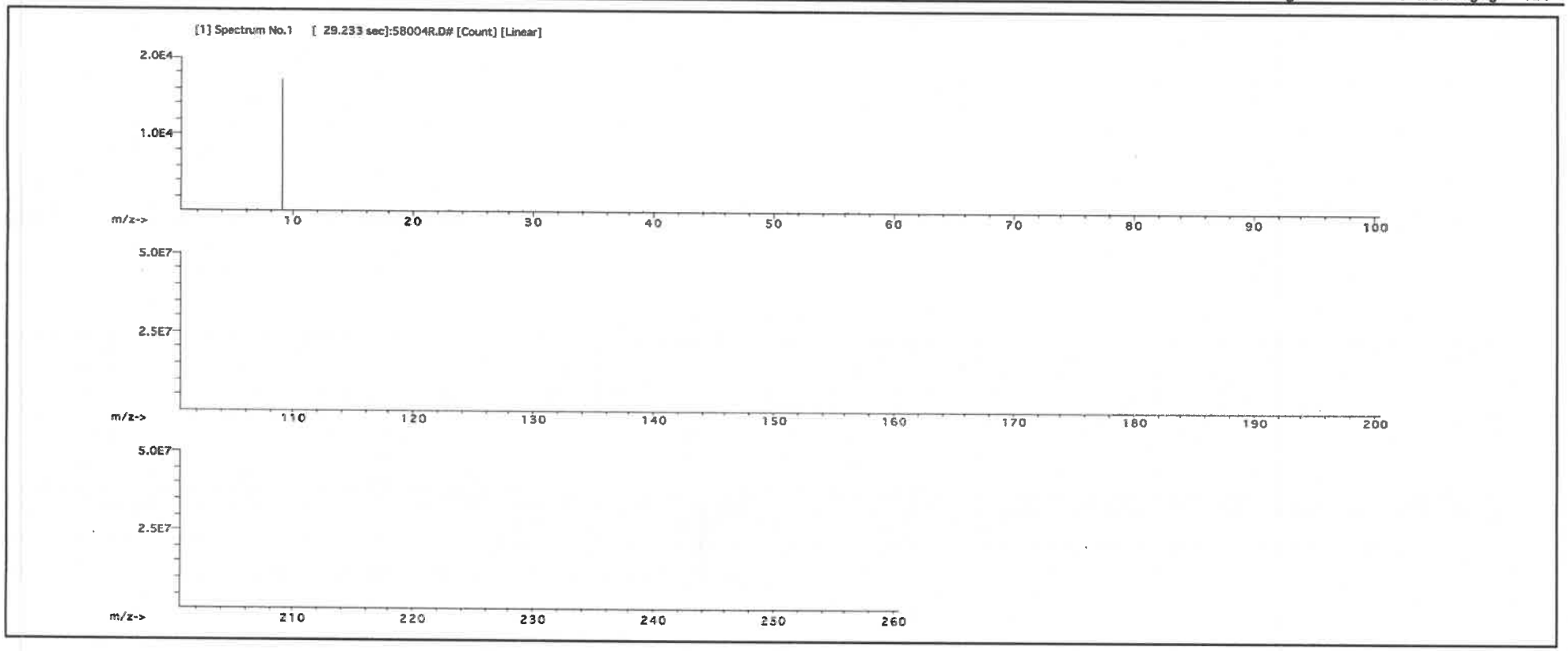
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57004** | | | |
| **Lot Number:** | **102523** | 24002546 | Nitric Acid | |
| **Description:** | **Beryllium (Be)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 102526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13597-99-4 | 0.2ug/m3 | intrvns-rat 3.16mg/kg | NA |



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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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R? 02/09/24 IV15799

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

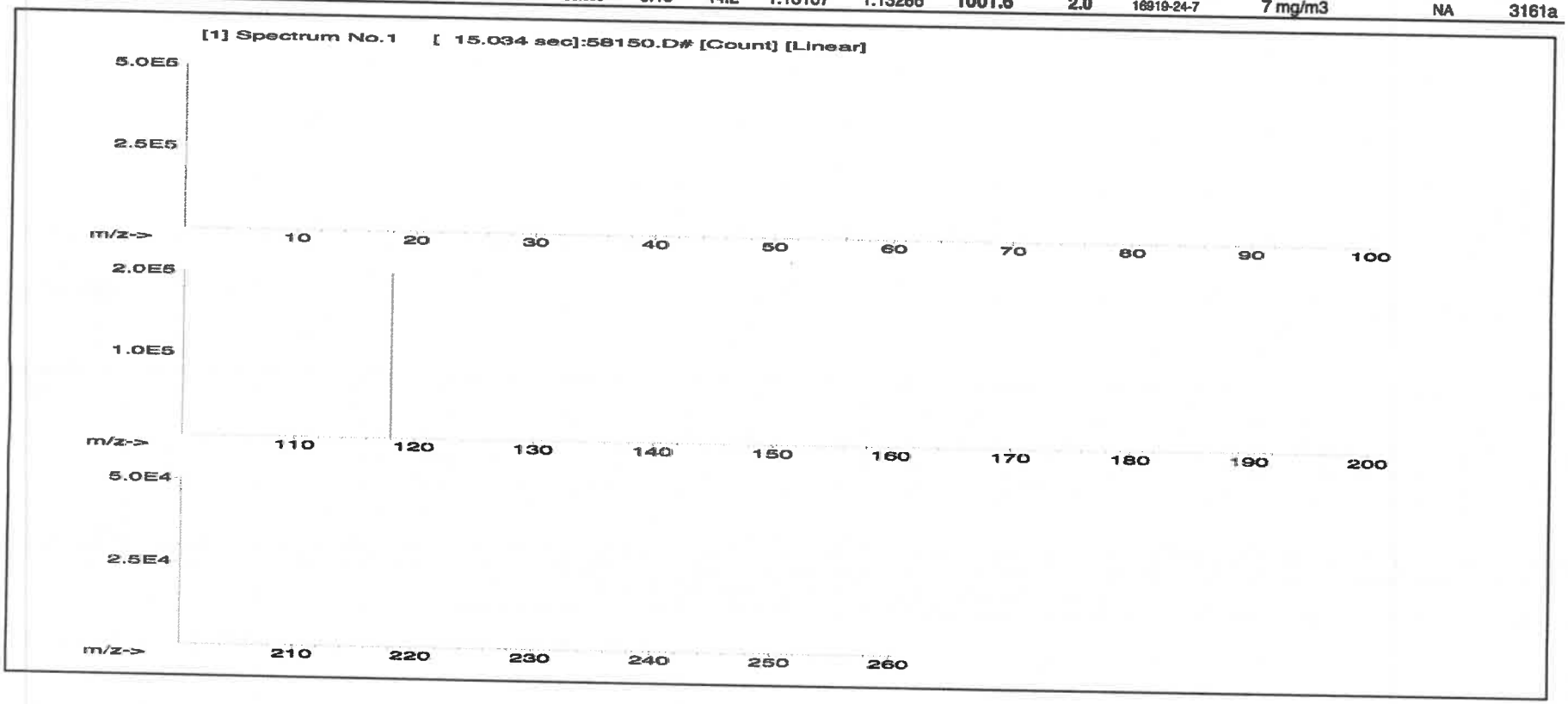
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | Lot # | |
|---|---|---|
| **Solvents:** | 21110221 | Nitric Acid |
| | 22D0562008 | Hydrochloric acid |
| 2% | 10.0 | Nitric Acid |
| 6% | 30.0 | Hydrochloric acid |
| | (mL) | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 071123 |
| Reviewed By: | Pedro L. Rentas | 071123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorostannate(IV) (Sn) | IN010 | SND042023A1 | 1000 | 99.999 | 0.10 | 44.2 | 1.13107 | 1.13286 | **1001.6** | **2.0** | 16919-24-7 | 7 mg/m3 | NA | 3161a |



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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | T | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

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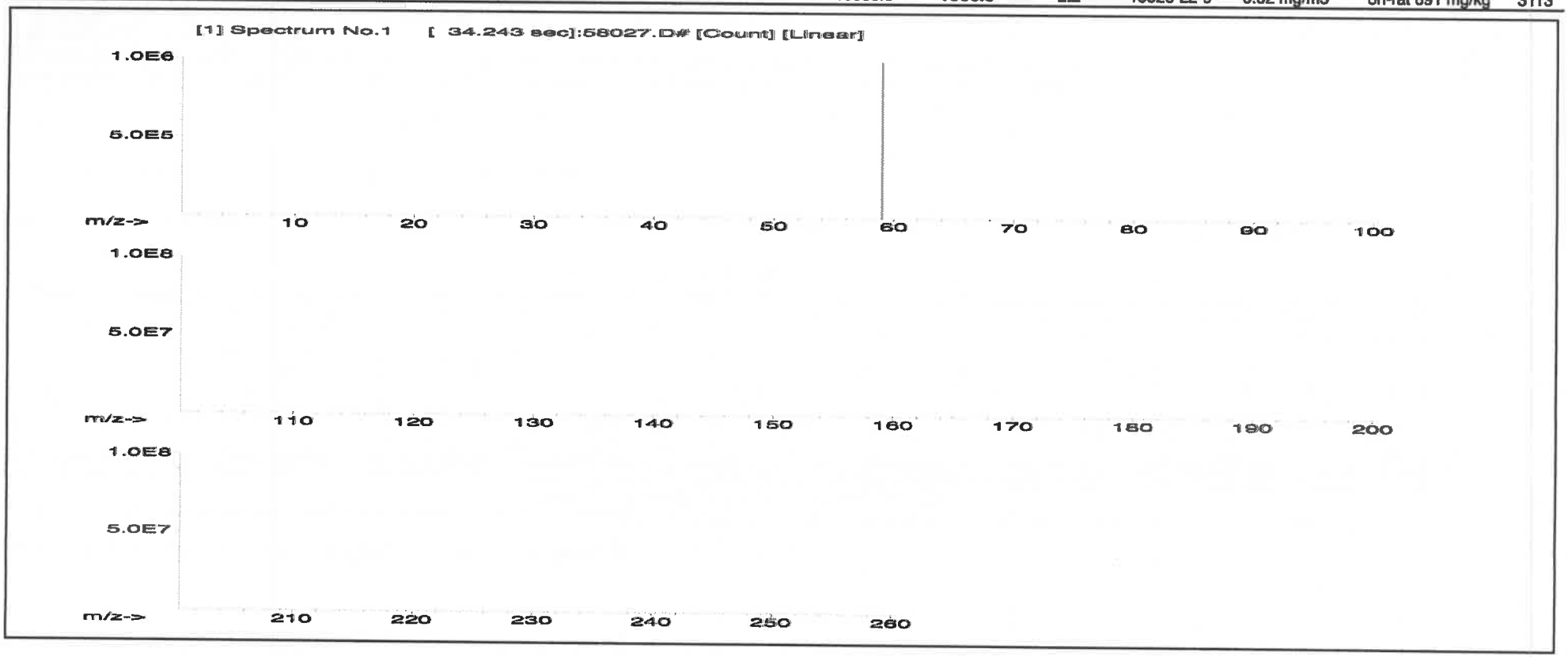
CERTIFIED WEIGHT REPORT:

| | | 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.

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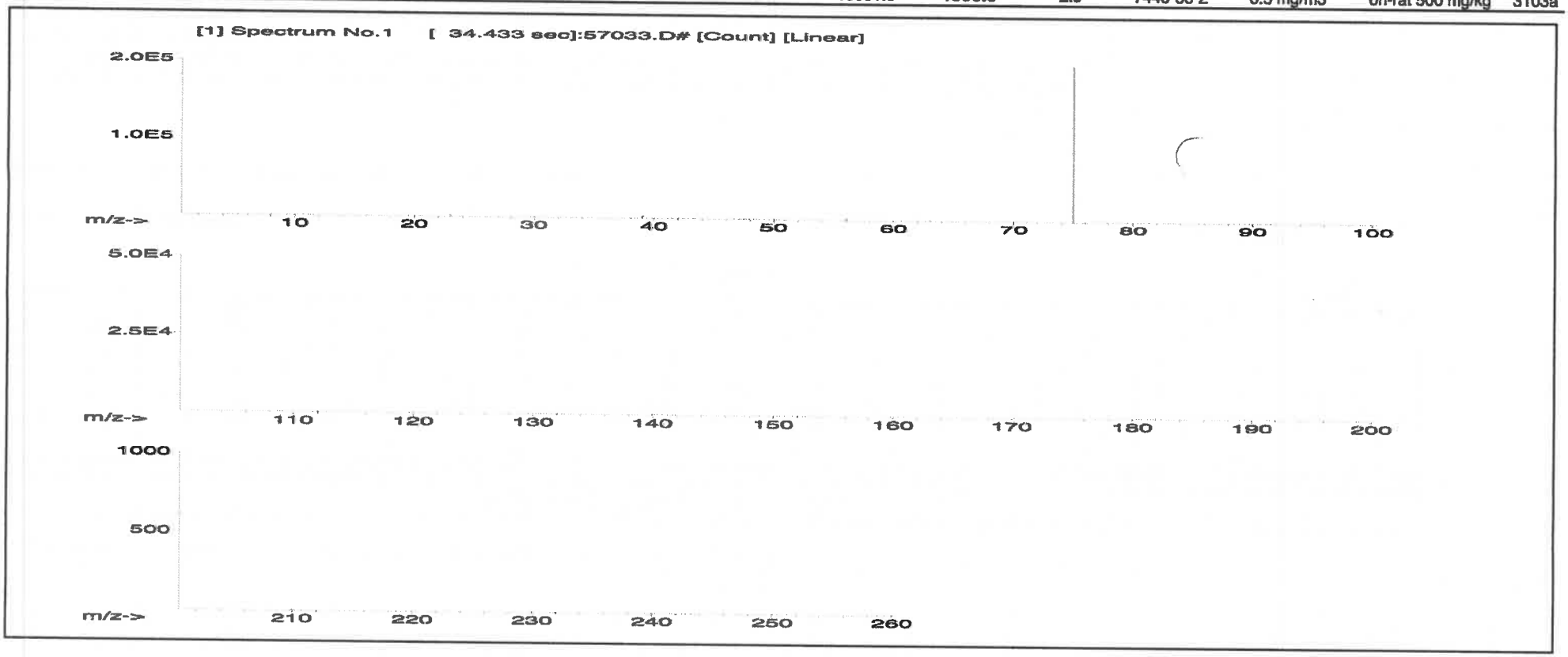
CERTIFIED **WEIGHT** REPORT:

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

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

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



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

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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R1 02/09/24. M58165

