

DATA PACKAGE METALS

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : P5380

ATTENTION : Nathan Fretz



Laboratory Certification ID # 20012

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Cover Page

Order ID : P5380

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

P5380-01
P5380-02

Client Sample Number

TAPIAL3-IDW-SOIL-122024-T1
TAPIAL3-IDW-SOIL-122024-T1

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: 1/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Weston Solutions

Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Project # N/A

Chemtech Project # P5380

Test Name: TCLP Mercury,TCLP ICP Metals

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 12/21/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Cyanide, Ignitability, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA and TCLP ZHE Extraction. This data package contains results for TCLP Mercury, TCLP ICP Metals.

C. Analytical Techniques:

The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (MOO-24-00395-96MS) analysis met criteria for all samples except for Barium due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (MOO-24-00395-96MSD) analysis met criteria for all samples except for Barium 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:

Calculation for ICP-AES TCLP Water Sample:

$$\text{Concentration or Result } (\mu\text{g/L}) = C \times \frac{V_f}{V_i} \times DF \times 1000$$



Where,

C = Instrument value in ppm (The average of all replicate exposures)

Vf = Final digestion volume (mL)

Vi = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor

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 _____

DATA REPORTING QUALIFIERS- INORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5380

MATRIX: TCLP

METHOD: 6010D,7470A,1311

| | | 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 (MOO-24-00395-96MS) analysis met criteria for all samples except for Barium due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (MOO-24-00395-96MSD) analysis met criteria for all samples except for Barium due to Chemical interference during Digestion Process. | | | |
| 7. | Sample Duplicate Analysis Met QC Criteria | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 8. | Digestion Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |
| 9. | Analysis Holding Time Met | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |

ADDITIONAL COMMENTS:

QA REVIEW

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5380

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: 01/09/2025

LAB CHRONICLE

| | | | |
|-----------------|------------------|-------------------|---|
| OrderID: | P5380 | OrderDate: | 12/23/2024 9:50:00 AM |
| Client: | Weston Solutions | Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 |
| Contact: | Nathan Fretz | Location: | N31 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|--------------------------------|--------|-----------------|--------|-------------|-----------|-----------|----------|
| P5380-02 | TAPIAL3-IDW-SOIL-1 22024-T1 | TCLP | | | 12/20/24 | | | 12/21/24 |
| | | | TCLP ICP Metals | 6010D | | 12/27/24 | 12/30/24 | |
| | | | TCLP Mercury | 7470A | | 12/30/24 | 12/30/24 | |



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

**Hit Summary Sheet
SW-846**

SDG No.: P5380

Order ID: P5380

Client: Weston Solutions

Project ID: Ft Meade Tipton Airfield Parcel RI - PO 01

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|-------------|---------------------------------|--------|-----------|---------------|---|------|------|------|-------|
| Client ID : | TAPIAL3-IDW-SOIL-122024-T1 | | | | | | | | |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 TCLP | | Barium | 366 | J | 62.8 | 125 | 500 | ug/L |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 TCLP | | Chromium | 25.4 | J | 6.60 | 25.0 | 50.0 | ug/L |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 TCLP | | Lead | 150 | | 35.1 | 48.0 | 60.0 | ug/L |



SAMPLE

DATA

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------|
| Client: | Weston Solutions | Date Collected: | 12/20/24 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Date Received: | 12/21/24 |
| Client Sample ID: | TAPIAL3-IDW-SOIL-122024-T1 | SDG No.: | P5380 |
| Lab Sample ID: | P5380-02 | Matrix: | TCLP |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|------|------|------------|-------|----------------|----------------|----------|-----------|
| 7440-38-2 | Arsenic | 80.0 | U | 1 | 34.8 | 80.0 | 100 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |
| 7440-39-3 | Barium | 366 | JN | 1 | 62.8 | 125 | 500 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |
| 7440-43-9 | Cadmium | 7.50 | U | 1 | 0.94 | 7.50 | 30.0 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |
| 7440-47-3 | Chromium | 25.4 | J | 1 | 6.60 | 25.0 | 50.0 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |
| 7439-92-1 | Lead | 150 | | 1 | 35.1 | 48.0 | 60.0 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |
| 7439-97-6 | Mercury | 1.60 | U | 1 | 0.81 | 1.60 | 2.00 | ug/L | 12/30/24 11:50 | 12/30/24 14:51 | SW7470A | |
| 7782-49-2 | Selenium | 80.0 | U | 1 | 58.8 | 80.0 | 100 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |
| 7440-22-4 | Silver | 25.0 | U | 1 | 5.80 | 25.0 | 50.0 | ug/L | 12/27/24 09:30 | 12/30/24 16:33 | SW6010 | SW3050 |

| | | | | |
|---------------|-------------|-----------------|-------|------------|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: |
| Comments: | TCLP METALS | | | |

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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METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5380
 Contract: WEST04 Lab Code: CHEM Case No.: P5380 SAS No.: P5380
 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 |
|-----------|---------|----------------|------------|---------------|---------------------------|----|------------------|------------------|---------------|
| ICV38 | Mercury | 3.74 | 4.0 | 93 | 90 - 110 | CV | 12/30/2024 | 14:28 | LB134125 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5380
 Contract: WEST04 Lab Code: CHEM Case No.: P5380 SAS No.: P5380
 Initial Calibration Source: EPA
 Continuing Calibration Source: PLASMA-PURE

| Sample ID | Analyte | Result | | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|---------|--------|--|------------|------------|------------------------|----|---------------|---------------|------------|
| | | ug/L | | | | | | | | |
| CCV88 | Mercury | 4.87 | | 5.0 | 97 | 90 - 110 | CV | 12/30/2024 | 14:32 | LB134125 |
| CCV89 | Mercury | 4.87 | | 5.0 | 97 | 90 - 110 | CV | 12/30/2024 | 15:05 | LB134125 |
| CCV90 | Mercury | 4.91 | | 5.0 | 98 | 90 - 110 | CV | 12/30/2024 | 15:24 | LB134125 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5380
 Contract: WEST04 Lab Code: CHEM Case No.: P5380 SAS No.: P5380
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte | Result | | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|--|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | | | | | | | | |
| ICV01 | Arsenic | 1030 | | 1000 | 103 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |
| | Barium | 480 | | 520 | 92 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |
| | Cadmium | 505 | | 510 | 99 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |
| | Chromium | 538 | | 520 | 104 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |
| | Lead | 1010 | | 1000 | 101 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |
| | Selenium | 1030 | | 1000 | 103 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |
| | Silver | 259 | | 250 | 104 | 90 - 110 | P | 01/06/2025 | 13:00 | lb134166 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5380
 Contract: WEST04 Lab Code: CHEM Case No.: P5380 SAS No.: P5380
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte | Result | | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|--|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | | | | | | | | |
| LLICV01 | Arsenic | 22.5 | | 20.0 | 113 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |
| | Barium | 91.0 | | 100 | 91 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |
| | Cadmium | 5.96 | | 6.0 | 99 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |
| | Chromium | 9.72 | | 10.0 | 97 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |
| | Lead | 12.6 | | 12.0 | 105 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |
| | Selenium | 17.3 | | 20.0 | 86 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |
| | Silver | 9.89 | | 10.0 | 99 | 80 - 120 | P | 01/06/2025 | 13:13 | Ib134166 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|--------------------------------|---------------------------|-----------|--------------|
| Client: | <u>Weston Solutions</u> | SDG No.: | <u>P5380</u> |
| Contract: | <u>WEST04</u> | Lab Code: | <u>CHEM</u> |
| Initial Calibration Source: | <u>EPA</u> | Case No.: | <u>P5380</u> |
| Continuing Calibration Source: | <u>Inorganic Ventures</u> | SAS No.: | <u>P5380</u> |

| Sample ID | Analyte | Result | | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | True Value | | | | | | |
| CCV01 | Arsenic | 4940 | 5000 | 99 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| | Barium | 9790 | 10000 | 98 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| | Lead | 4920 | 5000 | 98 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| | Selenium | 4950 | 5000 | 99 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| | Silver | 1240 | 1250 | 100 | 90 - 110 | P | 01/06/2025 | 13:43 | lb134166 |
| CCV02 | Arsenic | 4920 | 5000 | 98 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| | Barium | 9680 | 10000 | 97 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| | Lead | 4920 | 5000 | 98 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| | Selenium | 4930 | 5000 | 99 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| | Silver | 1230 | 1250 | 98 | 90 - 110 | P | 01/06/2025 | 14:15 | lb134166 |
| CCV03 | Arsenic | 4850 | 5000 | 97 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| | Barium | 9670 | 10000 | 97 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| | Cadmium | 2480 | 2500 | 99 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| | Chromium | 1040 | 1000 | 104 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| | Lead | 4940 | 5000 | 99 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| | Selenium | 4840 | 5000 | 97 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 01/06/2025 | 15:06 | lb134166 |
| CCV04 | Arsenic | 4860 | 5000 | 97 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| | Barium | 9490 | 10000 | 95 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| | Chromium | 1030 | 1000 | 103 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| | Selenium | 4850 | 5000 | 97 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 01/06/2025 | 15:48 | lb134166 |
| CCV05 | Arsenic | 5040 | 5000 | 101 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |
| | Barium | 9420 | 10000 | 94 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |
| | Cadmium | 2580 | 2500 | 103 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |
| | Chromium | 1050 | 1000 | 105 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |
| | Lead | 5120 | 5000 | 102 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |
| | Selenium | 5040 | 5000 | 101 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5380
 Contract: WEST04 Lab Code: CHEM Case No.: P5380 SAS No.: P5380
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte | Result | | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|---------|--------|--|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | | | | | | | | |
| CCV05 | Silver | 1280 | | 1250 | 102 | 90 - 110 | P | 01/06/2025 | 16:24 | lb134166 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|--------------------------------|---------------------------|-----------|--------------|
| Client: | <u>Weston Solutions</u> | SDG No.: | <u>P5380</u> |
| Contract: | <u>WEST04</u> | Lab Code: | <u>CHEM</u> |
| Initial Calibration Source: | <u>EPA</u> | Case No.: | <u>P5380</u> |
| Continuing Calibration Source: | <u>Inorganic Ventures</u> | SAS No.: | <u>P5380</u> |

| Sample ID | Analyte | Result | | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | True Value | | | | | | |
| ICV01 | Arsenic | 1020 | 1000 | 102 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |
| | Barium | 491 | 520 | 94 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |
| | Cadmium | 511 | 510 | 100 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |
| | Chromium | 536 | 520 | 103 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |
| | Lead | 1010 | 1000 | 101 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |
| | Selenium | 989 | 1000 | 99 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |
| | Silver | 259 | 250 | 104 | 90 - 110 | P | 12/30/2024 | 14:20 | LB134129 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5380
 Contract: WEST04 Lab Code: CHEM Case No.: P5380 SAS No.: P5380
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte | Result | | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | True Value | | | | | | |
| LLICV01 | Arsenic | 20.7 | 20.0 | 104 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |
| | Barium | 92.2 | 100 | 92 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |
| | Cadmium | 6.21 | 6.0 | 104 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |
| | Chromium | 9.47 | 10.0 | 95 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |
| | Lead | 11.3 | 12.0 | 94 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |
| | Selenium | 18.4 | 20.0 | 92 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |
| | Silver | 10.2 | 10.0 | 102 | 80 - 120 | P | 12/30/2024 | 14:24 | LB134129 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|--------------------------------|---------------------------|-----------|--------------|
| Client: | <u>Weston Solutions</u> | SDG No.: | <u>P5380</u> |
| Contract: | <u>WEST04</u> | Lab Code: | <u>CHEM</u> |
| Initial Calibration Source: | <u>EPA</u> | Case No.: | <u>P5380</u> |
| Continuing Calibration Source: | <u>Inorganic Ventures</u> | SAS No.: | <u>P5380</u> |

| Sample ID | Analyte | Result | | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | True Value | | | | | | |
| CCV01 | Arsenic | 4640 | 5000 | 93 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| | Barium | 9260 | 10000 | 93 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| | Cadmium | 2370 | 2500 | 95 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| | Chromium | 972 | 1000 | 97 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| | Lead | 4730 | 5000 | 95 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| | Selenium | 4610 | 5000 | 92 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 12/30/2024 | 14:49 | LB134129 |
| CCV02 | Arsenic | 4750 | 5000 | 95 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| | Barium | 9410 | 10000 | 94 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| | Cadmium | 2440 | 2500 | 98 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| | Lead | 4860 | 5000 | 97 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| | Selenium | 4750 | 5000 | 95 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 12/30/2024 | 15:19 | LB134129 |
| CCV03 | Arsenic | 4850 | 5000 | 97 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| | Barium | 9200 | 10000 | 92 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| | Chromium | 980 | 1000 | 98 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| | Lead | 4830 | 5000 | 97 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| | Selenium | 4960 | 5000 | 99 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| | Silver | 1200 | 1250 | 96 | 90 - 110 | P | 12/30/2024 | 16:12 | LB134129 |
| CCV04 | Arsenic | 4780 | 5000 | 96 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| | Barium | 9090 | 10000 | 91 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| | Cadmium | 2520 | 2500 | 101 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| | Selenium | 4930 | 5000 | 98 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 12/30/2024 | 17:04 | LB134129 |
| CCV05 | Arsenic | 4790 | 5000 | 96 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |
| | Barium | 9080 | 10000 | 91 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |
| | Cadmium | 2520 | 2500 | 101 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |
| | Chromium | 999 | 1000 | 100 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |
| | Selenium | 4950 | 5000 | 99 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

| | | | |
|--------------------------------|---------------------------|-----------|--------------|
| Client: | <u>Weston Solutions</u> | SDG No.: | <u>P5380</u> |
| Contract: | <u>WEST04</u> | Lab Code: | <u>CHEM</u> |
| Initial Calibration Source: | <u>EPA</u> | Case No.: | <u>P5380</u> |
| Continuing Calibration Source: | <u>Inorganic Ventures</u> | SAS No.: | <u>P5380</u> |

| Sample ID | Analyte | Result | | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|-----------|----------|--------|------------|------------|------------------------|---|---------------|---------------|------------|
| | | ug/L | True Value | | | | | | |
| CCV05 | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 12/30/2024 | 17:54 | LB134129 |
| CCV06 | Arsenic | 4710 | 5000 | 94 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| | Barium | 9140 | 10000 | 91 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| | Chromium | 996 | 1000 | 100 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| | Lead | 4840 | 5000 | 97 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| | Selenium | 4910 | 5000 | 98 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| | Silver | 1220 | 1250 | 98 | 90 - 110 | P | 12/30/2024 | 18:44 | LB134129 |
| CCV07 | Arsenic | 4710 | 5000 | 94 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |
| | Barium | 9770 | 10000 | 98 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |
| | Cadmium | 2530 | 2500 | 101 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |
| | Lead | 4870 | 5000 | 97 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |
| | Selenium | 4970 | 5000 | 99 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |
| | Silver | 1220 | 1250 | 97 | 90 - 110 | P | 12/30/2024 | 19:24 | LB134129 |



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380

SAS No.: P5380

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 |
|-----------|----------|----------------|--------------------|---------------|---------------------------|----|------------------|------------------|---------------|
| CRI01 | Arsenic | 21.1 | 20.0 | 105 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| | Barium | 91.3 | 100 | 91 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| | Cadmium | 6.07 | 6.0 | 101 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| | Chromium | 9.09 | 10.0 | 91 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| | Lead | 11.3 | 12.0 | 94 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| | Selenium | 17.9 | 20.0 | 89 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| | Silver | 10.4 | 10.0 | 104 | 40 - 160 | P | 12/30/2024 | 14:32 | LB134129 |
| CRA | Mercury | 0.19 | 0.2 | 97 | 40 - 160 | CV | 12/30/2024 | 14:37 | LB134125 |
| CRI01 | Arsenic | 20.1 | 20.0 | 100 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |
| | Barium | 90.6 | 100 | 91 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |
| | Cadmium | 5.94 | 6.0 | 99 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |
| | Chromium | 9.80 | 10.0 | 98 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |
| | Lead | 12.0 | 12.0 | 100 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |
| | Selenium | 18.6 | 20.0 | 93 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |
| | Silver | 10.2 | 10.0 | 102 | 40 - 160 | P | 01/06/2025 | 13:21 | lb134166 |



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | SDG No.: | P5380 | | | | | | | |
|-----------|------------------|----------------|---------------------|--------------|------|------|----|------------------|------------------|---------------|
| Contract: | WEST04 | Lab Code: | CHEM | | | | | | | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| ICB38 | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 12/30/2024 | 14:30 | LB134125 |

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | | | | SDG No.: | P5380 | | | | |
|------------------|------------------|-----------------------|---------------------|--------------|------------------|-------|----|-----------------------|------------------|---------------|
| Contract: | WEST04 | Lab Code: CHEM | | | Case No.: | P5380 | | SAS No.: P5380 | | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| CCB88 | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 12/30/2024 | 14:35 | LB134125 |
| CCB89 | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 12/30/2024 | 15:07 | LB134125 |
| CCB90 | Mercury | 0.20 | +/-0.20 | U | 0.16 | 0.20 | CV | 12/30/2024 | 15:27 | LB134125 |

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | | | SDG No.: | P5380 | | | | | |
|------------------|------------------|------------------|---------------------|------------------|-------|------|---|------------------|------------------|---------------|
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 | | | SAS No.: | P5380 | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| ICB01 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 13:17 | lb134166 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 01/06/2025 | 13:17 | lb134166 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 01/06/2025 | 13:17 | lb134166 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 13:17 | lb134166 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 01/06/2025 | 13:17 | lb134166 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 13:17 | lb134166 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 13:17 | lb134166 |

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | | | SDG No.: | P5380 | | | | | |
|------------------|------------------|------------------|---------------------|------------------|-------|------|---|------------------|------------------|---------------|
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 | | | SAS No.: | P5380 | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| CCB01 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 13:53 | Ib134166 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 01/06/2025 | 13:53 | Ib134166 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 01/06/2025 | 13:53 | Ib134166 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 13:53 | Ib134166 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 01/06/2025 | 13:53 | Ib134166 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 13:53 | Ib134166 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 13:53 | Ib134166 |
| CCB02 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 14:19 | Ib134166 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 01/06/2025 | 14:19 | Ib134166 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 01/06/2025 | 14:19 | Ib134166 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 14:19 | Ib134166 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 01/06/2025 | 14:19 | Ib134166 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 14:19 | Ib134166 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 14:19 | Ib134166 |
| CCB03 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 15:10 | Ib134166 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 01/06/2025 | 15:10 | Ib134166 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 01/06/2025 | 15:10 | Ib134166 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 15:10 | Ib134166 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 01/06/2025 | 15:10 | Ib134166 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 15:10 | Ib134166 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 15:10 | Ib134166 |
| CCB04 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 15:58 | Ib134166 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 01/06/2025 | 15:58 | Ib134166 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 01/06/2025 | 15:58 | Ib134166 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 15:58 | Ib134166 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 01/06/2025 | 15:58 | Ib134166 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 15:58 | Ib134166 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 15:58 | Ib134166 |
| CCB05 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 16:28 | Ib134166 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 01/06/2025 | 16:28 | Ib134166 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 01/06/2025 | 16:28 | Ib134166 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 16:28 | Ib134166 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 01/06/2025 | 16:28 | Ib134166 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 01/06/2025 | 16:28 | Ib134166 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 01/06/2025 | 16:28 | Ib134166 |

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | | | SDG No.: | P5380 | | | | | |
|------------------|------------------|------------------|---------------------|------------------|-------|------|---|------------------|------------------|---------------|
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 | | | SAS No.: | P5380 | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| ICB01 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 14:28 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 14:28 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 14:28 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 14:28 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 14:28 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 14:28 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 14:28 | LB134129 |

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | SDG No.: | P5380 | | | | | | | |
|-----------|------------------|-------------|------------------|-----------|-------|----------|-------|---------------|---------------|------------|
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 | SAS No.: | P5380 | | | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| CCB01 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 14:53 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 14:53 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 14:53 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 14:53 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 14:53 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 14:53 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 14:53 | LB134129 |
| CCB02 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 15:23 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 15:23 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 15:23 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 15:23 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 15:23 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 15:23 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 15:23 | LB134129 |
| CCB03 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 16:16 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 16:16 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 16:16 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 16:16 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 16:16 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 16:16 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 16:16 | LB134129 |
| CCB04 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 17:08 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 17:08 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 17:08 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 17:08 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 17:08 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 17:08 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 17:08 | LB134129 |
| CCB05 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 17:58 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 17:58 | LB134129 |
| | Cadmium | 0.24 | +/-6.00 | J | 1.50 | 6.00 | P | 12/30/2024 | 17:58 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 17:58 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 17:58 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 17:58 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 17:58 | LB134129 |
| CCB06 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 18:48 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 18:48 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 18:48 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 18:48 | LB134129 |

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| Client: | Weston Solutions | | | SDG No.: | P5380 | | | | | |
|------------------|------------------|------------------|---------------------|------------------|-------|------|---|------------------|------------------|---------------|
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 | | | SAS No.: | P5380 | |
| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
| CCB06 | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 18:48 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 18:48 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 18:48 | LB134129 |
| CCB07 | Arsenic | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 19:31 | LB134129 |
| | Barium | 100 | +/-100 | U | 25.0 | 100 | P | 12/30/2024 | 19:31 | LB134129 |
| | Cadmium | 6.00 | +/-6.00 | U | 1.50 | 6.00 | P | 12/30/2024 | 19:31 | LB134129 |
| | Chromium | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 19:31 | LB134129 |
| | Lead | 12.0 | +/-12.0 | U | 9.60 | 12.0 | P | 12/30/2024 | 19:31 | LB134129 |
| | Selenium | 20.0 | +/-20.0 | U | 16.0 | 20.0 | P | 12/30/2024 | 19:31 | LB134129 |
| | Silver | 10.0 | +/-10.0 | U | 5.00 | 10.0 | P | 12/30/2024 | 19:31 | LB134129 |

Metals

- 3b -

PREPARATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** P5380

Instrument: CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|-------------------|---------|------------------|---------------------|--------------|-------------|--------------|----|------------------|------------------|----------|
| PB16585TB | | | | | | | | | | |
| | Mercury | 2.00 | <2.00 | U | 1.60 | 2.00 | CV | 12/30/2024 | 15:14 | LB134125 |
| | | | | | | | | | | |
| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
| PB165912BL | | | | | | | | | | |
| | Mercury | 0.20 | <0.20 | U | 0.16 | 0.20 | CV | 12/30/2024 | 14:44 | LB134125 |
| | | | | | | | | | | |

Metals

- 3b -

PREPARATION BLANK SUMMARY

Client: Weston Solutions

SDG No.: P5380

Instrument: P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|-------------------|----------------|--------------------------|-----------------------------|----------------------|----------------------|----------------------|----------|--------------------------|--------------------------|------------|
| PB16585TB | | WATER | | | Batch Number: | PB165887 | | Prep Date: | 12/27/2024 | |
| | Arsenic | 100 | <100 | U | 80.0 | 100 | P | 01/06/2025 | 14:53 | lb134166 |
| | Barium | 500 | <500 | U | 125 | 500 | P | 01/06/2025 | 14:53 | lb134166 |
| | Cadmium | 30.0 | <30.0 | U | 7.50 | 30.0 | P | 01/06/2025 | 14:53 | lb134166 |
| | Chromium | 50.0 | <50.0 | U | 25.0 | 50.0 | P | 01/06/2025 | 14:53 | lb134166 |
| | Lead | 60.0 | <60.0 | U | 48.0 | 60.0 | P | 01/06/2025 | 14:53 | lb134166 |
| | Selenium | 100 | <100 | U | 80.0 | 100 | P | 01/06/2025 | 14:53 | lb134166 |
| | Silver | 50.0 | <50.0 | U | 25.0 | 50.0 | P | 01/06/2025 | 14:53 | lb134166 |
| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
| PB165887BL | | WATER | | | Batch Number: | PB165887 | | Prep Date: | 12/27/2024 | |
| | Arsenic | 100 | <100 | U | 80.0 | 100 | P | 01/06/2025 | 14:32 | lb134166 |
| | Barium | 500 | <500 | U | 125 | 500 | P | 01/06/2025 | 14:32 | lb134166 |
| | Cadmium | 30.0 | <30.0 | U | 7.50 | 30.0 | P | 01/06/2025 | 14:32 | lb134166 |
| | Chromium | 50.0 | <50.0 | U | 25.0 | 50.0 | P | 01/06/2025 | 14:32 | lb134166 |
| | Lead | 60.0 | <60.0 | U | 48.0 | 60.0 | P | 01/06/2025 | 14:32 | lb134166 |
| | Selenium | 100 | <100 | U | 80.0 | 100 | P | 01/06/2025 | 14:32 | lb134166 |
| | Silver | 50.0 | <50.0 | U | 25.0 | 50.0 | P | 01/06/2025 | 14:32 | lb134166 |

Metals

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INTERFERENCE CHECK SAMPLE

| | | | |
|--------------------|------------------|-----------------------|-------|
| Client: | Weston Solutions | SDG No.: | P5380 |
| Contract: | WEST04 | Lab Code: | CHEM |
| ICS Source: | EPA | Case No.: | P5380 |
| | | Instrument ID: | P4 |

| 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 | Arsenic | 6.64 | | | -20 | 20 | 12/30/2024 | 14:37 | LB134129 |
| | Barium | 4.90 | 6.0 | 82 | -94 | 106 | 12/30/2024 | 14:37 | LB134129 |
| | Cadmium | -4.02 | 1.0 | 402 | -5 | 7 | 12/30/2024 | 14:37 | LB134129 |
| | Chromium | 57.9 | 52.0 | 111 | 42 | 62 | 12/30/2024 | 14:37 | LB134129 |
| | Lead | 7.91 | | | -12 | 12 | 12/30/2024 | 14:37 | LB134129 |
| | Selenium | -16.6 | | | -20 | 20 | 12/30/2024 | 14:37 | LB134129 |
| | Silver | -8.33 | | | -10 | 10 | 12/30/2024 | 14:37 | LB134129 |
| ICSA01 | Arsenic | 107 | 104 | 103 | 88.4 | 120 | 12/30/2024 | 14:45 | LB134129 |
| | Barium | 512 | 537 | 95 | 437 | 637 | 12/30/2024 | 14:45 | LB134129 |
| | Cadmium | 1080 | 972 | 111 | 826 | 1120 | 12/30/2024 | 14:45 | LB134129 |
| | Chromium | 617 | 542 | 114 | 460 | 624 | 12/30/2024 | 14:45 | LB134129 |
| | Lead | 52.7 | 49.0 | 108 | 37 | 61 | 12/30/2024 | 14:45 | LB134129 |
| | Selenium | 45.6 | 46.0 | 99 | 26 | 66 | 12/30/2024 | 14:45 | LB134129 |
| | Silver | 226 | 201 | 112 | 170 | 232 | 12/30/2024 | 14:45 | LB134129 |
| ICSA01 | Arsenic | 4.94 | | | -20 | 20 | 01/06/2025 | 13:26 | lb134166 |
| | Barium | 2.86 | 6.0 | 48 | -94 | 106 | 01/06/2025 | 13:26 | lb134166 |
| | Cadmium | 1.48 | 1.0 | 148 | -5 | 7 | 01/06/2025 | 13:26 | lb134166 |
| | Chromium | 57.8 | 52.0 | 111 | 42 | 62 | 01/06/2025 | 13:26 | lb134166 |
| | Lead | 7.82 | | | -12 | 12 | 01/06/2025 | 13:26 | lb134166 |
| | Selenium | -10.5 | | | -20 | 20 | 01/06/2025 | 13:26 | lb134166 |
| | Silver | -1.09 | | | -10 | 10 | 01/06/2025 | 13:26 | lb134166 |
| ICSA01 | Arsenic | 112 | 104 | 108 | 88.4 | 120 | 01/06/2025 | 13:34 | lb134166 |
| | Barium | 477 | 537 | 89 | 437 | 637 | 01/06/2025 | 13:34 | lb134166 |
| | Cadmium | 1000 | 972 | 103 | 826 | 1120 | 01/06/2025 | 13:34 | lb134166 |
| | Chromium | 585 | 542 | 108 | 460 | 624 | 01/06/2025 | 13:34 | lb134166 |
| | Lead | 57.5 | 49.0 | 117 | 37 | 61 | 01/06/2025 | 13:34 | lb134166 |
| | Selenium | 39.2 | 46.0 | 85 | 26 | 66 | 01/06/2025 | 13:34 | lb134166 |
| | Silver | 225 | 201 | 112 | 170 | 232 | 01/06/2025 | 13:34 | lb134166 |



METAL

QC

DATA

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metals

- 5a -

MATRIX SPIKE SUMMARY

client: Weston Solutions

level: low

sdg no.: P5380

contract: WEST04

lab code: CHEM

case no.: P5380

sas no.: P5380

matrix: Water

sample id: P5386-04

client id: MOO-24-00395-96MS

Percent Solids for Sample: NA

Spiked ID: P5386-04MS

Percent Solids for Spike Sample: NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|----------|-------|---------------------|---------------|------|---------------|---|-------------|------------|------|----|
| Arsenic | ug/L | 87 - 113 | 3750 | 100 | U | | 4000 | 94 | P | |
| Barium | ug/L | 88 - 113 | 1020 | 170 | J | | 1000 | 85 | N | P |
| Cadmium | ug/L | 88 - 113 | 961 | 30.0 | U | | 1000 | 96 | | P |
| Chromium | ug/L | 90 - 113 | 1980 | 50.0 | U | | 2000 | 99 | | P |
| Lead | ug/L | 86 - 113 | 4770 | 169 | | | 5000 | 92 | | P |
| Mercury | ug/L | 82 - 119 | 40.6 | 1.08 | J | | 40.0 | 99 | | CV |
| Selenium | ug/L | 83 - 114 | 8970 | 100 | U | | 10000 | 90 | | P |
| Silver | ug/L | 84 - 115 | 365 | 50.0 | U | | 380 | 96 | | P |

metals

- 5a -

MATRIX SPIKE DUPLICATE SUMMARY

| client: | Weston Solutions | level: | low | sdg no.: | P5380 | | | | |
|----------------------------|------------------|---------------------|-------------|----------------------------------|--------------------|----------|-------------|------------|--------|
| contract: | WEST04 | lab code: | CHEM | case no.: | P5380 | sas no.: | P5380 | | |
| matrix: | Water | sample id: | P5386-04 | client id: | MOO-24-00395-96MSD | | | | |
| Percent Solids for Sample: | NA | Spiked ID: | P5386-04MSD | Percent Solids for Spike Sample: | NA | | | | |
| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual M |
| Arsenic | ug/L | 87 - 113 | 3720 | 100 | U | 4000 | 93 | | P |
| Barium | ug/L | 88 - 113 | 1020 | 170 | J | 1000 | 85 | N | P |
| Cadmium | ug/L | 88 - 113 | 961 | 30.0 | U | 1000 | 96 | | P |
| Chromium | ug/L | 90 - 113 | 1960 | 50.0 | U | 2000 | 98 | | P |
| Lead | ug/L | 86 - 113 | 4750 | 169 | | 5000 | 92 | | P |
| Mercury | ug/L | 82 - 119 | 42.5 | 1.08 | J | 40.0 | 103 | | CV |
| Selenium | ug/L | 83 - 114 | 8970 | 100 | U | 10000 | 90 | | P |
| Silver | ug/L | 84 - 115 | 357 | 50.0 | U | 380 | 94 | | P |

Metals

- 5b -

POST DIGEST SPIKE SUMMARY

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380

SAS No.: P5380

Matrix: Water

Level: LOW

Client ID: MOO-24-00395-96A

Sample ID: P5386-04

Spiked ID: P5386-04A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---------|-------|---------------------|---------------|---|---------------|---|-------------|------------|------|---|
| Barium | ug/L | 88 - 113 | 1030 | | 170 | J | 1000 | 86 | | P |

Metals

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DUPLICATE SAMPLE SUMMARY

| | | | | | |
|-----------------------------------|------------------|---------------------|-------------|---|--------------------|
| Client: | Weston Solutions | Level: | LOW | SDG No.: | P5380 |
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 |
| Matrix: | Water | Sample ID: | P5386-04 | Client ID: | MOO-24-00395-96DUP |
| Percent Solids for Sample: | NA | Duplicate ID | P5386-04DUP | Percent Solids for Spike Sample: | NA |

| Analyte | Units | Acceptance | Sample Result | Duplicate | | RPD | Qual | M |
|----------------|--------------|-------------------|--------------------------|------------------|---------------|------------|-------------|----------|
| | | Limit | | C | Result | | | |
| Arsenic | ug/L | 20 | 100 | U | 100 | U | | P |
| Barium | ug/L | 20 | 170 | J | 175 | J | 3 | P |
| Cadmium | ug/L | 20 | 30.0 | U | 30.0 | U | | P |
| Chromium | ug/L | 20 | 50.0 | U | 50.0 | U | | P |
| Lead | ug/L | 20 | 169 | | 169 | | 0 | P |
| Mercury | ug/L | 20 | 1.08 | J | 1.02 | J | 6 | CV |
| Selenium | ug/L | 20 | 100 | U | 100 | U | | P |
| Silver | ug/L | 20 | 50.0 | U | 50.0 | U | | P |

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions

Level: LOW

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380

SAS No.: P5380

Matrix: Water

Sample ID: P5386-04MS

Client ID: MOO-24-00395-96MSD

Percent Solids for Sample: NA

Duplicate ID P5386-04MSD

Percent Solids for Spike Sample: NA

| Analyte | Units | Acceptance Limit | Sample Result | Duplicate Result | | RPD | Qual | M |
|----------------|--------------|-------------------------|----------------------|-------------------------|----------|------------|-------------|----------|
| | | | | C | C | | | |
| Arsenic | ug/L | 20 | 3750 | | 3720 | 1 | P | |
| Barium | ug/L | 20 | 1020 | | 1020 | 0 | P | |
| Cadmium | ug/L | 20 | 961 | | 961 | 0 | P | |
| Chromium | ug/L | 20 | 1980 | | 1960 | 1 | P | |
| Lead | ug/L | 20 | 4770 | | 4750 | 0 | P | |
| Mercury | ug/L | 20 | 40.6 | | 42.5 | 5 | CV | |
| Selenium | ug/L | 20 | 8970 | | 8970 | 0 | P | |
| Silver | ug/L | 20 | 365 | | 357 | 2 | P | |

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

| | | | | | | | |
|-----------|------------------|-----------|-------|-----------|-------|----------|-------|
| Client: | Weston Solutions | SDG No.: | P5380 | | | | |
| Contract: | WEST04 | Lab Code: | CHEM | Case No.: | P5380 | SAS No.: | P5380 |

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|-------------------|-------|------------|--------|---|------------|-------------------|---|
| PB165887BS | | | | | | | |
| Arsenic | ug/L | 4000 | 3890 | | 97 | 87 - 113 | P |
| Barium | ug/L | 1000 | 922 | | 92 | 88 - 113 | P |
| Cadmium | ug/L | 1000 | 976 | | 98 | 88 - 113 | P |
| Chromium | ug/L | 2000 | 2070 | | 104 | 90 - 113 | P |
| Lead | ug/L | 5000 | 4870 | | 97 | 86 - 113 | P |
| Selenium | ug/L | 10000 | 9410 | | 94 | 83 - 114 | P |
| Silver | ug/L | 380 | 371 | | 98 | 84 - 115 | P |

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380

SAS No.: P5380

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|-----------------------|-------|------------|--------|---|------------|-------------------|----|
| PB165912BS Mercury | ug/L | 4.0 | 3.76 | | 94 | 82 - 119 | CV |

Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

MOO-24-00395-96L

Lab Name: Chemtech Consulting Group

Contract: WEST04

Lab Code: CHEM Lb No.: lb134129

Lab Sample ID : P5386-04L SDG No.: P5380

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 |
|----------|---------------------------|---|----------------------------|---|--------------|---|----|
| Arsenic | 100 | U | 500 | U | | | P |
| Barium | 170 | J | 2500 | U | 100.0 | | P |
| Cadmium | 30.0 | U | 150 | U | | | P |
| Chromium | 50.0 | U | 250 | U | | | P |
| Lead | 169 | | 300 | U | 100.0 | | P |
| Mercury | 1.08 | J | 10.0 | U | 100.0 | | CV |
| Selenium | 100 | U | 500 | U | | | P |
| Silver | 50.0 | U | 250 | U | | | P |



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METAL

PREPARATION &

INSTRUMENT

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380 **SAS No.:** P5380

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: | | | | |
|----------------|-----------------------------|--|-----------|------------|-----------|-----------|
| | | Al | Ca | Fe | Mg | Ag |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380

SAS No.: P5380

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: | | | | |
|----------|---------------------|--|-----------|-----------|-----------|------------|
| | | As | Ba | Be | Cd | Co |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380 **SAS No.:** P5380

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: | | | | |
|----------------|-----------------------------|--|-----------|-----------|-----------|------------|
| | | Cr | Cu | K | Mn | Mo |
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380

SAS No.: P5380

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: | | | | |
|----------|---------------------|--|-----------|-----------|-----------|-----------|
| | | Na | Ni | Pb | Sb | Se |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Case No.: P5380 **SAS No.:** P5380

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: | | | | | |
|----------------|-----------------------------|--|------------|-----------|-----------|-----------|-----------|
| | | Sn | Ti | Tl | V | Zn | |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000630 | 0.0001280 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001110 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | -0.0007420 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |



METAL

PREPARATION &

ANALYTICAL

SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: Weston Solutions

SDG No.: P5380

Contract: WEST04

Lab Code: CHEM

Method:

Case No.: P5380 **SAS No.:** P5380

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|----------------------|----------------------------|-------------|--------|------------|-------------------------|--------------------------|----------------|
| Batch Number: | PB165887 | | | | | | |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | SAM | WATER | 12/27/2024 | 5.0 | 25.0 | |
| P5386-04DUP | MOO-24-00395-96DUP | DUP | WATER | 12/27/2024 | 5.0 | 25.0 | |
| P5386-04MS | MOO-24-00395-96MS | MS | WATER | 12/27/2024 | 5.0 | 25.0 | |
| P5386-04MSD | MOO-24-00395-96MSD | MSD | WATER | 12/27/2024 | 5.0 | 25.0 | |
| PB165887TB | PB165887TB | MB | WATER | 12/27/2024 | 5.0 | 25.0 | |
| PB165887BL | PB165887BL | MB | WATER | 12/27/2024 | 5.0 | 25.0 | |
| PB165887BS | PB165887BS | LCS | WATER | 12/27/2024 | 5.0 | 25.0 | |

Metals

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SAMPLE PREPARATION SUMMARY

| | | | |
|------------------|------------------|------------------|-------|
| Client: | Weston Solutions | SDG No.: | P5380 |
| Contract: | WEST04 | Lab Code: | CHEM |
| | | Method: | |
| | | Case No.: | P5380 |
| | | SAS No.: | P5380 |

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|----------------------|----------------------------|-------------|--------|------------|-------------------------|--------------------------|----------------|
| Batch Number: | PB165912 | | | | | | |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | SAM | WATER | 12/30/2024 | 3.0 | 30.0 | |
| P5386-04DUP | MOO-24-00395-96DUP | DUP | WATER | 12/30/2024 | 3.0 | 30.0 | |
| P5386-04MS | MOO-24-00395-96MS | MS | WATER | 12/30/2024 | 3.0 | 30.0 | |
| P5386-04MSD | MOO-24-00395-96MSD | MSD | WATER | 12/30/2024 | 3.0 | 30.0 | |
| PB165858TB | PB165858TB | MB | WATER | 12/30/2024 | 3.0 | 30.0 | |
| PB165912BL | PB165912BL | MB | WATER | 12/30/2024 | 30.0 | 30.0 | |
| PB165912BS | PB165912BS | LCS | WATER | 12/30/2024 | 30.0 | 30.0 | |

metals

- 14 -

ANALYSIS RUN LOG

Client: Weston Solutions

Contract: WEST04

Lab code: CHEM **Case no.:** P5380

Sas no.: P5380

Sdg no.: P5380

Instrument id number: _____ **Method:** _____

Run number: LB134125

Start date: 12/30/2024

End date: 12/30/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|----------------|---------------------------|-----|------|----------------|
| S0 | S0 | 1 | 1356 | HG |
| S0.2 | S0.2 | 1 | 1358 | HG |
| S2.5 | S2.5 | 1 | 1401 | HG |
| S5 | S5 | 1 | 1406 | HG |
| S7.5 | S7.5 | 1 | 1416 | HG |
| S10 | S10 | 1 | 1425 | HG |
| ICV38 | ICV38 | 1 | 1428 | HG |
| ICB38 | ICB38 | 1 | 1430 | HG |
| CCV88 | CCV88 | 1 | 1432 | HG |
| CCB88 | CCB88 | 1 | 1435 | HG |
| CRA | CRA | 1 | 1437 | HG |
| PB165912BL | PB165912BL | 1 | 1444 | HG |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T | 1 | 1451 | HG |
| P5386-04DUP | MOO-24-00395-96DUP | 1 | 1503 | HG |
| CCV89 | CCV89 | 1 | 1505 | HG |
| CCB89 | CCB89 | 1 | 1507 | HG |
| P5386-04MS | MOO-24-00395-96MS | 1 | 1509 | HG |
| P5386-04MSD | MOO-24-00395-96MSD | 1 | 1512 | HG |
| PB165858TB | PB165858TB | 1 | 1514 | HG |
| P5386-04L | MOO-24-00395-96L | 5 | 1516 | HG |
| PB165912BS | PB165912BS | 1 | 1522 | HG |
| CCV90 | CCV90 | 1 | 1524 | HG |
| CCB90 | CCB90 | 1 | 1527 | HG |

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions

Contract: WEST04

Lab code: CHEM **Case no.:** P5380

Sas no.: P5380

Sdg no.: P5380

Instrument id number: _____ **Method:** _____

Run number: LB134129

Start date: 12/30/2024 **End date:** 12/30/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|----------------|---------------------------|-----|------|----------------------|
| S0 | S0 | 1 | 1354 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S1 | S1 | 1 | 1358 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S2 | S2 | 1 | 1403 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S3 | S3 | 1 | 1407 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S4 | S4 | 1 | 1411 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S5 | S5 | 1 | 1415 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICV01 | ICV01 | 1 | 1420 | Ag,As,Ba,Cd,Cr,Pb,Se |
| LLICV01 | LLICV01 | 1 | 1424 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICB01 | ICB01 | 1 | 1428 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CRI01 | CRI01 | 1 | 1432 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSA01 | ICSA01 | 1 | 1437 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSAB01 | ICSAB01 | 1 | 1445 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV01 | CCV01 | 1 | 1449 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB01 | CCB01 | 1 | 1453 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV02 | CCV02 | 1 | 1519 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB02 | CCB02 | 1 | 1523 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV03 | CCV03 | 1 | 1612 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB03 | CCB03 | 1 | 1616 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T | 1 | 1633 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P5386-04DUP | MOO-24-00395-96DUP | 1 | 1647 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P5386-04L | MOO-24-00395-96L | 5 | 1651 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P5386-04MS | MOO-24-00395-96MS | 1 | 1655 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P5386-04MSD | MOO-24-00395-96MSD | 1 | 1659 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV04 | CCV04 | 1 | 1704 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB04 | CCB04 | 1 | 1708 | Ag,As,Ba,Cd,Cr,Pb,Se |
| P5386-04A | MOO-24-00395-96A | 1 | 1712 | Ba |
| CCV05 | CCV05 | 1 | 1754 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB05 | CCB05 | 1 | 1758 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV06 | CCV06 | 1 | 1844 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB06 | CCB06 | 1 | 1848 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV07 | CCV07 | 1 | 1924 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB07 | CCB07 | 1 | 1931 | Ag,As,Ba,Cd,Cr,Pb,Se |

metals
- 14 -
ANALYSIS RUN LOG

Client: Weston Solutions

Contract: WEST04

Lab code: CHEM **Case no.:** P5380

Sas no.: P5380

Sdg no.: P5380

Instrument id number: _____ **Method:** _____

Run number: lb134166

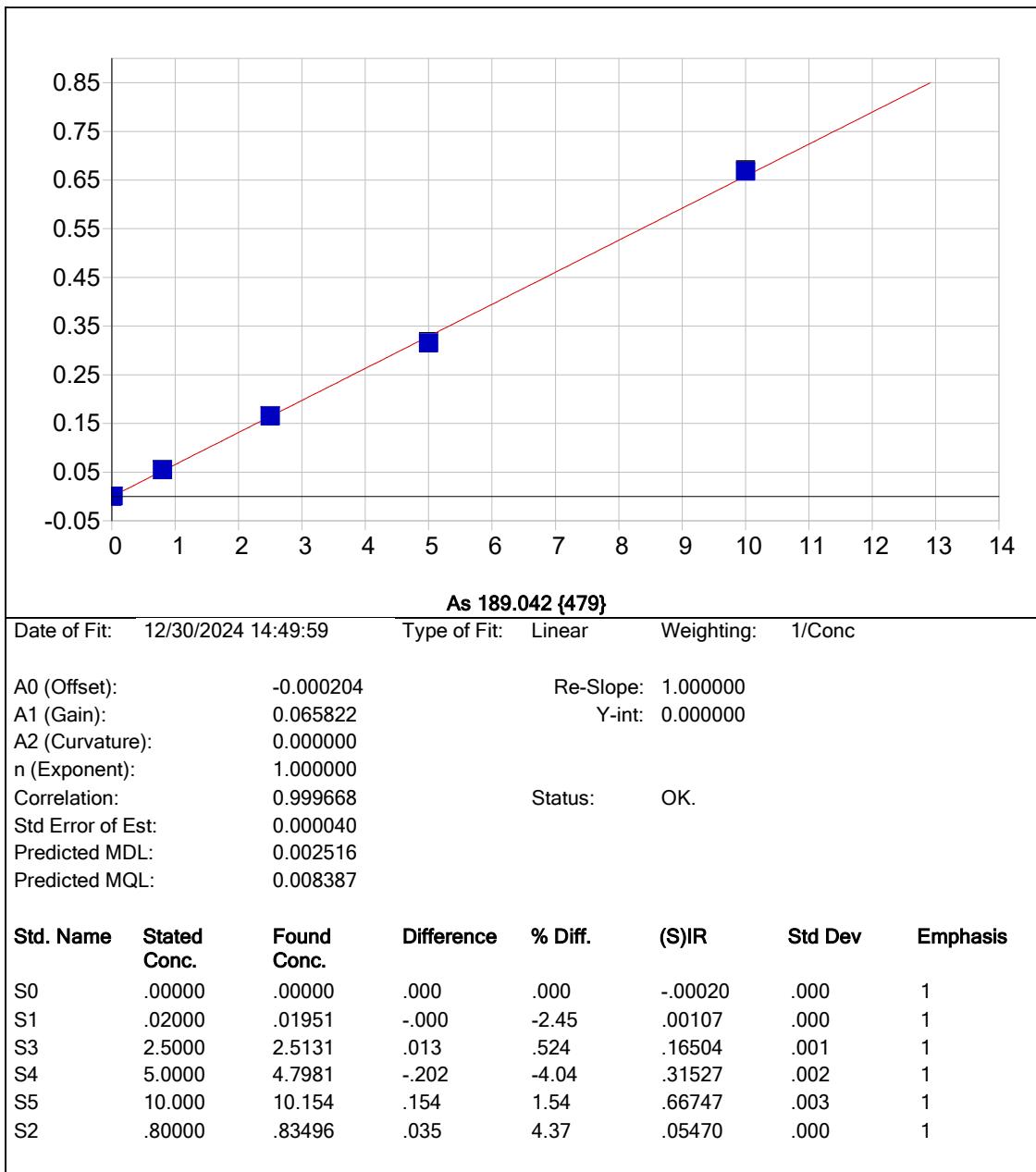
Start date: 01/06/2025 **End date:** 01/06/2025

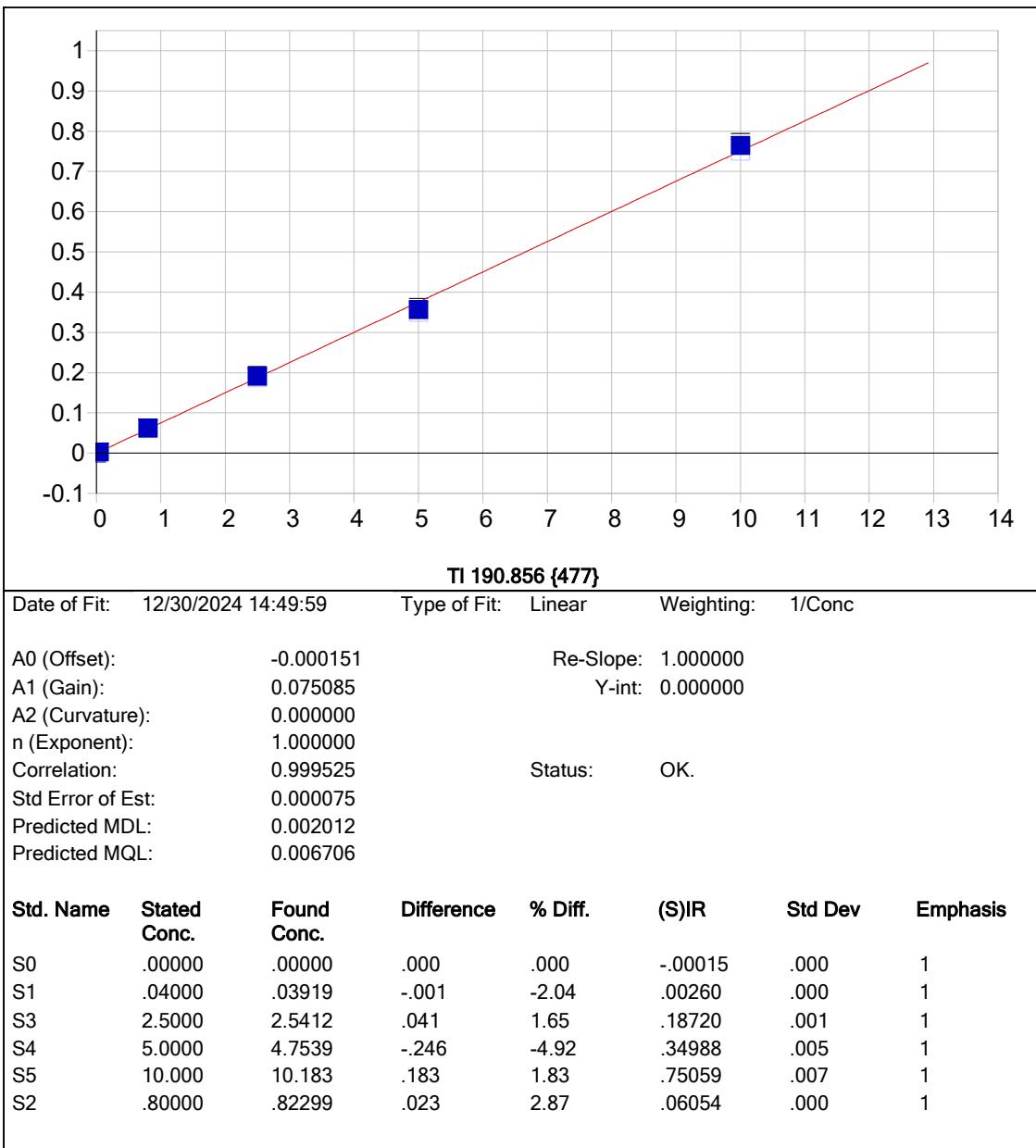
| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|----------------|------------------|-----|------|----------------------|
| S0 | S0 | 1 | 1234 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S1 | S1 | 1 | 1239 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S2 | S2 | 1 | 1243 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S3 | S3 | 1 | 1247 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S4 | S4 | 1 | 1251 | Ag,As,Ba,Cd,Cr,Pb,Se |
| S5 | S5 | 1 | 1255 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICV01 | ICV01 | 1 | 1300 | Ag,As,Ba,Cd,Cr,Pb,Se |
| LLICV01 | LLICV01 | 1 | 1313 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICB01 | ICB01 | 1 | 1317 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CRI01 | CRI01 | 1 | 1321 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSA01 | ICSA01 | 1 | 1326 | Ag,As,Ba,Cd,Cr,Pb,Se |
| ICSAB01 | ICSAB01 | 1 | 1334 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV01 | CCV01 | 1 | 1343 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB01 | CCB01 | 1 | 1353 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV02 | CCV02 | 1 | 1415 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB02 | CCB02 | 1 | 1419 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB165887BL | PB165887BL | 1 | 1432 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB165887BS | PB165887BS | 1 | 1436 | Ag,As,Ba,Cd,Cr,Pb,Se |
| PB165858TB | PB165858TB | 1 | 1453 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV03 | CCV03 | 1 | 1506 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB03 | CCB03 | 1 | 1510 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV04 | CCV04 | 1 | 1548 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB04 | CCB04 | 1 | 1558 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCV05 | CCV05 | 1 | 1624 | Ag,As,Ba,Cd,Cr,Pb,Se |
| CCB05 | CCB05 | 1 | 1628 | Ag,As,Ba,Cd,Cr,Pb,Se |