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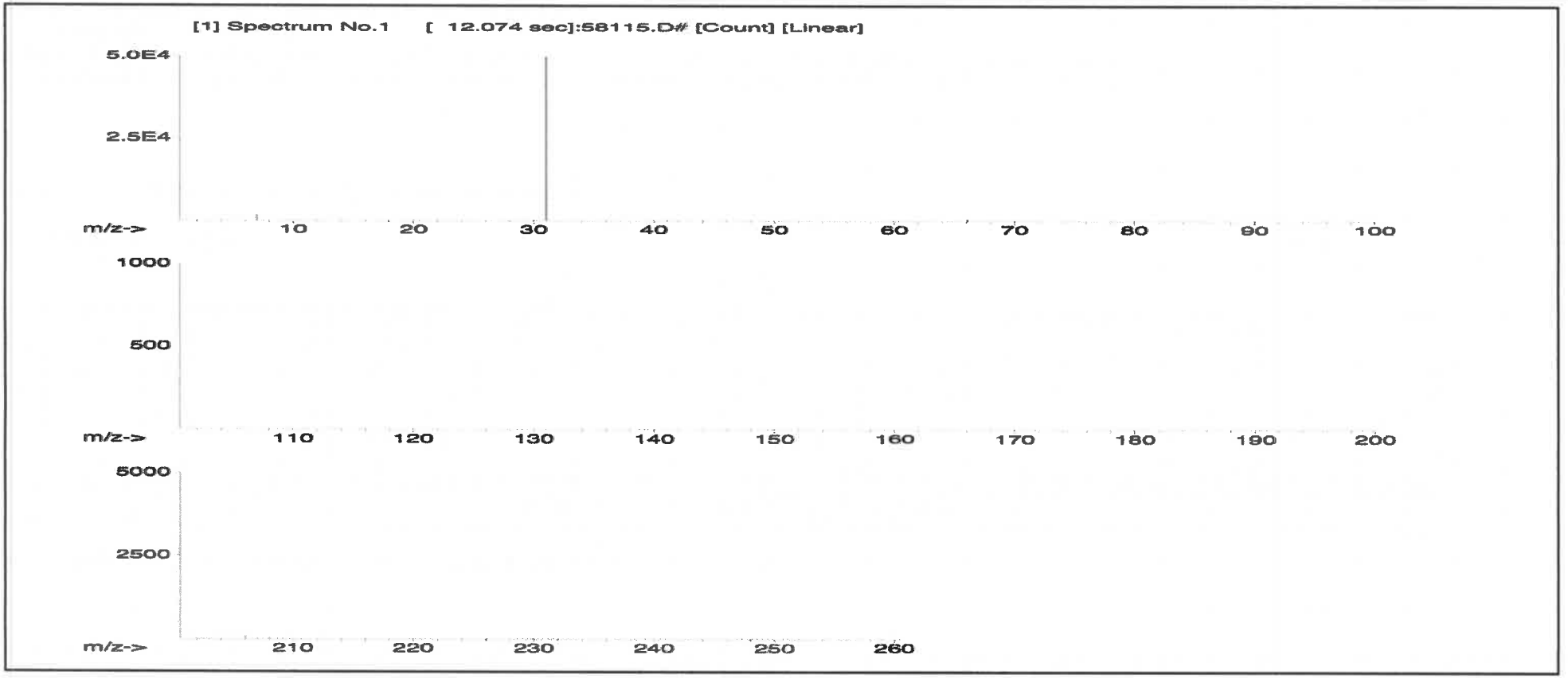
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57115** | | **Solvent:** | 21110221 | Nitric Acid |
| **Lot Number:** | **041723** | | | | |
| **Description:** | **Phosphorous (P)** | | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 041726 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 041723 |
| Reviewed By: | Pedro L. Rentas | 041723 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 10000 | 99.999 | 0.10 | 27.5 | 72.7287 | 72.7289 | **10000.0** | **20.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3186 |



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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

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CERTIFIED WEIGHT REPORT:

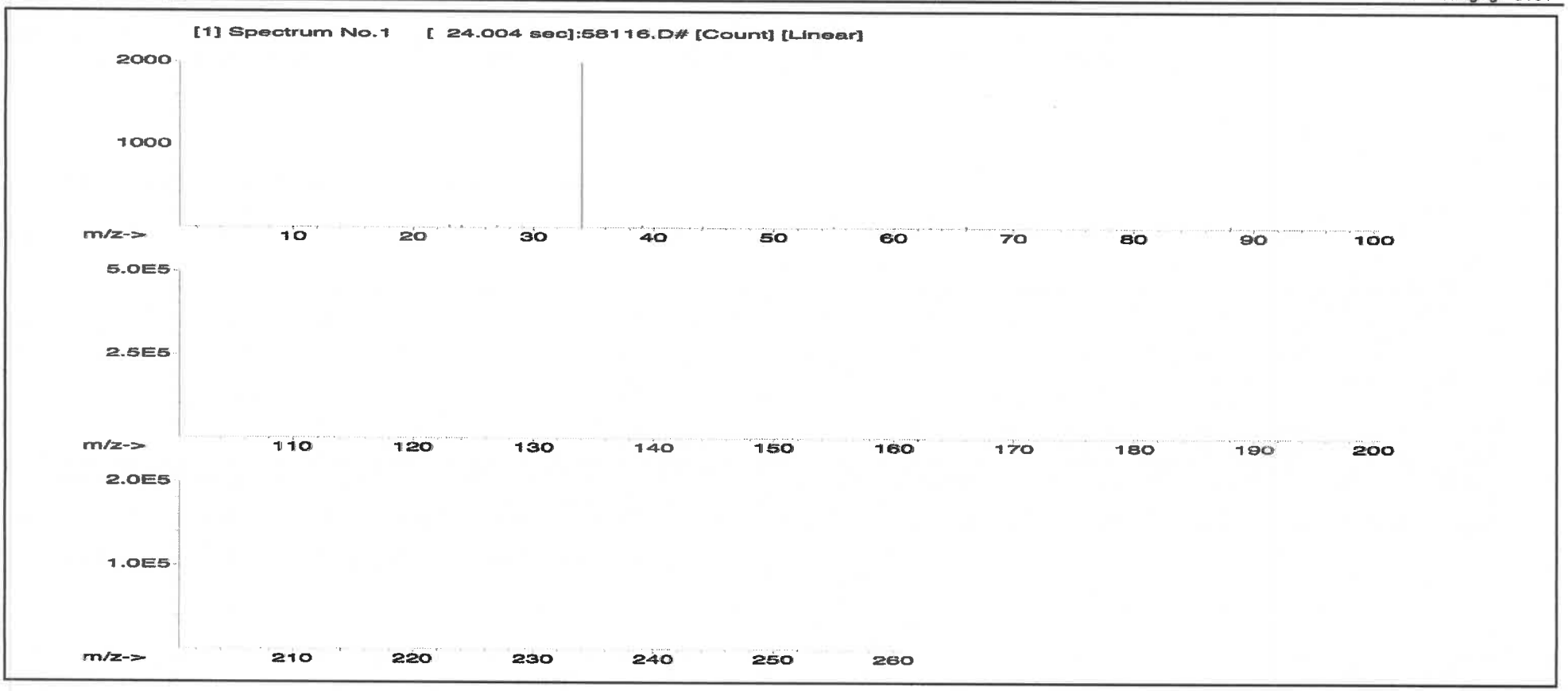
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

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

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

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

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



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**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

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# Certificate of Analysis

R: 02/22/24 M5942

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

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

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

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

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

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 17, 2022

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

### 11.2 Lot Expiration Date

- **June 17, 2027**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

*Certified Reference Material CRM*

M5961 R: 6/11/24

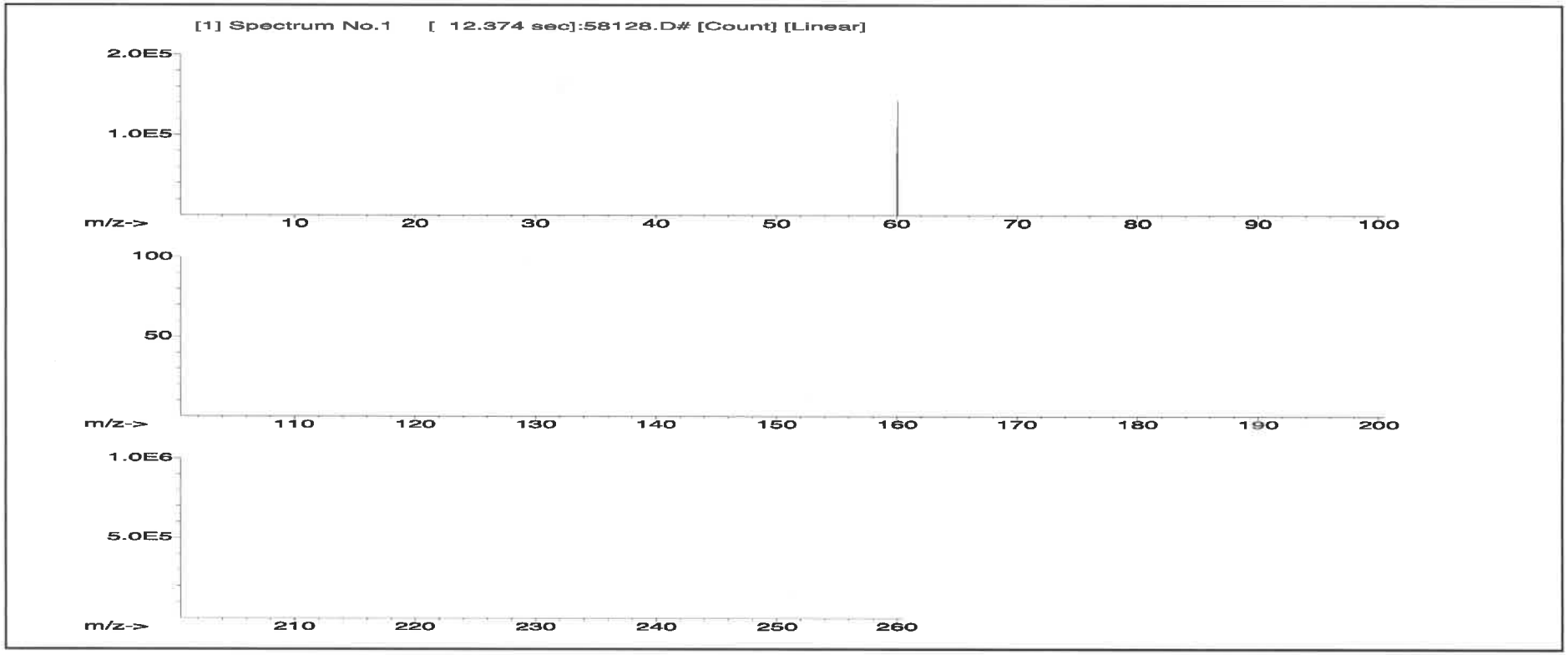
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

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

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

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



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www.absolutestandards.com

***Certified Reference Material CRM***

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AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass 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.

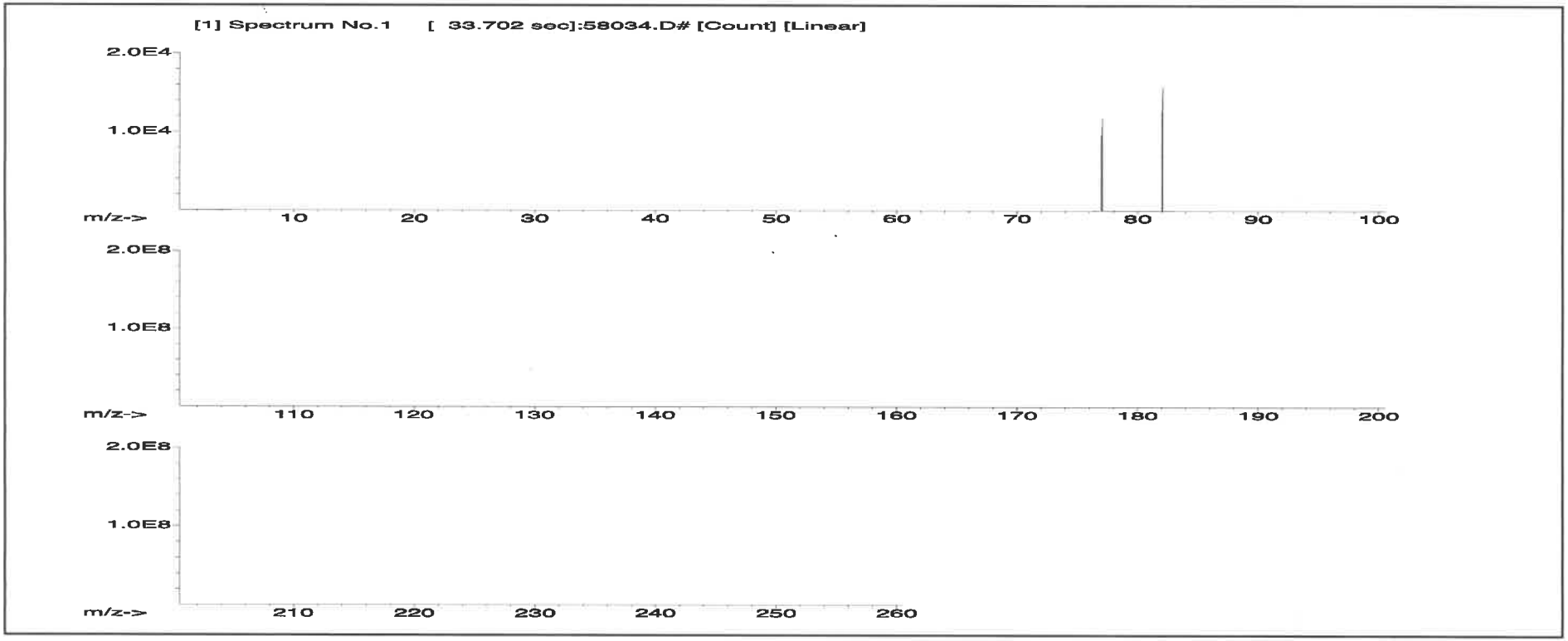
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

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

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

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



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***Certified Reference Material CRM***

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



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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

M5976, M5977
R: 02/22/24

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

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

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

**11.2 Lot Expiration Date**

**- July 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation

**Certificate Approved By:**

Michael Booth
Director, Technical

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

*Certified Reference Material CRM*

M5981 R:6/11/24

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

## CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: |
|---|---|---|---|
| **Part Number:** | **57092** | 24002546 | Nitric Acid |
| **Lot Number:** | **060724** | | |
| **Description:** | **Uranium (U)** | | |
| | | 2.0% | 40.0 (mL) Nitric Acid |
| **Expiration Date:** | 060727 | | |
| **Recommended Storage:** | Ambient (20 °C) | | |
| **Nominal Concentration (µg/mL):** | **1000** | | |
| **NIST Test Number:** | 6UTB | 5E-05 Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.07 | 0.100 Flask Uncertainty | |

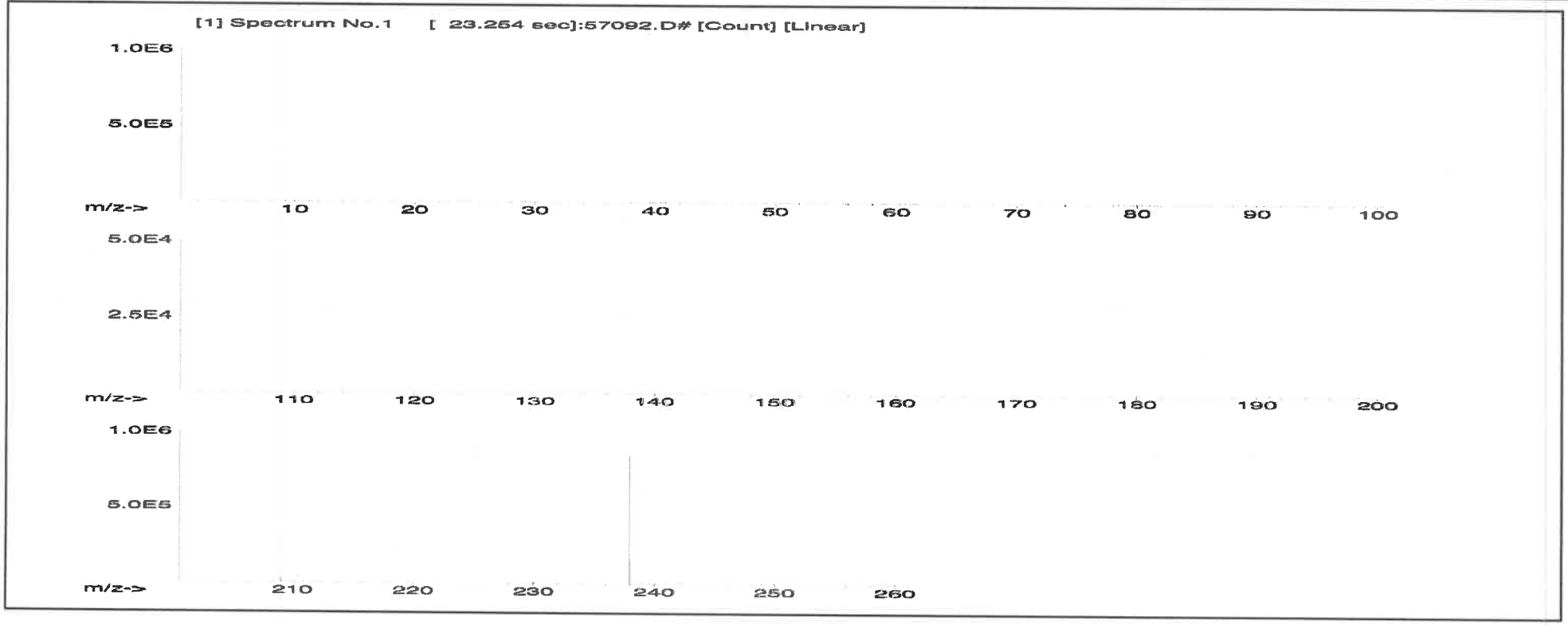
Giovanni Esposito

| Formulated By: | Giovanni Esposito | 060724 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 060724 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Uranyl nitrate hexahydrate (U) | 58192 | 041524 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13520-83-7 | 0.05 mg/m3 | orl-rat 1040 mg/kg | 3164 |



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

*Certified Reference Material CRM*

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

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

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | 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).