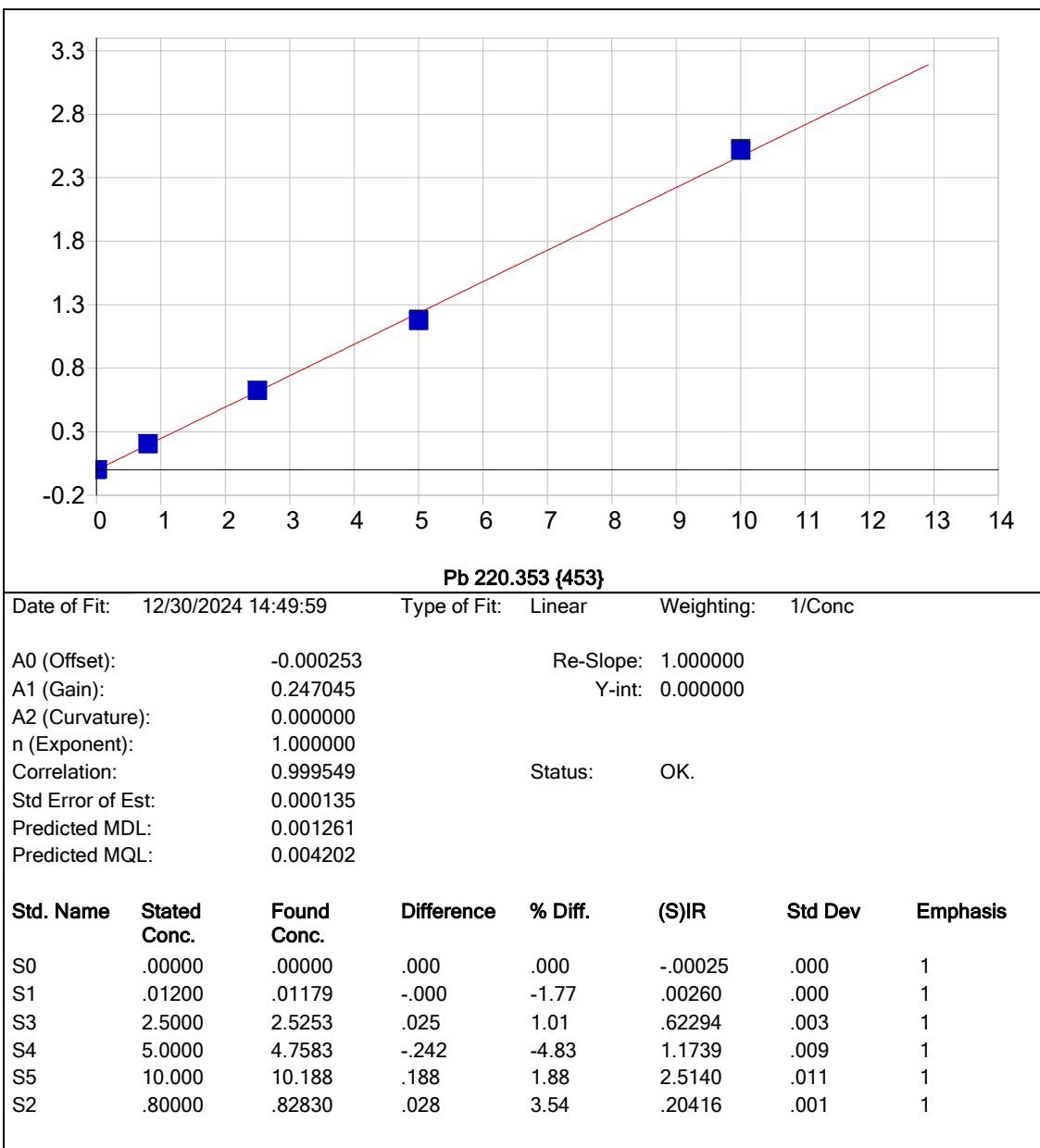


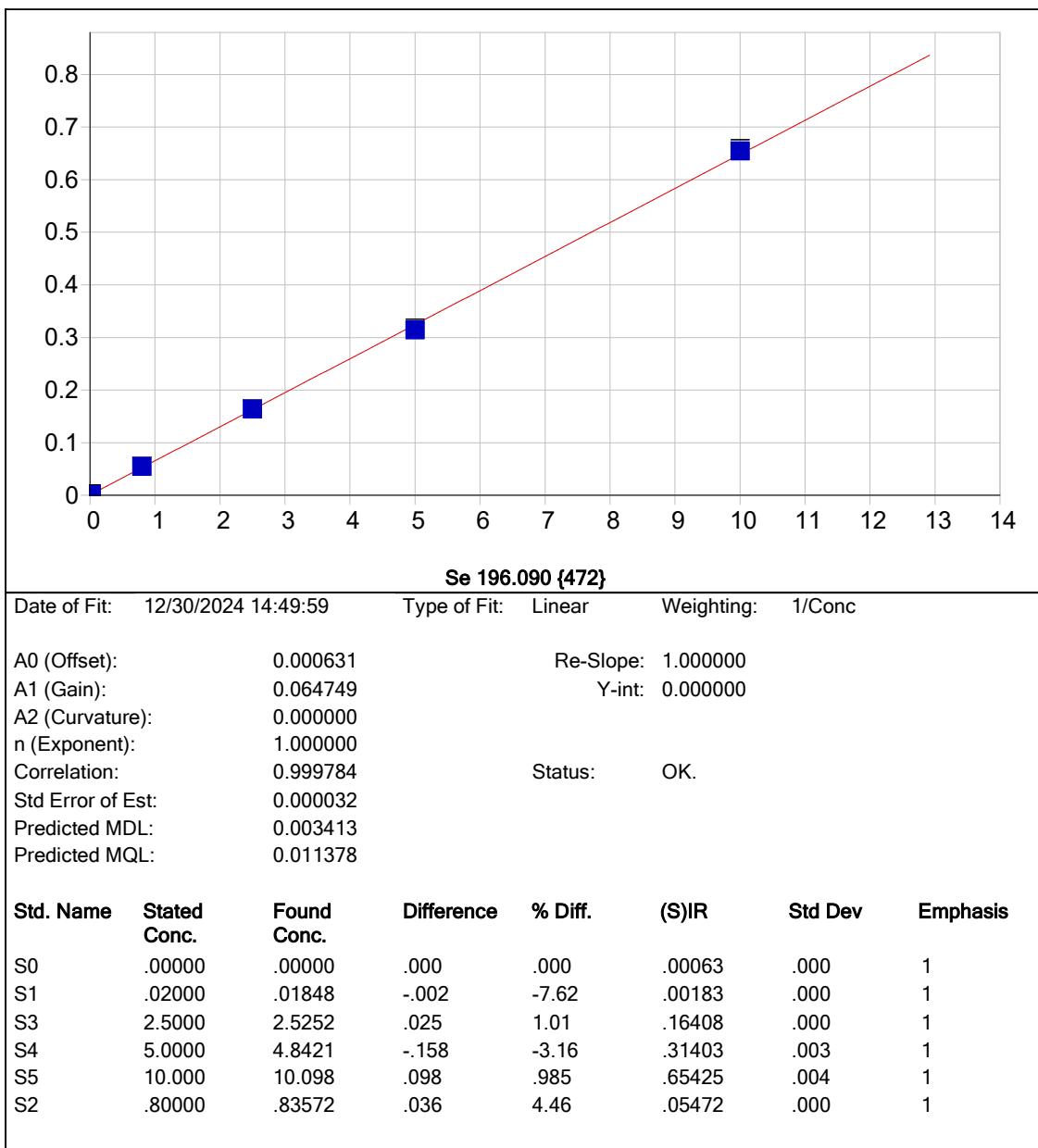
METAL

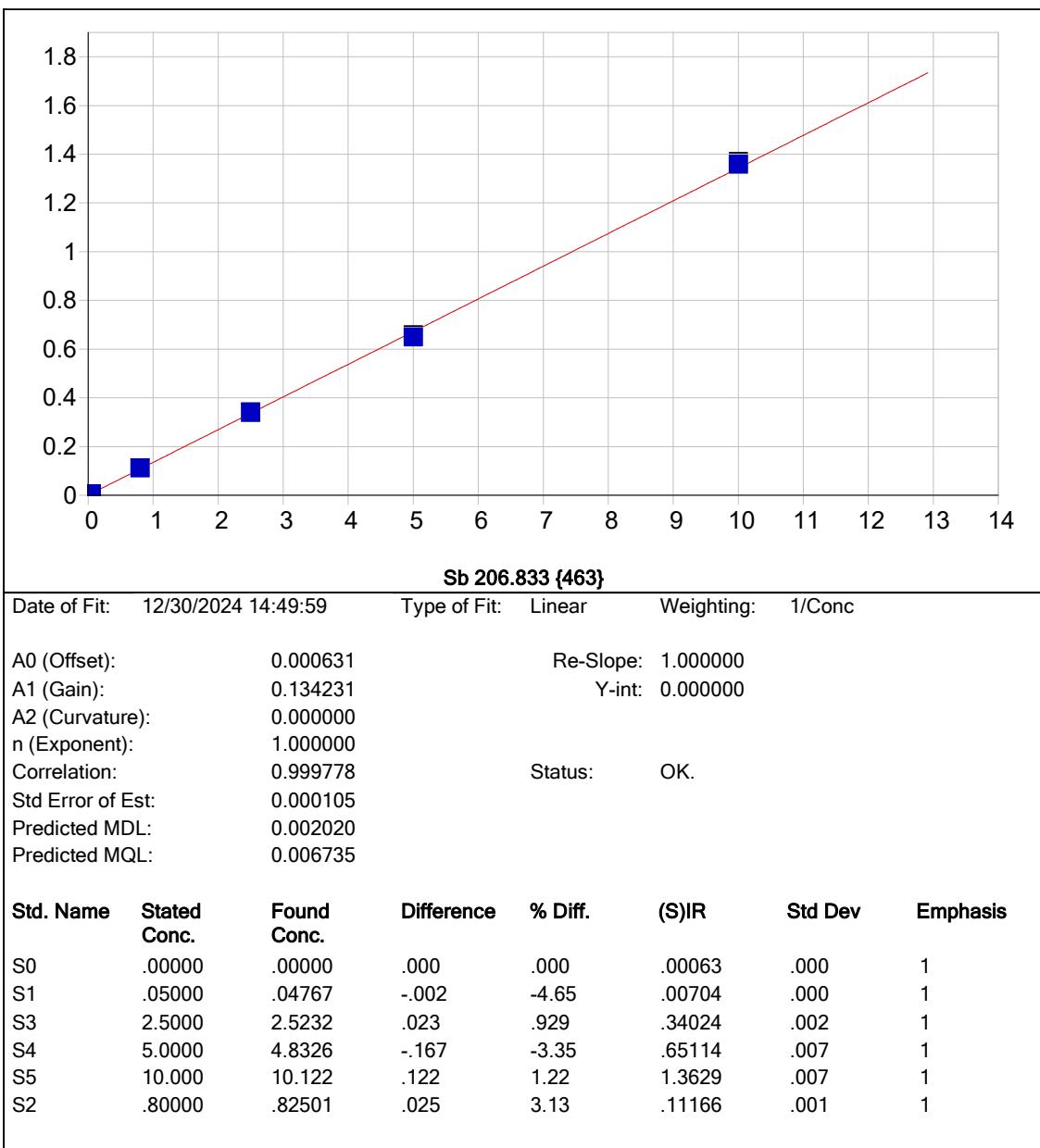
RAW DATA

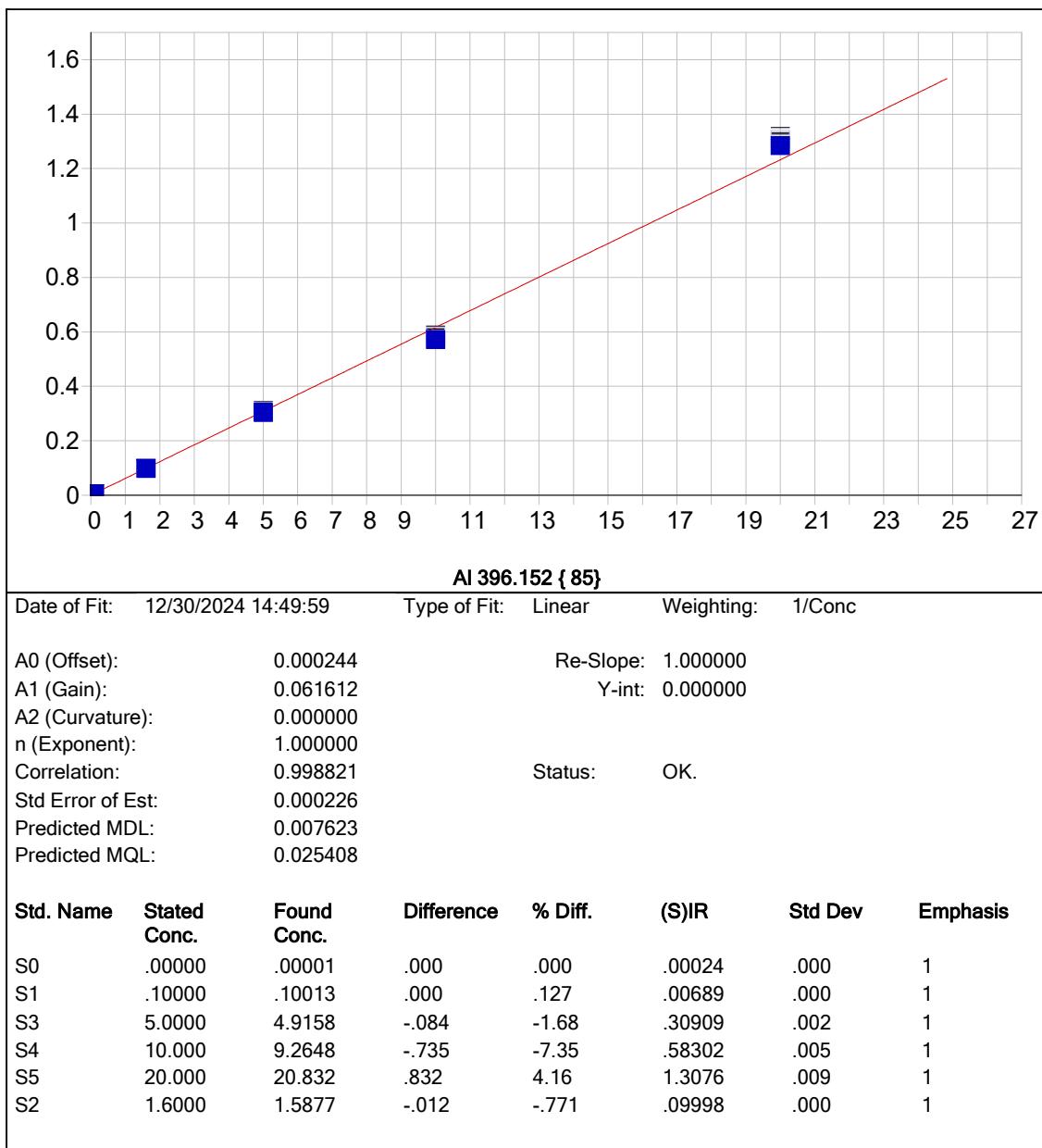


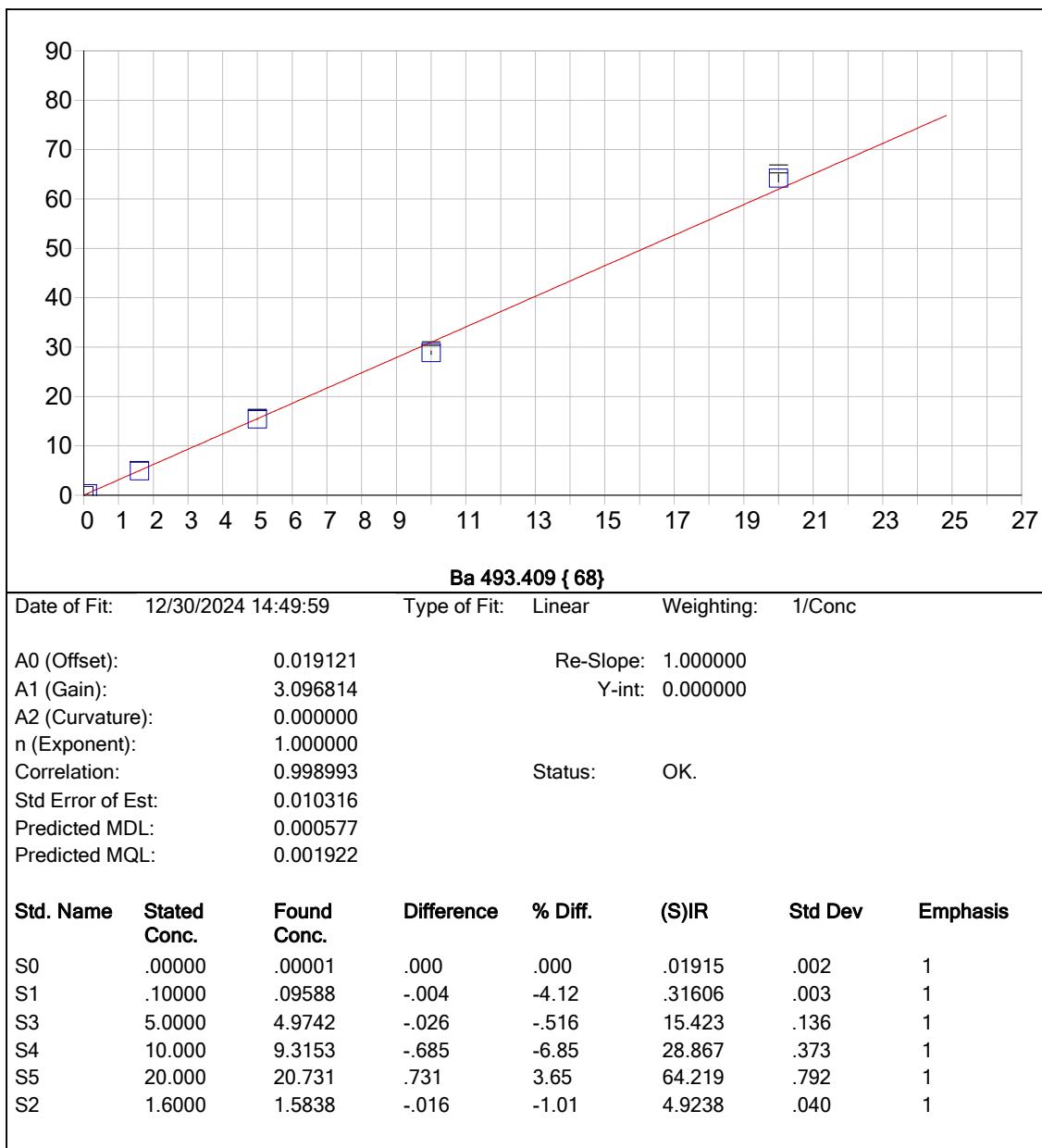


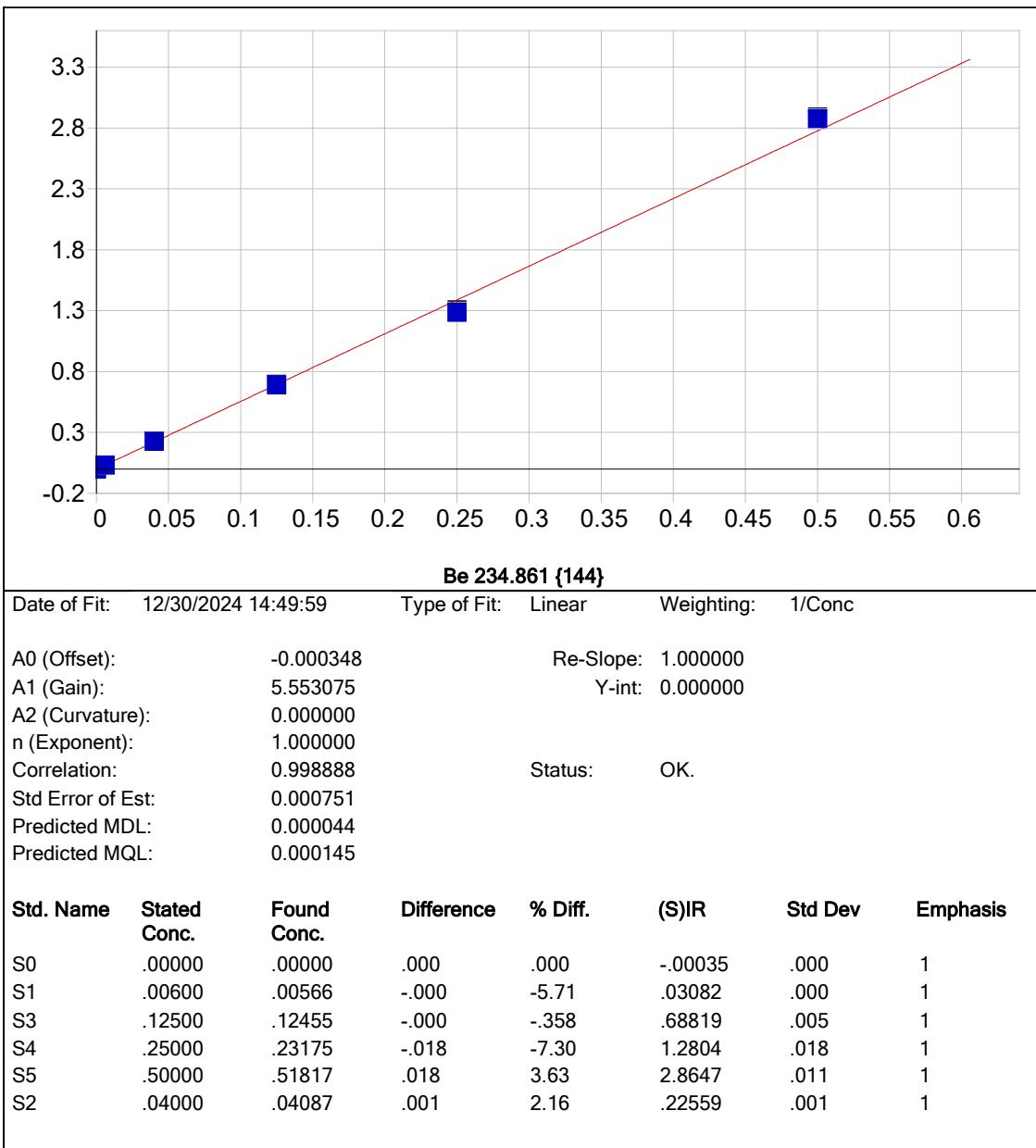


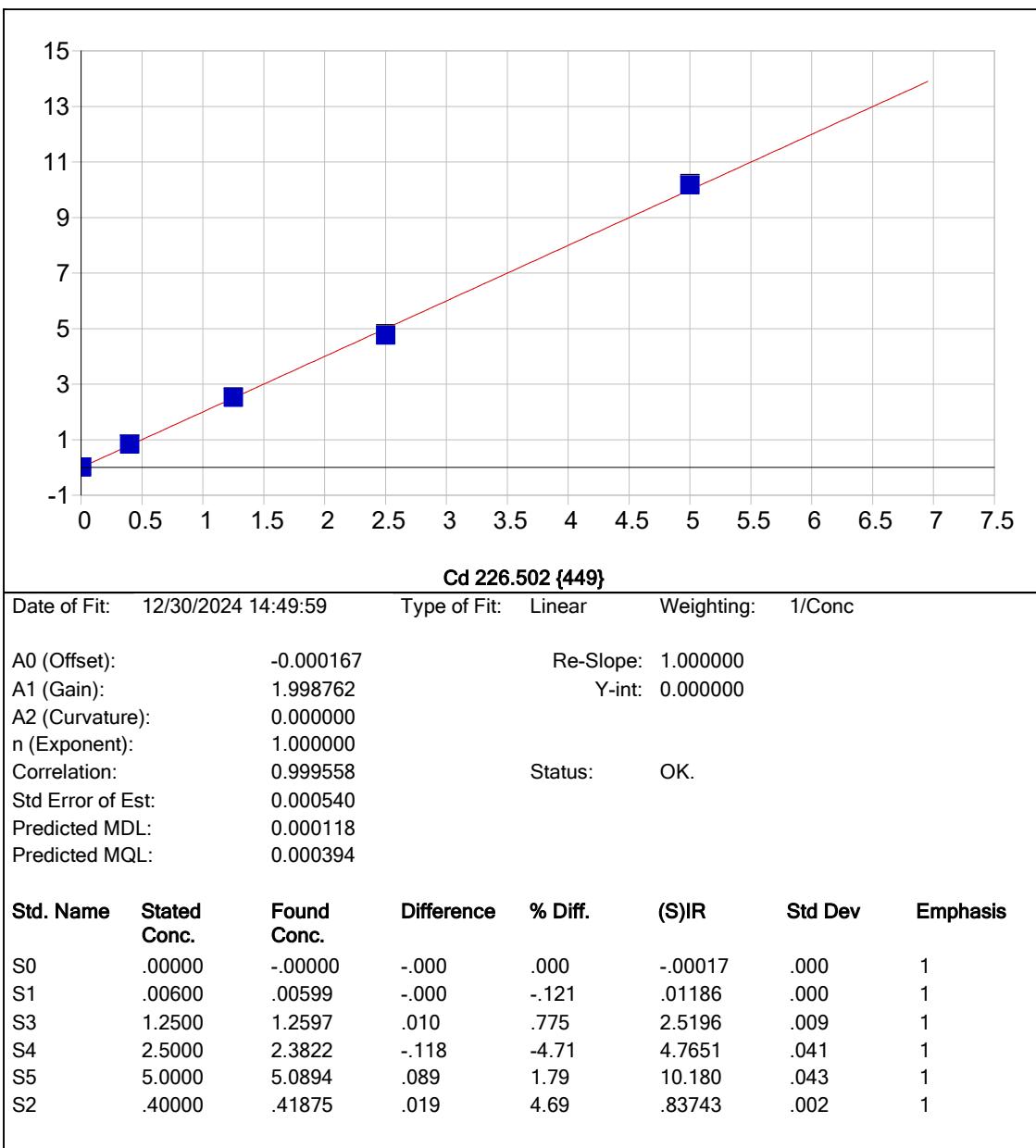


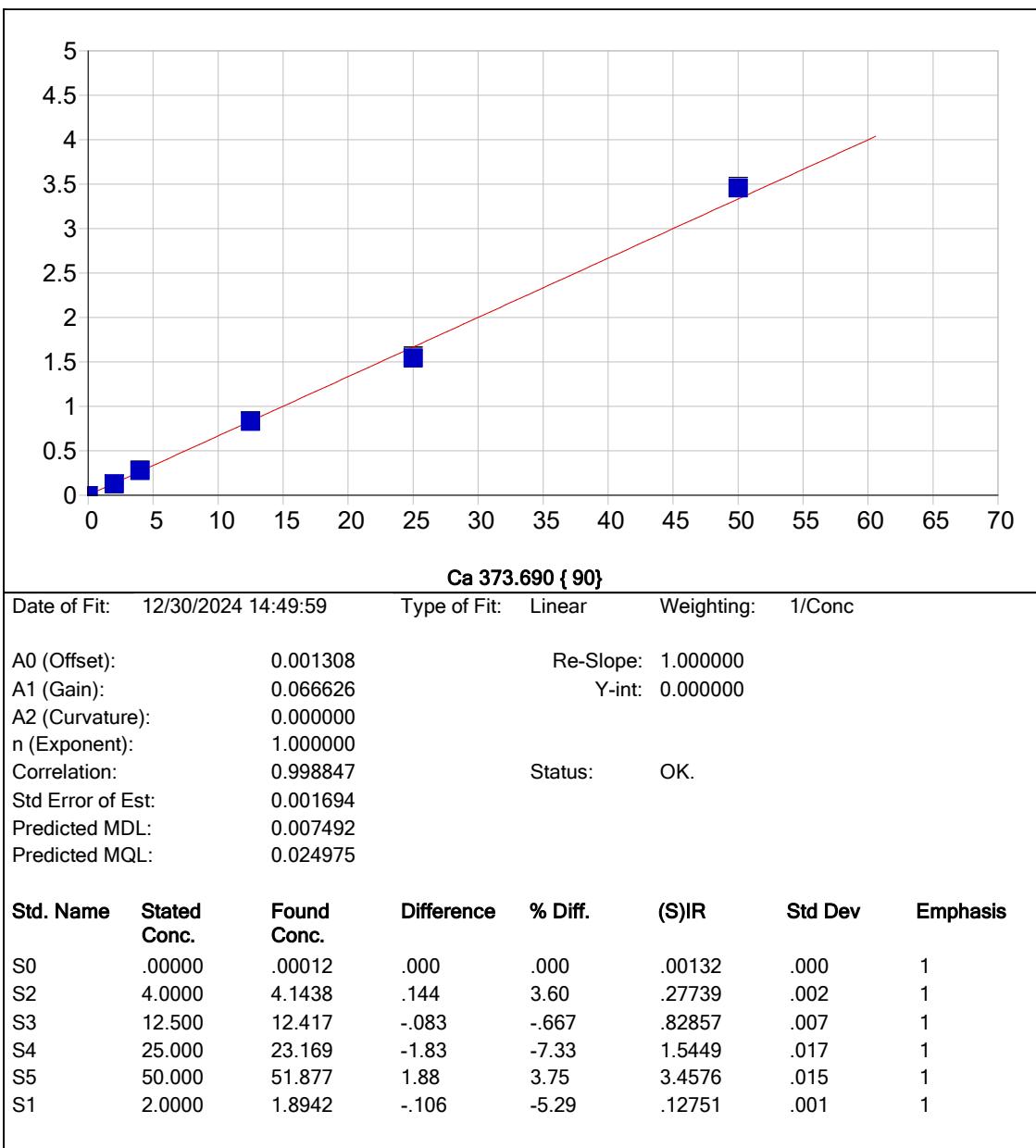


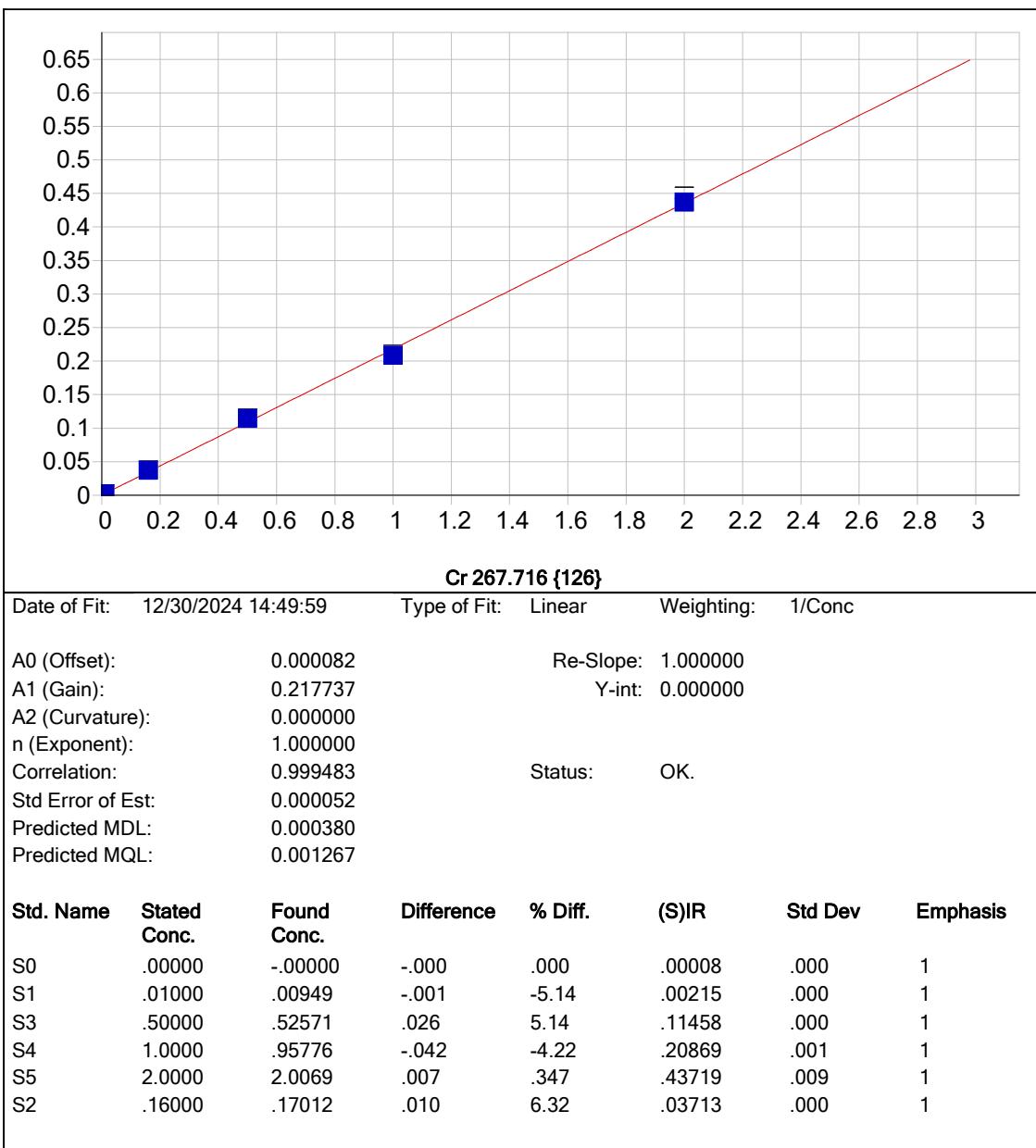


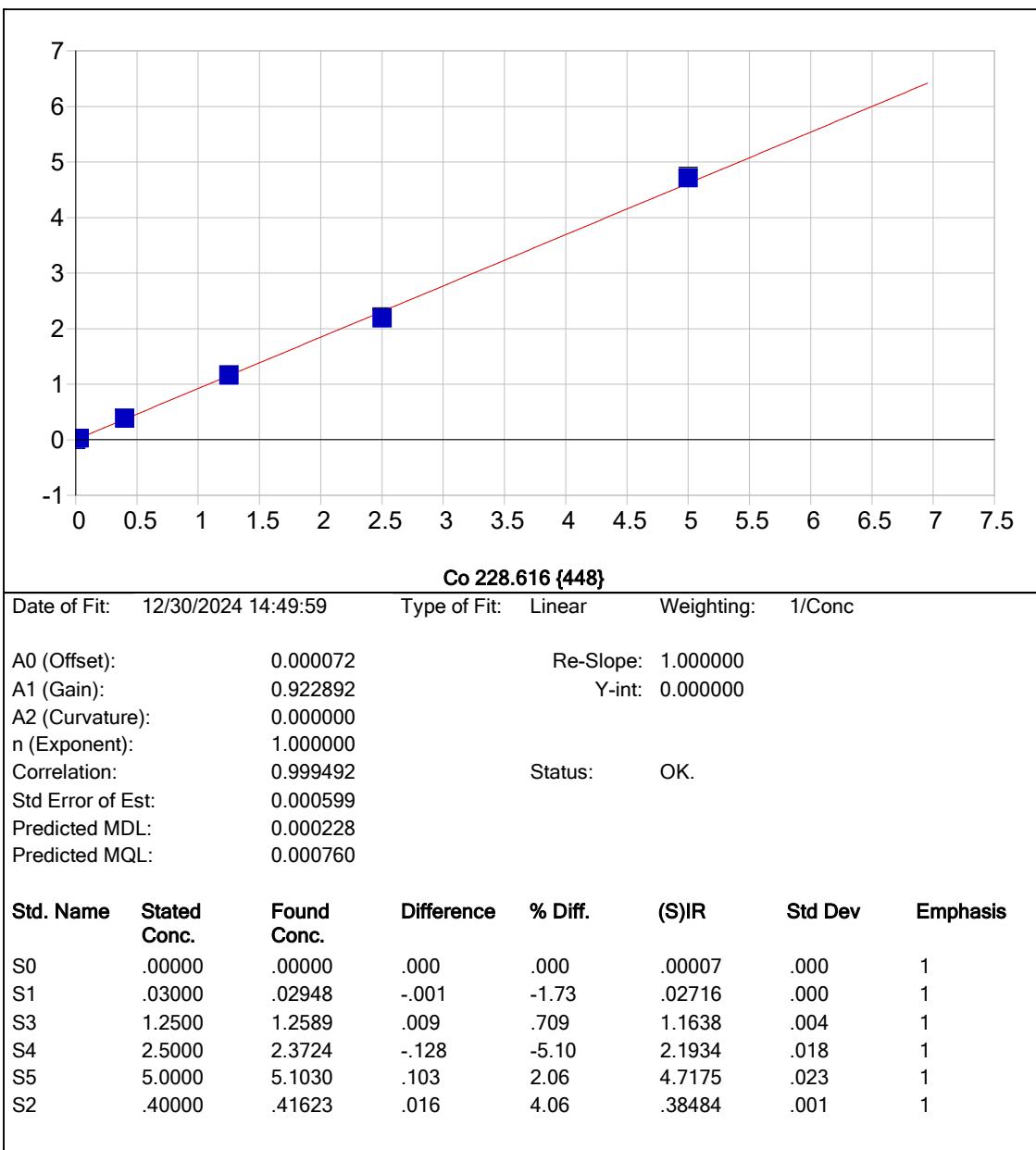


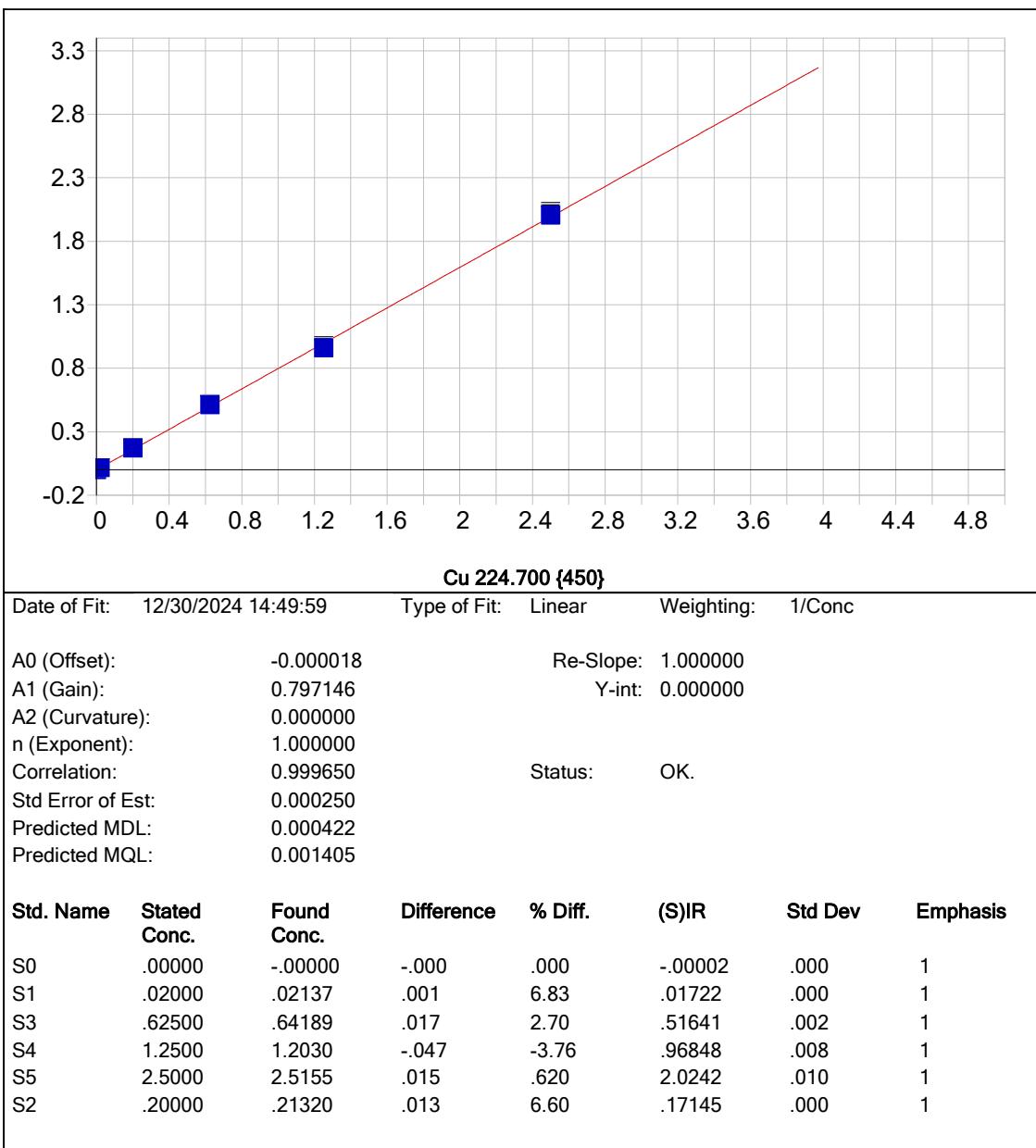


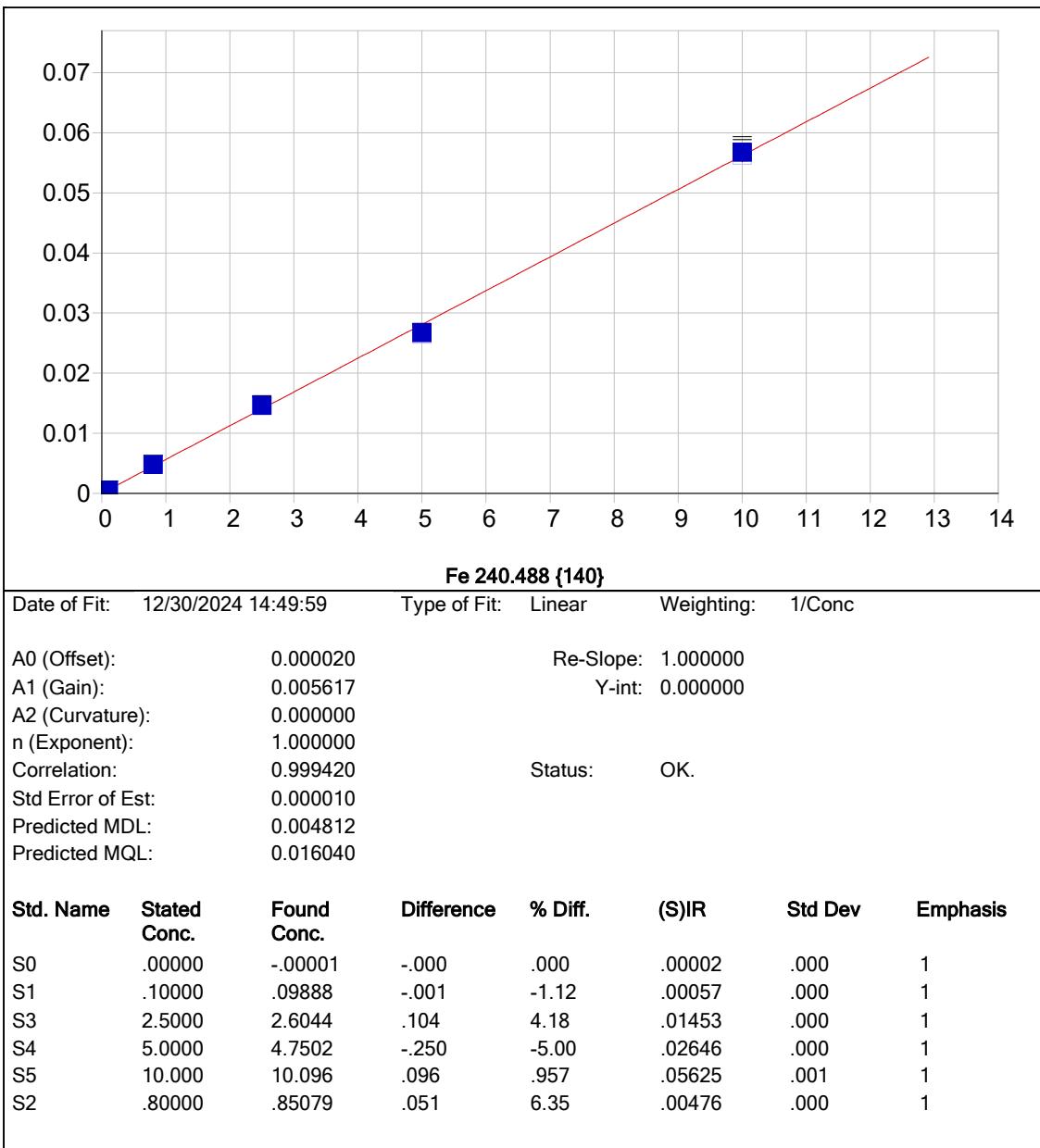


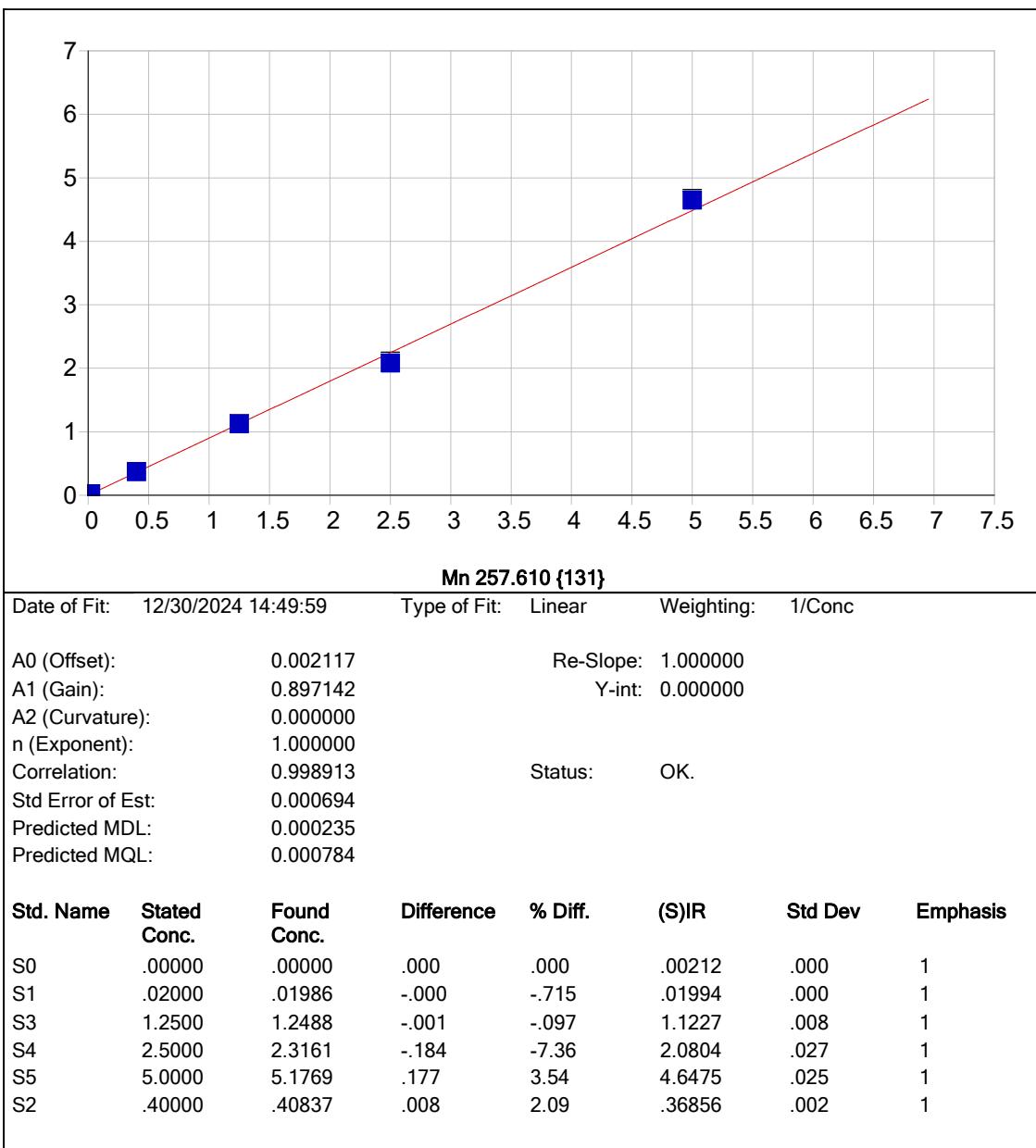


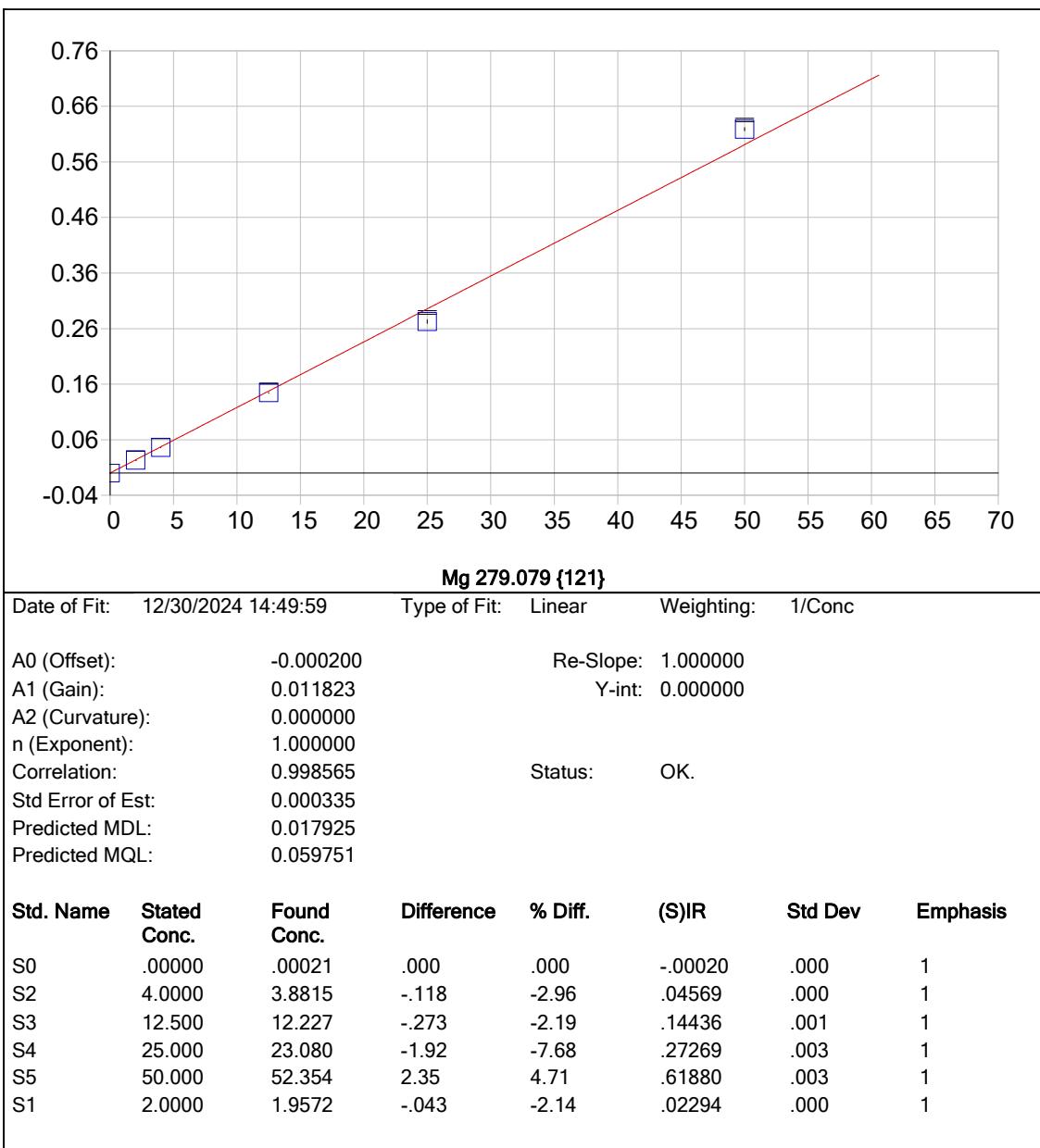


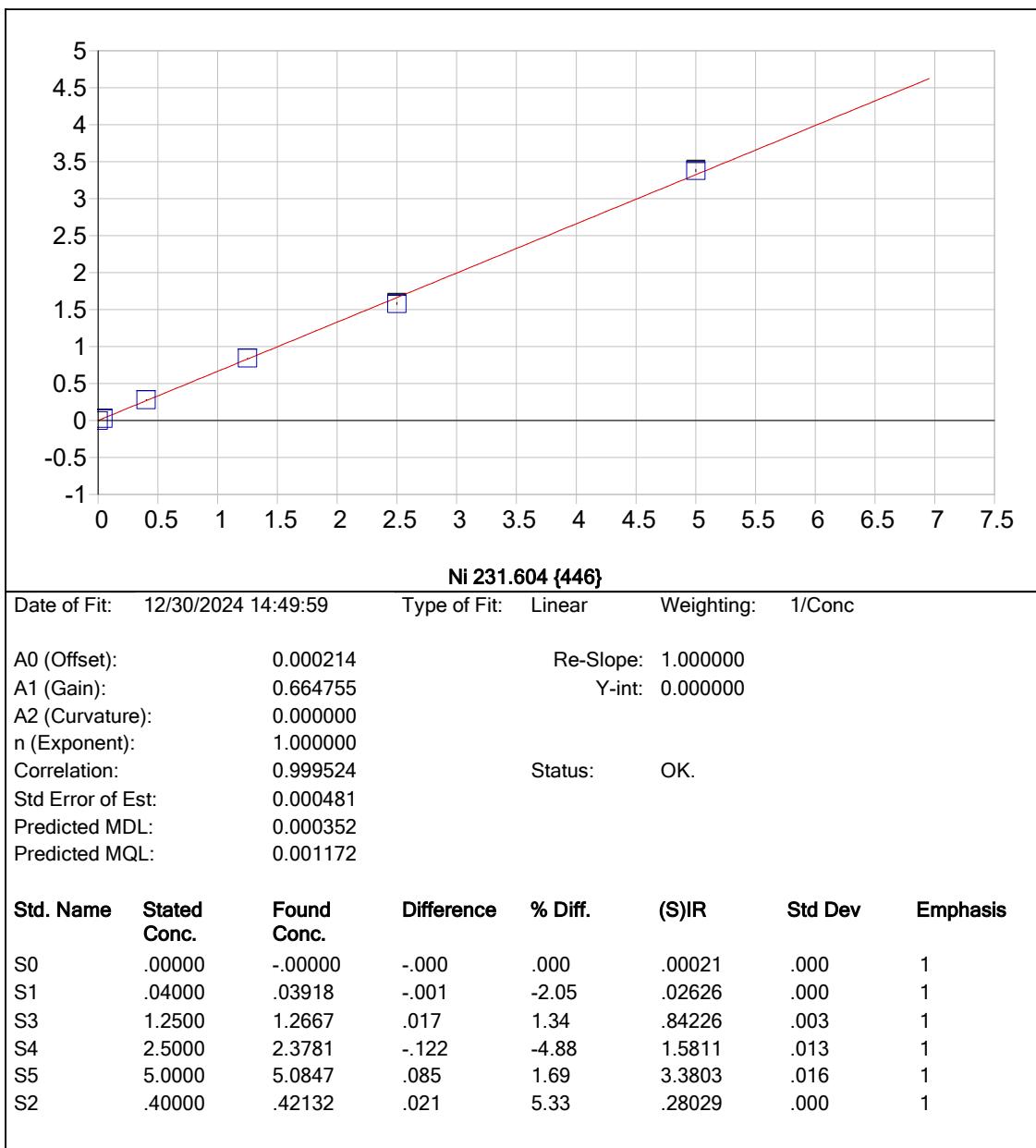


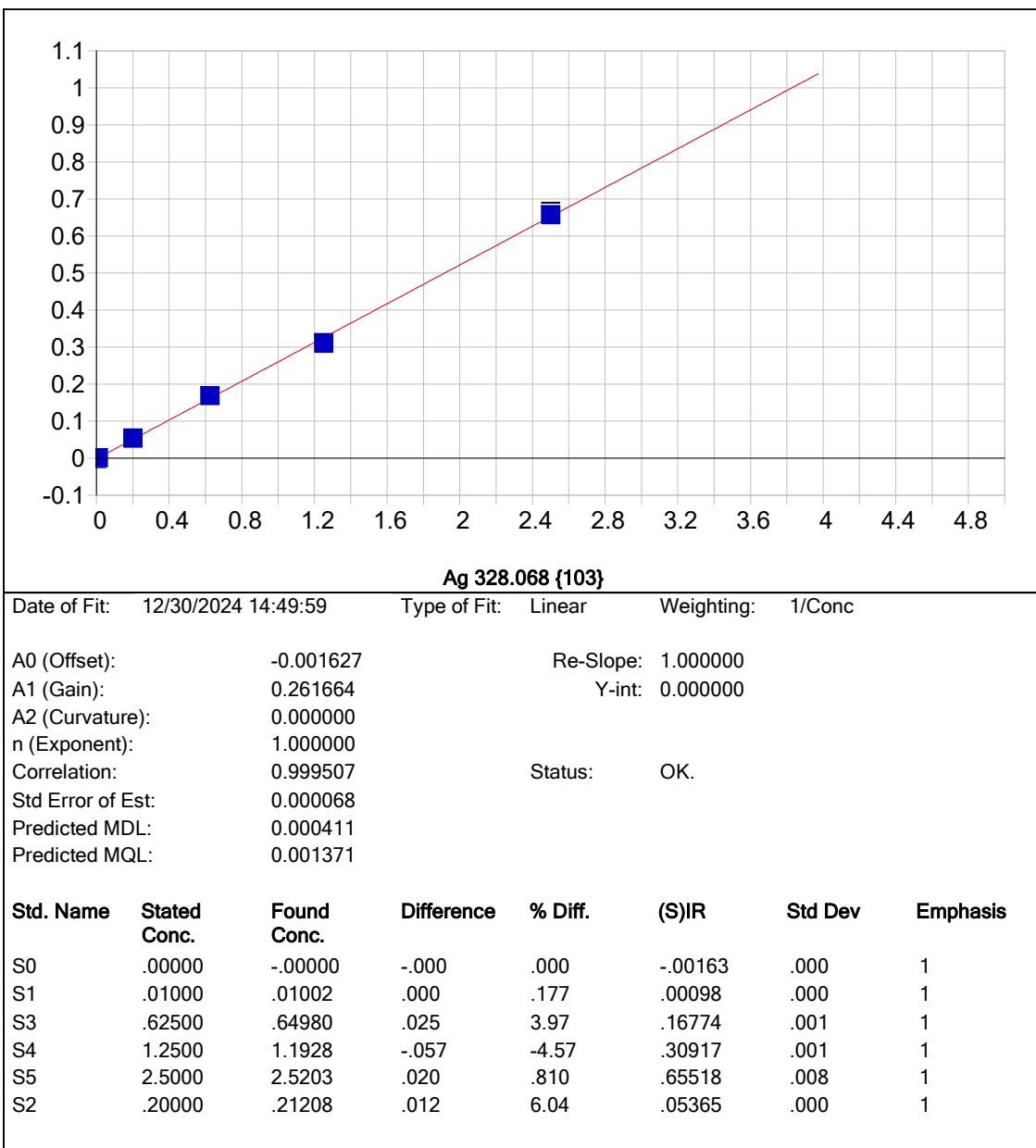


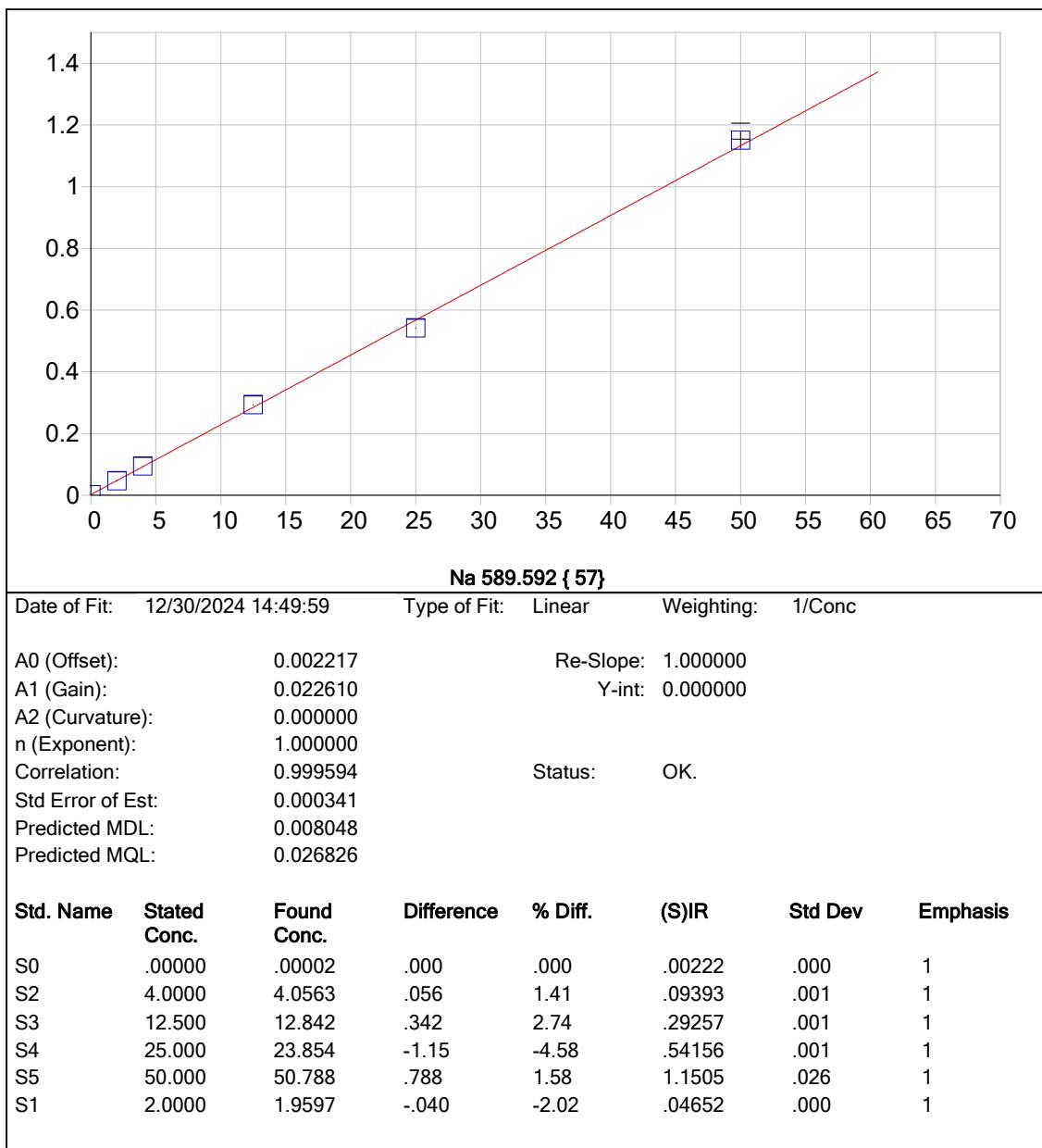


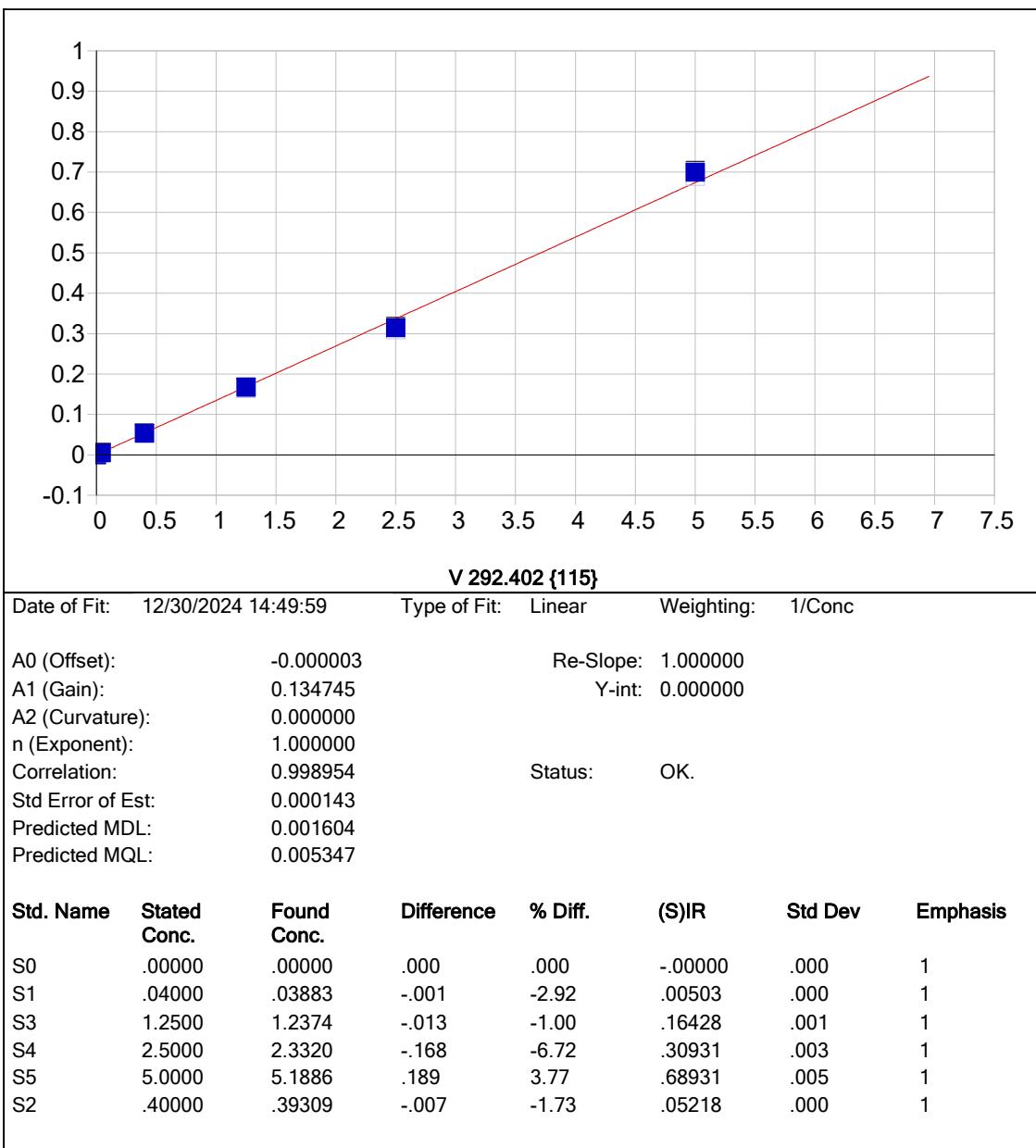


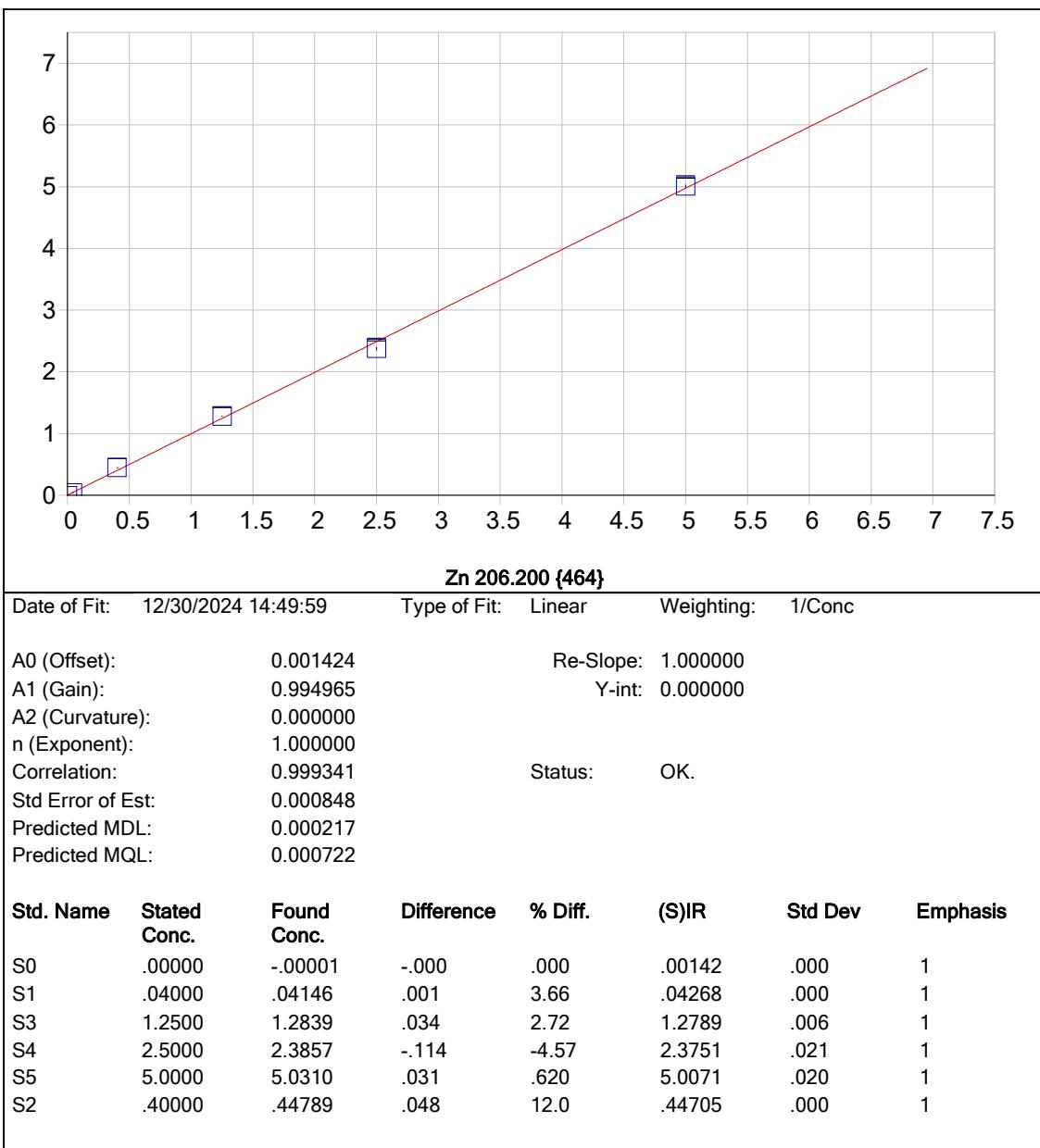


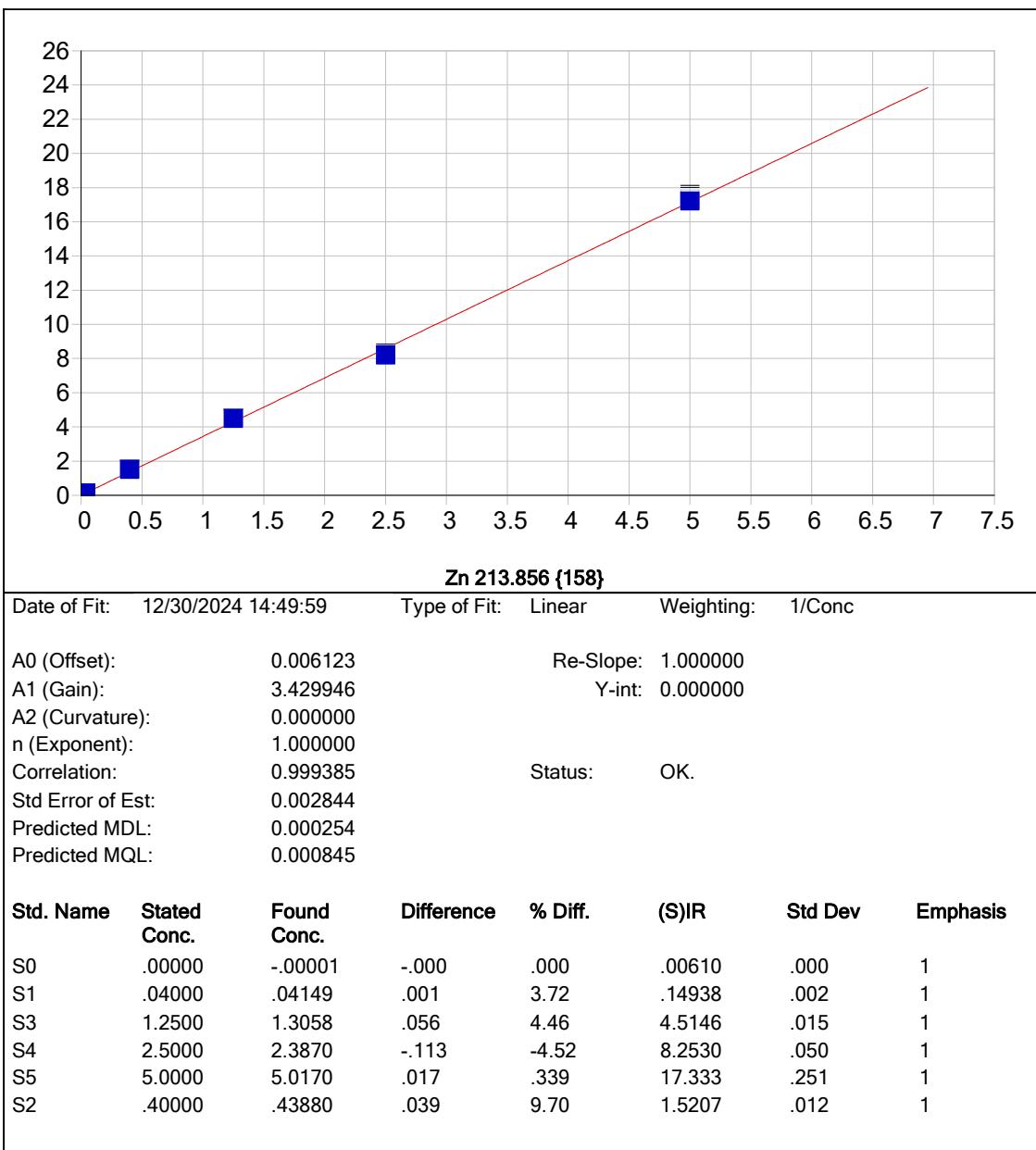


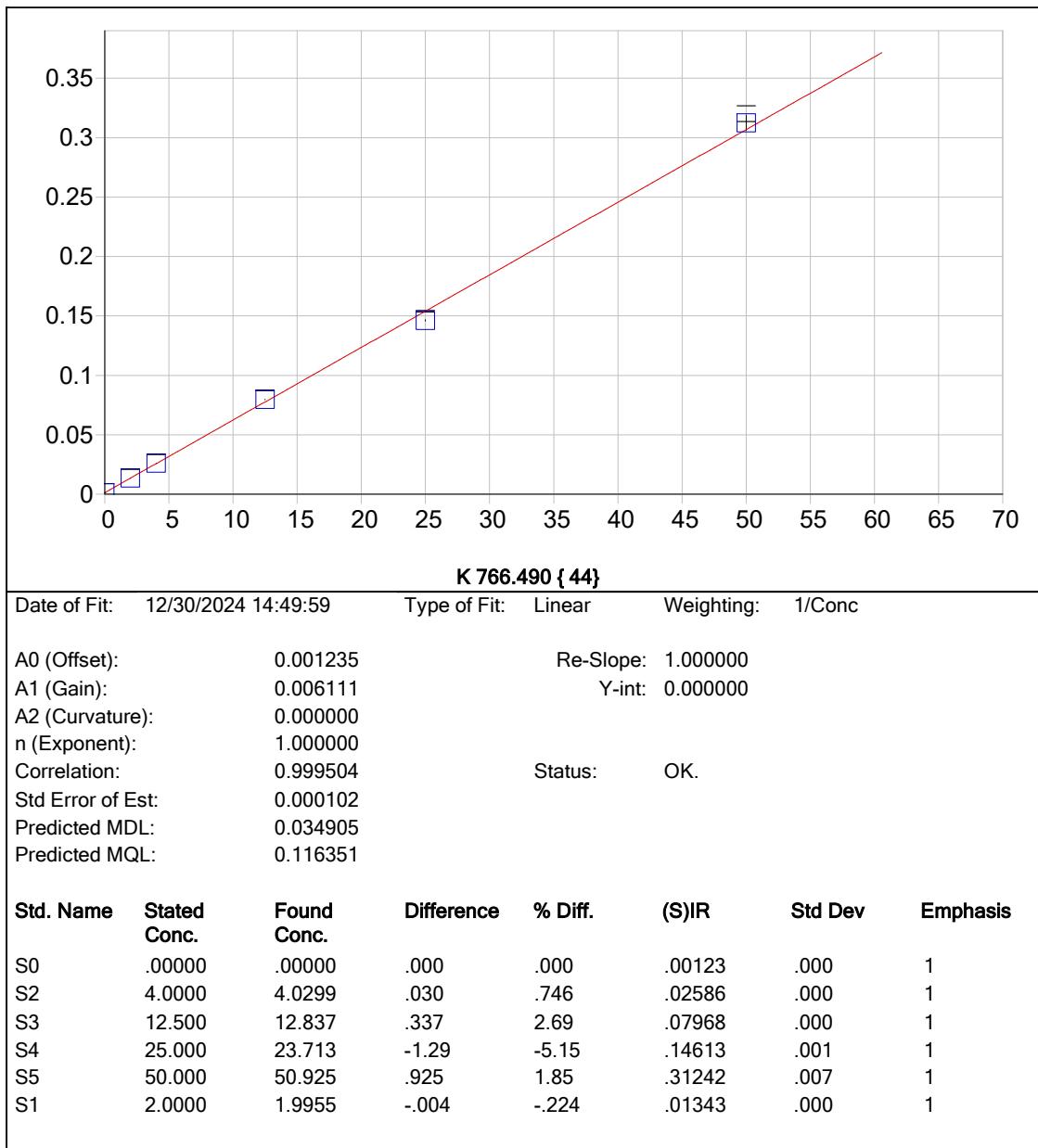