Part # **57092** Lot # **060724**



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

*Certified Reference Material CRM*

M5983 R: 6/11/24

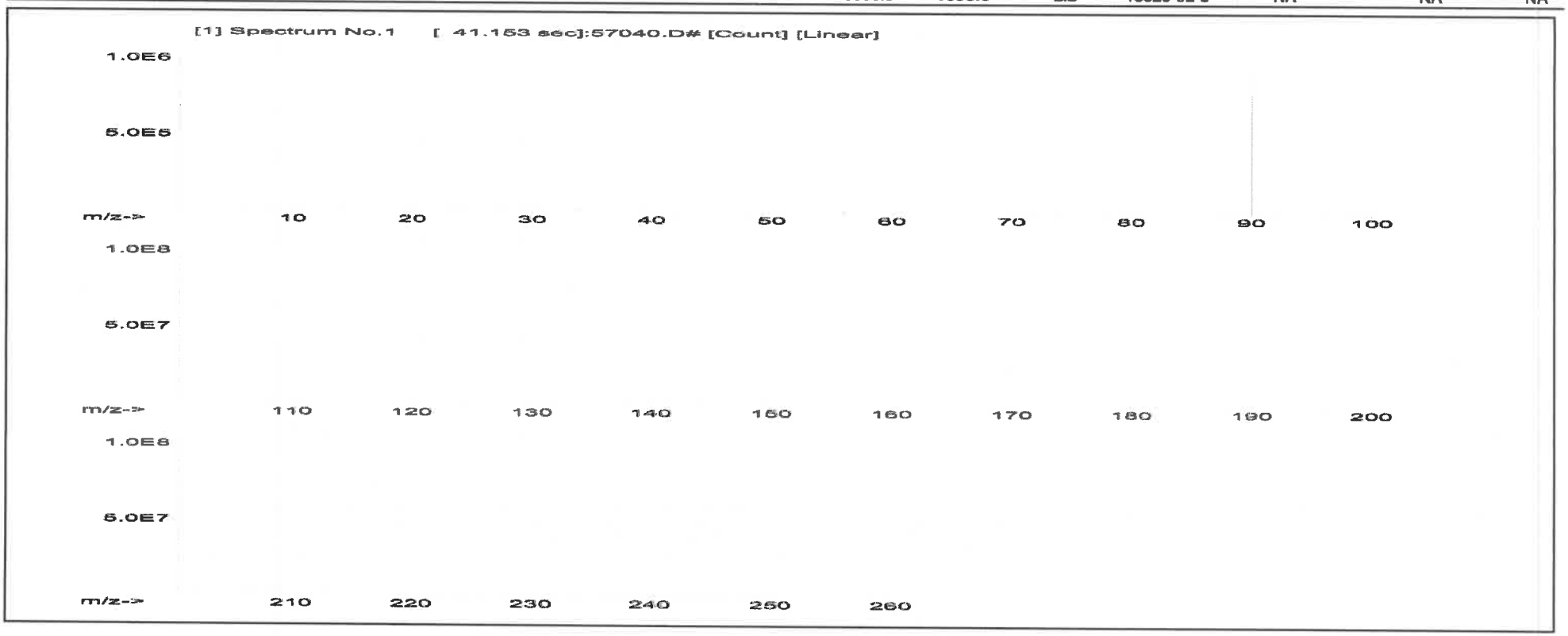
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57040** | 21110221 | Nitric Acid | |
| **Lot Number:** | **071423** | | | |
| **Description:** | **Zirconium (Zr)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071426 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 071423 |
| Reviewed By: | Pedro L. Rentas | 071423 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zirconyl chloride octahydrate (Zr) | 58140 | 070621 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 13520-92-8 | NA | NA | NA |



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

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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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 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"**

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 21, 2023

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

**11.2 Lot Expiration Date**

**- June 21, 2028**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

R! 08/22/24 M6058, M6059

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-CLP-4 |
| Lot Number: | V2-MEB746172 |
| Matrix: | 3% (v/v) HNO3<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:** 1.032 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 190605 |
| B | Calculated | | See Sec. 4.2 |
| Mo | ICP Assay | traceable to 3134 | U2-MO739068 |
| Si | ICP Assay | Traceable to 3150 | S2-SI702546 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | traceable to 3162a | T2-TI725816 |

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

August 12, 2024

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

### 11.2 Lot Expiration Date

**- August 12, 2029**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Joseph Burns
Custom VS Manager

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
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***Certified Reference Material CRM***

M6079 R: 9/30/24

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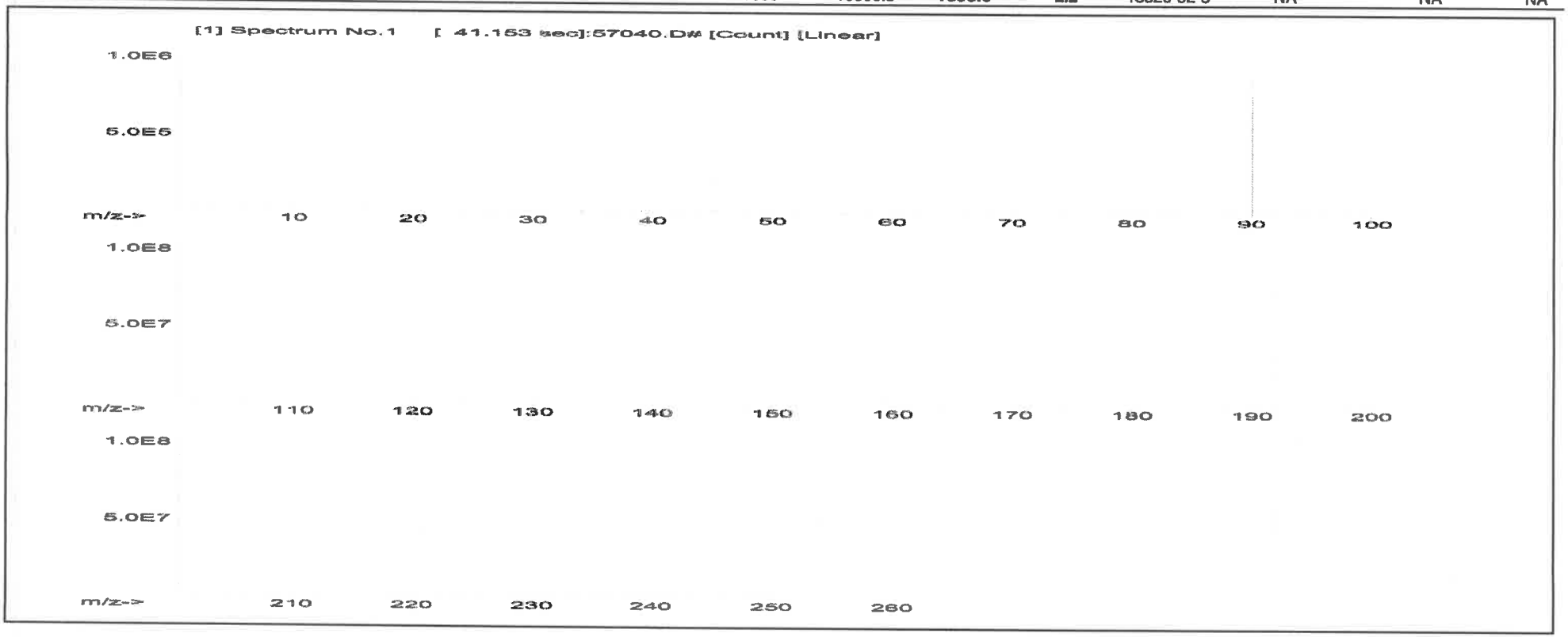
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57040** | 21110221 | Nitric Acid | | |
| **Lot Number:** | **071423** | | | | |
| **Description:** | **Zirconium (Zr)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 071426 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 071423 |
| Reviewed By: | Pedro L. Rentas | 071423 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zirconyl chloride octahydrate (Zr) | 58140 | 070621 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 13520-92-8 | NA | NA | NA |



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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:**

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

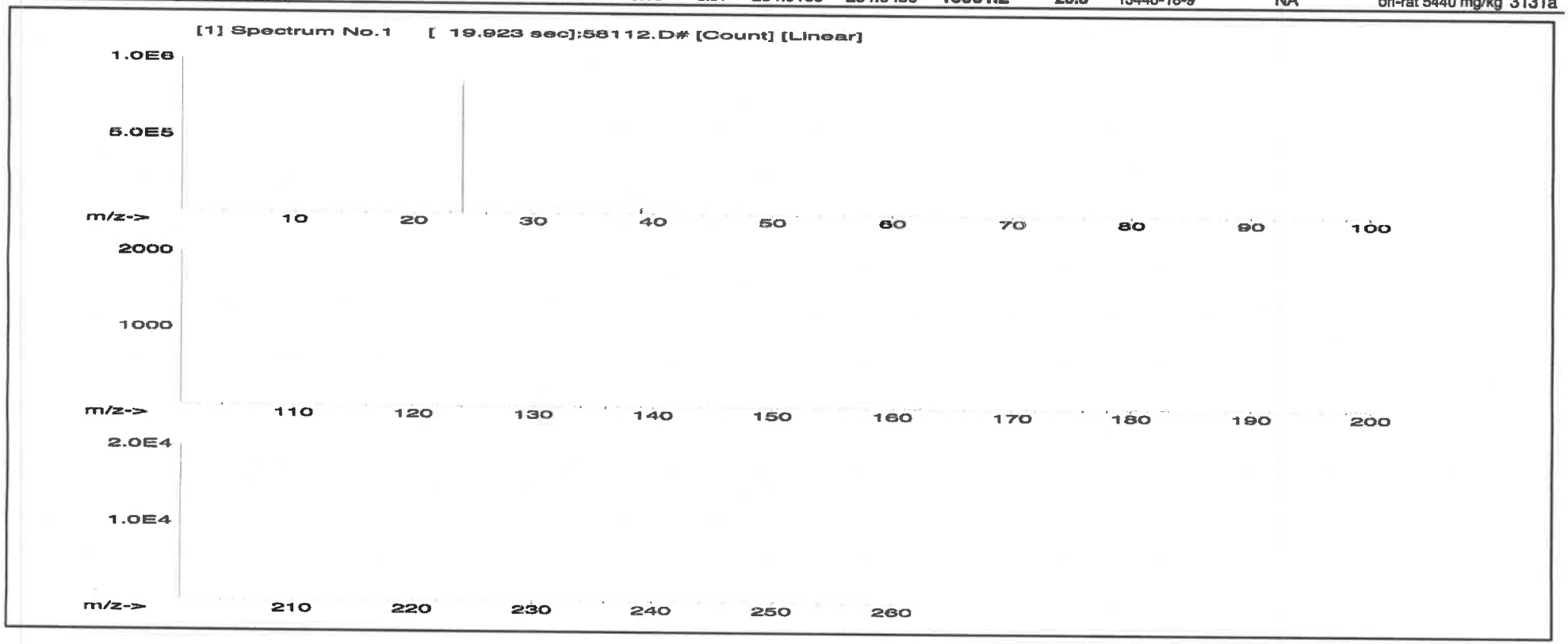
M 6127

| | | | | |
|---|---|---|---|---|
| **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:

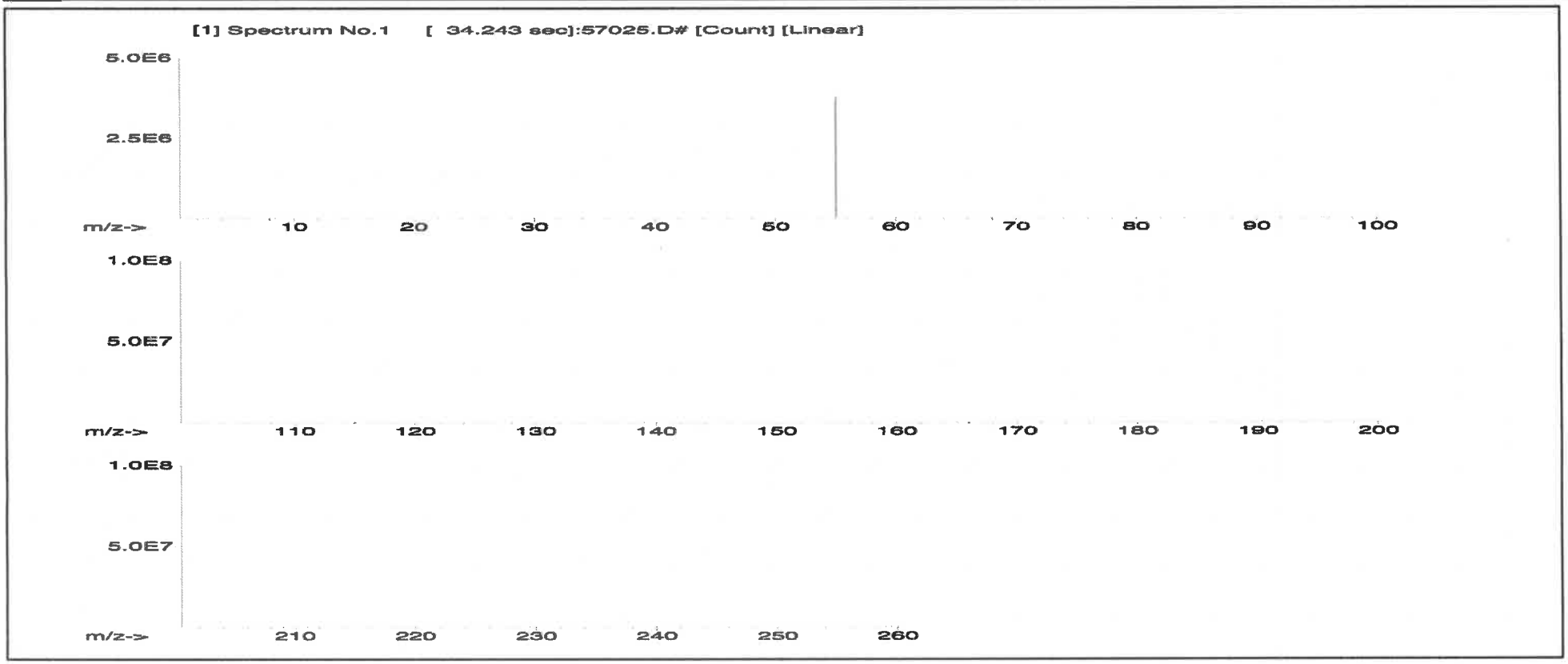
R->1/13/25
M6128

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **58025** | **Solvent:** | 24002546 | Nitric Acid |
| **Lot Number:** | **101124** | | | |
| **Description:** | **Manganese (Mn)** | 2% | 80.0 (mL) | Nitric Acid |
| **Expiration Date:** | 101127 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 4000.2 | 0.10 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 101124 |
| Reviewed By: | Pedro L. Rentas | 101124 |

| | Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Manganese(II) nitrate hydrate (Mn) | IN031 | MNM092020A1 | 1000 | 99.999 | 0.10 | 20.8 | 19.2322 | 19.2344 | **1000.1** | **2.0** | 15710-66-4 | 5 mg/m3 | orl-rat >300mg/kg | 3132 |