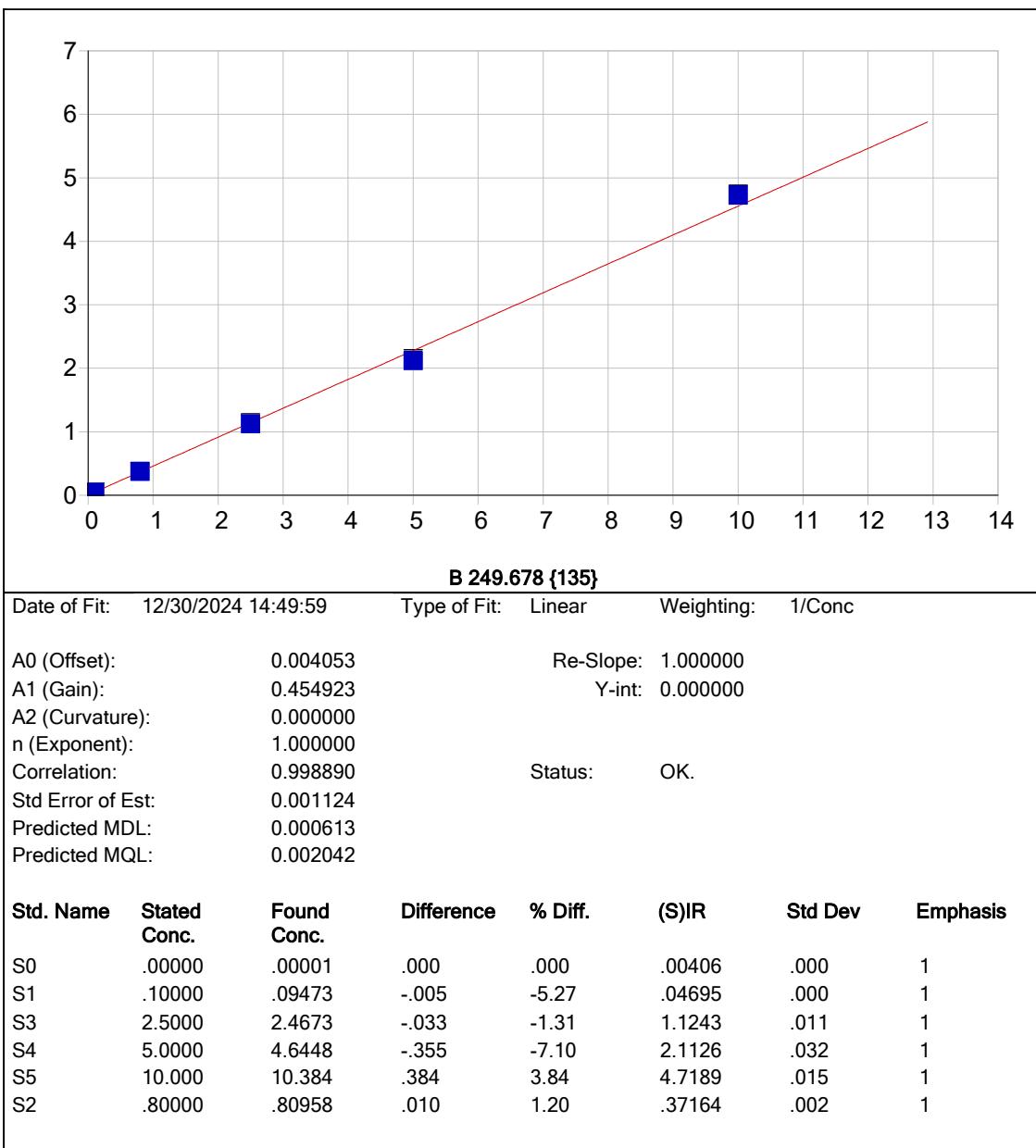


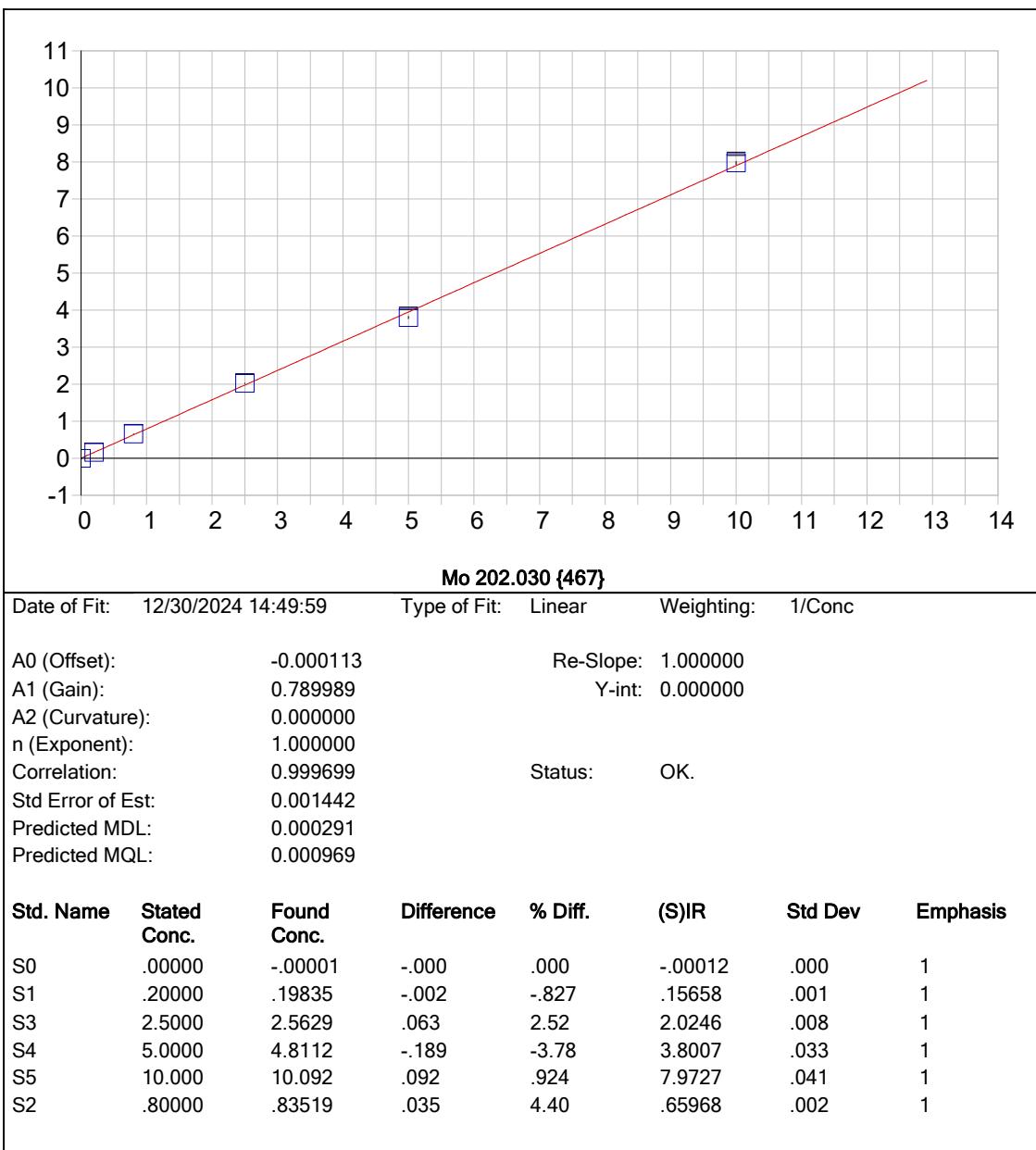


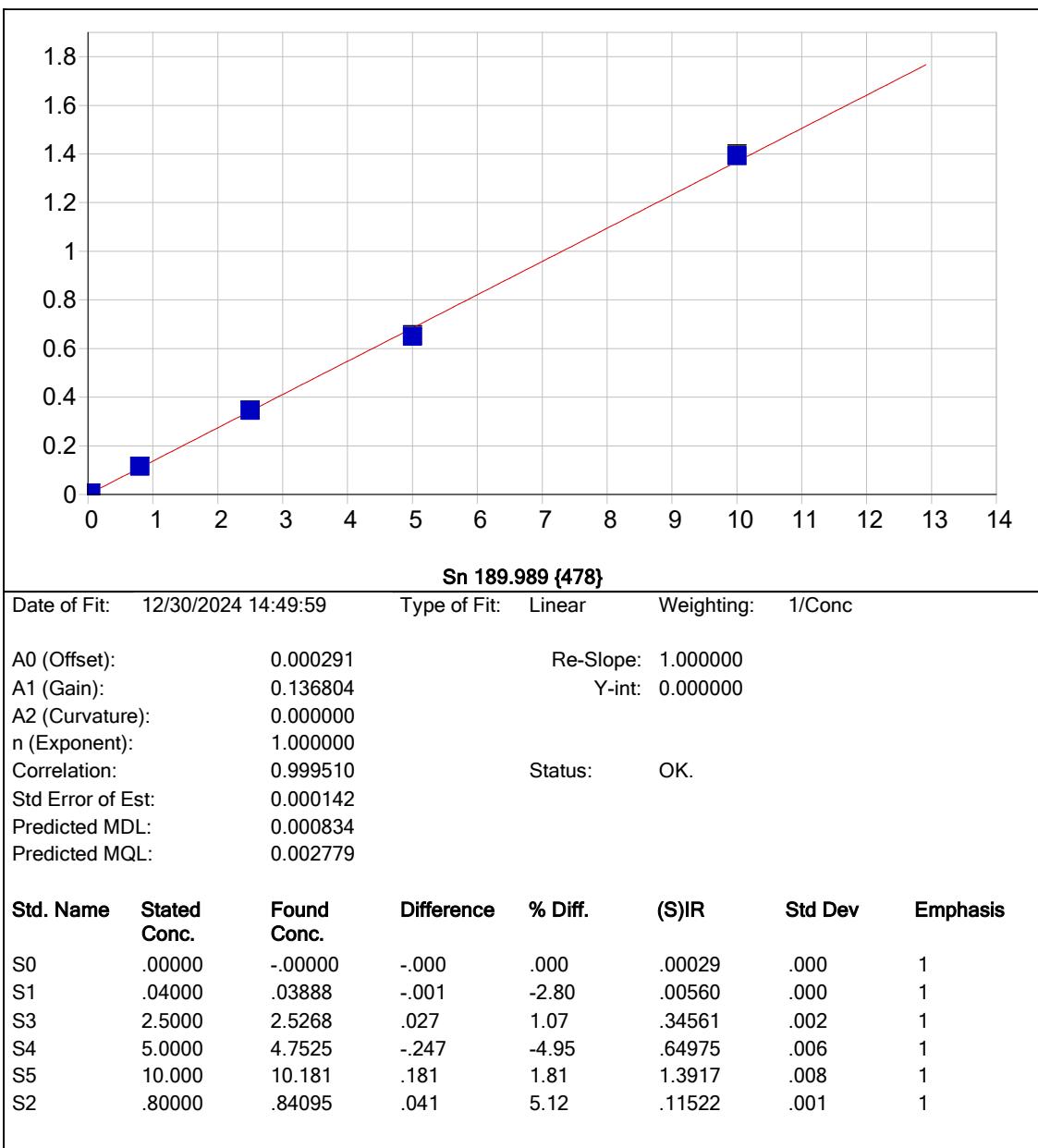


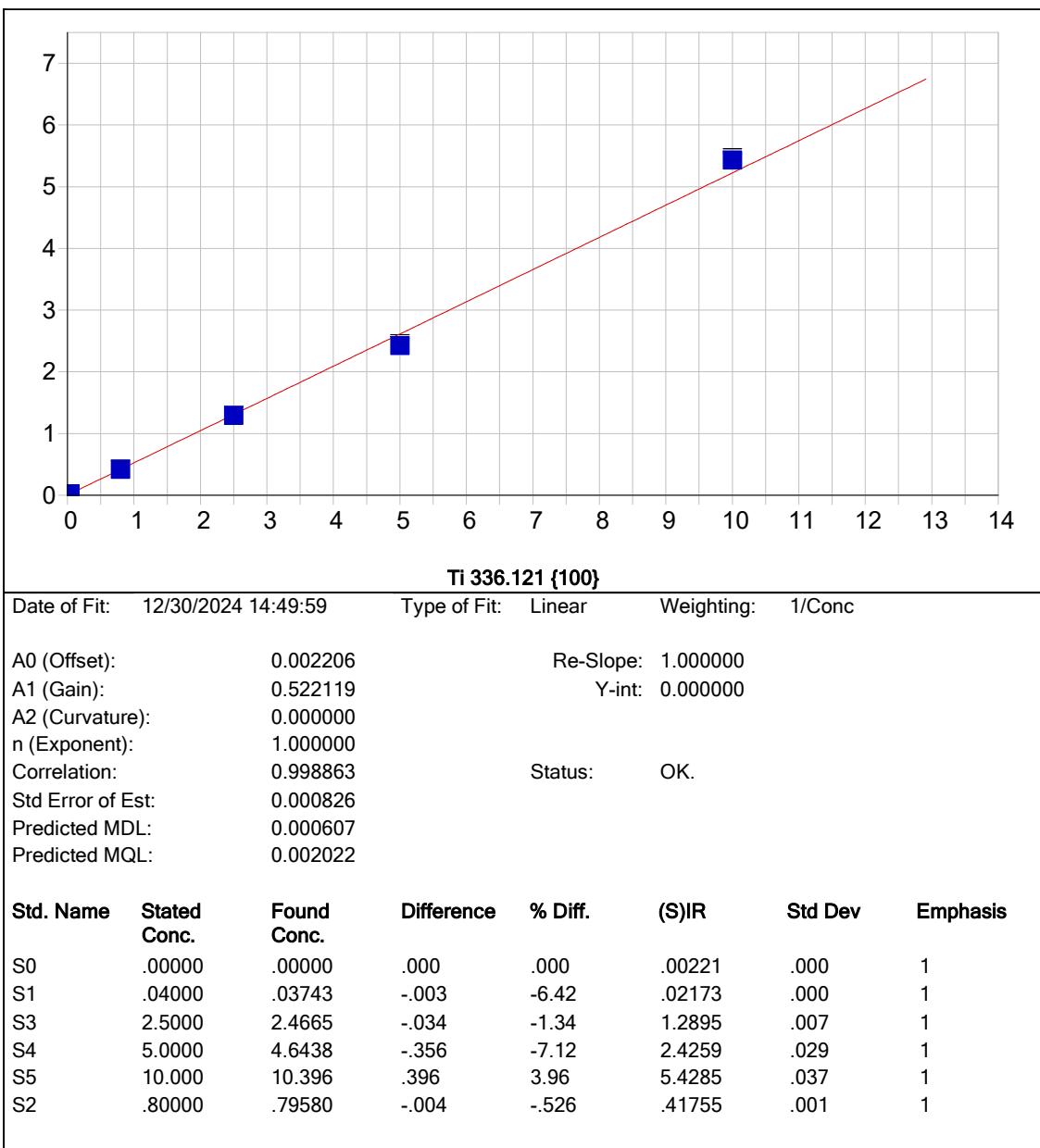


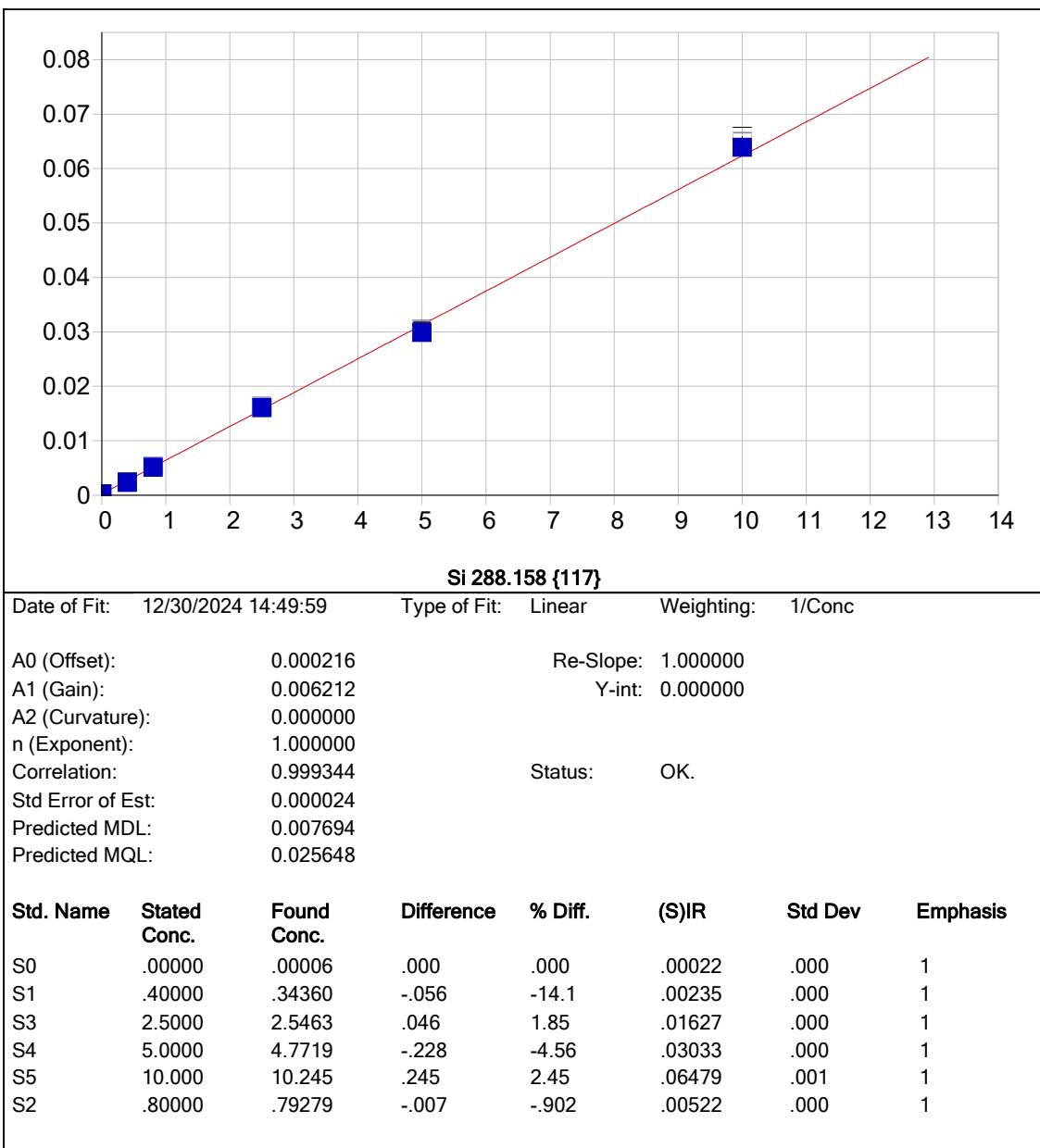


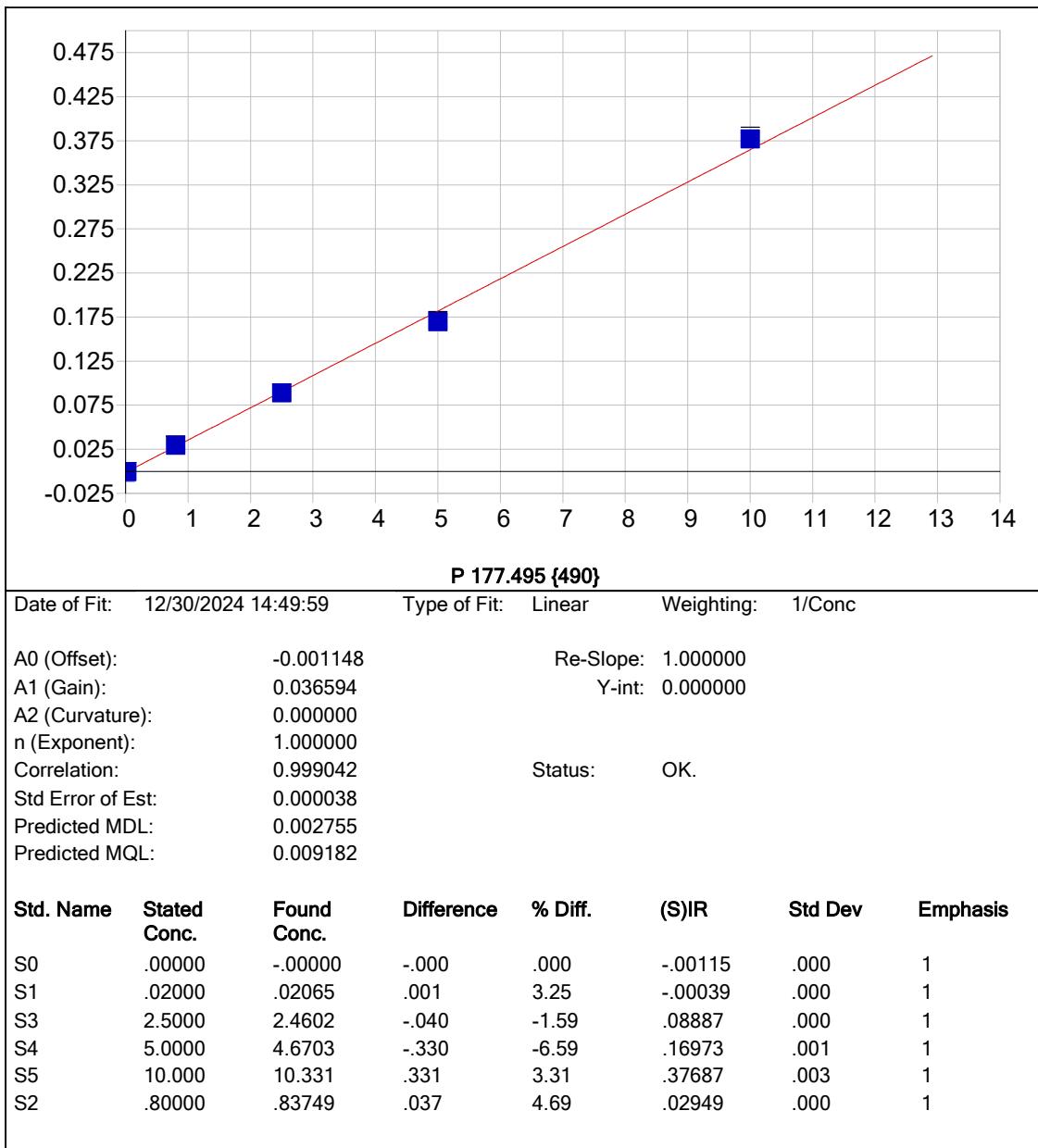


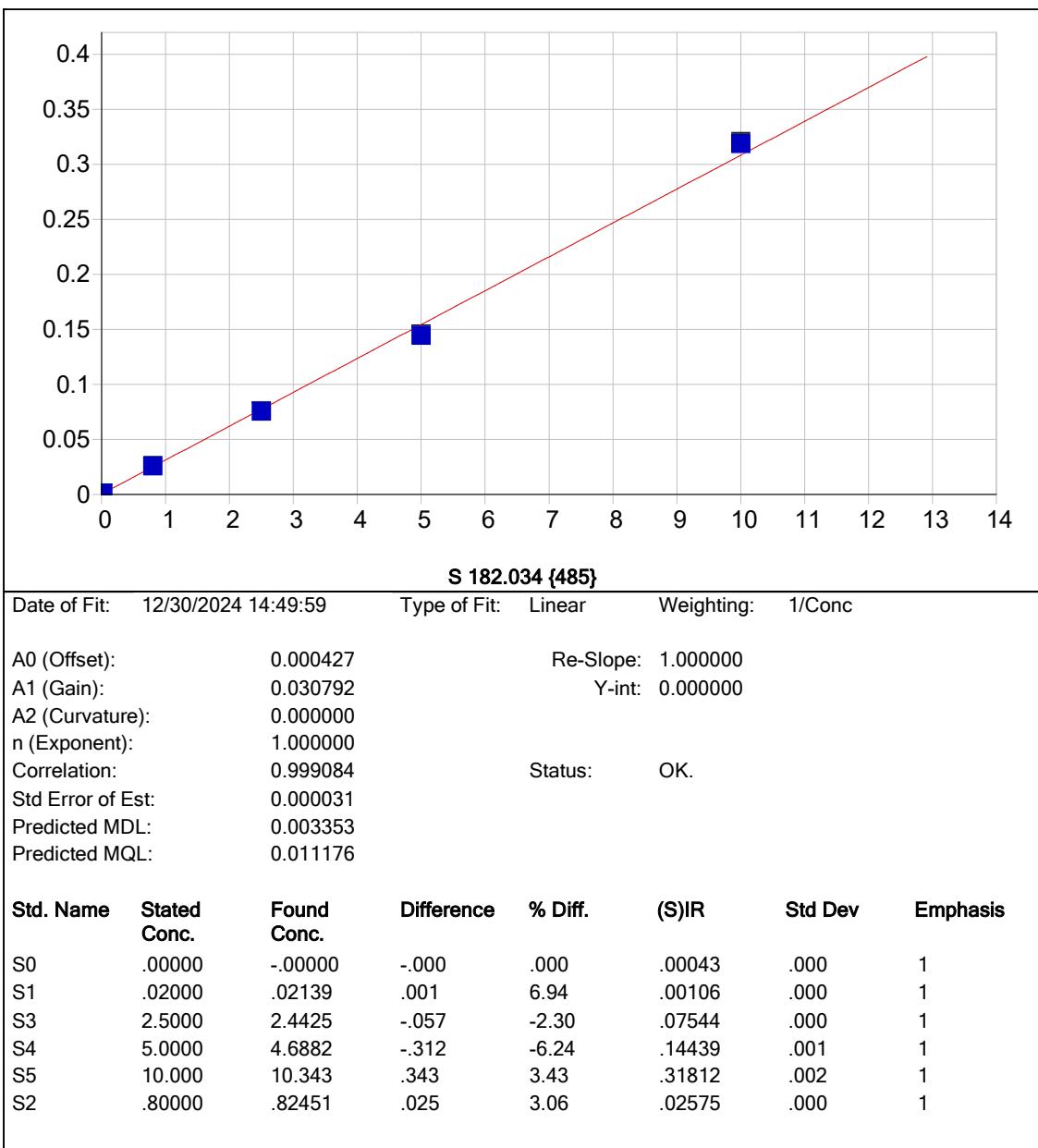


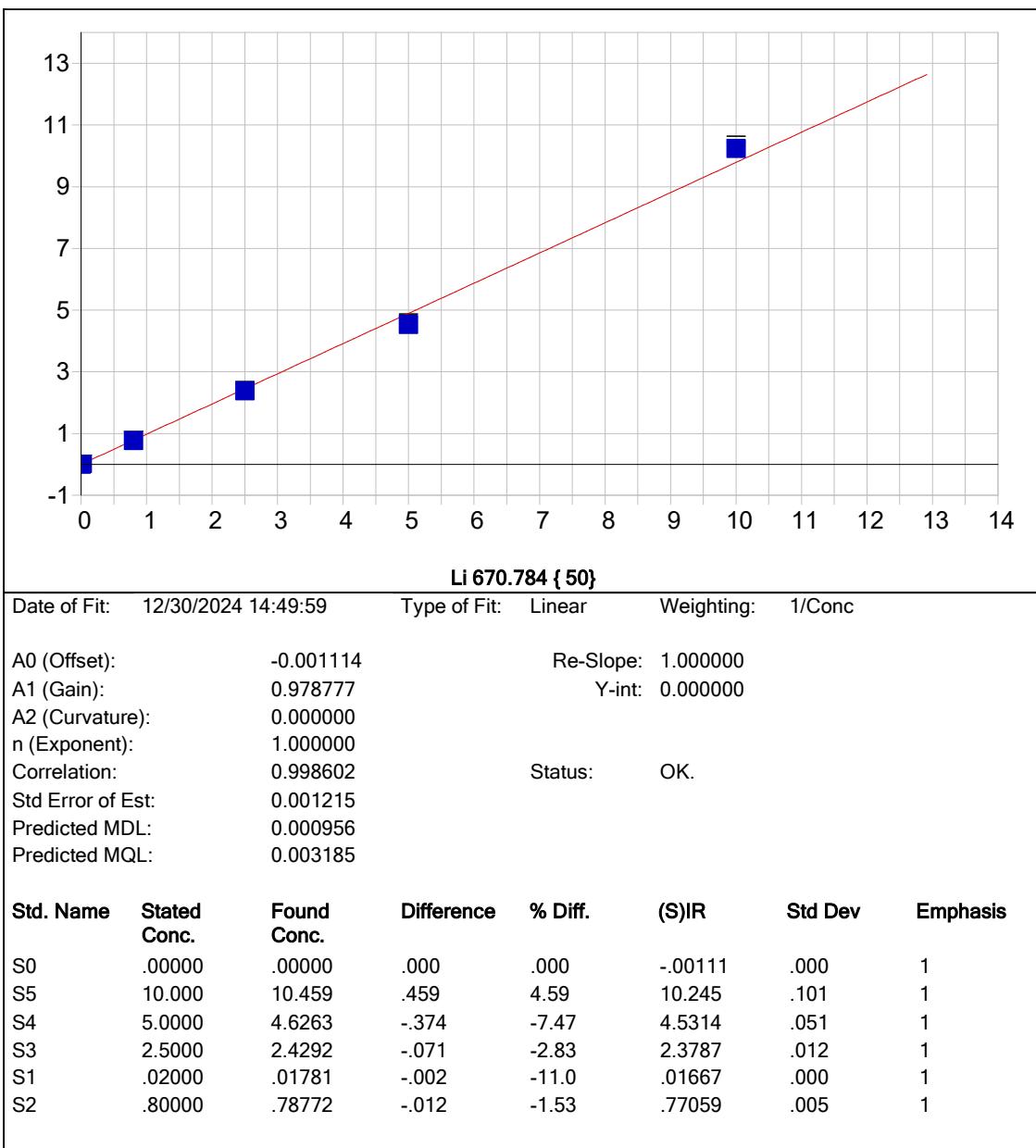


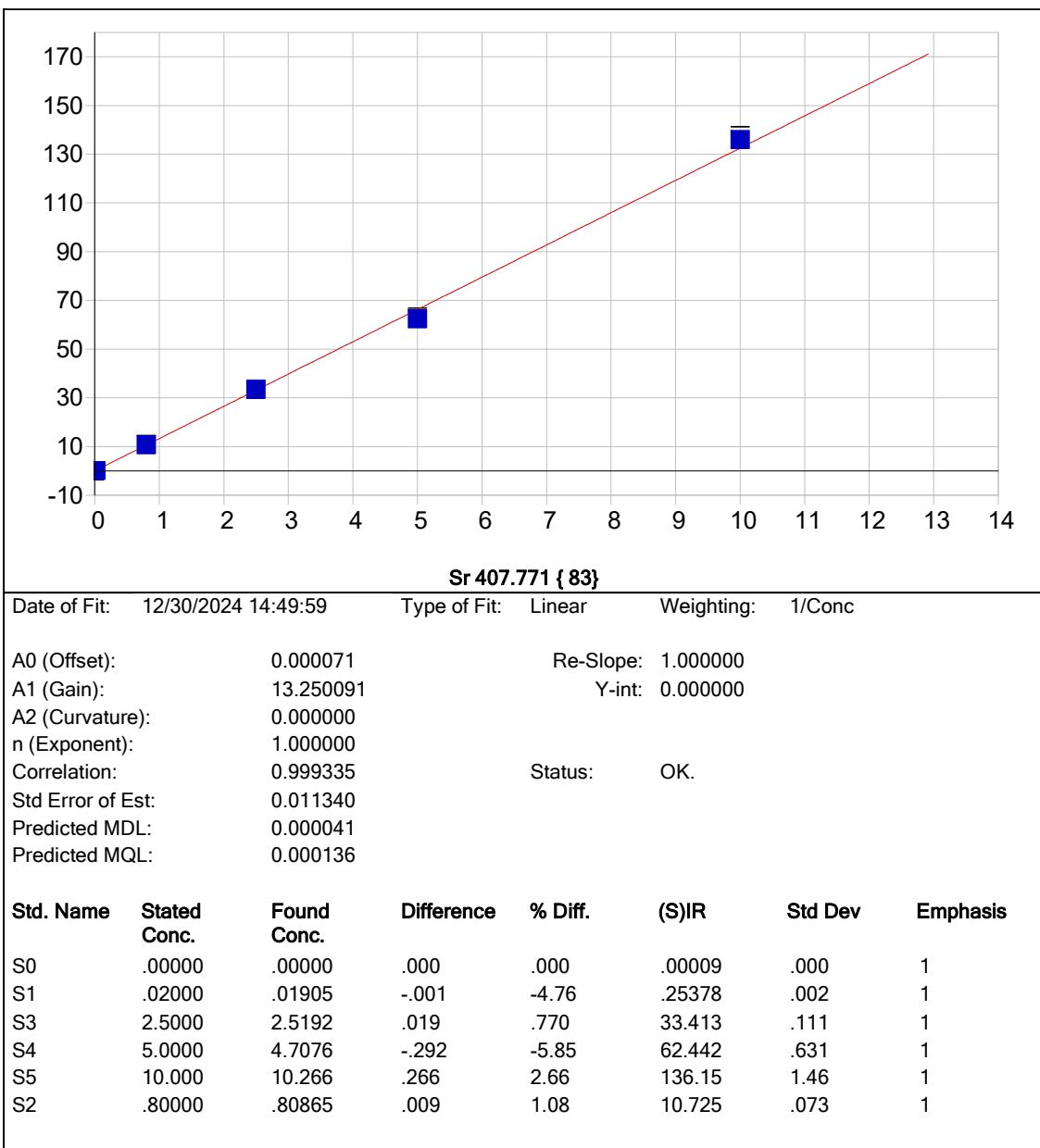


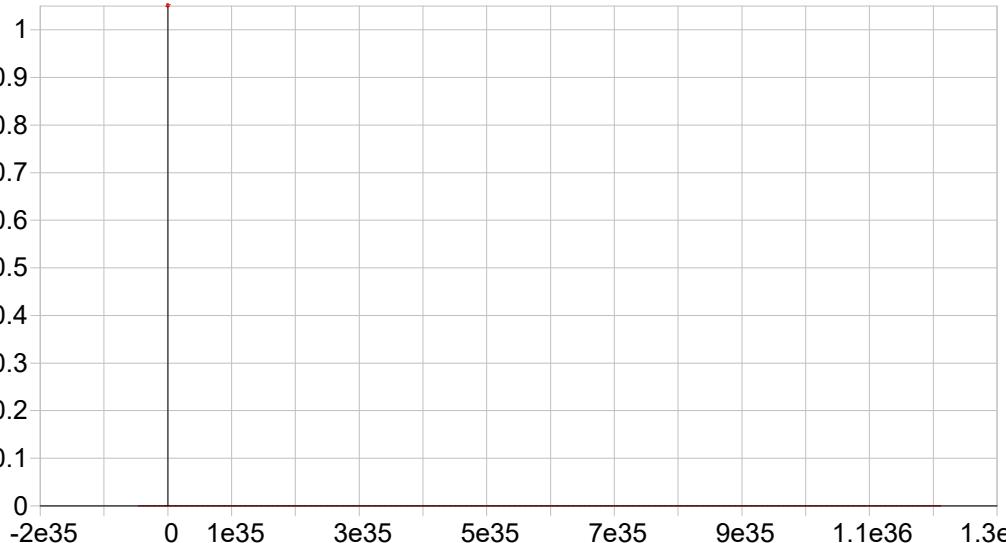
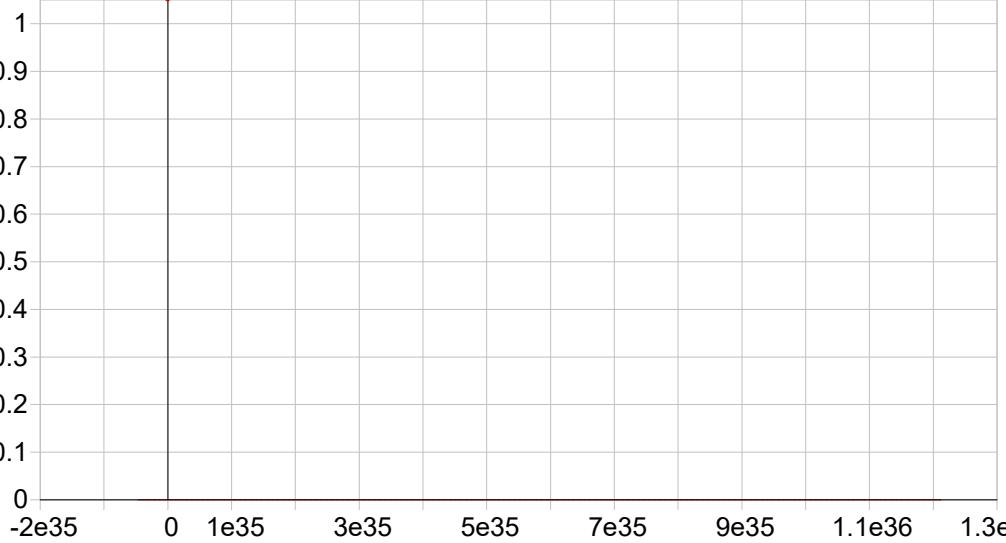