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

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

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

(T) = Target analyte

## Physical Characterization:

**Certified by:**

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

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

INORGANIC VENTURES
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# Certificate of Analysis

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

M6137 R→10/3/24

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGSI1 |
| Lot Number: | V2-SI744713 |
| Matrix: | tr. HNO3<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Silicon |
| Starting Material: | Silica |
| Starting Material Lot#: | 1771 |
| Starting Material Purity: | 99.9981% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 999 ± 6 µg/mL

**Density:** 1.003 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| | |
|---|---|
| **Assay Method #1** | **999 ± 5 µg/mL**<br>ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546 |
| **Assay Method #2** | **1000 ± 7 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 | < | 0.000310 | M | Eu | < | 0.000310 | O | Na | | 0.001656 | M | Se | < | 0.022000 | M | Zn | < | 0.002500 |
| M | Al | | 0.010787 | M | Fe | < | 0.027000 | M | Nb | < | 0.001300 | s | Si | < | | O | Zr | < | 0.001900 |
| M | As | < | 0.001900 | M | Ga | < | 0.001300 | M | Nd | < | 0.000310 | M | Sm | < | 0.000310 | | | | |
| M | Au | < | 0.000910 | M | Gd | < | 0.000310 | M | Ni | < | 0.005500 | M | Sn | | 0.000096 | | | | |
| M | B | | 0.016180 | M | Ge | < | 0.001900 | M | Os | < | 0.000610 | O | Sr | | 0.000092 | | | | |
| M | Ba | | 0.000096 | M | Hf | | 0.000423 | i | P | < | | M | Ta | | 0.002542 | | | | |
| O | Be | < | 0.000570 | M | Hg | < | 0.000610 | M | Pb | < | 0.000310 | M | Tb | < | 0.000310 | | | | |
| M | Bi | < | 0.000310 | M | Ho | < | 0.000610 | M | Pd | < | 0.000610 | M | Te | < | 0.000910 | | | | |
| O | Ca | | 0.011557 | M | In | < | 0.000310 | M | Pr | < | 0.000310 | M | Th | < | 0.001900 | | | | |
| M | Cd | < | 0.000310 | M | Ir | < | 0.000310 | M | Pt | < | 0.000310 | M | Ti | | 0.001078 | | | | |
| M | Ce | < | 0.000610 | O | K | | 0.000577 | M | Rb | < | 0.009100 | M | Tl | < | 0.000310 | | | | |
| M | Co | < | 0.001600 | M | La | < | 0.000310 | M | Re | < | 0.000310 | M | Tm | < | 0.000310 | | | | |
| M | Cr | < | 0.010000 | O | Li | < | 0.000460 | M | Rh | < | 0.000310 | M | U | < | 0.000310 | | | | |
| M | Cs | < | 0.000310 | M | Lu | < | 0.000310 | M | Ru | < | 0.000310 | O | V | < | 0.001300 | | | | |
| M | Cu | < | 0.002500 | O | Mg | | 0.001348 | O | S | < | 0.570000 | M | W | < | 0.001900 | | | | |
| M | Dy | < | 0.000310 | M | Mn | < | 0.002500 | M | Sb | < | 0.000310 | M | Y | < | 0.000310 | | | | |
| M | Er | < | 0.000310 | M | Mo | < | 0.000310 | O | Sc | < | 0.000590 | M | Yb | < | 0.000310 | | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 28.09 +4 6 Si(OH)x(F)y2-

**Chemical Compatibility** -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away ( i.e. Do not mix with Alkaline or Rare Earths, or high levels of transition elements unless they are fluorinated. Stable with most inorganic anions with a tendency to hydrolyze forming silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

**Stability** - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

**Si Containing Samples (Preparation and Solution)** -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O ); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

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

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 28 amu | 4000 - 8000 ppt | N/A | N2, 12C16O |
| ICP-OES 212.412 nm | 0.02/0.01 µg/mL | 1 | Hf, Os, Mo, Ta |
| ICP-OES 251.611 nm | 0.012/0.003 µg/mL | 1 | Ta, U, Zn, Th |
| ICP-OES 288.158 nm | 0.03/0.004 µg/mL | 1 | Ta, Ce, Cr, Cd, Th |

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

July 10, 2024

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

### 11.2 Lot Expiration Date

- **July 10, 2029**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Custom Processing Supervisor

**Certificate Approved By:**

Muzzammil Khan
Stock Laboratory Supervisor

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

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## CERTIFIED WEIGHT REPORT:

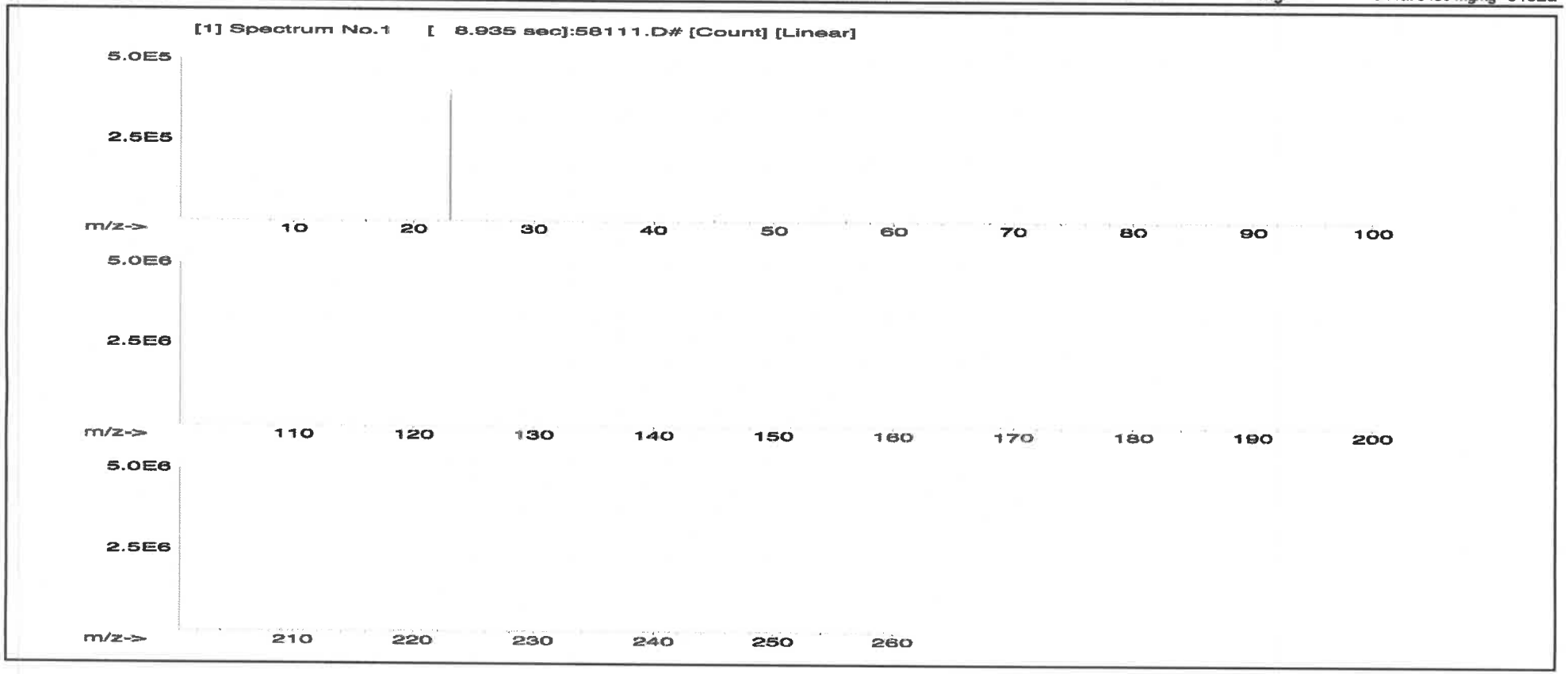
R->1/13/25

M6144

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | **Lot #** | | |
| **Lot Number:** | **072424** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Sodium (Na)** | | | | |
| | | 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072427 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.2 | 0.10 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 072424 |
| Reviewed By: | Pedro L. Rentas | 072424 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Sodium nitrate (Na) | IN036 | NAV012015I1 | 10000 | 99.999 | 0.10 | 26.9 | 148.7096 | ###### | **10000.0** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58030
**Lot Number:** 121724
**Description:** Zinc (Zn)

R → 1/13/25

M6145

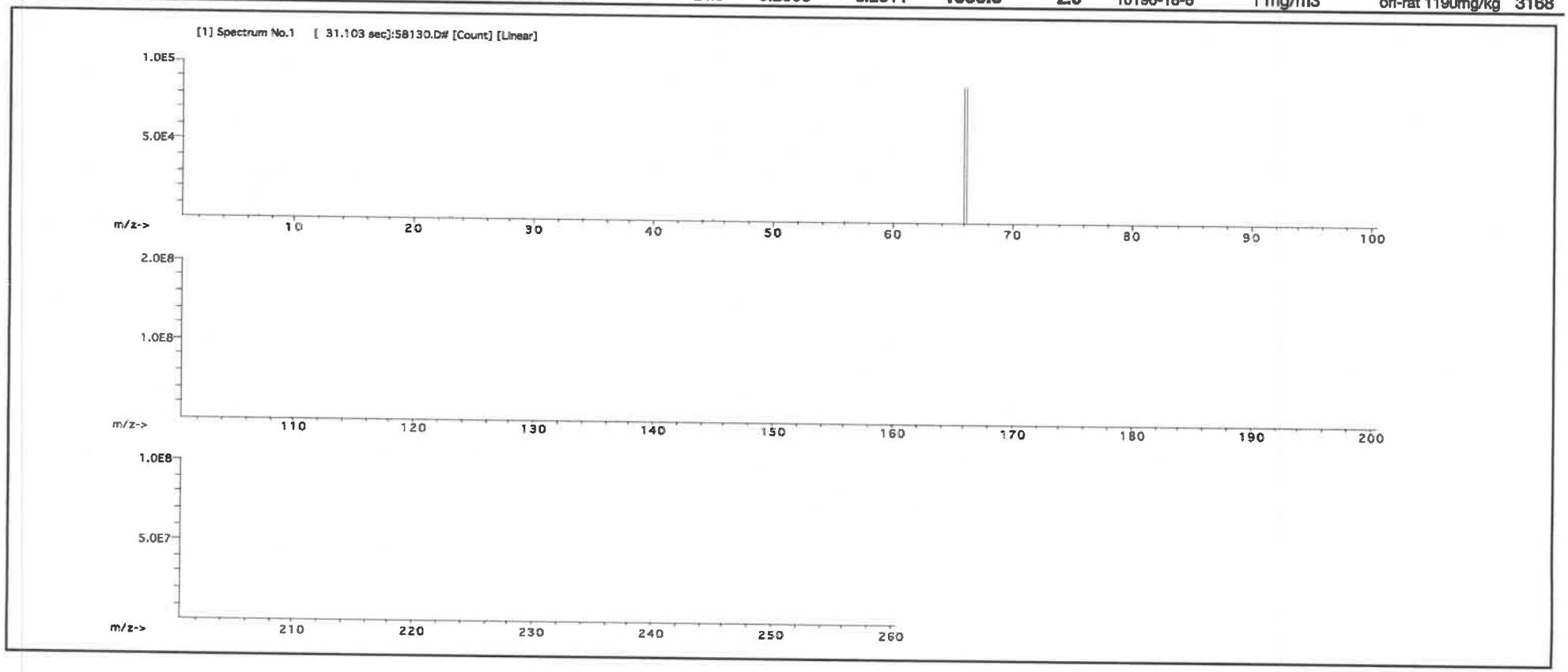
**Expiration Date:** 121727
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | | | | Lot # | |
|---|---|---|---|---|---|
| **Solvent:** | 24012496 | Nitric Acid | | | |
| | 2% | 40.0 (mL) | Nitric Acid | | |
| | 5E-05 | Balance Uncertainty | | | |
| **Weight shown below was diluted to (mL):** | 2000.1 | 0.10 | Flask Uncertainty | | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 121724 |
| Reviewed By: | Pedro L. Rentas | 121724 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zinc nitrate hexahydrate (Zn) | IN016 | ZNE032021A1 | 1000 | 99.999 | 0.10 | 24.3 | 8.2308 | 8.2311 | **1000.0** | **2.0** | 10196-18-6 | 1 mg/m3 | ori-rat 1190mg/kg | 3168 |



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

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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

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

R : 4/20/21

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

M6150

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

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

Safety Data Sheets Available Upon Request

### (A) *SAMPLE DESCRIPTION*

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

### (B) *BREAKAGE OR MISSING ITEMS*

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

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

### (C) *ANALYSIS OF SAMPLES*

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

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

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

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

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

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

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

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

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R-> 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay (as HCl) (by acid-base titrn) | 36.5 – 38.0 % | 37.9 % |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Specific Gravity at 60°/60°F | 1.185 – 1.192 | 1.191 |
| ACS – Bromide (Br) | ≤ 0.005 % | < 0.005 % |
| ACS – Extractable Organic Substances | ≤ 5 ppm | < 1 ppm |
| ACS – Free Chlorine (as $Cl_2$) | ≤ 0.5 ppm | < 0.5 ppm |
| Phosphate ($PO_4$) | ≤ 0.05 ppm | < 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.5 ppm | < 0.3 ppm |
| Sulfite ($SO_3$) | ≤ 0.8 ppm | 0.3 ppm |
| Ammonium ($NH_4$) | ≤ 3 ppm | < 1 ppm |
| Trace Impurities – Arsenic (As) | ≤ 0.010 ppm | < 0.003 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 10.0 ppb | 1.3 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 3.0 ppb |
| Trace Impurities – Barium (Ba) | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities – Beryllium (Be) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Bismuth (Bi) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Boron (B) | ≤ 20.0 ppb | < 5.0 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Calcium (Ca) | ≤ 50.0 ppb | 163.0 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 1.0 ppb | 0.7 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gallium (Ga) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Germanium (Ge) | ≤ 3.0 ppb | < 2.0 ppb |
| Trace Impurities – Gold (Au) | ≤ 4.0 ppb | 0.6 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities – Iron (Fe) | ≤ 15 ppb | 6 ppb |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Lead (Pb) | ≤ 1.0 ppb | < 0.5 ppb |
| Trace Impurities – Lithium (Li) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 10.0 ppb | 2.9 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | 0.1 ppb |
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 3.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 4.0 ppb | < 0.3 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 1.0 ppb | 0.8 ppb |
| Trace Impurities – Potassium (K) | ≤ 9.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only | | < 1.0 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | < 10.0 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | 0.5 ppb |
| Trace Impurities – Sodium (Na) | ≤ 100.0 ppb | 2.3 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 1.0 ppb | 1.6 ppb |
| Trace Impurities – Thallium (Tl) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | 4.0 ppb |
| Trace Impurities – Titanium (Ti) | ≤ 1.0 ppb | 1.5 ppb |
| Trace Impurities – Vanadium (V) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | 0.8 ppb |
| Trace Impurities – Zirconium (Zr) | ≤ 1.0 ppb | 0.3 ppb |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

| Test | Specification | Result |
|---|---|---|

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

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Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

R→1/7/23
M6153

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGSR10 |
| Lot Number: | V2-SR745329 |
| Matrix: | 2% (v/v) HNO3 |
| Value / Analyte(s): | 10 000 µg/mL ea: Strontium |
| Starting Material: | Strontium Carbonate |
| Starting Material Lot#: | 2647 |
| Starting Material Purity: | 99.9960% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10081 ± 39 µg/mL

**Density:** 1.030 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **10059 ± 50 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

**Assay Method #2** **10087 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000960 | M | Eu | < | 0.000480 | O | Na | | 0.002964 | M | Se | < | 0.042000 | M | Zn | 0.004560 |
| M | Al | | 0.003420 | O | Fe | | 0.013225 | M | Nb | < | 0.000480 | O | Si | | 0.012997 | M | Zr | 0.001847 |
| M | As | < | 0.007200 | M | Ga | < | 0.002900 | M | Nd | < | 0.000480 | M | Sm | < | 0.000480 | | | |
| M | Au | < | 0.003900 | M | Gd | < | 0.000480 | O | Ni | | 0.001482 | M | Sn | < | 0.000480 | | | |
| O | B | < | 0.003200 | M | Ge | < | 0.004800 | M | Os | < | 0.001500 | s | Sr | < | | | | |
| M | Ba | | 0.638494 | M | Hf | < | 0.000480 | O | P | < | 0.017000 | M | Ta | < | 0.000480 | | | |
| O | Be | < | 0.000450 | M | Hg | < | 0.000960 | M | Pb | | 0.010717 | M | Tb | < | 0.000480 | | | |
| M | Bi | < | 0.002000 | M | Ho | < | 0.000480 | M | Pd | < | 0.002000 | M | Te | < | 0.016000 | | | |
| O | Ca | | 0.025083 | M | In | < | 0.008600 | M | Pr | | 0.000547 | M | Th | < | 0.000480 | | | |
| M | Cd | < | 0.000960 | M | Ir | < | 0.000480 | M | Pt | < | 0.000480 | M | Ti | | 0.004560 | | | |
| M | Ce | | 0.000661 | O | K | | 0.025083 | M | Rb | < | 0.003400 | M | Tl | < | 0.000480 | | | |
| M | Co | | 0.001527 | M | La | < | 0.000480 | M | Re | < | 0.000480 | M | Tm | | 0.004332 | | | |
| O | Cr | < | 0.004700 | O | Li | < | 0.005600 | O | Rh | < | 0.013000 | M | U | < | 0.000480 | | | |
| M | Cs | < | 0.000480 | M | Lu | < | 0.000480 | M | Ru | < | 0.000960 | M | V | < | 0.000960 | | | |
| O | Cu | < | 0.003800 | O | Mg | | 0.001048 | O | S | < | 0.045000 | M | W | < | 0.002400 | | | |
| M | Dy | < | 0.000960 | O | Mn | | 0.000319 | M | Sb | < | 0.009600 | O | Y | < | 0.001200 | | | |
| M | Er | < | 0.000480 | M | Mo | < | 0.002900 | M | Sc | < | 0.001500 | M | Yb | < | 0.000480 | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

**Chemical Compatibility** - Soluble in HCl, and $HNO_3$. Avoid $H_2SO_4$, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

**Stability** - 2-100 ppb levels stable for months in 1% $HNO_3$ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% $HNO_3$ / LDPE container.

**Sr Containing Samples (Preparation and Solution)** -Metal (Best dissolved in diluted $HNO_3$ ); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

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

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 88 amu | 1200 ppt | N/A | 72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2 |
| ICP-OES 407.771 nm | 0.0004 / 0.00006 µg/mL | 1 | U, Ce |
| ICP-OES 421.552 nm | 0.0008 / 0.00004 µg/mL | 1 | Rb |
| ICP-OES 460.733 nm | 0.07 / 0.003 µg/mL | 1 | Ce |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

August 26, 2024

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

### 11.2 Lot Expiration Date

**- August 26, 2029**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Custom Processing Supervisor

**Certificate Approved By:**

Muzzammil Khan
Stock Laboratory Supervisor

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

M6156

***Certified Reference Material CRM***

R→ 6/12/24

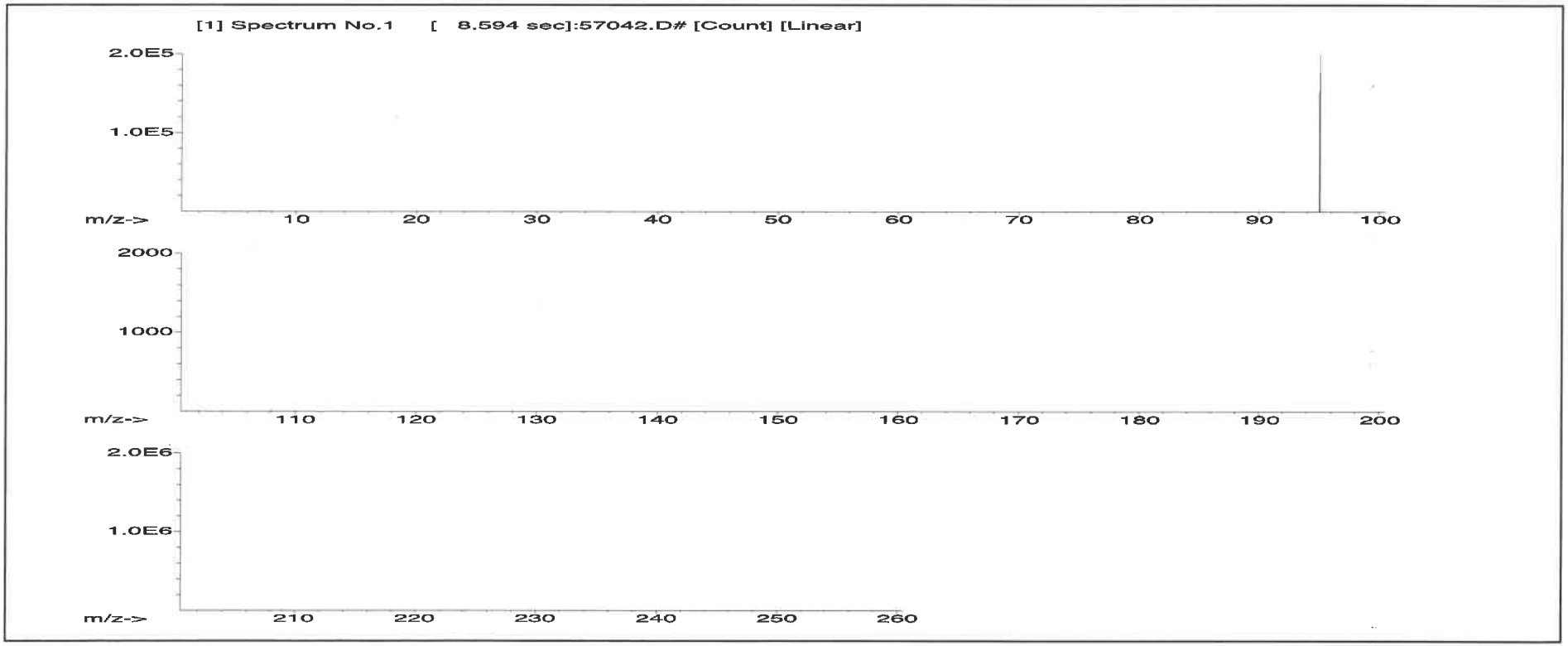
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: |
|---|---|---|---|
| **Part Number:** | **57042** | | |
| **Lot Number:** | **032123** | | |
| **Description:** | **Molybdenum (Mo)** | MKBQ8597V | Ammonium hydroxide |
| | | 0.5% | 15.0 (mL) Ammonium hydroxide |
| **Expiration Date:** | 032126 | | |
| **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 | 032123 |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 032123 |

| | 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 | 112322 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.4 | **1000.0** | **2.1** | 13106-76-8 | 5 mg(Mo)/m3 | orl-rat 333 mg/kg | 3134 |



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***Certified Reference Material CRM***

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

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

**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).

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.7 % |
| Appearance | Passes Test | Passes Test |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Ignition | ≤ 2 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.08 ppm | < 0.03 ppm |
| Phosphate ($PO_4$) | ≤ 0.10 ppm | < 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.2 ppm | < 0.2 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 40.0 ppb | < 1.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities - Barium (Ba) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Beryllium (Be) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 50 ppb | < 1 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 2.3 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Copper (Cu) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 20 ppb | < 10 ppb |
| Trace Impurities - Gold (Au) | ≤ 20 ppb | < 5 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | 100 ppb |
| Trace Impurities - Iron (Fe) | ≤ 40.0 ppb | < 1.0 ppb |
| Trace Impurities - Lead (Pb) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Lithium (Li) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Magnesium (Mg) | ≤ 20 ppb | < 1 ppb |
| Trace Impurities - Manganese (Mn) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 20.0 ppb | < 5.0 ppb |

>>> Continued on page 2 >>>

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M6156

***Certified Reference Material CRM***

R→ 6/12/24

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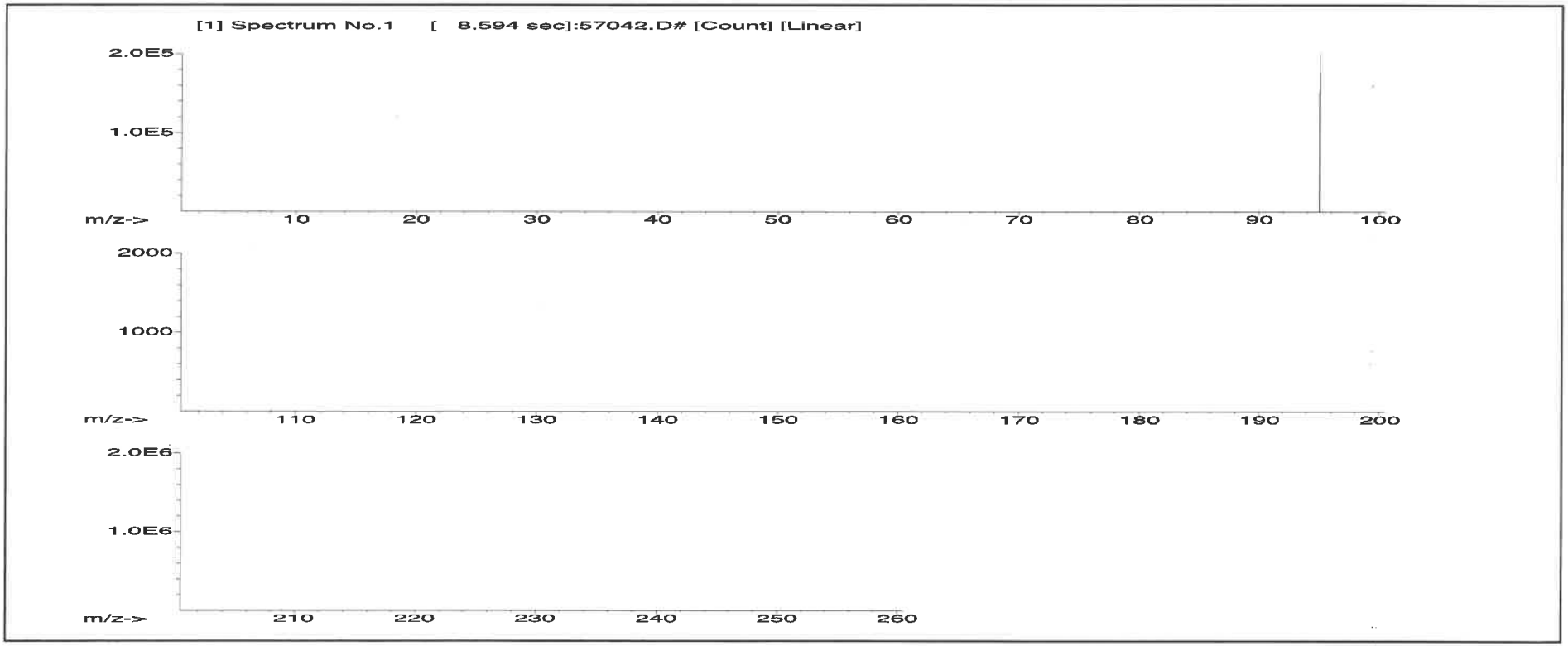
CERTIFIED WEIGHT REPORT:

**Part Number:** 57042
**Lot Number:** 032123
**Description:** Molybdenum (Mo)
**Expiration Date:** 032126
**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 032123
Reviewed By: Pedro L. Rentas 032123

| | 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 | 112322 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.4 | **1000.0** | **2.1** | 13106-76-8 | 5 mg(Mo)/m3 | orl-rat 333 mg/kg | 3134 |



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

***Certified Reference Material CRM***

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

**Instrumental Analysis by Inductively Coupled Plasma Mass 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:**

**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).

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities - Potassium (K) | ≤ 50 ppb | 16 ppb |
| Trace Impurities - Silicon (Si) | ≤ 50 ppb | < 10 ppb |
| Trace Impurities - Silver (Ag) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Sodium (Na) | ≤ 150.0 ppb | < 5.0 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Tantalum (Ta) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Thallium (Tl) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Tin (Sn) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Titanium (Ti) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Vanadium (V) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Zirconium (Zr) | ≤ 10.0 ppb | < 1.0 ppb |
| Particle Count - 0.5 µm and greater | ≤ 60 par/ml | 10 par/ml |
| Particle Count - 1.0 µm and greater | ≤ 10 par/ml | 3 par/ml |

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES™
Refine your results. Redefine your industry.