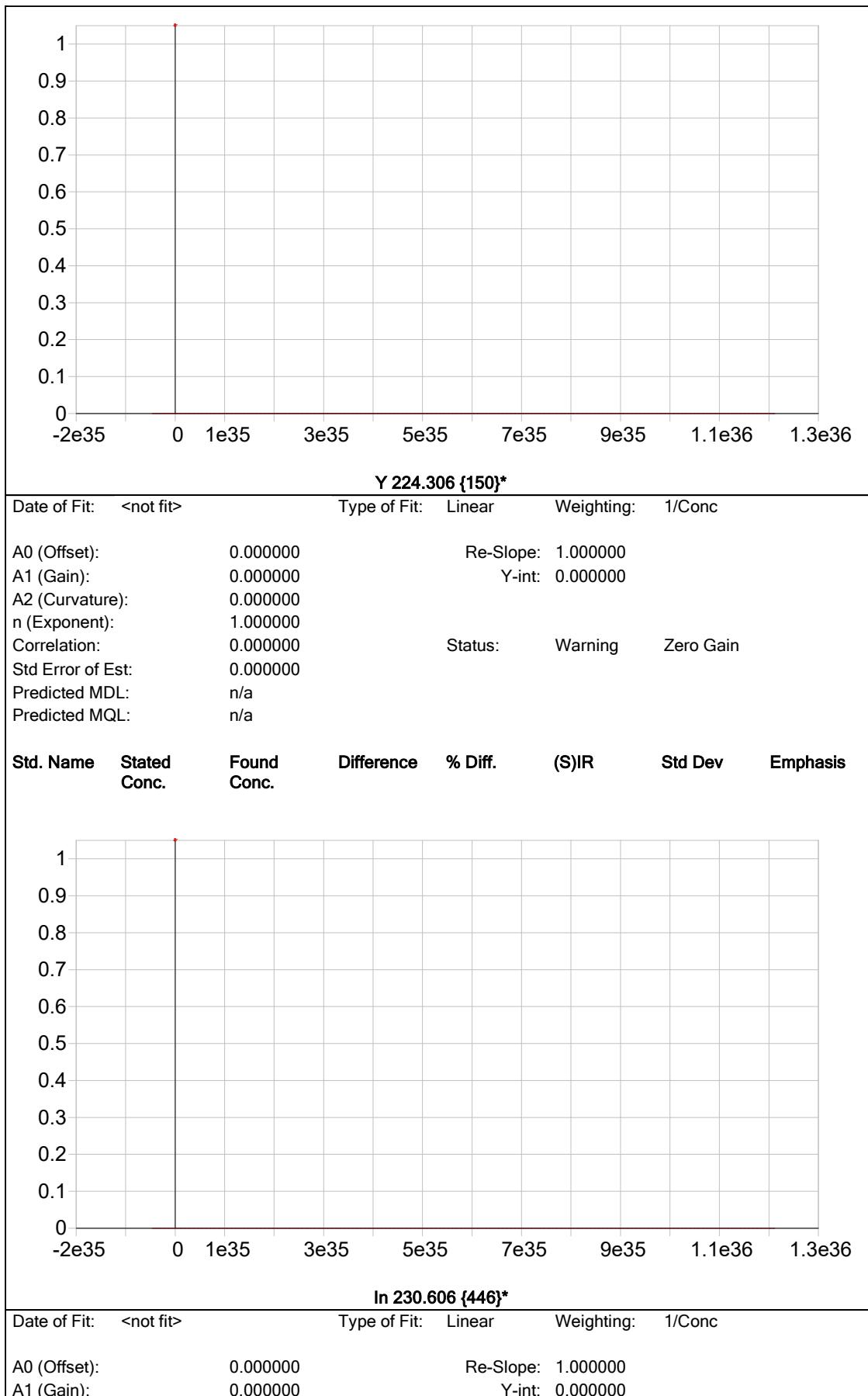








| 1 |  |
|----|--|
| 2 | Y 224.306 {450}* |
| 3 | Date of Fit: 12/30/2024 14:49:59 Type of Fit: Linear Weighting: 1/Conc |
| 4 | A0 (Offset): 0.000000 Re-Slope: 1.000000 |
| 5 | A1 (Gain): 0.000000 Y-int: 0.000000 |
| 6 | A2 (Curvature): 0.000000 |
| 7 | n (Exponent): 1.000000 |
| 8 | Correlation: 0.000000 Status: Warning Zero Gain |
| 9 | Std Error of Est: 0.000000 |
| 10 | Predicted MDL: n/a |
| 11 | Predicted MQL: n/a |
| 12 | Std. Name Stated Conc. Found Conc. Difference % Diff. (S)IR Std Dev Emphasis |
| 13 |  |
| 14 | Y 360.073 { 94}* |
| 15 | Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc |
| 16 | A0 (Offset): 0.000000 Re-Slope: 1.000000 |
| 17 | A1 (Gain): 0.000000 Y-int: 0.000000 |



| A2 (Curvature): | 0.000000 | | | | | | |
|-------------------|--------------|-------------|------------|---------|-------|---------|----------|
| n (Exponent): | 1.000000 | | | | | | |
| Correlation: | 0.000000 | | | | | | |
| Std Error of Est: | 0.000000 | | | | | | |
| Predicted MDL: | n/a | | | | | | |
| Predicted MQL: | n/a | | | | | | |
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |

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Sample Name: S0 Acquired: 12/30/2024 13:54:31 Type: Cal
 Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| UNITS | Cts/S |
| Avg | -0.00020 | -0.00015 | -0.00025 | .00063 | .00063 | .00024 | .01915 | -0.00035 |
| StdDev | .00014 | .00009 | .00029 | .00013 | .00023 | .00012 | .00230 | .00005 |
| %RSD | 66.908 | 56.643 | 112.55 | 19.852 | 35.842 | 48.334 | 12.001 | 7.938 |
| #1 | -0.00034 | -0.00007 | -0.00006 | .00056 | .00088 | .00021 | .01929 | -0.00038 |
| #2 | -0.00021 | -0.00024 | -0.00012 | .00056 | .00044 | .00038 | .01678 | -0.00034 |
| #3 | -0.00007 | -0.00015 | -0.00058 | .00078 | .00057 | .00015 | .02137 | -0.00033 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| UNITS | Cts/S |
| Avg | -0.00017 | .00132 | .00008 | .00007 | -0.0002 | .00002 | .00212 | -0.00026 |
| StdDev | .00006 | .00014 | .00006 | .00013 | .00031 | .00001 | .00017 | .00003 |
| %RSD | 35.032 | 10.308 | 72.870 | 177.56 | 1561.7 | 37.114 | 8.0424 | 14.224 |
| #1 | -0.00023 | .00139 | .00005 | .00022 | .00005 | .00002 | .00221 | -0.00023 |
| #2 | -0.00013 | .00139 | .00015 | -0.00003 | -0.00036 | .00003 | .00192 | -0.00018 |
| #3 | -0.00014 | .00116 | .00004 | .00002 | .00025 | .00001 | .00222 | -0.00018 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| UNITS | Cts/S |
| Avg | .00021 | -0.00163 | .00222 | -0.00000 | .00610 | .00123 | .00406 | -0.00012 |
| StdDev | .00024 | .00006 | .00020 | .00011 | .00010 | .00013 | .00015 | .00005 |
| %RSD | 110.87 | 3.7908 | 9.0024 | 4283.6 | 1.7140 | 10.563 | 3.6425 | 44.568 |
| #1 | -0.00003 | -0.00167 | .00199 | .00006 | .00605 | .00124 | .00418 | -0.00014 |
| #2 | .00044 | -0.00165 | .00234 | -0.00013 | .00604 | .00110 | .00410 | -0.00006 |
| #3 | .00024 | -0.00156 | .00232 | .00007 | .00623 | .00136 | .00389 | -0.00016 |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | |
| UNITS | Cts/S | |
| Avg | .00029 | .00221 | .00022 | -0.00115 | .00043 | -0.00111 | .00009 | |
| StdDev | .00008 | .00016 | .00003 | .00004 | .00003 | .00030 | .00047 | |
| %RSD | 28.423 | 7.0205 | 12.677 | 3.7587 | 6.5254 | 26.922 | 541.45 | |
| #1 | .00030 | .00222 | .00019 | -0.00111 | .00041 | -0.00136 | -0.00003 | |
| #2 | .00020 | .00236 | .00024 | -0.00114 | .00042 | -0.00078 | .00061 | |
| #3 | .00037 | .00205 | .00022 | -0.00120 | .00046 | -0.00119 | -0.00032 | |

Sample Name: S0 Acquired: 12/30/2024 13:54:31 Type: Cal
Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2532.8 | 55918. | 11724. | 1874.8 | 3791.1 |
| Stddev | 14.3 | 239. | 45. | 17.0 | 20.5 |
| %RSD | .56418 | .42728 | .38200 | .90453 | .54099 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2516.3 | 55670. | 11731. | 1855.2 | 3768.3 |
| #2 | 2541.2 | 55938. | 11765. | 1885.4 | 3808.1 |
| #3 | 2541.0 | 56146. | 11676. | 1883.7 | 3797.0 |

Sample Name: S1 Acquired: 12/30/2024 13:58:55 Type: Cal
 Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00107 | .00260 | .00260 | .00183 | .00704 | .00689 | .31606 | .03082 |
| StdDev | .00009 | .00014 | .00017 | .00023 | .00031 | .00015 | .00330 | .00016 |
| %RSD | 8.2746 | 5.4114 | 6.6838 | 12.801 | 4.3955 | 2.1125 | 1.0428 | .33286 |
| #1 | .00111 | .00249 | .00244 | .00157 | .00738 | .00700 | .31787 | .03094 |
| #2 | .00097 | .00255 | .00278 | .00189 | .00698 | .00673 | .31805 | .03076 |
| #3 | .00114 | .00276 | .00258 | .00202 | .00677 | .00695 | .31225 | .03076 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .01186 | .12751 | .00215 | .02716 | .01722 | .00057 | .01994 | .02294 |
| StdDev | .00020 | .00108 | .00004 | .00032 | .00026 | .00001 | .00039 | .00008 |
| %RSD | 1.6651 | .84627 | 1.6977 | 1.1833 | 1.5055 | 1.8017 | 1.9350 | .34178 |
| #1 | .01164 | .12875 | .00219 | .02728 | .01749 | .00056 | .02017 | .02289 |
| #2 | .01202 | .12698 | .00212 | .02680 | .01698 | .00057 | .01949 | .02303 |
| #3 | .01193 | .12680 | .00213 | .02741 | .01718 | .00058 | .02016 | .02290 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .02626 | .00098 | .04652 | .00503 | .14938 | .01343 | .04695 | .15658 |
| StdDev | .00036 | .00004 | .00020 | .00010 | .00152 | .00010 | .00017 | .00058 |
| %RSD | 1.3728 | 4.2051 | .42973 | 1.9771 | 1.0201 | .73515 | .36937 | .37332 |
| #1 | .02652 | .00094 | .04641 | .00507 | .14794 | .01340 | .04712 | .15664 |
| #2 | .02585 | .00102 | .04640 | .00491 | .14923 | .01334 | .04678 | .15597 |
| #3 | .02641 | .00097 | .04676 | .00510 | .15098 | .01354 | .04696 | .15713 |
| ELEM | Sn1899 | Tl3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | |
| Avg | .00560 | .02173 | .00235 | -.00039 | .00106 | .01667 | .25378 | |
| StdDev | .00005 | .00001 | .00002 | .00006 | .00002 | .00014 | .00203 | |
| %RSD | .85851 | .06819 | .70865 | 14.653 | 1.5877 | .85519 | .80032 | |
| #1 | .00556 | .02175 | .00235 | -.00033 | .00107 | .01680 | .25612 | |
| #2 | .00565 | .02173 | .00234 | -.00043 | .00104 | .01652 | .25252 | |
| #3 | .00560 | .02172 | .00237 | -.00042 | .00106 | .01669 | .25269 | |

Sample Name: S1 Acquired: 12/30/2024 13:58:55 Type: Cal
Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2492.5 | 56786. | 11837. | 1928.5 | 3677.4 |
| Stddev | 8.3 | 202. | 62. | 1.4 | 16.1 |
| %RSD | .33173 | .35580 | .52662 | .07012 | .43885 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2485.5 | 56647. | 11769. | 1927.3 | 3664.4 |
| #2 | 2501.6 | 57018. | 11851. | 1930.0 | 3695.5 |
| #3 | 2490.4 | 56693. | 11891. | 1928.3 | 3672.3 |

Sample Name: S2 Acquired: 12/30/2024 14:03:17 Type: Cal
 Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .05470 | .06054 | .20416 | .05472 | .11166 | .09998 | 4.9238 | .22559 | 3 |
| StdDev | .00013 | .00046 | .00063 | .00020 | .00056 | .00036 | .0396 | .00110 | 4 |
| %RSD | .23370 | .76094 | .30752 | .37119 | .49899 | .35522 | .80326 | .48913 | 5 |
| #1 | .05455 | .06002 | .20369 | .05464 | .11119 | .10027 | 4.8923 | .22574 | 6 |
| #2 | .05475 | .06070 | .20391 | .05458 | .11153 | .09958 | 4.9110 | .22442 | 7 |
| #3 | .05479 | .06089 | .20487 | .05496 | .11228 | .10008 | 4.9682 | .22661 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | .83743 | .27739 | .03713 | .38484 | .17145 | .00476 | .36856 | .04569 | 11 |
| StdDev | .00179 | .00233 | .00020 | .00113 | .00027 | .00004 | .00197 | .00028 | 12 |
| %RSD | .21412 | .83881 | .53671 | .29410 | .15884 | .74281 | .53353 | .62107 | 13 |
| #1 | .83712 | .27545 | .03690 | .38407 | .17138 | .00473 | .36723 | .04573 | 14 |
| #2 | .83582 | .27676 | .03727 | .38430 | .17123 | .00480 | .36762 | .04539 | 15 |
| #3 | .83936 | .27997 | .03723 | .38614 | .17175 | .00476 | .37082 | .04596 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | .28029 | .05365 | .09393 | .05218 | 1.5207 | .02586 | .37164 | .65968 | |
| StdDev | .00017 | .00021 | .00060 | .00043 | .0120 | .00021 | .00247 | .00173 | |
| %RSD | .06089 | .40004 | .63896 | .81989 | .78563 | .80899 | .66488 | .26191 | |
| #1 | .28042 | .05358 | .09334 | .05184 | 1.5083 | .02564 | .37275 | .65792 | |
| #2 | .28010 | .05390 | .09454 | .05203 | 1.5321 | .02605 | .36880 | .65974 | |
| #3 | .28035 | .05349 | .09391 | .05266 | 1.5217 | .02589 | .37336 | .66138 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | .11522 | .41755 | .00522 | .02949 | .02575 | .77059 | 10.725 | | |
| StdDev | .00050 | .00150 | .00002 | .00020 | .00014 | .00507 | .073 | | |
| %RSD | .43446 | .35843 | .33489 | .68752 | .53199 | .65811 | .67884 | | |
| #1 | .11480 | .41708 | .00520 | .02927 | .02583 | .76749 | 10.683 | | |
| #2 | .11510 | .41635 | .00523 | .02955 | .02559 | .76785 | 10.684 | | |
| #3 | .11578 | .41923 | .00521 | .02966 | .02583 | .77645 | 10.809 | | |

Sample Name: S2 Acquired: 12/30/2024 14:03:17 Type: Cal
Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2433.6 | 56237. | 11469. | 1906.0 | 3571.9 |
| Stddev | 7.8 | 296. | 47. | 16.8 | 10.5 |
| %RSD | .32021 | .52690 | .40602 | .88181 | .29372 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2425.0 | 56331. | 11440. | 1921.8 | 3560.5 |
| #2 | 2440.2 | 55906. | 11523. | 1888.4 | 3581.1 |
| #3 | 2435.5 | 56476. | 11445. | 1907.9 | 3574.0 |

Sample Name: S3 Acquired: 12/30/2024 14:07:28 Type: Cal
 Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .16504 | .18720 | .62294 | .16408 | .34024 | .30909 | 15.423 | .68819 | 3 |
| StdDev | .00098 | .00143 | .00285 | .00036 | .00165 | .00193 | .136 | .00512 | 4 |
| %RSD | .59434 | .76124 | .45827 | .21991 | .48602 | .62375 | .88296 | .74434 | 5 |
| #1 | .16391 | .18678 | .62030 | .16366 | .33869 | .31101 | 15.561 | .69363 | 6 |
| #2 | .16546 | .18603 | .62255 | .16432 | .34005 | .30716 | 15.289 | .68346 | 7 |
| #3 | .16573 | .18878 | .62597 | .16424 | .34198 | .30910 | 15.420 | .68749 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | 2.5196 | .82857 | .11458 | 1.1638 | .51641 | .01453 | 1.1227 | .14436 | 11 |
| StdDev | .0087 | .00729 | .00021 | .0039 | .00218 | .00009 | .0083 | .00080 | 12 |
| %RSD | .34643 | .87963 | .18678 | .33781 | .42162 | .59118 | .74079 | .55241 | 13 |
| #1 | 2.5120 | .83600 | .11440 | 1.1606 | .51475 | .01444 | 1.1320 | .14504 | 14 |
| #2 | 2.5176 | .82143 | .11482 | 1.1627 | .51560 | .01461 | 1.1159 | .14348 | 15 |
| #3 | 2.5291 | .82829 | .11453 | 1.1682 | .51888 | .01454 | 1.1202 | .14456 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | .84226 | .16774 | .29257 | .16428 | 4.5146 | .07968 | 1.1243 | 2.0246 | |
| StdDev | .00325 | .00060 | .00100 | .00103 | .0149 | .00021 | .0106 | .0076 | |
| %RSD | .38580 | .35682 | .34213 | .62678 | .32995 | .26050 | .94451 | .37787 | |
| #1 | .83954 | .16777 | .29168 | .16540 | 4.5292 | .07951 | 1.1361 | 2.0174 | |
| #2 | .84138 | .16832 | .29365 | .16338 | 4.5153 | .07991 | 1.1157 | 2.0236 | |
| #3 | .84586 | .16713 | .29239 | .16406 | 4.4994 | .07961 | 1.1210 | 2.0326 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | .34561 | 1.2895 | .01627 | .08887 | .07544 | 2.3787 | 33.413 | | |
| StdDev | .00160 | .0074 | .00002 | .00010 | .00037 | .0121 | .111 | | |
| %RSD | .46399 | .57538 | .12299 | .11091 | .49448 | .51029 | .33123 | | |
| #1 | .34450 | 1.2980 | .01625 | .08881 | .07513 | 2.3914 | 33.527 | | |
| #2 | .34488 | 1.2842 | .01629 | .08881 | .07533 | 2.3672 | 33.408 | | |
| #3 | .34745 | 1.2864 | .01626 | .08898 | .07585 | 2.3776 | 33.306 | | |

Sample Name: S3 Acquired: 12/30/2024 14:07:28 Type: Cal
Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2488.1 | 55659. | 11642. | 1847.2 | 3676.9 |
| Stddev | 4.7 | 144. | 119. | 2.8 | 2.8 |
| %RSD | .19038 | .25941 | 1.0213 | .15225 | .07700 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2493.6 | 55558. | 11506. | 1845.1 | 3679.2 |
| #2 | 2485.3 | 55595. | 11729. | 1846.1 | 3677.9 |
| #3 | 2485.5 | 55824. | 11689. | 1850.4 | 3673.8 |

Sample Name: S4 Acquired: 12/30/2024 14:11:45 Type: Cal
 Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .31527 | .34988 | 1.1739 | .31403 | .65114 | .58302 | 28.867 | 1.2804 | 3 |
| StdDev | .00212 | .00507 | .0095 | .00291 | .00669 | .00467 | .373 | .0184 | 4 |
| %RSD | .67362 | 1.4489 | .80485 | .92590 | 1.0267 | .80029 | 1.2937 | 1.4341 | 5 |
| #1 | .31680 | .34952 | 1.1809 | .31598 | .65695 | .58813 | 29.289 | 1.3011 | 6 |
| #2 | .31284 | .34501 | 1.1632 | .31069 | .64383 | .57899 | 28.733 | 1.2736 | 7 |
| #3 | .31615 | .35512 | 1.1776 | .31543 | .65263 | .58194 | 28.579 | 1.2664 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | 4.7651 | 1.5449 | .20869 | 2.1934 | .96848 | .02646 | 2.0804 | .27269 | 11 |
| StdDev | .0410 | .0168 | .00124 | .0180 | .00817 | .00005 | .0274 | .00312 | 12 |
| %RSD | .86058 | 1.0901 | .59344 | .82041 | .84329 | .20394 | 1.3156 | 1.1460 | 13 |
| #1 | 4.7968 | 1.5644 | .20993 | 2.2080 | .97664 | .02648 | 2.1120 | .27629 | 14 |
| #2 | 4.7188 | 1.5359 | .20869 | 2.1733 | .96030 | .02651 | 2.0645 | .27110 | 15 |
| #3 | 4.7797 | 1.5346 | .20745 | 2.1990 | .96849 | .02641 | 2.0647 | .27067 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | 1.5811 | .30917 | .54156 | .30931 | 8.2530 | .14613 | 2.1126 | 3.8007 | |
| StdDev | .0134 | .00149 | .00084 | .00334 | .0498 | .00061 | .0318 | .0331 | |
| %RSD | .84737 | .48307 | .15590 | 1.0789 | .60326 | .41703 | 1.5045 | .86979 | |
| #1 | 1.5914 | .31037 | .54228 | .31315 | 8.3014 | .14673 | 2.1493 | 3.8253 | |
| #2 | 1.5659 | .30965 | .54177 | .30715 | 8.2557 | .14616 | 2.0954 | 3.7631 | |
| #3 | 1.5859 | .30750 | .54063 | .30763 | 8.2019 | .14551 | 2.0932 | 3.8136 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | .64975 | 2.4259 | .03033 | .16973 | .14439 | 4.5314 | 62.442 | | |
| StdDev | .00594 | .0291 | .00011 | .00135 | .00107 | .0509 | .631 | | |
| %RSD | .91435 | 1.1985 | .37087 | .79275 | .74082 | 1.1233 | 1.0102 | | |
| #1 | .65382 | 2.4593 | .03029 | .17010 | .14461 | 4.5899 | 63.165 | | |
| #2 | .64294 | 2.4066 | .03045 | .16824 | .14322 | 4.4966 | 62.007 | | |
| #3 | .65250 | 2.4118 | .03024 | .17085 | .14532 | 4.5079 | 62.153 | | |

Sample Name: S4 Acquired: 12/30/2024 14:11:45 Type: Cal
Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2424.2 | 56243. | 11537. | 1828.8 | 3562.2 |
| Stddev | 20.8 | 193. | 142. | 5.9 | 28.9 |
| %RSD | .85649 | .34336 | 1.2288 | .32261 | .81014 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2405.1 | 56095. | 11374. | 1825.3 | 3537.9 |
| #2 | 2446.3 | 56172. | 11610. | 1825.5 | 3594.1 |
| #3 | 2421.3 | 56461. | 11627. | 1835.6 | 3554.7 |

Sample Name: S5 Acquired: 12/30/2024 14:15:57 Type: Cal
 Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .66747 | .75059 | 2.5140 | .65425 | 1.3629 | 1.3076 | 64.219 | 2.8647 | 3 |
| StdDev | .00256 | .00750 | .0106 | .00421 | .0071 | .0094 | .792 | .0115 | 4 |
| %RSD | .38285 | .99865 | .42107 | .64416 | .52267 | .72123 | 1.2335 | .40025 | 5 |
| #1 | .66634 | .74292 | 2.5033 | .65228 | 1.3613 | 1.3159 | 64.908 | 2.8747 | 6 |
| #2 | .66567 | .75094 | 2.5144 | .65139 | 1.3567 | 1.3096 | 64.395 | 2.8671 | 7 |
| #3 | .67039 | .75790 | 2.5244 | .65909 | 1.3707 | 1.2973 | 63.353 | 2.8522 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | 10.180 | 3.4576 | .43719 | 4.7175 | 2.0242 | .05625 | 4.6475 | .61880 | 11 |
| StdDev | .043 | .0151 | .00870 | .0226 | .0096 | .00110 | .0252 | .00287 | 12 |
| %RSD | .42661 | .43572 | 1.9905 | .48001 | .47598 | 1.9584 | .54155 | .46399 | 13 |
| #1 | 10.131 | 3.4721 | .44153 | 4.6931 | 2.0195 | .05679 | 4.6677 | .62194 | 14 |
| #2 | 10.195 | 3.4587 | .44288 | 4.7213 | 2.0178 | .05698 | 4.6555 | .61816 | 15 |
| #3 | 10.214 | 3.4420 | .42718 | 4.7379 | 2.0353 | .05498 | 4.6193 | .61631 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | 3.3803 | .65518 | 1.1505 | .68931 | 17.333 | .31242 | 4.7189 | 7.9727 | |
| StdDev | .0157 | .00847 | .0261 | .00481 | .251 | .00661 | .0154 | .0410 | |
| %RSD | .46547 | 1.2925 | 2.2654 | .69765 | 1.4509 | 2.1153 | .32544 | .51412 | |
| #1 | 3.3630 | .65904 | 1.1649 | .69324 | 17.457 | .31587 | 4.7208 | 7.9519 | |
| #2 | 3.3841 | .66104 | 1.1663 | .69074 | 17.499 | .31659 | 4.7027 | 7.9463 | |
| #3 | 3.3938 | .64547 | 1.1204 | .68395 | 17.044 | .30480 | 4.7332 | 8.0200 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | 1.3917 | 5.4285 | .06479 | .37687 | .31812 | 10.245 | 136.15 | | |
| StdDev | .0076 | .0371 | .00108 | .00302 | .00198 | .101 | 1.46 | | |
| %RSD | .54535 | .68361 | 1.6670 | .80228 | .62167 | .98348 | 1.0730 | | |
| #1 | 1.3831 | 5.4622 | .06533 | .37382 | .31629 | 10.329 | 137.80 | | |
| #2 | 1.3945 | 5.4345 | .06550 | .37690 | .31786 | 10.273 | 135.62 | | |
| #3 | 1.3974 | 5.3888 | .06355 | .37987 | .32022 | 10.133 | 135.03 | | |

Sample Name: S5 Acquired: 12/30/2024 14:15:57 Type: Cal
Method: NON EPA-6010-200.7(v2573) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2363.5 | 54553. | 10582. | 1765.8 | 3391.9 |
| Stddev | 11.3 | 993. | 53. | 28.7 | 14.7 |
| %RSD | .47893 | 1.8202 | .49819 | 1.6279 | .43234 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2365.7 | 54023. | 10526. | 1749.7 | 3405.4 |
| #2 | 2373.5 | 53937. | 10588. | 1748.8 | 3393.9 |
| #3 | 2351.2 | 55698. | 10631. | 1799.0 | 3376.3 |

Sample Name: ICV01 Acquired: 12/30/2024 14:20:09 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | 1.015887 | 1.018190 | 1.011885 | .9887378 | .9708192 | 2.456872 | 3 |
| StdDev | .005243 | .002773 | .002000 | .0049145 | .0038198 | .007050 | 4 |
| %RSD | .5160869 | .2723538 | .1976721 | .4970514 | .3934596 | .2869379 | 5 |
| #1 | 1.017069 | 1.015908 | 1.013109 | .9935933 | .9748928 | 2.464944 | 6 |
| #2 | 1.020438 | 1.021276 | 1.009577 | .9888538 | .9702472 | 2.453750 | 7 |
| #3 | 1.010154 | 1.017387 | 1.012969 | .9837663 | .9673177 | 2.451923 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .4910221 | .4884559 | .5113805 | 9.602877 | .5362880 | .5167202 | 11 |
| StdDev | .0008748 | .0014195 | .0009515 | .004548 | .0016204 | .0014097 | 12 |
| %RSD | .1781666 | .2906036 | .1860589 | .0473566 | .3021485 | .2728188 | 13 |
| #1 | .4905196 | .4869073 | .5118843 | 9.600173 | .5350298 | .5170054 | 14 |
| #2 | .4905145 | .4887651 | .5102830 | 9.608128 | .5357178 | .5151897 | 15 |
| #3 | .4920323 | .4896953 | .5119740 | 9.600331 | .5381164 | .5179655 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .5174199 | 10.27470 | .5014379 | 5.595247 | .5194666 | .2589198 | |
| StdDev | .0005775 | .02289 | .0016418 | .047883 | .0008138 | .0001652 | |
| %RSD | .1116165 | .2228089 | .3274240 | .8557805 | .1566506 | .0637971 | |
| #1 | .5169712 | 10.28967 | .4995438 | 5.586800 | .5195456 | .2587606 | |
| #2 | .5172169 | 10.28608 | .5023143 | 5.646791 | .5186162 | .2590903 | |
| #3 | .5180715 | 10.24835 | .5024556 | 5.552149 | .5202379 | .2589084 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 9.946690 | .4775973 | 1.035773 | 9.985725 | 2.323530 | 2.455657 | |
| StdDev | .040006 | .0018854 | .004982 | .072633 | .006873 | .003163 | |
| %RSD | .4022036 | .3947574 | .4809715 | .7273711 | .2957910 | .1287955 | |
| #1 | 9.981811 | .4797296 | 1.035933 | 10.06947 | 2.315603 | 2.455001 | |
| #2 | 9.903142 | .4761511 | 1.030712 | 9.94787 | 2.327172 | 2.452873 | |
| #3 | 9.955117 | .4769111 | 1.040672 | 9.93984 | 2.327816 | 2.459096 | |

Sample Name: ICV01 Acquired: 12/30/2024 14:20:09 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|------------|----------|------------|------------|------------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | 2.429492 | 2.335965 | F 2.016934 | F .0104710 | F -.003422 | F -.001359 | 5 |
| Stddev | .002617 | .001399 | .002952 | .0024150 | .000615 | .000412 | 6 |
| %RSD | .1077172 | .0598786 | .1463481 | 23.06341 | 17.96039 | 30.31826 | 7 |
| #1 | 2.429727 | 2.335467 | 2.019289 | .0115576 | -.004085 | -.001110 | 8 |
| #2 | 2.426765 | 2.334884 | 2.013623 | .0121518 | -.002872 | -.001835 | 9 |
| #3 | 2.431983 | 2.337545 | 2.017890 | .0077036 | -.003307 | -.001132 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | F -.008546 | | | | | | 13 |
| Stddev | .000180 | | | | | | 14 |
| %RSD | 2.101793 | | | | | | 15 |
| #1 | -.008376 | | | | | | 16 |
| #2 | -.008529 | | | | | | 17 |
| #3 | -.008734 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2539.162 | 56796.23 | 12022.22 | 1914.619 | 3746.798 | | |
| Stddev | 3.694 | 49.24 | 24.45 | 7.219 | 6.368 | | |
| %RSD | .1454844 | .0866952 | .2034052 | .3770393 | .1699551 | | |
| #1 | 2540.521 | 56759.22 | 12049.78 | 1914.001 | 3748.077 | | |
| #2 | 2541.984 | 56852.12 | 12003.11 | 1922.127 | 3752.430 | | |
| #3 | 2534.981 | 56777.37 | 12013.77 | 1907.728 | 3739.888 | | |

Sample Name: LLICV01 Acquired: 12/30/2024 14:24:13 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0207024 | .0383273 | .0113079 | .0184323 | .0487237 | .1051201 | .0921979 | 3 |
| StdDev | .0006728 | .0010507 | .0012311 | .0008355 | .0008979 | .0050549 | .0002577 | 4 |
| %RSD | 3.249746 | 2.741350 | 10.88672 | 4.533021 | 1.842784 | 4.808737 | .2795409 | 5 |
| #1 | .0202807 | .0383434 | .0119428 | .0188546 | .0478833 | .1032037 | .0919023 | 6 |
| #2 | .0203483 | .0372687 | .0098890 | .0189724 | .0486181 | .1108530 | .0923754 | 7 |
| #3 | .0214783 | .0393698 | .0120919 | .0174699 | .0496697 | .1013035 | .0923160 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0057742 | .0062105 | 1.899581 | .0094698 | .0297818 | .0215900 | .0905437 | 11 |
| StdDev | .0000368 | .0001075 | .005998 | .0001322 | .0001136 | .0002310 | .0018170 | 12 |
| %RSD | .6366444 | 1.731276 | .3157796 | 1.396325 | .3813116 | 1.070065 | 2.006752 | 13 |
| #1 | .0057318 | .0063195 | 1.905945 | .0093772 | .0297052 | .0218568 | .0886960 | 14 |
| #2 | .0057961 | .0062072 | 1.894032 | .0096212 | .0299123 | .0214590 | .0923283 | 15 |
| #3 | .0057948 | .0061046 | 1.898767 | .0094110 | .0297280 | .0214542 | .0906069 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .0195351 | 1.989645 | .0401331 | .0102136 | 1.883396 | .0383856 | .0421521 | |
| StdDev | .0002373 | .035178 | .0004312 | .0001378 | .003068 | .0012319 | .0002194 | |
| %RSD | 1.214888 | 1.768075 | 1.074556 | 1.349070 | .1628966 | 3.209188 | .5204329 | |
| #1 | .0197565 | 1.985832 | .0401212 | .0100651 | 1.882574 | .0372023 | .0419084 | |
| #2 | .0192845 | 2.026574 | .0397080 | .0102384 | 1.886791 | .0382936 | .0423340 | |
| #3 | .0195643 | 1.956528 | .0405703 | .0103374 | 1.880822 | .0396609 | .0422138 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 1.885138 | .1123859 | .1967758 | .0394107 | .0377154 | .3359785 | .0224254 | |
| StdDev | .010313 | .0003226 | .0007087 | .0005555 | .0005689 | .0046370 | .0013555 | |
| %RSD | .5470576 | .2870811 | .3601434 | 1.409595 | 1.508437 | 1.380136 | 6.044511 | |
| #1 | 1.878151 | .1120925 | .1973787 | .0398171 | .0370735 | .3365320 | .0213167 | |
| #2 | 1.880281 | .1127314 | .1959952 | .0396373 | .0379155 | .3310896 | .0239366 | |
| #3 | 1.896983 | .1123339 | .1969534 | .0387777 | .0381572 | .3403138 | .0220230 | |

Sample Name: LLICV01 Acquired: 12/30/2024 14:24:13 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | .0206738 | .0178330 | .0186010 | |
| StdDev | .0019883 | .0003542 | .0000770 | |
| %RSD | 9.617656 | 1.986459 | .4138910 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .0192192 | .0174301 | .0185227 | |
| #2 | .0198626 | .0180958 | .0186766 | |
| #3 | .0229394 | .0179731 | .0186036 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2468.947 | 57448.13 | 11630.55 | 1937.409 | 3598.212 |
| StdDev | 8.723 | 163.53 | 17.32 | 6.528 | 12.578 |
| %RSD | .3533035 | .2846525 | .1488889 | .3369259 | .3495532 |
| #1 | 2471.334 | 57264.07 | 11648.34 | 1932.732 | 3601.314 |
| #2 | 2476.228 | 57503.67 | 11613.75 | 1934.628 | 3608.949 |
| #3 | 2459.279 | 57576.66 | 11629.57 | 1944.866 | 3584.374 |

Sample Name: ICB01 Acquired: 12/30/2024 14:28:31 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0011084 | -.001851 | -.000393 | -.001724 | -.002256 | -.003600 | .0014658 |
| StdDev | .0004444 | .000525 | .000658 | .003255 | .000852 | .004775 | .0002532 |
| %RSD | 40.09395 | 28.37316 | 167.4018 | 188.8517 | 37.76805 | 132.6156 | 17.27584 |
| #1 | .0014411 | -.001348 | -.000121 | .001678 | -.001324 | -.008697 | .0012960 |
| #2 | .0006037 | -.002396 | .000086 | -.004810 | -.002449 | -.002873 | .0013445 |
| #3 | .0012804 | -.001809 | -.001143 | -.002040 | -.002996 | .000769 | .0017568 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000495 | .0001410 | -.010390 | -.000484 | -.000104 | .0000353 | -.002720 |
| StdDev | .0000243 | .0001191 | .005898 | .000214 | .000100 | .0001761 | .003331 |
| %RSD | 49.07347 | 84.42052 | 56.76568 | 44.29514 | 95.79537 | 499.2931 | 122.4490 |
| #1 | .0000744 | .0001189 | -.013405 | -.000677 | -.000118 | .0001896 | -.000430 |
| #2 | .0000482 | .0002696 | -.003594 | -.000520 | .000002 | .0000728 | -.006541 |
| #3 | .0000259 | .0000346 | -.014173 | -.000254 | -.000196 | -.000157 | -.001189 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.000167 | .0044839 | -.000158 | .0004306 | .0112254 | .0008238 | -.000620 |
| StdDev | .000082 | .0182024 | .000389 | .0002285 | .0105510 | .0016317 | .000035 |
| %RSD | 49.25003 | 405.9502 | 245.6356 | 53.06303 | 93.99266 | 198.0598 | 5.642750 |
| #1 | -.000246 | .0225113 | .000252 | .0003487 | .0125158 | -.000905 | -.000659 |
| #2 | -.000171 | -.013889 | -.000204 | .0002543 | .0000885 | .001040 | -.000593 |
| #3 | -.000082 | .004829 | -.000523 | .0006887 | .0210719 | .002337 | -.000608 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0201259 | .0048903 | -.000056 | -.000063 | .0004192 | .0014337 | -.000005 |
| StdDev | .0183847 | .0003943 | .000224 | .000217 | .0003625 | .0092225 | .001192 |
| %RSD | 91.34850 | 8.062369 | 402.1697 | 342.9393 | 86.48509 | 643.2602 | 24413.99 |
| #1 | -.000830 | .0053256 | .000028 | .000170 | .0002950 | -.001314 | -.001243 |
| #2 | .033545 | .0045571 | -.000309 | -.000101 | .0008275 | .011718 | .001136 |
| #3 | .027662 | .0047883 | .000114 | -.000258 | .0001351 | -.006102 | .000092 |

Sample Name: ICB01 Acquired: 12/30/2024 14:28:31 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | |
|--------|-----------------|-----------------|-----------------|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | 1 |
| Units | ppm | ppm | ppm | | 2 |
| Avg | -.002226 | -.000504 | -.000039 | | 3 |
| Stddev | .006862 | .000148 | .000016 | | 4 |
| %RSD | 308.3018 | 29.34751 | 41.13331 | | 5 |

| | | | | | |
|----|-----------------|-----------------|-----------------|--|---|
| #1 | .003745 | -.000400 | -.000023 | | 6 |
| #2 | -.009722 | -.000674 | -.000039 | | 7 |
| #3 | -.000700 | -.000439 | -.000056 | | 8 |

| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2496.641 | 60025.17 | 11601.11 | 1978.378 | 3648.135 | 11 |
| Stddev | .209 | 354.10 | 18.65 | 13.096 | 6.832 | 12 |
| %RSD | .0083837 | .5899116 | .1607243 | .6619382 | .1872804 | 13 |
| #1 | 2496.742 | 60282.71 | 11582.15 | 1986.523 | 3641.958 | 14 |
| #2 | 2496.401 | 60171.44 | 11601.76 | 1985.339 | 3646.974 | 15 |
| #3 | 2496.781 | 59621.38 | 11619.43 | 1963.272 | 3655.474 | 16 |

Sample Name: CRI01 Acquired: 12/30/2024 14:32:52 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0210820 | .0371417 | .0113230 | .0178563 | .0465808 | .0936853 | .0913020 | 3 |
| StdDev | .0024652 | .0002877 | .0010544 | .0006561 | .0016527 | .0009382 | .0001433 | 4 |
| %RSD | 11.69354 | .7745821 | 9.312284 | 3.674196 | 3.547969 | 1.001470 | .1569053 | 5 |
| #1 | .0239089 | .0368669 | .0120239 | .0183387 | .0469692 | .0941598 | .0914636 | 6 |
| #2 | .0199582 | .0371174 | .0101104 | .0181209 | .0447685 | .0942915 | .0912522 | 7 |
| #3 | .0193789 | .0374408 | .0118349 | .0171092 | .0480047 | .0926046 | .0911904 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0056764 | .0060695 | 1.899950 | .0090910 | .0289554 | .0206155 | .0952519 | 11 |
| StdDev | .0000249 | .0000512 | .009961 | .0001479 | .0001521 | .0005082 | .0013466 | 12 |
| %RSD | .4377085 | .8428083 | .5242961 | 1.626439 | .5252080 | 2.465054 | 1.413727 | 13 |
| #1 | .0056882 | .0060269 | 1.888470 | .0089792 | .0288212 | .0200499 | .0967974 | 14 |
| #2 | .0056932 | .0060553 | 1.905078 | .0090351 | .0291206 | .0207628 | .0943307 | 15 |
| #3 | .0056479 | .0061262 | 1.906303 | .0092586 | .0289245 | .0210337 | .0946278 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .0191675 | 2.028487 | .0387073 | .0103632 | 1.927008 | .0377244 | .0411049 | |
| StdDev | .0003477 | .031358 | .0004658 | .0001902 | .006806 | .0015192 | .0001388 | |
| %RSD | 1.813913 | 1.545903 | 1.203262 | 1.835750 | .3532122 | 4.027040 | .3375675 | |
| #1 | .0190508 | 2.058771 | .0389388 | .0105807 | 1.933555 | .0393684 | .0412428 | |
| #2 | .0195586 | 2.030536 | .0390121 | .0102814 | 1.927500 | .0363724 | .0411066 | |
| #3 | .0188933 | 1.996155 | .0381712 | .0102276 | 1.919969 | .0374325 | .0409653 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 1.954770 | .0976620 | .1972746 | .0383433 | .0370959 | .3395807 | .0195869 | |
| StdDev | .020633 | .0004799 | .0005181 | .0004805 | .0005121 | .0026779 | .0020286 | |
| %RSD | 1.055529 | .4913618 | .2626070 | 1.253154 | 1.380570 | .7885927 | 10.35693 | |
| #1 | 1.965120 | .0982127 | .1976224 | .0381986 | .0372969 | .3406022 | .0203138 | |
| #2 | 1.931011 | .0973336 | .1966792 | .0388796 | .0365138 | .3415974 | .0172950 | |
| #3 | 1.968180 | .0974396 | .1975222 | .0379518 | .0374771 | .3365423 | .0211519 | |

Sample Name: CRI01 Acquired: 12/30/2024 14:32:52 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .0186910 | .0168974 | .0185735 | |
| Stddev | .0011302 | .0009614 | .0000693 | |
| %RSD | 6.046652 | 5.689455 | .3730403 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .0199883 | .0163730 | .0186414 | |
| #2 | .0179194 | .0163122 | .0185029 | |
| #3 | .0181653 | .0180069 | .0185761 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2594.917 | 56977.44 | 11893.65 | 1915.238 | 3869.888 |
| Stddev | 2.827 | 311.28 | 20.42 | 6.489 | 9.521 |
| %RSD | .1089580 | .5463212 | .1717186 | .3388059 | .2460217 |
| #1 | 2592.898 | 56620.61 | 11874.32 | 1907.806 | 3861.424 |
| #2 | 2598.148 | 57118.45 | 11915.02 | 1918.126 | 3868.044 |
| #3 | 2593.705 | 57193.26 | 11891.61 | 1919.781 | 3880.196 |

Sample Name: ICSA01 Acquired: 12/30/2024 14:37:10

Type: Unk

Method: NON EPA-6010-200.7(v2573)

Mode: CONC

Corr. Factor: 1.000000

User: Kareem

Custom ID1: ICSA01

Custom ID2:

Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0066448 | .0089609 | .0079108 | -.016584 | -.005210 | 243.9372 | 3 |
| Stddev | .0007257 | .0029614 | .0010424 | .007101 | .002958 | 2.3088 | 4 |
| %RSD | 10.92122 | 33.04843 | 13.17728 | 42.81760 | 56.76862 | .9464927 | 5 |
| #1 | .0074809 | .0061116 | .0067211 | -.012758 | -.002582 | 242.4555 | 6 |
| #2 | .0062755 | .0087480 | .0086640 | -.024777 | -.004635 | 242.7587 | 7 |
| #3 | .0061780 | .0120230 | .0083474 | -.012216 | -.008414 | 246.5975 | 8 |
| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .0049009 | .0011164 | -.004019 | 229.4843 | .0579377 | .0015149 | 11 |
| Stddev | .0006484 | .0000230 | .000183 | 1.4791 | .0003328 | .0002693 | 12 |
| %RSD | 13.23006 | 2.057245 | 4.541474 | .6445331 | .5743519 | 17.77368 | 13 |
| #1 | .0043188 | .0011057 | -.003939 | 228.0201 | .0577097 | .0016246 | 14 |
| #2 | .0047842 | .0011427 | -.003891 | 229.4549 | .0577838 | .0012082 | 15 |
| #3 | .0055997 | .0011007 | -.004228 | 230.9778 | .0583195 | .0017121 | 16 |
| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0209737 | 100.5733 | .0052365 | 253.2579 | .0021522 | -.008328 | |
| Stddev | .0006912 | .2331 | .0004241 | 1.5544 | .0001709 | .000322 | |
| %RSD | 3.295647 | .2317345 | 8.098617 | .6137742 | 7.942225 | 3.866246 | |
| #1 | .0203633 | 100.8420 | .0050949 | 251.8213 | .0023334 | -.007962 | |
| #2 | .0208336 | 100.4261 | .0049013 | 253.0444 | .0021296 | -.008568 | |
| #3 | .0217243 | 100.4518 | .0057133 | 254.9080 | .0019937 | -.008454 | |
| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | .0497112 | .0093509 | .0035745 | .1785225 | .0599363 | .0011750 | |
| Stddev | .0043040 | .0012059 | .0003192 | .0100764 | .0012111 | .0003340 | |
| %RSD | 8.657993 | 12.89649 | 8.929893 | 5.644302 | 2.020642 | 28.42426 | |
| #1 | .0473225 | .0090037 | .0039074 | .1813103 | .0610943 | .0008159 | |
| #2 | .0471313 | .0083567 | .0035449 | .1673457 | .0600362 | .0012327 | |
| #3 | .0546798 | .0106924 | .0032711 | .1869114 | .0586783 | .0014763 | |

Sample Name: ICSA01 Acquired: 12/30/2024 14:37:10 Type: Unk
 Method: NON EPA-6010-200.7(v2573) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 1 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0016975 | -.001537 | .0024522 | .0075492 | -.013327 | F -.037530 | 3 |
| Stddev | .0012075 | .000501 | .0054410 | .0041238 | .002532 | .001125 | 4 |
| %RSD | 71.13188 | 32.58626 | 221.8850 | 54.62496 | 19.00055 | 2.997134 | 5 |
| #1 | .0030899 | -.001077 | -.003571 | .0084595 | -.012949 | -.037544 | 6 |
| #2 | .0010640 | -.002070 | .003916 | .0111418 | -.011005 | -.036398 | 7 |
| #3 | .0009387 | -.001464 | .007011 | .0030464 | -.016027 | -.038648 | 8 |
| Elem | Sr4077 | | | | | | 9 |
| Units | ppm | | | | | | 10 |
| Avg | -.006020 | | | | | | 11 |
| Stddev | .000526 | | | | | | 12 |
| %RSD | 8.733275 | | | | | | 13 |
| #1 | -.006626 | | | | | | 14 |
| #2 | -.005741 | | | | | | 15 |
| #3 | -.005693 | | | | | | 16 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 17 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 18 |
| Avg | 2250.454 | 50844.34 | 11399.85 | 1707.335 | 3214.995 | | |
| Stddev | 16.865 | 216.21 | 135.43 | 10.321 | 16.254 | | |
| %RSD | .7493840 | .4252453 | 1.187967 | .6045273 | .5055583 | | |
| #1 | 2269.288 | 50745.41 | 11505.60 | 1701.995 | 3232.274 | | |
| #2 | 2245.321 | 51092.32 | 11446.74 | 1719.233 | 3212.700 | | |
| #3 | 2236.752 | 50695.29 | 11247.21 | 1700.778 | 3200.010 | | |

| | | | | | | |
|--------------|---------------------------|-------------|---------------------|---------------|-------------|----------|
| Sample Name: | ICSAB01 | Acquired: | 12/30/2024 14:45:43 | Type: | Unk | |
| Method: | NON EPA-6010-200.7(v2560) | Mode: | CONC | Corr. Factor: | 1.000000 | |
| User: | Kareem | Custom ID1: | ICSAB01 | Custom ID2: | Custom ID3: | |
| Comment: | | | | | | |
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1065540 | .1074446 | .0526753 | .0455812 | .6471988 | 240.1167 |
| StdDev | .0020784 | .0001847 | .0010853 | .0042936 | .0032586 | 1.4287 |
| %RSD | 1.950517 | .1718633 | 2.060441 | 9.419660 | .5034962 | .5950070 |
| #1 | .1041583 | .1074502 | .0526710 | .0505378 | .6445210 | 241.6995 |
| #2 | .1076291 | .1072572 | .0515921 | .0430068 | .6462483 | 238.9225 |
| #3 | .1078745 | .1076264 | .0537628 | .0431991 | .6508269 | 239.7279 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5121917 | .5319780 | 1.078062 | 228.1175 | .6174016 | .4444871 |
| StdDev | .0037091 | .0031983 | .002056 | 1.4492 | .0027238 | .0008979 |
| %RSD | .7241605 | .6012065 | .1906926 | .6352953 | .4411750 | .2020082 |
| #1 | .5156569 | .5335878 | 1.080322 | 229.5615 | .6147555 | .4452398 |
| #2 | .5126389 | .5340516 | 1.076304 | 228.1280 | .6172523 | .4434932 |
| #3 | .5082792 | .5282947 | 1.077558 | 226.6631 | .6201970 | .4447283 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5543071 | 100.8204 | .5165515 | 249.2135 | 1.088901 | .2259189 |
| StdDev | .0017304 | .1527 | .0050181 | 1.8256 | .003298 | .0007201 |
| %RSD | .3121691 | .1514772 | .9714555 | .7325400 | .3028403 | .3187558 |
| #1 | .5559435 | 100.8929 | .5213244 | 251.0283 | 1.092211 | .2252843 |
| #2 | .5524960 | 100.6449 | .5170103 | 249.2350 | 1.085616 | .2257709 |
| #3 | .5544817 | 100.9233 | .5113198 | 247.3773 | 1.088876 | .2267016 |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0558254 | .5053152 | .8571385 | .1308240 | .9746742 | 1.006581 |
| StdDev | .0059067 | .0022226 | .0032611 | .0182117 | .0040576 | .003311 |
| %RSD | 10.58073 | .4398519 | .3804617 | 13.92080 | .4162980 | .3289148 |
| #1 | .0492849 | .5069540 | .8560038 | .1375421 | .9765955 | 1.008436 |
| #2 | .0574202 | .5062063 | .8545964 | .1447224 | .9774143 | 1.002759 |
| #3 | .0607709 | .5027853 | .8608153 | .1102075 | .9700129 | 1.008548 |

Sample Name: ICSAB01 Acquired: 12/30/2024 14:45:43 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|------------|----------|----------|------------|------------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | 1.009540 | .9257712 | .8569717 | F .0158962 | F -.008058 | F -.037997 | 5 |
| Stddev | .005879 | .0072874 | .0142696 | .0034611 | .004647 | .000571 | 6 |
| %RSD | .5823084 | .7871747 | 1.665113 | 21.77280 | 57.66942 | 1.503973 | 7 |
| #1 | 1.013118 | .9334349 | .8410748 | .0150701 | -.002867 | -.038048 | 8 |
| #2 | 1.002755 | .9249490 | .8611671 | .0129231 | -.009478 | -.038542 | 9 |
| #3 | 1.012746 | .9189297 | .8686733 | .0196956 | -.011829 | -.037402 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | F -.006055 | | | | | | 13 |
| Stddev | .000585 | | | | | | 14 |
| %RSD | 9.664256 | | | | | | 15 |
| #1 | -.005611 | | | | | | 16 |
| #2 | -.005835 | | | | | | 17 |
| #3 | -.006718 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2278.699 | 50829.54 | 11387.09 | 1725.760 | 3250.497 | | |
| Stddev | 7.599 | 148.77 | 73.35 | 9.997 | 10.392 | | |
| %RSD | .3334865 | .2926772 | .6441209 | .5792709 | .3197034 | | |
| #1 | 2269.967 | 50939.37 | 11318.92 | 1721.952 | 3238.506 | | |
| #2 | 2283.810 | 50889.00 | 11377.65 | 1737.101 | 3256.891 | | |
| #3 | 2282.321 | 50660.24 | 11464.70 | 1718.227 | 3256.093 | | |

Sample Name: CCV01 Acquired: 12/30/2024 14:49:31 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | 4.640766 | 4.530301 | 4.734552 | 4.614408 | 4.673930 | 9.362224 | 9.262657 | 3 |
| StdDev | .012801 | .021001 | .013627 | .018201 | .014453 | .005144 | .047143 | 4 |
| %RSD | .2758445 | .4635592 | .2878184 | .3944313 | .3092257 | .0549431 | .5089536 | 5 |
| #1 | 4.632047 | 4.513733 | 4.719363 | 4.596456 | 4.665132 | 9.359442 | 9.285499 | 6 |
| #2 | 4.634787 | 4.523249 | 4.738589 | 4.613920 | 4.666047 | 9.359069 | 9.294026 | 7 |
| #3 | 4.655462 | 4.553920 | 4.745705 | 4.632848 | 4.690610 | 9.368159 | 9.208444 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .2443086 | 2.373582 | 23.50311 | .9720940 | 2.364904 | 1.179781 | 4.694425 | 11 |
| StdDev | .0006435 | .005198 | .06473 | .0099678 | .005590 | .003428 | .028712 | 12 |
| %RSD | .2633934 | .2189951 | .2753911 | 1.025395 | .2363777 | .2905531 | .6116226 | 13 |
| #1 | .2445854 | 2.367836 | 23.48620 | .9835962 | 2.359211 | 1.177488 | 4.726681 | 14 |
| #2 | .2447673 | 2.374955 | 23.57461 | .9667066 | 2.365116 | 1.178133 | 4.684935 | 15 |
| #3 | .2435730 | 2.377956 | 23.44851 | .9659793 | 2.370386 | 1.183721 | 4.671660 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 2.359158 | 23.60438 | 2.368265 | 1.200692 | 23.04548 | 2.347834 | 2.396644 | |
| StdDev | .010532 | .05403 | .005229 | .008583 | .19182 | .007584 | .023131 | |
| %RSD | .4464312 | .2288828 | .2207872 | .7148672 | .8323493 | .3230321 | .9651424 | |
| #1 | 2.347679 | 23.63085 | 2.362268 | 1.210530 | 23.25992 | 2.343705 | 2.423270 | |
| #2 | 2.368377 | 23.64006 | 2.370661 | 1.196810 | 22.89024 | 2.356587 | 2.381508 | |
| #3 | 2.361417 | 23.54222 | 2.371868 | 1.194735 | 22.98627 | 2.343210 | 2.385153 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 23.07449 | 4.847185 | 4.731691 | 4.717189 | 4.665057 | 4.631608 | 4.695257 | |
| StdDev | .16552 | .012883 | .011856 | .014383 | .012442 | .031944 | .013188 | |
| %RSD | .7173143 | .2657909 | .2505741 | .3049110 | .2667064 | .6897034 | .2808710 | |
| #1 | 23.26507 | 4.841356 | 4.721243 | 4.702084 | 4.654311 | 4.663681 | 4.686083 | |
| #2 | 22.96675 | 4.861952 | 4.729252 | 4.718763 | 4.678688 | 4.599794 | 4.689317 | |
| #3 | 22.99165 | 4.838245 | 4.744577 | 4.730721 | 4.662172 | 4.631348 | 4.710370 | |

Sample Name: CCV01 Acquired: 12/30/2024 14:49:31 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 4.558572 | 4.634188 | 4.698600 | | | 3 |
| Stddev | .014639 | .010638 | .048669 | | | 4 |
| %RSD | .3211229 | .2295569 | 1.035825 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 4.553839 | 4.622380 | 4.682756 | | | 6 |
| #2 | 4.546886 | 4.643025 | 4.753217 | | | 7 |
| #3 | 4.574992 | 4.637158 | 4.659826 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2507.239 | 55937.23 | 11036.42 | 1861.428 | 3654.080 | 11 |
| Stddev | 5.181 | 431.26 | 35.87 | 16.548 | 7.127 | 12 |
| %RSD | .2066359 | .7709708 | .3249708 | .8889979 | .1950343 | 13 |
| #1 | 2511.936 | 55439.53 | 11053.11 | 1842.414 | 3662.115 | 14 |
| #2 | 2508.100 | 56171.69 | 10995.26 | 1872.571 | 3651.603 | 15 |
| #3 | 2501.682 | 56200.48 | 11060.91 | 1869.300 | 3648.523 | 16 |

Sample Name: CCB01 Acquired: 12/30/2024 14:53:41 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | -0.000636 | -0.000468 | 0.0001671 | 0.0005642 | -0.002054 | -0.003042 | 0.0025567 | 3 |
| StdDev | .001199 | .001223 | .0002191 | .0030262 | .001043 | .005685 | .0003916 | 4 |
| %RSD | 188.5432 | 261.2106 | 131.0579 | 536.3189 | 50.75936 | 186.9002 | 15.31688 | 5 |
| #1 | -0.002018 | -0.001073 | -0.000079 | 0.0029288 | -0.000855 | -0.003308 | 0.0028959 | 6 |
| #2 | 0.000007 | -0.001271 | 0.000242 | 0.0016100 | -0.002749 | -0.008589 | 0.0026461 | 7 |
| #3 | 0.000105 | 0.000939 | 0.000339 | -0.002846 | -0.002559 | 0.002772 | 0.0021281 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | 0.0000545 | 0.0001203 | 0.0037692 | -0.000427 | 0.0000385 | -0.000408 | 0.0016048 | 11 |
| StdDev | .00000136 | .00001333 | .0050130 | .0000175 | .00000761 | .0000249 | .0039612 | 12 |
| %RSD | 24.95141 | 110.8317 | 133.0018 | 40.99717 | 197.7545 | 60.97912 | 246.8324 | 13 |
| #1 | 0.0000487 | -0.000022 | 0.0092977 | -0.000400 | 0.0001252 | -0.000359 | 0.0027862 | 14 |
| #2 | 0.0000701 | 0.000140 | -0.000481 | -0.000614 | -0.000017 | -0.000678 | -0.002813 | 15 |
| #3 | 0.0000448 | 0.000242 | 0.002490 | -0.000267 | 0.000007 | -0.000187 | 0.004841 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -0.000672 | 0.0059022 | -0.000263 | 0.0002682 | 0.0095849 | 0.0007823 | -0.000116 | |
| StdDev | .000160 | .0120891 | .000183 | .0003263 | .0009801 | .0014889 | .000157 | |
| %RSD | 23.84799 | 204.8234 | 69.53106 | 121.6571 | 10.22545 | 190.3342 | 135.8897 | |
| #1 | -0.000801 | 0.0173970 | -0.000101 | 0.0000030 | 0.0084780 | -0.000608 | -0.000180 | |
| #2 | -0.000493 | -0.006704 | -0.000461 | 0.0006327 | 0.0103424 | 0.000602 | -0.000230 | |
| #3 | -0.000724 | 0.007014 | -0.000226 | 0.0001691 | 0.0099343 | 0.002353 | 0.000063 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | -0.060767 | 0.0035519 | 0.0000130 | 0.0025251 | 0.0003862 | -0.003440 | -0.000664 | |
| StdDev | .024584 | .0002372 | .0001678 | .0000877 | .0003483 | .001129 | .000704 | |
| %RSD | 40.45587 | 6.678202 | 1289.429 | 3.471838 | 90.18821 | 32.81598 | 105.9989 | |
| #1 | -0.056565 | 0.0035206 | 0.0002068 | 0.0024323 | 0.0004414 | -0.002185 | -0.001474 | |
| #2 | -0.087181 | 0.0038033 | -0.000082 | 0.0026065 | 0.0000136 | -0.004372 | -0.000198 | |
| #3 | -0.038555 | 0.0033320 | -0.000086 | 0.0025367 | 0.0007037 | -0.003763 | -0.000321 | |

Sample Name: CCB01 Acquired: 12/30/2024 14:53:41 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | | 1 |
| Units | ppm | ppm | ppm | | | | 2 |
| Avg | .003745 | .0001063 | .0001318 | | | | 3 |
| Stddev | .002351 | .0007064 | .0000335 | | | | 4 |
| %RSD | 62.79651 | 664.6239 | 25.38638 | | | | 5 |

| | | | | | | | |
|----|----------|----------|----------|--|--|--|---|
| #1 | -.001927 | .0000342 | .0001468 | | | | 6 |
| #2 | -.002907 | -.000561 | .0000934 | | | | 7 |
| #3 | -.006400 | .000846 | .0001551 | | | | 8 |

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|--|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 10 |
| Avg | 2606.991 | 57748.81 | 11848.35 | 1940.155 | 3900.349 | | 11 |
| Stddev | 6.549 | 43.17 | 140.84 | 6.816 | 14.422 | | 12 |
| %RSD | .2512117 | .0747462 | 1.188664 | .3513104 | .3697701 | | 13 |
| #1 | 2599.434 | 57709.20 | 11738.06 | 1938.403 | 3883.722 | | 14 |
| #2 | 2611.019 | 57742.42 | 11800.00 | 1947.676 | 3907.851 | | 15 |
| #3 | 2610.519 | 57794.82 | 12007.00 | 1934.387 | 3909.474 | | 16 |

Sample Name: P5342-08 Acquired: 12/30/2024 14:58:02 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|-----------|-----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -0.004969 | -0.007491 | .0234279 | .0064871 | .0022718 | .1961034 | .3451017 |
| StdDev | .000790 | .001644 | .0003566 | .0019347 | .0010516 | .0034216 | .0006438 |
| %RSD | 15.90044 | 21.94838 | 1.522261 | 29.82320 | 46.29035 | 1.744805 | .1865665 |
| #1 | -0.005504 | -0.006907 | .0238310 | .0044173 | .0031431 | .1958751 | .3446660 |
| #2 | -0.004061 | -0.006220 | .0231531 | .0082499 | .0025685 | .1996334 | .3458413 |
| #3 | -0.005340 | -0.009348 | .0232998 | .0067943 | .0011037 | .1928016 | .3447980 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -0.000045 | .0014505 | 26.21512 | .0012531 | .0062222 | .0157105 | .1764166 |
| StdDev | .0000039 | .0000737 | .05310 | .0000387 | .0001264 | .0002640 | .0039582 |
| %RSD | 86.35128 | 5.080449 | .2025519 | 3.088289 | 2.031759 | 1.680626 | 2.243642 |
| #1 | -0.000000 | .0014002 | 26.15756 | .0012799 | .0061699 | .0154567 | .1808309 |
| #2 | -0.000065 | .0014161 | 26.26220 | .0012087 | .0061303 | .0159837 | .1752351 |
| #3 | -0.000070 | .0015351 | 26.22559 | .0012707 | .0063663 | .0156912 | .1731837 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9670018 | 6.501810 | .0053083 | .0002423 | 289.8616 | .0008034 | .5641175 |
| StdDev | .0032316 | .022684 | .0001248 | .0002974 | .6001 | .0007564 | .0024834 |
| %RSD | .3341820 | .3488932 | 2.350598 | 122.7712 | .2070405 | 94.15577 | .4402240 |
| #1 | .9672629 | 6.491575 | .0053123 | -.000066 | 289.7318 | .0012687 | .5657389 |
| #2 | .9700949 | 6.527808 | .0054310 | .000528 | 290.5161 | -.000069 | .5612586 |
| #3 | .9636477 | 6.486047 | .0051816 | .000265 | 289.3371 | .001211 | .5653552 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.643249 | .0907173 | .0002166 | -.000377 | .0026746 | 2.288114 | .1493590 |
| StdDev | .019737 | .0004282 | .0001106 | .000359 | .0004471 | .011583 | .0029580 |
| %RSD | .2970916 | .4720437 | 51.05952 | 95.32494 | 16.71672 | .5062176 | 1.980454 |
| #1 | 6.664268 | .0903796 | .0003052 | -.000289 | .0021743 | 2.284508 | .1470632 |
| #2 | 6.625112 | .0911990 | .0000926 | -.000772 | .0030350 | 2.301071 | .1483168 |
| #3 | 6.640367 | .0905734 | .0002519 | -.000070 | .0028144 | 2.278763 | .1526970 |

Sample Name: P5342-08 Acquired: 12/30/2024 14:58:02 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 1.583864 | -.003042 | .0915869 | | | 3 |
| Stddev | .008771 | .000689 | .0002095 | | | 4 |
| %RSD | .5537937 | 22.63762 | .2287926 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 1.579541 | -.003577 | .0914965 | | | 6 |
| #2 | 1.578094 | -.003284 | .0918264 | | | 7 |
| #3 | 1.593958 | -.002265 | .0914377 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2317.737 | 53099.02 | 11876.15 | 1765.449 | 3339.215 | 11 |
| Stddev | 15.202 | 65.93 | 29.85 | 4.786 | 24.073 | 12 |
| %RSD | .6558976 | .1241698 | .2513505 | .2711124 | .7209223 | 13 |

| | | | | | | |
|----|----------|----------|----------|----------|----------|----|
| #1 | 2322.841 | 53112.17 | 11910.34 | 1762.455 | 3346.420 | 14 |
| #2 | 2329.730 | 53027.50 | 11855.23 | 1762.923 | 3358.863 | 15 |
| #3 | 2300.640 | 53157.38 | 11862.89 | 1770.969 | 3312.362 | 16 |

Sample Name: P5342-09 Acquired: 12/30/2024 15:02:27 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .005038 | .005004 | .0193956 | .0053237 | .0036559 | .1548418 | .1950378 | 3 |
| StdDev | .002263 | .001757 | .0010947 | .0031202 | .0011921 | .0098849 | .0025075 | 4 |
| %RSD | 44.92290 | 35.10843 | 5.644098 | 58.60913 | 32.60814 | 6.383838 | 1.285670 | 5 |
| #1 | .002916 | .007022 | .0182004 | .0065639 | .0043608 | .1538156 | .1931871 | 6 |
| #2 | .007419 | .004165 | .0196369 | .0076331 | .0022795 | .1651997 | .1940348 | 7 |
| #3 | .004777 | .003823 | .0203496 | .0017741 | .0043275 | .1455101 | .1978916 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0001524 | .0036069 | 41.12065 | .0014981 | .0064259 | .0740544 | .0599740 | 11 |
| StdDev | .0000413 | .0001081 | .62640 | .0002248 | .0002096 | .0004352 | .0047531 | 12 |
| %RSD | 27.10214 | 2.995693 | 1.523324 | 15.00846 | 3.262088 | .5877071 | 7.925240 | 13 |
| #1 | .0002000 | .0035062 | 40.60677 | .0016438 | .0061891 | .0735782 | .0570640 | 14 |
| #2 | .0001298 | .0035935 | 40.93677 | .0016114 | .0065879 | .0741536 | .0573990 | 15 |
| #3 | .0001273 | .0037211 | 41.81841 | .0012392 | .0065005 | .0744315 | .0654589 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .5607791 | 5.148738 | .0227418 | .0002129 | 289.8613 | .0006310 | 7.751350 | |
| StdDev | .0065246 | .103041 | .0001788 | .0002614 | 1.6945 | .0011720 | .024522 | |
| %RSD | 1.163495 | 2.001278 | .7861981 | 122.7953 | .5845829 | 185.7354 | .3163634 | |
| #1 | .5561296 | 5.082127 | .0228460 | .0004829 | 288.0883 | .0016189 | 7.723103 | |
| #2 | .5579699 | 5.096666 | .0225353 | -.000039 | 291.4645 | -.000664 | 7.767191 | |
| #3 | .5682378 | 5.267423 | .0228440 | .000195 | 290.0310 | .000938 | 7.763755 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 2.203559 | .0471202 | -.001136 | -.001248 | -.000079 | 2.139639 | .0317559 | |
| StdDev | .022753 | .0006559 | .000181 | .000819 | .000216 | .010866 | .0014662 | |
| %RSD | 1.032551 | 1.392034 | 15.90338 | 65.65269 | 272.6439 | .5078641 | 4.616985 | |
| #1 | 2.195513 | .0465496 | -.001327 | -.000876 | .000051 | 2.127211 | .0302103 | |
| #2 | 2.229241 | .0469741 | -.001113 | -.002187 | -.000329 | 2.144358 | .0331270 | |
| #3 | 2.185922 | .0478368 | -.000968 | -.000680 | .000040 | 2.147348 | .0319303 | |