A: 4/11/22

# Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | 6020ISS |
| Lot Number: | S2-MEB709511 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 10 µg/mL ea: |

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| 6-Lithium, Li6 | 10.00 ± 0.03 µg/mL | Bismuth, Bi | 10.00 ± 0.05 µg/mL |
| Holmium, Ho | 10.00 ± 0.05 µg/mL | Indium, In | 10.00 ± 0.04 µg/mL |
| Rhodium, Rh | 10.00 ± 0.07 µg/mL | Scandium, Sc | 10.00 ± 0.04 µg/mL |
| Terbium, Tb | 10.00 ± 0.04 µg/mL | Yttrium, Y | 10.00 ± 0.04 µg/mL |

**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Bi | ICP Assay | 3106 | 180815 |
| Bi | Calculated | | See Sec. 4.2 |
| Ho | ICP Assay | 3123a | 090408 |
| Ho | EDTA | 928 | 928 |
| In | ICP Assay | 3124a | 110516 |
| In | EDTA | 928 | 928 |
| In | Calculated | | See Sec. 4.2 |
| Li6 | Gravimetric | | See Sec. 4.2 |
| Rh | ICP Assay | 3144 | 070619 |
| Sc | ICP Assay | 3148a | 100701 |
| Sc | EDTA | 928 | 928 |
| Tb | ICP Assay | 3157a | 100518 |
| Tb | EDTA | 928 | 928 |
| Tb | Calculated | | See Sec. 4.2 |
| Y | ICP Assay | 3167a | 120314 |
| Y | EDTA | 928 | 928 |
| Y | Calculated | | See Sec. 4.2 |

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Certified Abundance:**

**IV's Certified Abundance**

| Isotope | Atom % |
|---|---|
| Lithium Li6 | 95.6 ± 0.3 |
| Lithium Li7 | 4.4 ± 0.1 |

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

September 03, 2021

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

**11.2 Lot Expiration Date**

**- September 03, 2026**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

# QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

## (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

## (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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

## (C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

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

**ICSA-0803, Inferferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this solution by ICP-MS.

**ICSB-0803, Analytes, mixed with ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this ICSAB solution by ICP-MS.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803**

ICSA: M5873

ICSB: M5874

| Element | CRQL | Part A (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) | Part A +Part B (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 20.0 | [100000] | | | [100000] | | |
| Sb | 2.0 | (1.5) | -2.5 | 5.5 | (22.0) | 18.0 | 26.0 |
| As | 1.0 | (0.1) | -1.9 | 2.1 | 19.0 | 16.2 | 21.9 |
| Ba | 10.0 | (1.2) | -18.8 | 21.2 | (22.0) | 2.0 | 42.0 |
| Be | 1.0 | (0) | -2.0 | 2.0 | 19.0 | 16.2 | 21.9 |
| Cd | 1.0 | (0.7) | -1.3 | 2.7 | 20.0 | 17.0 | 23.0 |
| Ca | 500 | [100000] | | | [100000] | | |
| C | | [200000] | | | [200000] | | |
| Cl | | [1000000] | | | [1000000] | | |
| Cr | 2.0 | (21.0) | 17.0 | 25.0 | 40.0 | 34.0 | 46.0 |
| Co | 1.0 | (1.0) | -1.0 | 3.0 | 20.0 | 17.0 | 23.0 |
| Cu | 2.0 | (8.0) | 4.0 | 12.0 | (25.0) | 21.0 | 29.0 |
| Fe | 200 | [100000] | | | [100000] | | |
| Pb | 1.0 | (4.0) | 2.0 | 6.0 | 25.0 | 21.3 | 28.8 |
| Mg | 500 | [100000] | | | [100000] | | |
| Mn | 1.0 | (7.0) | 5.0 | 9.0 | 27.0 | 23.0 | 31.1 |
| Mo | | [2000] | | | [2000] | | |
| Ni | 1.0 | (6.0) | 4.0 | 8.0 | 24.0 | 20.4 | 27.6 |
| P | | [100000] | | | [100000] | | |
| K | 500 | [100000] | | | [100000] | | |
| Se | 5.0 | (0.3) | -9.7 | 10.3 | (19.0) | 9.0 | 29.0 |
| Ag | 1.0 | (0) | -2.0 | 2.0 | 18.0 | 15.3 | 20.7 |
| Na | 500 | [100000] | | | [100000] | | |
| S | | [100000] | | | [100000] | | |
| Tl | 1.0 | (0) | -2.0 | 2.0 | 21.0 | 17.9 | 24.2 |
| Ti | | [2000] | | | [2000] | | |
| V | 5.0 | (0.5) | -9.5 | 10.5 | (19.0) | 9.0 | 29.0 |
| Zn | 5.0 | (11.0) | 1.0 | 21.0 | (29.0) | 19.0 | 39.0 |

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

# QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

## (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix**. For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

## (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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

## (C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS Part A and Part B target analytes when diluted as directed.

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



*The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.*

**ICSA-0803, Inferferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this solution by ICP-MS.

**ICSB-0803, Analytes, mixed with ICSA-0803, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this ICSAB solution by ICP-MS.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803**

ICSA: M5873

ICSB: M5874

| Element | CRQL | Part A (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) | Part A +Part B (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 20.0 | [100000] | | | [100000] | | |
| Sb | 2.0 | (1.5) | -2.5 | 5.5 | (22.0) | 18.0 | 26.0 |
| As | 1.0 | (0.1) | -1.9 | 2.1 | 19.0 | 16.2 | 21.9 |
| Ba | 10.0 | (1.2) | -18.8 | 21.2 | (22.0) | 2.0 | 42.0 |
| Be | 1.0 | (0) | -2.0 | 2.0 | 19.0 | 16.2 | 21.9 |
| Cd | 1.0 | (0.7) | -1.3 | 2.7 | 20.0 | 17.0 | 23.0 |
| Ca | 500 | [100000] | | | [100000] | | |
| C | | [200000] | | | [200000] | | |
| Cl | | [1000000] | | | [1000000] | | |
| Cr | 2.0 | (21.0) | 17.0 | 25.0 | 40.0 | 34.0 | 46.0 |
| Co | 1.0 | (1.0) | -1.0 | 3.0 | 20.0 | 17.0 | 23.0 |
| Cu | 2.0 | (8.0) | 4.0 | 12.0 | (25.0) | 21.0 | 29.0 |
| Fe | 200 | [100000] | | | [100000] | | |
| Pb | 1.0 | (4.0) | 2.0 | 6.0 | 25.0 | 21.3 | 28.8 |
| Mg | 500 | [100000] | | | [100000] | | |
| Mn | 1.0 | (7.0) | 5.0 | 9.0 | 27.0 | 23.0 | 31.1 |
| Mo | | [2000] | | | [2000] | | |
| Ni | 1.0 | (6.0) | 4.0 | 8.0 | 24.0 | 20.4 | 27.6 |
| P | | [100000] | | | [100000] | | |
| K | 500 | [100000] | | | [100000] | | |
| Se | 5.0 | (0.3) | -9.7 | 10.3 | (19.0) | 9.0 | 29.0 |
| Ag | 1.0 | (0) | -2.0 | 2.0 | 18.0 | 15.3 | 20.7 |
| Na | 500 | [100000] | | | [100000] | | |
| S | | [100000] | | | [100000] | | |
| Tl | 1.0 | (0) | -2.0 | 2.0 | 21.0 | 17.9 | 24.2 |
| Ti | | [2000] | | | [2000] | | |
| V | 5.0 | (0.5) | -9.5 | 10.5 | (19.0) | 9.0 | 29.0 |
| Zn | 5.0 | (11.0) | 1.0 | 21.0 | (29.0) | 19.0 | 39.0 |

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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

***Certified Reference Material CRM***

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

**Part Number:** 57047
**Lot Number:** 122823
**Description:** Silver (Ag)

**Expiration Date:** 122826
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

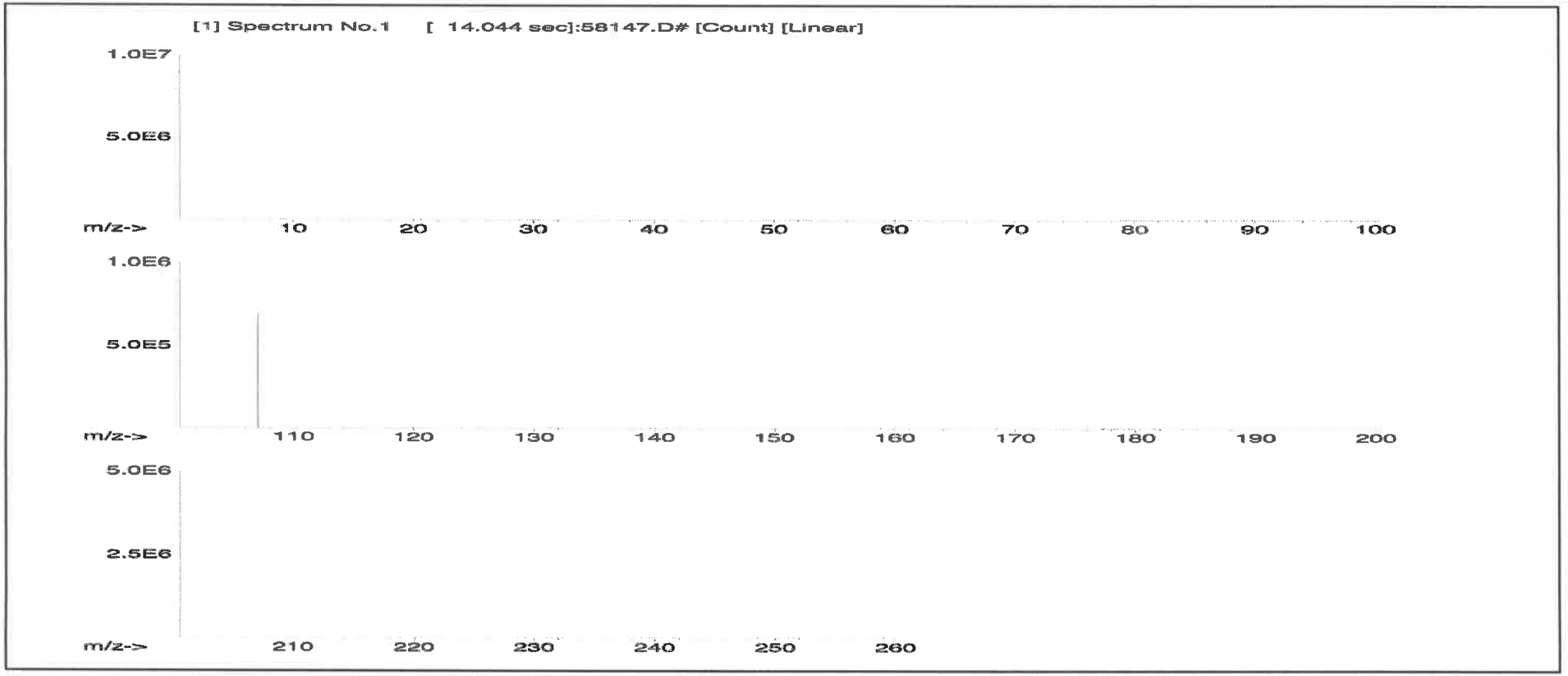
**Weight shown below was diluted to (mL):** 4000.30 0.058 Flask Uncertainty

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 80.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122823 |
| Reviewed By: | Pedro L. Rentas | 122823 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Silver nitrate (Ag) | IN035 | J0612AGA1 | 1000.0 | 99.9999 | 0.10 | 63.7 | 6.27992 | 6.27998 | **1000.0** | **2.0** | 7761-88-8 | 10 ug/m3 | NA | 3151 |



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*Certified Reference Material CRM*

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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

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

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***Certified Reference Material CRM***

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

MG146

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57051** | 24002546 | Nitric Acid | |
| **Lot Number:** | **071724** | | | |
| **Description:** | **Antimony (Sb)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071727 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.26 | 0.058 | Flask Uncertainty | |

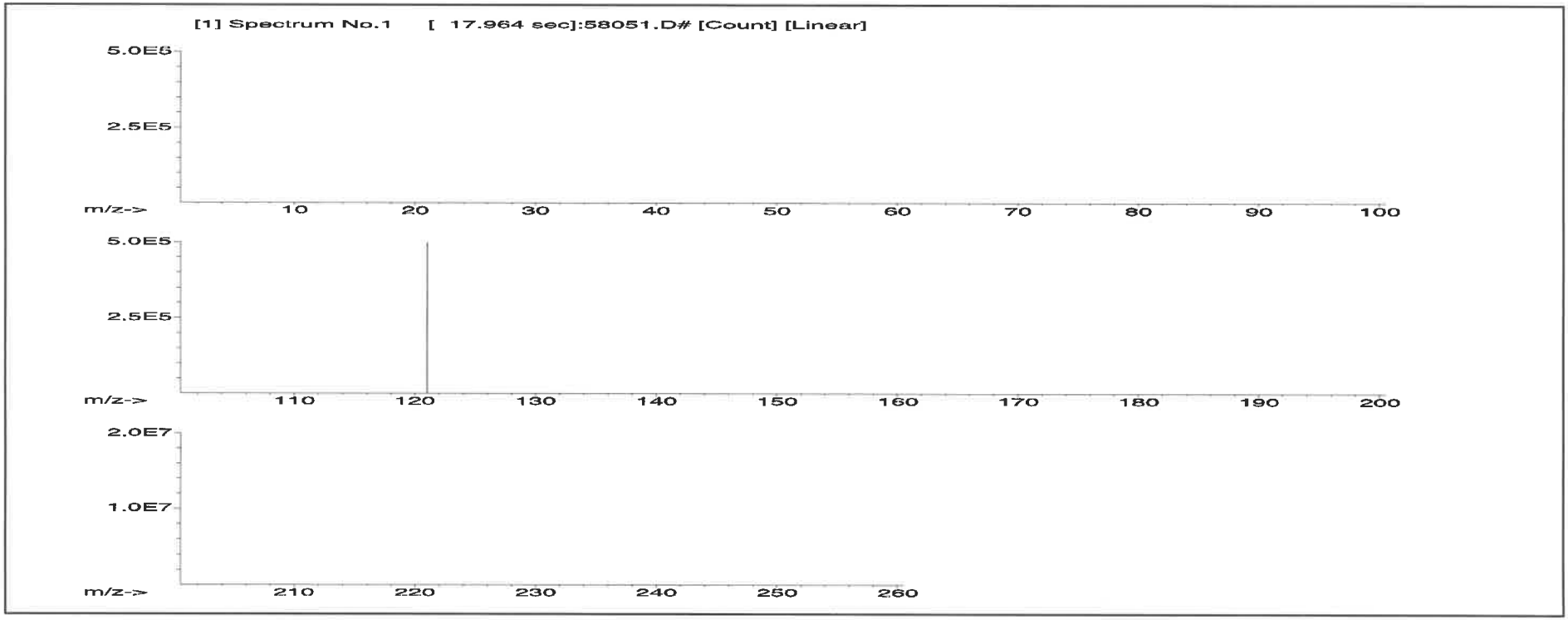
Giovanni Esposito

| Formulated By: | Giovanni Esposito | 071724 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 071724 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | **Final Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Antimony (Sb) | 58151 | 060324 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.4 | **1000.0** | **2.2** | 7440-36-0 | 0.5 mg/m3 | orl-rat 7000 mg/kg | 3102a |



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**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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# Certificate of Analysis

R: 8/5/24 M6019

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## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGSR1 |
| Lot Number: | U2-SR730227 |
| Matrix: | 0.1% (v/v) HNO3 |
| Value / Analyte(s): | 1 000 µg/mL ea: Strontium |
| Starting Material: | SrCO3 |
| Starting Material Lot#: | M2-2192 |
| Starting Material Purity: | 99.9993% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1001 ± 3 µg/mL

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

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

**Assay Method #2** **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

**Assay Method #3** **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.001980 | M | Eu | < | 0.000495 | O | Na | | 0.000200 | M | Se | < | 0.013862 | O | Zn | | 0.000143 |
| O | Al | | 0.000370 | O | Fe | | 0.000410 | M | Nb | < | 0.000495 | i | Si | < | | M | Zr | < | 0.000495 |
| M | As | < | 0.000495 | M | Ga | < | 0.000495 | M | Nd | < | 0.000495 | M | Sm | < | 0.000495 | | | | |
| M | Au | < | 0.000989 | M | Gd | < | 0.000495 | O | Ni | < | 0.007631 | M | Sn | < | 0.000990 | | | | |
| M | B | < | 0.039606 | M | Ge | < | 0.000495 | M | Os | < | 0.000494 | s | Sr | < | | | | | |
| M | Ba | | 0.006486 | M | Hf | < | 0.000495 | i | P | < | | M | Ta | < | 0.000495 | | | | |
| M | Be | < | 0.000990 | M | Hg | < | 0.000989 | M | Pb | < | 0.002970 | M | Tb | < | 0.000495 | | | | |
| M | Bi | < | 0.000495 | M | Ho | < | 0.000495 | M | Pd | < | 0.003957 | M | Te | < | 0.027724 | | | | |
| O | Ca | | 0.004255 | M | In | < | 0.000495 | M | Pr | < | 0.000495 | M | Th | < | 0.000990 | | | | |
| M | Cd | | 0.001339 | M | Ir | < | 0.000494 | M | Pt | < | 0.002970 | M | Ti | < | 0.005940 | | | | |
| M | Ce | < | 0.004950 | O | K | < | 0.008184 | M | Rb | < | 0.002970 | M | Tl | < | 0.000495 | | | | |
| M | Co | < | 0.000495 | M | La | < | 0.000495 | M | Re | < | 0.000495 | M | Tm | < | 0.000495 | | | | |
| O | Cr | < | 0.003207 | O | Li | < | 0.000884 | O | Rh | < | 0.012829 | M | U | < | 0.001485 | | | | |
| M | Cs | < | 0.000990 | M | Lu | < | 0.002970 | M | Ru | < | 0.000989 | M | V | < | 0.001980 | | | | |
| M | Cu | | 0.000099 | O | Mg | | 0.000064 | i | S | < | | M | W | < | 0.003960 | | | | |
| M | Dy | < | 0.000495 | O | Mn | | 0.000066 | M | Sb | < | 0.014852 | O | Y | < | 0.000995 | | | | |
| M | Er | < | 0.000495 | M | Mo | < | 0.001980 | M | Sc | < | 0.001980 | M | Yb | < | 0.000495 | | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

**Chemical Compatibility -** Soluble in HCl, and $HNO_3$. Avoid $H_2SO_4$, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

**Stability -** 2-100 ppb levels stable for months in 1% $HNO_3$ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% $HNO_3$ / LDPE container.

**Sr Containing Samples (Preparation and Solution) -**Metal (Best dissolved in diluted $HNO_3$ ); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

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

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 88 amu | 1200 ppt | N/A | 72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2 |
| ICP-OES 407.771 nm | 0.0004 / 0.00006 µg/mL | 1 | U, Ce |
| ICP-OES 421.552 nm | 0.0008 / 0.00004 µg/mL | 1 | Rb |
| ICP-OES 460.733 nm | 0.07 / 0.003 µg/mL | 1 | Ce |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 03, 2023

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

**11.2 Lot Expiration Date**

- **March 03, 2028**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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# Certificate of Analysis

R: 8/5/24 M6019

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## 1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 888.01
ACCREDITED Reference Material Producer Certificate 888.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGSR1 |
| Lot Number: | U2-SR730227 |
| Matrix: | 0.1% (v/v) HNO3 |
| Value / Analyte(s): | 1 000 µg/mL ea: Strontium |
| Starting Material: | SrCO3 |
| Starting Material Lot#: | M2-2192 |
| Starting Material Purity: | 99.9993% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1001 ± 3 µg/mL

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

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

**Assay Method #2** **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

**Assay Method #3** **1001 ± 2 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.001980 | M | Eu | < | 0.000495 | O | Na | | 0.000200 | M | Se | < | 0.013862 | O | Zn | | 0.000143 |
| O | Al | | 0.000370 | O | Fe | | 0.000410 | M | Nb | < | 0.000495 | i | Si | < | | M | Zr | < | 0.000495 |
| M | As | < | 0.000495 | M | Ga | < | 0.000495 | M | Nd | < | 0.000495 | M | Sm | < | 0.000495 | | | | |
| M | Au | < | 0.000989 | M | Gd | < | 0.000495 | O | Ni | < | 0.007631 | M | Sn | < | 0.000990 | | | | |
| M | B | < | 0.039606 | M | Ge | < | 0.000495 | M | Os | < | 0.000494 | s | Sr | < | | | | | |
| M | Ba | | 0.006486 | M | Hf | < | 0.000495 | i | P | < | | M | Ta | < | 0.000495 | | | | |
| M | Be | < | 0.000990 | M | Hg | < | 0.000989 | M | Pb | < | 0.002970 | M | Tb | < | 0.000495 | | | | |
| M | Bi | < | 0.000495 | M | Ho | < | 0.000495 | M | Pd | < | 0.003957 | M | Te | < | 0.027724 | | | | |
| O | Ca | | 0.004255 | M | In | < | 0.000495 | M | Pr | < | 0.000495 | M | Th | < | 0.000990 | | | | |
| M | Cd | | 0.001339 | M | Ir | < | 0.000494 | M | Pt | < | 0.002970 | M | Ti | < | 0.005940 | | | | |
| M | Ce | < | 0.004950 | O | K | < | 0.008184 | M | Rb | < | 0.002970 | M | Tl | < | 0.000495 | | | | |
| M | Co | < | 0.000495 | M | La | < | 0.000495 | M | Re | < | 0.000495 | M | Tm | < | 0.000495 | | | | |
| O | Cr | < | 0.003207 | O | Li | < | 0.000884 | O | Rh | < | 0.012829 | M | U | < | 0.001485 | | | | |
| M | Cs | < | 0.000990 | M | Lu | < | 0.002970 | M | Ru | < | 0.000989 | M | V | < | 0.001980 | | | | |
| M | Cu | | 0.000099 | O | Mg | | 0.000064 | i | S | < | | M | W | < | 0.003960 | | | | |
| M | Dy | < | 0.000495 | O | Mn | | 0.000066 | M | Sb | < | 0.014852 | O | Y | < | 0.000995 | | | | |
| M | Er | < | 0.000495 | M | Mo | < | 0.001980 | M | Sc | < | 0.001980 | M | Yb | < | 0.000495 | | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

**Chemical Compatibility -** Soluble in HCl, and $HNO_3$. Avoid $H_2SO_4$, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

**Stability -** 2-100 ppb levels stable for months in 1% $HNO_3$ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% $HNO_3$ / LDPE container.

**Sr Containing Samples (Preparation and Solution) -**Metal (Best dissolved in diluted $HNO_3$ ); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolution in dilute HCl).

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

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 88 amu | 1200 ppt | N/A | 72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2 |
| ICP-OES 407.771 nm | 0.0004 / 0.00006 µg/mL | 1 | U, Ce |
| ICP-OES 421.552 nm | 0.0008 / 0.00004 µg/mL | 1 | Rb |
| ICP-OES 460.733 nm | 0.07 / 0.003 µg/mL | 1 | Ce |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 03, 2023

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

**11.2 Lot Expiration Date**

- **March 03, 2028**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

***Certified Reference Material CRM***

M6023

R ! 8/5/24

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



CERTIFIED WEIGHT REPORT:

**Part Number:** 57081
**Lot Number:** 062724
**Description:** Thallium (Tl)

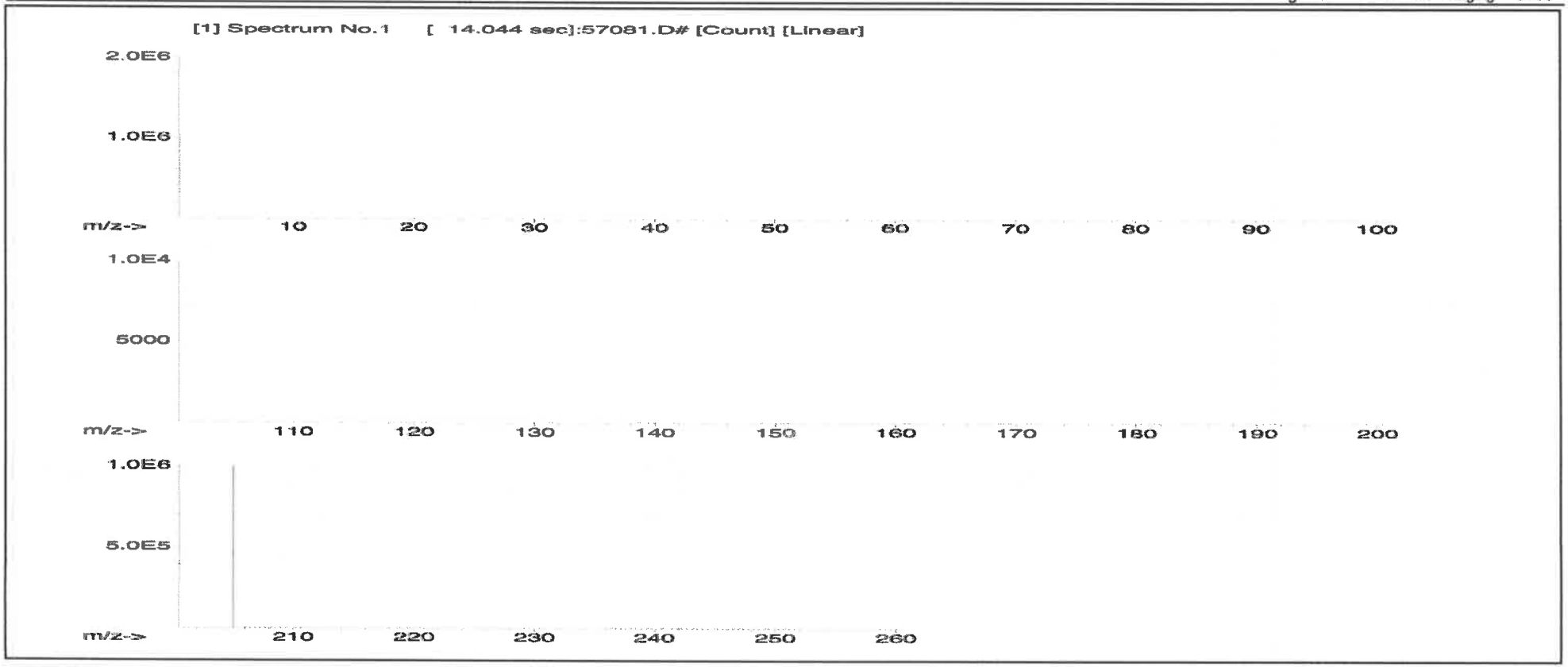
**Expiration Date:** 062727
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.1

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.10 | Flask Uncertainty | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 062724 |
| Reviewed By: | Pedro L. Rentas | 062724 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Thallium nitrate (Tl) | IN037 | BCCF4399 | 1000 | 99.999 | 0.10 | 77.0 | 2.5975 | 2.5977 | **1000.1** | **2.0** | 10102-45-1 | 0.1 mg/m3 | orl-mus 15mg/kg | 3158 |



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www.absolutestandards.com

*Certified Reference Material CRM*

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

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

***Certified Reference Material CRM***
M5545,M5546,M5547,M5548 RD:05/08/2023

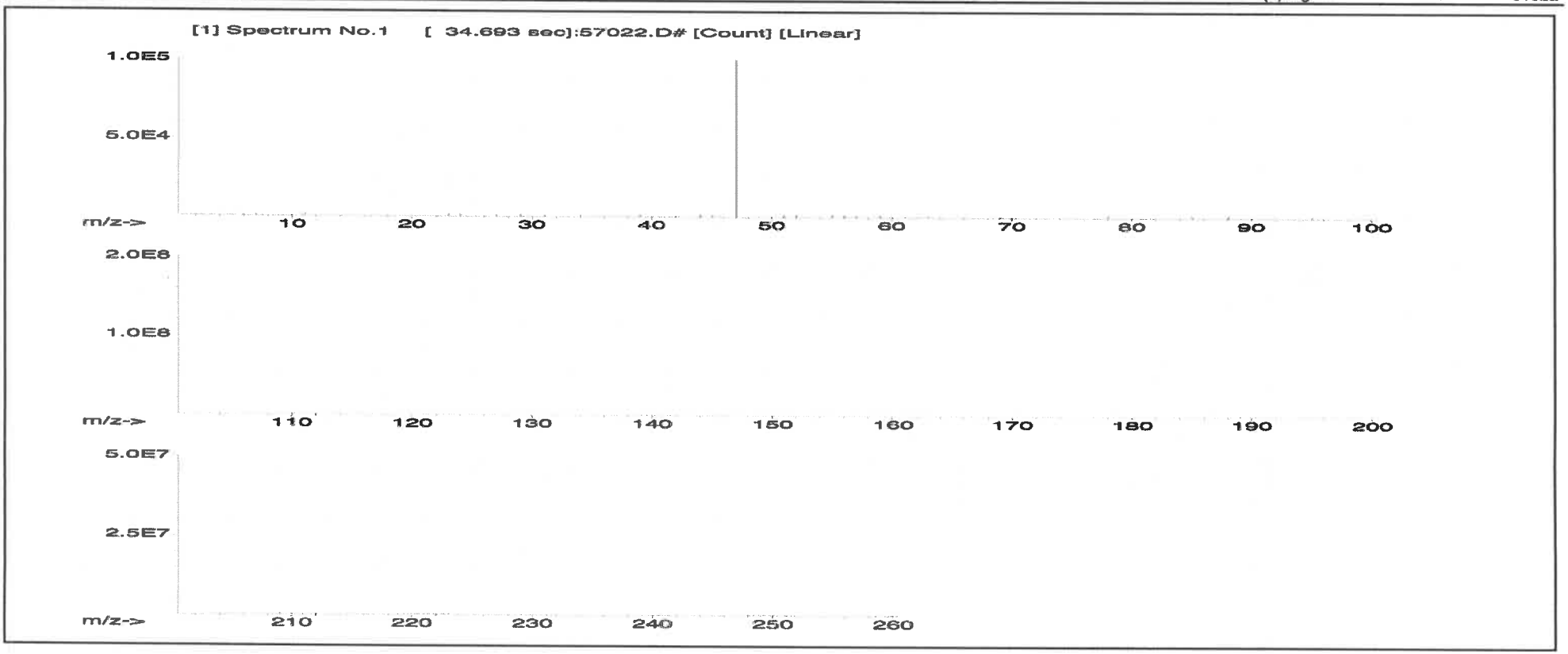
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57022** | | | |
| **Lot Number:** | **050223** | 21110221 | Nitric Acid | |
| **Description:** | **Titanium (Ti)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 050226 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 050223 |
| Reviewed By: | Pedro L. Rentas | 050223 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorotitanate (Ti) | 58122 | 071122 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 16962-40-6 | 2.5 (F) mg/m3 | NA | 3162a |



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***Certified Reference Material CRM***

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AR-1539 Certificate Number
https://Absolutestandards.com



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

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

B: 8/13/24 M6020

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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: | CGU1 |
| Lot Number: | U2-U735194 |
| Matrix: | 2% (v/v) HNO3 |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Uranium |
| Starting Material: | Uranyl Nitrate Hexahydrate |
| Starting Material Lot#: | 2504 |
| Starting Material Purity: | 99.9993% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1000 ± 5 µg/mL

**Density:** 1.010 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **1001 ± 4 µg/mL**
ICP Assay NIST SRM traceable to 3164 Lot Number: R2-U689597

**Assay Method #2** **1000 ± 5 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Certified Abundance:**

**IV's Certified Abundance**

| Isotope | Atom % |
|---|---|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.001400 | M | Eu | < | 0.000270 | M | Na | | 0.001811 | M | Se | < | 0.004800 | M | Zn | | 0.002126 |
| M | Al | | 0.000322 | M | Fe | | 0.007481 | M | Nb | < | 0.000790 | i | Si | < | | M | Zr | < | 0.000270 |
| M | As | < | 0.007300 | M | Ga | < | 0.000270 | M | Nd | < | 0.000270 | M | Sm | < | 0.000270 | | | | |
| M | Au | < | 0.001400 | M | Gd | < | 0.000270 | M | Ni | | 0.000905 | M | Sn | < | 0.120000 | | | | |
| M | B | < | 0.017000 | M | Ge | < | 0.000800 | M | Os | < | 0.000270 | M | Sr | < | 0.000270 | | | | |
| M | Ba | < | 0.003100 | M | Hf | < | 0.000270 | i | P | < | | M | Ta | < | 0.000270 | | | | |
| M | Be | < | 0.003200 | M | Hg | < | 0.000270 | M | Pb | | 0.000511 | M | Tb | < | 0.000270 | | | | |
| M | Bi | < | 0.003000 | M | Ho | < | 0.000270 | M | Pd | < | 0.000270 | M | Te | < | 0.001100 | | | | |
| M | Ca | < | 0.048000 | M | In | < | 0.001400 | M | Pr | < | 0.000270 | M | Th | | 0.000200 | | | | |
| M | Cd | < | 0.000270 | M | Ir | < | 0.000270 | M | Pt | < | 0.000270 | M | Ti | < | 0.000530 | | | | |
| M | Ce | < | 0.000270 | O | K | < | 0.047000 | M | Rb | < | 0.000660 | M | Tl | < | 0.000270 | | | | |
| M | Co | < | 0.000270 | M | La | | 0.000322 | M | Re | < | 0.000270 | M | Tm | < | 0.000270 | | | | |
| M | Cr | | 0.001732 | M | Li | < | 0.001100 | M | Rh | < | 0.000270 | s | U | < | | | | | |
| M | Cs | < | 0.003500 | M | Lu | < | 0.000270 | M | Ru | < | 0.000270 | M | V | < | 0.003500 | | | | |
| M | Cu | < | 0.005600 | M | Mg | | 0.000240 | i | S | < | | M | W | < | 0.000270 | | | | |
| M | Dy | < | 0.000270 | M | Mn | < | 0.006500 | M | Sb | < | 0.000270 | M | Y | < | 0.000270 | | | | |
| M | Er | < | 0.000270 | M | Mo | | 0.000433 | M | Sc | < | 0.000800 | M | Yb | < | 0.000270 | | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form In Solution -** 238.03 +6 8 UO22+(uranyl)
**Chemical Compatibility -** Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
**Stability -** 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
**U Containing Samples (Preparation and Solution) -**Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 238 amu | 2 ppt | N/A | 206Pb16O2 |
| ICP-OES 263.553 nm | 0.3 / 0.01 µg/mL | 1 | Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru |
| ICP-OES 367.007 nm | 0.3 / 0.02 µg/mL | 1 | Th, Ce |
| ICP-OES 385.958 nm | 0.3 / 0.01 µg/mL | 1 | Th, Fe |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

August 03, 2023

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

### 11.2 Lot Expiration Date

**- August 03, 2028**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

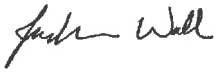
## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Custom Processing Supervisor

**Certificate Approved By:**

Jodie Wall
Stock VSM Coordinator



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

***Certified Reference Material CRM***

M6021

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

Rc. 8/5/24

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57023** | | | |
| **Lot Number:** | **062424** | 24002546 | Nitric Acid | |
| **Description:** | **Vanadium (V)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 062427 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.3 | 0.06 | Flask Uncertainty | |

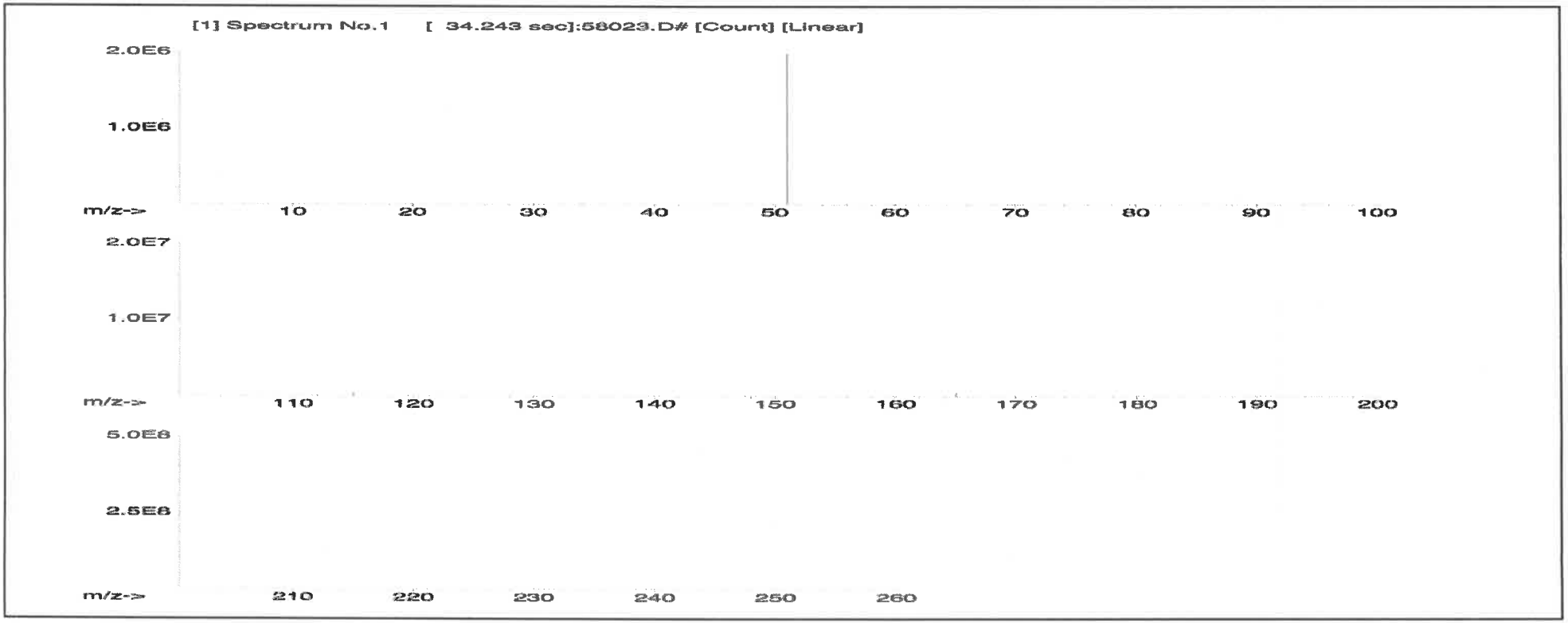
Aleah O'Brady

| Formulated By: | Aleah O'Brady | 062424 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 062424 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium metavanadate (V) | 58123 | 021224 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 7803-55-6 | 0.05 mg/m3 | orl-rat 58.1mg/kg | 3165 |



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

*Certified Reference Material CRM*

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



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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1711
COC Number 2045984

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite # 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yunfanti John.Yunfanti@Jacobs.com
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3586221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: (PM) Ryan Mary.Murphy@Jacobs.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) Rush TAT (2 day) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

## ANALYSIS

1: Site Specific VOCs (8260D-Low)
2: 1,4 Dioxane (8270E-SIM)
3: Total TS Metals (6020B)
4: Dissolved Iron (6010D)
5: Alkalinity (SM2320B)
6: TDS (SM2540C)
7: Anions (9056)
8: Trace VOCs (STAM61.1-SIM)
9:

## PRESERVATIVES

| A/E | E | B/E | E | E | E | E | A/E | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

## COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| 1. | MW-18B-56-040225 | GW | | ✓ | 4/2/25 | 1235 | 27 | MS/MSD !! (27 bottles) |
| 2. | MW-17B-55-040225 | GW | | ✓ | 4/2/25 | 1535 | 9 | 9 bottles |
| 3. | MW-18B-56-040225-SIM | GW | | ✓ | 4/2/25 | 1235 | 2 | |
| 4. | MW-17B-55-040225-SIM | GW | | ✓ | 4/2/25 | 1535 | 2 | |
| 5. | | | | | | | | |
| 6. | | | | | | | | |
| 7. | | | | | | | | |
| 8. | | | | | | | | |
| 9. | | | | | | | | |
| 10. | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 4-2-25 1650 | 1. 1650 4-2-25 |
| 2. | | 2. |
| 3. | 4-2-25 1825 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0C °C

Comments: See work order for list of site specific VOCs
PRESERVE DISSOLVE IRON SAMPLES UPON ARRIVAL TO THE LAB
PO # 1480643 11
Temp 3.0°C CAdjusted Factor +1) IR Gun #1.

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1711
COC Number 2045981

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yurfanic John.Yurfanic@Jacobs.com
PHONE: FAX:

## CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D386821 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

## CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☑ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

## ANALYSIS

1: Site Spec VOCs (624MOD-LL)
2: 1,4 DW (8270E-SIM)
3: Trace VOCs (524M.D-LL-SIM)
4: Total Metals (200.8)
5: Dissolved Iron (6010B)
6: Alkalinity (SM2320B)
7: TDS (SM2540C)
8: Anion (9056)
9:

## PRESERVATIVES

## COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRES 1 | PRES 2 | PRES 3 | PRES 4 | PRES 5 | PRES 6 | PRES 7 | PRES 8 | PRES 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | RMW-05B-89-040225 | GW | | ✓ | 4/2/25 | 1605 | 4 | ✓ | ✓ | A/E | B/E | E | | | | |
| 2. | EBO1-040225 | DI | | ✓ | 4/2/25 | 1550 | 9 | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 3. | EBO1-040225-SIM | DI | | ✓ | 4/2/25 | 1550 | 2 | | | ✓ | | | | | | |
| 4. | TBO1-040225 | DI | | ✓ | 4/2/25 | 1600 | 2 | ✓ | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 4-2-25 1650 | 1. 1650 4-2-25 |
| 2. | | 2. |
| 3. | 4-2-25 1825 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments: See Work order for list of site specific VOCs

Temp 3.0°C (Adjusted Factor +1) IR Gun #1.

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

**From:** Ynfante, John <John.Ynfante@jacobs.com>
**Sent:** Friday, April 04, 2025 12:54 PM
**To:** Yazmeen Gomez; Mohammad Ahmed
**Subject:** RE: Princeton SIM/no-SIM

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

Secured by Check Point

Thanks Yazmeen, but like I mentioned yesterday if you aren't able to analyze any of those 3 normal samples by SIM then I have no need for the EB to be analyzed by SIM either so please just cancel that SIM EB. I will already have EB data for VOCs from the EB you ran (or are running) by your routine low 8260D.

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Friday, April 4, 2025 11:51 AM
**To:** Ynfante, John <John.Ynfante@jacobs.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
**Subject:** [EXTERNAL] RE: Princeton SIM/no-SIM

John,

Please see attached. SIM analysis is also not possible for MW-18B and MW-17B.

However, "EB01-040225-SIM" will be analyzed with SIM.

**Best Regards,**

**Yazmeen Gomez**
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Ynfante, John <John.Ynfante@jacobs.com>
**Sent:** Thursday, April 3, 2025 6:27 PM
**To:** Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Subject:** RE: Princeton SIM/no-SIM

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Secured by Check Point

Ok thanks for the confirmation Mohammad

---

**From:** Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
**Sent:** Thursday, April 3, 2025 5:22 PM
**To:** Ynfante, John <John.Ynfante@jacobs.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Subject:** [EXTERNAL] Re: Princeton SIM/no-SIM

Hi John ,
I will let you know about other 2 samples regarding SIM .
1 8oz jar is enough to run Total metals and SPLP

Get Outlook for iOS

---

**From:** Ynfante, John <John.Ynfante@jacobs.com>
**Sent:** Thursday, April 3, 2025 5:55:35 PM
**To:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
**Subject:** Princeton SIM/no-SIM

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

Secured by Check Point

Hi Yazmeen and Mohammad, a few things:

After speaking with Mohammad I understand that the full scan 8260D run for the MW-17B sample had ~11ppm of TCE and high concs of other VOCs as well so you won't be able to run SIM on it – I understand the limitations and have passed that update on to the team so that is fine. There should also be SIM samples collected for 2 more samples - MW-18B and MW-19B so please let me know if your standard 8260 run shows similar concentrations on those as well. Note that these 3 samples are in a completely different location from the rest of the samples and their concentrations shouldn't necessarily represent the levels we will see for other samples – I understand if you have to dilute these high-conc samples I just don't want to over-dilute other samples unnecessarily.

Also, if you don't end up running any of the 3 SFAM-SIM samples then we have no need for that SIM equipment blank to be analyzed either so you can cancel that unless MW-18B or MW-19B turn out to be low enough to be able to be run by SIM in which case I would want the SIM EB.

Finally, for the soil samples we are collecting next week the client decided today that we should also collect for SPLP silver and place it on hold pending the total silver results – I believe you sent 8oz jars for the total silver so that should be plenty to cover the initial silver analysis and then still have enough for SPLP Silver if we need to run it right? Or do you prefer a completely separate jar for the SPLP Ag?

John Ynfante
Jacobs
Chemist
281-414-1719 mobile
John.Ynfante@jacobs.com
www.jacobs.com

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255424 Rev 1 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1711 JACO05
**Client Name :** JACOBS Engineering Grou
**Client Contact :** John Ynfante
**Invoice Name :** JACOBS Engineering Grou
**Invoice Contact :** John Ynfante

**Order Date :** 4/3/2025 10:00:00 AM
**Project Name :** Former Schlumberger STC
**Receive DateTime :** 4/2/2025 6:25:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** CH2MHILL
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| Q1711-01 | MW-18B-56-040225 | Water | 04/02/2025 | 12:35 | | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |
| Q1711-02 | Q1711-01MS | Water | 04/02/2025 | 12:35 | | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |
| Q1711-03 | Q1711-01MSD | Water | 04/02/2025 | 12:35 | | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |
| Q1711-04 | MW-17B-55-040225 | Water | 04/02/2025 | 15:35 | | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |
| ~~Q1711-05~~ | ~~MW-18B-56-040225-SIM~~ | ~~Water~~ | ~~04/02/2025~~ | ~~12:35~~ | | | | | | |
| | | | | | ~~VOC-TRACE-SFAM~~ | | ~~SFAM_Trace~~ | ~~2 Bus. Days~~ | | |
| ~~Q1711-06~~ | ~~MW-17B-56-040225-SIM~~ | ~~Water~~ | ~~04/02/2025~~ | ~~15:35~~ | | | | | YG | |
| | | | | | ~~VOC-TRACE-SFAM~~ | | ~~SFAM_Trace~~ | ~~2 Bus. Days~~ | 04/04/2025 | |
| Q1711-07 | RMW-05B-89-040225 | Water | 04/02/2025 | 16:05 | | | | | | |
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |
| Q1711-08 | EB01-040225 | Water | 04/02/2025 | 15:50 | | | | | | |

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# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1711 JACO05
**Client Name :** JACOBS Engineering Grou
**Client Contact :** John Ynfante
**Invoice Name :** JACOBS Engineering Grou
**Invoice Contact :** John Ynfante

**Order Date :** 4/3/2025 10:00:00 AM
**Project Name :** Former Schlumberger STC
**Receive DateTime :** 4/2/2025 6:25:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** CH2MHILL
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |
| ~~Q1711-09~~ | ~~EB01-040225-SIM~~ | ~~Water~~ | ~~04/02/2025~~ | ~~15:50~~ | | | | | | |
| | | | | | ~~VOC-TRACE-SFAM~~ | | ~~SFAM_Trace~~ | ~~2 Bus. Days~~ | YG | |
| Q1711-10 | TB01-040225 | Water | 04/02/2025 | 16:00 | | | | | 04/04/2025 | |
| | | | | | VOCMS Group3 | | 8260-Low | 2 Bus. Days | | |

**Relinguished By :** [signature]
**Date / Time :** 4·3·25 1225

**Received By :** [signature]
**Date / Time :** 4·3·25 12'25

**Storage Area :** **VOA Refridgerator Room**