Sample Name: P5342-09 Acquired: 12/30/2024 15:02:27 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 1.240542 | -.005552 | .1775534 | |
| Stddev | .003622 | .000655 | .0020696 | |
| %RSD | .2919665 | 11.79933 | 1.165612 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 1.238364 | -.005496 | .1763623 | |
| #2 | 1.238539 | -.006233 | .1763547 | |
| #3 | 1.244723 | -.004927 | .1799431 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2423.978 | 53077.39 | 11874.07 | 1781.722 | 3504.860 |
| Stddev | 7.378 | 155.29 | 176.78 | 13.513 | 13.757 |
| %RSD | .3043752 | .2925644 | 1.488778 | .7584268 | .3925103 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2426.369 | 53252.25 | 12017.22 | 1794.261 | 3511.619 |
| #2 | 2429.864 | 53024.35 | 11928.53 | 1767.410 | 3513.931 |
| #3 | 2415.701 | 52955.58 | 11676.47 | 1783.496 | 3489.032 |

Sample Name: P5382-01 Acquired: 12/30/2024 15:06:52 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0790729 | -.027963 | .5366162 | -.143948 | -.019041 | 250.7896 | .8357546 |
| StdDev | .0051358 | .003653 | .0010198 | .004861 | .003402 | 1.8289 | .0093051 |
| %RSD | 6.495048 | 13.06364 | .1900468 | 3.376794 | 17.86401 | .7292422 | 1.113376 |
| #1 | .0849910 | -.023758 | .5368410 | -.145226 | -.019544 | 252.4128 | .8461936 |
| #2 | .0757853 | -.030355 | .5355027 | -.138576 | -.022163 | 251.1479 | .8327384 |
| #3 | .0764422 | -.029776 | .5375048 | -.148042 | -.015416 | 248.8081 | .8283318 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0195591 | -.013316 | 27.30511 | .5165397 | .1717689 | .4910591 | 462.1984 |
| StdDev | .0002645 | .000506 | .31654 | .0027671 | .0006373 | .0022658 | 2.3741 |
| %RSD | 1.352437 | 3.797020 | 1.159270 | .5356956 | .3710494 | .4614213 | .5136535 |
| #1 | .0198468 | -.013317 | 27.64565 | .5185483 | .1714678 | .4936752 | 459.8603 |
| #2 | .0195041 | -.012809 | 27.24982 | .5133834 | .1713379 | .4897812 | 462.1280 |
| #3 | .0193264 | -.013820 | 27.01985 | .5176873 | .1725010 | .4897208 | 464.6070 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 3.347005 | 54.75909 | .2569799 | -.046718 | 1.221925 | .8815603 | .6519586 |
| StdDev | .037207 | .54600 | .0005497 | .001066 | .007851 | .0057325 | .0049443 |
| %RSD | 1.111655 | .9970909 | .2138926 | 2.282065 | .6425282 | .6502668 | .7583712 |
| #1 | 3.387021 | 55.30782 | .2575155 | -.047940 | 1.229629 | .8881024 | .6548883 |
| #2 | 3.340539 | 54.75358 | .2570069 | -.046238 | 1.213934 | .8791621 | .6462501 |
| #3 | 3.313454 | 54.21586 | .2564172 | -.045977 | 1.222212 | .8774164 | .6547374 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 29.75717 | .2735309 | .0139274 | .0172346 | 8.686078 | 8.000303 | 7.348315 |
| StdDev | .25661 | .0062462 | .0004451 | .0019036 | .092296 | .070057 | .011950 |
| %RSD | .8623536 | 2.283533 | 3.196138 | 11.04550 | 1.062572 | .8756847 | .1626203 |
| #1 | 29.78924 | .2671970 | .0134229 | .0192840 | 8.789153 | 8.021168 | 7.349856 |
| #2 | 29.48603 | .2737102 | .0140945 | .0168981 | 8.658000 | 7.922183 | 7.335669 |
| #3 | 29.99624 | .2796855 | .0142649 | .0155216 | 8.611083 | 8.057557 | 7.359419 |

Sample Name: P5382-01 Acquired: 12/30/2024 15:06:52 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .9751915 | .1508300 | -.286597 | |
| Stddev | .0056192 | .0020311 | .004257 | |
| %RSD | .5762139 | 1.346613 | 1.485249 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .9816645 | .1530652 | -.282034 | |
| #2 | .9723428 | .1490973 | -.287296 | |
| #3 | .9715672 | .1503276 | -.290461 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2811.306 | 63439.64 | 13591.12 | 2125.457 | 3448.073 |
| Stddev | 2.338 | 349.43 | 158.37 | 18.258 | 4.316 |
| %RSD | .0831788 | .5508042 | 1.165256 | .8590155 | .1251791 |
| #1 | 2813.537 | 63237.51 | 13430.10 | 2119.168 | 3451.149 |
| #2 | 2808.873 | 63843.13 | 13596.54 | 2146.028 | 3443.139 |
| #3 | 2811.509 | 63238.29 | 13746.71 | 2111.174 | 3449.932 |

Sample Name: P5382-02 Acquired: 12/30/2024 15:11:13 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0651719 | -.016681 | .9368424 | -.068190 | -.012112 | 149.3694 | .9328148 | 3 |
| StdDev | .0031238 | .001492 | .0016341 | .001600 | .001145 | 1.0503 | .0076196 | 4 |
| %RSD | 4.793117 | 8.941283 | .1744281 | 2.346352 | 9.456539 | .7031365 | .8168403 | 5 |
| #1 | .0619385 | -.015285 | .9352244 | -.069497 | -.011083 | 149.5639 | .9343676 | 6 |
| #2 | .0681731 | -.018253 | .9368107 | -.068667 | -.011906 | 150.3089 | .9395383 | 7 |
| #3 | .0654040 | -.016507 | .9384922 | -.066406 | -.013346 | 148.2355 | .9245383 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0129096 | -.004040 | 33.15360 | .2841826 | .1425087 | .3000301 | 249.2298 | 11 |
| StdDev | .0001011 | .000124 | .23595 | .0017482 | .0005925 | .0003484 | .6955 | 12 |
| %RSD | .7832963 | 3.076509 | .7116798 | .6151704 | .4157582 | .1161177 | .2790575 | 13 |
| #1 | .0129715 | -.003970 | 33.29730 | .2860580 | .1418422 | .3000149 | 249.2814 | 14 |
| #2 | .0129645 | -.003967 | 33.28220 | .2825980 | .1427081 | .3003859 | 248.5099 | 15 |
| #3 | .0127930 | -.004184 | 32.88129 | .2838919 | .1429758 | .2996896 | 249.8980 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 2.763982 | 31.15483 | .1973303 | -.023206 | .7849800 | .4015119 | .5944894 | |
| StdDev | .019267 | .23576 | .0007636 | .000254 | .0036302 | .0025057 | .0006081 | |
| %RSD | .6970619 | .7567505 | .3869666 | 1.094393 | .4624541 | .6240552 | .1022970 | |
| #1 | 2.774770 | 31.33644 | .1965511 | -.023099 | .7821491 | .4042025 | .5950716 | |
| #2 | 2.775438 | 31.23967 | .1980772 | -.023496 | .7837181 | .4010880 | .5938583 | |
| #3 | 2.741738 | 30.88839 | .1973628 | -.023023 | .7890727 | .3992453 | .5945382 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 12.90810 | .1638547 | .0098746 | .0682451 | 3.902437 | 3.610853 | 7.252806 | |
| StdDev | .05768 | .0019458 | .0001183 | .0004458 | .026994 | .023763 | .005634 | |
| %RSD | .4468291 | 1.187487 | 1.197745 | .6532844 | .6917155 | .6580873 | .0776824 | |
| #1 | 12.93880 | .1626932 | .0098310 | .0687387 | 3.908863 | 3.593047 | 7.249863 | |
| #2 | 12.84156 | .1627700 | .0100085 | .0678716 | 3.925637 | 3.601677 | 7.259302 | |
| #3 | 12.94393 | .1661011 | .0097843 | .0681251 | 3.872810 | 3.637836 | 7.249251 | |

Sample Name: P5382-02 Acquired: 12/30/2024 15:11:13 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 2.037086 | .1179895 | -.034490 | | | 3 |
| Stddev | .009825 | .0005873 | .002269 | | | 4 |
| %RSD | .4822973 | .4977658 | 6.578301 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 2.025804 | .1182343 | -.034223 | | | 6 |
| #2 | 2.041691 | .1184148 | -.032366 | | | 7 |
| #3 | 2.043761 | .1173194 | -.036881 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 3195.198 | 72058.37 | 15722.25 | 2404.757 | 3526.723 | 11 |
| Stddev | 4.101 | 219.20 | 145.84 | 2.763 | 6.366 | 12 |
| %RSD | .1283518 | .3041958 | .9276093 | .1148980 | .1804978 | 13 |
| #1 | 3199.777 | 71858.32 | 15620.22 | 2406.223 | 3532.872 | 14 |
| #2 | 3191.863 | 72292.68 | 15657.22 | 2406.479 | 3520.161 | 15 |
| #3 | 3193.954 | 72024.10 | 15889.29 | 2401.570 | 3527.135 | 16 |

Sample Name: P5382-03 Acquired: 12/30/2024 15:15:18 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0892576 | -.008922 | .9547570 | -.101686 | -.012135 | 188.4577 | 3 |
| StdDev | .0023037 | .002472 | .0069565 | .004979 | .003038 | .7040 | 4 |
| %RSD | 2.580949 | 27.70224 | .7286143 | 4.896854 | 25.03258 | .3735416 | 5 |
| #1 | .0896483 | -.006068 | .9574377 | -.107013 | -.009012 | 188.6339 | 6 |
| #2 | .0913410 | -.010345 | .9599743 | -.100896 | -.015079 | 187.6824 | 7 |
| #3 | .0867836 | -.010353 | .9468590 | -.097148 | -.012313 | 189.0569 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 1.098933 | .0135191 | -.006016 | 93.96220 | .3636503 | .1477418 | 11 |
| StdDev | .018422 | .0001796 | .000474 | 1.36887 | .0074997 | .0013941 | 12 |
| %RSD | 1.676352 | 1.328519 | 7.878678 | 1.456826 | 2.062347 | .9436341 | 13 |
| #1 | 1.111388 | .0137078 | -.006490 | 94.91199 | .3684580 | .1487714 | 14 |
| #2 | 1.077771 | .0133502 | -.006017 | 92.39314 | .3674842 | .1482987 | 15 |
| #3 | 1.107638 | .0134992 | -.005542 | 94.58149 | .3550086 | .1461552 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .3444643 | 326.8808 | 4.867840 | 64.16643 | .2091151 | -.031466 | |
| StdDev | .0019855 | 5.2443 | .078681 | .91637 | .0013772 | .001546 | |
| %RSD | .5764082 | 1.604348 | 1.616342 | 1.428122 | .6585889 | 4.911829 | |
| #1 | .3421998 | 331.4622 | 4.920957 | 64.74155 | .2098833 | -.031414 | |
| #2 | .3459065 | 328.0197 | 4.777449 | 63.10967 | .2099368 | -.033038 | |
| #3 | .3452867 | 321.1607 | 4.905115 | 64.64806 | .2075251 | -.029948 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | .7012756 | .4981314 | .9611524 | 15.84951 | .2012371 | .0075712 | |
| StdDev | .0132774 | .0057577 | .0207838 | .19824 | .0070914 | .0001763 | |
| %RSD | 1.893325 | 1.155864 | 2.162382 | 1.250766 | 3.523895 | 2.328343 | |
| #1 | .7122535 | .5029928 | .9748837 | 16.02486 | .2059015 | .0074256 | |
| #2 | .7050552 | .4917730 | .9713323 | 15.88926 | .2047333 | .0075208 | |
| #3 | .6865182 | .4996285 | .9372411 | 15.63441 | .1930765 | .0077672 | |

Sample Name: P5382-03 Acquired: 12/30/2024 15:15:18 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|----------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0496932 | 4.163269 | F 15.87433 | 8.716407 | .9471792 | .1373993 | 5 |
| StdDev | .0005883 | .065283 | .22954 | .061527 | .0077269 | .0021246 | 6 |
| %RSD | 1.183920 | 1.568068 | 1.445957 | .7058811 | .8157832 | 1.546268 | 7 |
| #1 | .0490458 | 4.213232 | 16.09742 | 8.781081 | .9470392 | .1383003 | 8 |
| #2 | .0498388 | 4.089404 | 15.88672 | 8.709537 | .9549751 | .1349727 | 9 |
| #3 | .0501951 | 4.187171 | 15.63885 | 8.658603 | .9395232 | .1389249 | 10 |
| ELEM | Sr4077 | | | | | | 11 |
| UNITS | ppm | | | | | | 12 |
| Avg | -.089050 | | | | | | 13 |
| StdDev | .007004 | | | | | | 14 |
| %RSD | 7.865364 | | | | | | 15 |
| #1 | -.091391 | | | | | | 16 |
| #2 | -.094584 | | | | | | 17 |
| #3 | -.081176 | | | | | | 18 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2887.556 | 64947.31 | 14566.71 | 2159.410 | 3416.032 | | |
| StdDev | 14.171 | 914.14 | 152.94 | 39.015 | 21.540 | | |
| %RSD | .4907610 | 1.407517 | 1.049931 | 1.806764 | .6305606 | | |
| #1 | 2874.877 | 64331.57 | 14454.59 | 2138.656 | 3396.729 | | |
| #2 | 2884.937 | 64512.69 | 14740.93 | 2135.158 | 3412.101 | | |
| #3 | 2902.853 | 65997.68 | 14504.59 | 2204.416 | 3439.267 | | |

Sample Name: CCV02 Acquired: 12/30/2024 15:19:38 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | 4.753700 | 4.928125 | 4.858341 | 4.751816 | 4.787491 | 9.463930 | 9.406112 |
| StdDev | .004235 | .054316 | .009379 | .012978 | .017331 | .016420 | .080979 |
| %RSD | .0890935 | 1.102158 | .1930459 | .2731216 | .3620153 | .1734984 | .8609178 |
| #1 | 4.757709 | 4.866249 | 4.865472 | 4.765844 | 4.804581 | 9.450688 | 9.364607 |
| #2 | 4.754122 | 4.950193 | 4.847717 | 4.749368 | 4.787962 | 9.458799 | 9.499429 |
| #3 | 4.749270 | 4.967933 | 4.861833 | 4.740236 | 4.769928 | 9.482302 | 9.354299 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .2472855 | 2.442245 | 24.06089 | 1.003823 | 2.423029 | 1.201722 | 4.956186 |
| StdDev | .0002601 | .003489 | .06256 | .001582 | .002669 | .003927 | .022595 |
| %RSD | .1051846 | .1428414 | .2600147 | .1576458 | .1101678 | .3267535 | .4558907 |
| #1 | .2475854 | 2.440979 | 24.02530 | 1.002205 | 2.424284 | 1.206073 | 4.943300 |
| #2 | .2471222 | 2.439566 | 24.02425 | 1.003894 | 2.419963 | 1.200651 | 4.942983 |
| #3 | .2471487 | 2.446190 | 24.13313 | 1.005368 | 2.424839 | 1.198442 | 4.982276 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.387023 | 24.30910 | 2.425496 | 1.243098 | 24.22126 | 2.397885 | 2.458709 |
| StdDev | .009059 | .03240 | .002327 | .003038 | .09271 | .009717 | .007725 |
| %RSD | .3795145 | .1332967 | .0959373 | .2444037 | .3827632 | .4052424 | .3142092 |
| #1 | 2.384193 | 24.30236 | 2.426534 | 1.240766 | 24.15835 | 2.392871 | 2.449982 |
| #2 | 2.379716 | 24.28060 | 2.422830 | 1.241995 | 24.17771 | 2.391698 | 2.464674 |
| #3 | 2.397159 | 24.34435 | 2.427123 | 1.246534 | 24.32773 | 2.409085 | 2.461470 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 24.26948 | 4.855692 | 4.854690 | 4.866935 | 4.746490 | 4.899789 | 4.858079 |
| StdDev | .13571 | .012534 | .007303 | .013708 | .012651 | .030864 | .021969 |
| %RSD | .5591843 | .2581199 | .1504393 | .2816638 | .2665336 | .6298955 | .4522057 |
| #1 | 24.13026 | 4.869740 | 4.859939 | 4.857230 | 4.743899 | 4.872182 | 4.833335 |
| #2 | 24.27678 | 4.845654 | 4.846349 | 4.860959 | 4.735335 | 4.894073 | 4.865612 |
| #3 | 24.40139 | 4.851682 | 4.857782 | 4.882617 | 4.760236 | 4.933110 | 4.875289 |

Sample Name: CCV02 Acquired: 12/30/2024 15:19:38 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | | 1 |
| Units | ppm | ppm | ppm | | | | 2 |
| Avg | 4.696206 | 4.650294 | 4.773155 | | | | 3 |
| Stddev | .003617 | .012392 | .029165 | | | | 4 |
| %RSD | .0770131 | .2664682 | .6110193 | | | | 5 |

| | | | | | | | |
|----|----------|----------|----------|--|--|--|---|
| #1 | 4.694733 | 4.638613 | 4.764570 | | | | 6 |
| #2 | 4.700326 | 4.648977 | 4.749246 | | | | 7 |
| #3 | 4.693557 | 4.663291 | 4.805649 | | | | 8 |

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|--|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 10 |
| Avg | 2515.882 | 54900.19 | 11269.68 | 1844.666 | 3655.059 | | 11 |
| Stddev | 10.157 | 181.73 | 14.51 | 6.544 | 9.775 | | 12 |
| %RSD | .4037028 | .3310181 | .1287325 | .3547628 | .2674389 | | 13 |
| #1 | 2505.393 | 55004.07 | 11262.48 | 1852.197 | 3647.553 | | 14 |
| #2 | 2525.670 | 55006.15 | 11286.38 | 1841.435 | 3666.112 | | 15 |
| #3 | 2516.584 | 54690.35 | 11260.19 | 1840.365 | 3651.512 | | 16 |

Sample Name: CCB02 Acquired: 12/30/2024 15:23:49 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0019801 | -.002539 | .0002859 | -.000975 | -.001736 | -.003670 | .0026568 |
| StdDev | .0011544 | .000755 | .0006390 | .000961 | .002392 | .004067 | .0003974 |
| %RSD | 58.30255 | 29.71407 | 223.4939 | 98.63354 | 137.7607 | 110.8053 | 14.95772 |
| #1 | .0015148 | -.003363 | .0004617 | -.000334 | -.003585 | -.004941 | .0024035 |
| #2 | .0011309 | -.002374 | -.000423 | -.000510 | -.002589 | .000880 | .0031148 |
| #3 | .0032946 | -.001881 | .000819 | -.002080 | .000965 | -.006949 | .0024521 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000279 | .0001220 | -.001561 | -.000351 | -.000138 | -.000652 | -.001294 |
| StdDev | .0000410 | .0000556 | .003946 | .000389 | .000193 | .000293 | .004650 |
| %RSD | 147.2275 | 45.57562 | 252.8721 | 111.0286 | 140.1332 | 44.98976 | 359.3057 |
| #1 | .0000388 | .0000581 | -.006094 | .000076 | -.000360 | -.000387 | -.006631 |
| #2 | -.000018 | .0001592 | .001102 | -.000440 | -.000007 | -.000601 | .001878 |
| #3 | .000062 | .0001487 | .000310 | -.000687 | -.000047 | -.000967 | .000871 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.000989 | .0047688 | .0000830 | .0002097 | .0099035 | -.000361 | -.000509 |
| StdDev | .000141 | .0153753 | .0002655 | .0002049 | .0089780 | .001802 | .000225 |
| %RSD | 14.23951 | 322.4130 | 319.9256 | 97.68945 | 90.65531 | 499.5798 | 44.22250 |
| #1 | -.001073 | .0051228 | .0002192 | -.000023 | .0196388 | -.000120 | -.000753 |
| #2 | -.000826 | -.010780 | -.000223 | .000361 | .0019498 | -.002271 | -.000310 |
| #3 | -.001067 | .019964 | .000253 | .000292 | .0081219 | .001309 | -.000463 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0193372 | .0022755 | .0002110 | .0027967 | .0000304 | -.005774 | -.001749 |
| StdDev | .0093566 | .0004294 | .0002280 | .0010492 | .0003858 | .003406 | .001870 |
| %RSD | 48.38665 | 18.87014 | 108.0451 | 37.51382 | 1267.930 | 58.98490 | 106.9246 |
| #1 | .0094783 | .0018255 | -.000039 | .0016685 | .0000698 | -.005142 | .000105 |
| #2 | .0280940 | .0026808 | .000265 | .0037431 | .0003950 | -.002729 | -.003635 |
| #3 | .0204394 | .0023201 | .000407 | .0029785 | -.000373 | -.009452 | -.001718 |

Sample Name: CCB02 Acquired: 12/30/2024 15:23:49 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
 Comment:

| | | | | | |
|--------|-----------------|-----------------|-----------------|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | 1 |
| Units | ppm | ppm | ppm | | 2 |
| Avg | -.001776 | -.000467 | .0000009 | | 3 |
| Stddev | .001979 | .000691 | .0000361 | | 4 |
| %RSD | 111.4259 | 148.0094 | 4270.623 | | 5 |

| | | | | | |
|----|-----------------|-----------------|-----------------|--|---|
| #1 | -.003683 | -.000991 | .0000239 | | 6 |
| #2 | .000268 | -.000726 | -.000041 | | 7 |
| #3 | -.001915 | .000316 | .000019 | | 8 |

| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2573.825 | 57613.91 | 11750.70 | 1977.145 | 3757.987 | 11 |
| Stddev | 6.233 | 379.58 | 99.03 | 13.939 | 8.885 | 12 |
| %RSD | .2421674 | .6588318 | .8427958 | .7050044 | .2364425 | 13 |
| #1 | 2566.655 | 57179.27 | 11641.97 | 1961.857 | 3747.729 | 14 |
| #2 | 2576.878 | 57880.21 | 11774.39 | 1980.429 | 3762.926 | 15 |
| #3 | 2577.943 | 57782.24 | 11835.75 | 1989.148 | 3763.305 | 16 |

Sample Name: P5362-01 Acquired: 12/30/2024 15:28:11 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0420210 | -.015948 | 4.672717 | -.061196 | -.006935 | 73.43155 | .4931982 | 3 |
| StdDev | .0015149 | .001476 | .014889 | .004579 | .000606 | .54979 | .0041394 | 4 |
| %RSD | 3.605145 | 9.257711 | .3186299 | 7.483140 | 8.731553 | .7487116 | .8392919 | 5 |
| #1 | .0437584 | -.017003 | 4.681633 | -.056290 | -.007025 | 73.70697 | .4964527 | 6 |
| #2 | .0413288 | -.014261 | 4.680989 | -.065357 | -.006289 | 72.79848 | .4885394 | 7 |
| #3 | .0409759 | -.016581 | 4.655529 | -.061942 | -.007490 | 73.78919 | .4946025 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0069787 | -.002351 | 17.14036 | .1856838 | .1218022 | 4.575233 | 190.5961 | 11 |
| StdDev | .0000495 | .000168 | .13450 | .0006113 | .0006661 | .014865 | .6008 | 12 |
| %RSD | .7090114 | 7.162620 | .7847206 | .3291881 | .5468927 | .3249073 | .3152240 | 13 |
| #1 | .0070021 | -.002314 | 17.18492 | .1850035 | .1218284 | 4.581957 | 190.8129 | 14 |
| #2 | .0069219 | -.002204 | 16.98924 | .1858609 | .1224549 | 4.585548 | 189.9170 | 15 |
| #3 | .0070122 | -.002535 | 17.24694 | .1861869 | .1211234 | 4.558194 | 191.0585 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 1.637088 | 37.75636 | .3829288 | -.016432 | 2.433671 | .3586553 | 4.775140 | |
| StdDev | .013931 | .38410 | .0010674 | .000384 | .013592 | .0050619 | .021368 | |
| %RSD | .8509881 | 1.017322 | .2787369 | 2.336140 | .5585164 | 1.411367 | .4474761 | |
| #1 | 1.648795 | 37.99241 | .3832364 | -.016017 | 2.444271 | .3590109 | 4.760327 | |
| #2 | 1.621680 | 37.31315 | .3838087 | -.016505 | 2.418347 | .3534250 | 4.765459 | |
| #3 | 1.640789 | 37.96353 | .3817415 | -.016775 | 2.438396 | .3635302 | 4.799635 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 15.93788 | .1201556 | .0089131 | .4476339 | 3.988186 | 5.101901 | 5.566463 | |
| StdDev | .03781 | .0002818 | .0000748 | .0022017 | .031478 | .018814 | .020324 | |
| %RSD | .2372530 | .2345533 | .8388828 | .4918562 | .7892843 | .3687644 | .3651186 | |
| #1 | 15.91743 | .1202935 | .0088420 | .4475685 | 4.007173 | 5.109696 | 5.543310 | |
| #2 | 15.91470 | .1198313 | .0089911 | .4498676 | 3.951851 | 5.080442 | 5.581361 | |
| #3 | 15.98151 | .1203419 | .0089063 | .4454657 | 4.005536 | 5.115564 | 5.574717 | |

Sample Name: P5362-01 Acquired: 12/30/2024 15:28:11 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .7086708 | .1039818 | -.080116 | |
| Stddev | .0032882 | .0009580 | .000415 | |
| %RSD | .4639995 | .9213109 | .5177178 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .7077017 | .1044702 | -.079653 | |
| #2 | .7059761 | .1028780 | -.080454 | |
| #3 | .7123347 | .1045971 | -.080241 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2754.412 | 63013.03 | 12990.57 | 2124.248 | 3567.539 |
| Stddev | 8.929 | 187.61 | 64.20 | 12.015 | 11.839 |
| %RSD | .3241678 | .2977349 | .4942029 | .5656100 | .3318620 |
| #1 | 2746.176 | 63148.84 | 12962.09 | 2131.223 | 3559.170 |
| #2 | 2753.158 | 63091.29 | 13064.08 | 2131.148 | 3562.361 |
| #3 | 2763.902 | 62798.96 | 12945.54 | 2110.375 | 3581.085 |

Sample Name: P5362-01DUP Acquired: 12/30/2024 15:35:17 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0407309 | -.016294 | 4.743854 | -.059841 | -.004188 | 73.46544 | .4948844 |
| StdDev | .0011605 | .005636 | .009622 | .004742 | .000310 | .14680 | .0016348 |
| %RSD | 2.849203 | 34.58977 | .2028225 | 7.925117 | 7.397215 | .1998275 | .3303445 |
| #1 | .0414074 | -.018606 | 4.739302 | -.060285 | -.004389 | 73.45506 | .4963794 |
| #2 | .0413944 | -.020405 | 4.754907 | -.064345 | -.004345 | 73.32411 | .4931387 |
| #3 | .0393909 | -.009869 | 4.737352 | -.054892 | -.003832 | 73.61717 | .4951350 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0067194 | -.001789 | 17.19506 | .1867552 | .1239048 | 4.677070 | 193.5593 |
| StdDev | .0000291 | .000305 | .07407 | .0004133 | .0002590 | .008032 | .4690 |
| %RSD | .4333155 | 17.03094 | .4307895 | .2213208 | .2090664 | .1717290 | .2422911 |
| #1 | .0067529 | -.002071 | 17.23319 | .1871719 | .1236790 | 4.668210 | 194.0765 |
| #2 | .0067039 | -.001466 | 17.10969 | .1867485 | .1241876 | 4.679126 | 193.4394 |
| #3 | .0067012 | -.001831 | 17.24230 | .1863453 | .1238479 | 4.683875 | 193.1618 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 1.614433 | 37.79680 | .3897831 | -.015341 | 2.485139 | .3590212 | 4.821074 |
| StdDev | .006778 | .08999 | .0010594 | .000415 | .010321 | .0021485 | .010500 |
| %RSD | .4198073 | .2380888 | .2717820 | 2.704698 | .4153172 | .5984230 | .2177995 |
| #1 | 1.622002 | 37.80987 | .3894206 | -.015805 | 2.496774 | .3589260 | 4.831673 |
| #2 | 1.608928 | 37.70098 | .3909761 | -.015005 | 2.477089 | .3569219 | 4.820875 |
| #3 | 1.612368 | 37.87953 | .3889525 | -.015213 | 2.481553 | .3612157 | 4.810675 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 16.27085 | .1203831 | .0084413 | .4532620 | 3.998059 | 5.486557 | 5.684205 |
| StdDev | .04422 | .0004942 | .0003576 | .0014199 | .013727 | .010622 | .023959 |
| %RSD | .2717780 | .4105278 | 4.236021 | .3132730 | .3433537 | .1935940 | .4214995 |
| #1 | 16.31461 | .1209466 | .0080589 | .4518156 | 4.007740 | 5.497488 | 5.689816 |
| #2 | 16.27177 | .1201790 | .0084975 | .4546540 | 3.982349 | 5.485908 | 5.704861 |
| #3 | 16.22618 | .1200235 | .0087674 | .4533163 | 4.004088 | 5.476274 | 5.657939 |

Sample Name: P5362-01DUP Acquired: 12/30/2024 15:35:17 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| ELEM | S_1820 | Li6707 | Sr4077 | | | 1 |
| UNITS | ppm | ppm | ppm | | | 2 |
| Avg | .7341574 | .1029465 | -.082671 | | | 3 |
| StdDev | .0051668 | .0003499 | .000538 | | | 4 |
| %RSD | .7037709 | .3398503 | .6511304 | | | 5 |
| #1 | .7378733 | .1032015 | -.082800 | | | 6 |
| #2 | .7363418 | .1030903 | -.083134 | | | 7 |
| #3 | .7282572 | .1025476 | -.082080 | | | 8 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2670.284 | 63152.99 | 13379.47 | 2080.035 | 3456.087 | 11 |
| StdDev | 5.885 | 78.94 | 42.67 | 1.822 | 2.685 | 12 |
| %RSD | .2203953 | .1249935 | .3188900 | .0876137 | .0776898 | 13 |
| #1 | 2673.812 | 63068.17 | 13359.83 | 2077.939 | 3459.132 | 14 |
| #2 | 2673.549 | 63224.31 | 13428.42 | 2080.919 | 3455.069 | 15 |
| #3 | 2663.490 | 63166.49 | 13350.16 | 2081.246 | 3454.060 | 16 |
| | | | | | | 17 |
| | | | | | | 18 |

Sample Name: P5362-01LX5 Acquired: 12/30/2024 15:39:23 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0097619 | -.003455 | .9781640 | -.011793 | -.002326 | 16.14920 | .1091093 |
| StdDev | .0013697 | .001501 | .0047326 | .002505 | .001946 | .04146 | .0003052 |
| %RSD | 14.03093 | 43.44484 | .4838212 | 21.23725 | 83.67473 | .2567150 | .2797597 |
| #1 | .0107449 | -.001762 | .9758922 | -.009660 | -.002155 | 16.12497 | .1094415 |
| #2 | .0081974 | -.004622 | .9836042 | -.011168 | -.004352 | 16.12555 | .1090453 |
| #3 | .0103435 | -.003981 | .9749957 | -.014551 | -.000471 | 16.19707 | .1088411 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0015114 | -.001081 | 3.891276 | .0411654 | .0247707 | 1.056095 | 43.00577 |
| StdDev | .0000457 | .000117 | .017565 | .0009689 | .0004002 | .004695 | .65956 |
| %RSD | 3.026028 | 10.87092 | .4513964 | 2.353718 | 1.615520 | .4445695 | 1.533651 |
| #1 | .0015370 | -.001120 | 3.876644 | .0418805 | .0244849 | 1.057676 | 43.48829 |
| #2 | .0014586 | -.000948 | 3.886428 | .0400627 | .0252280 | 1.059796 | 42.25422 |
| #3 | .0015387 | -.001173 | 3.910756 | .0415531 | .0245991 | 1.050814 | 43.27481 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .3664869 | 8.524297 | .0792465 | -.003305 | .5398208 | .0798915 | 1.110706 |
| StdDev | .0008151 | .033939 | .0009039 | .000249 | .0055792 | .0005657 | .017546 |
| %RSD | .2224212 | .3981436 | 1.140602 | 7.538320 | 1.033532 | .7081522 | 1.579695 |
| #1 | .3655500 | 8.508156 | .0784064 | -.003403 | .5424568 | .0794431 | 1.130104 |
| #2 | .3670339 | 8.563295 | .0802029 | -.003022 | .5334119 | .0797042 | 1.095943 |
| #3 | .3668768 | 8.501442 | .0791301 | -.003490 | .5435936 | .0805271 | 1.106073 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 3.455420 | .0231250 | .0018810 | .0912093 | .8914359 | 1.192281 | 1.177336 |
| StdDev | .047005 | .0006754 | .0000954 | .0014416 | .0026260 | .020610 | .009713 |
| %RSD | 1.360335 | 2.920478 | 5.069022 | 1.580570 | .2945777 | 1.728595 | .8249770 |
| #1 | 3.498925 | .0236684 | .0018149 | .0923651 | .8909366 | 1.205310 | 1.173654 |
| #2 | 3.405561 | .0223689 | .0018378 | .0916688 | .8890955 | 1.168520 | 1.188352 |
| #3 | 3.461775 | .0233377 | .0019903 | .0895939 | .8942757 | 1.203013 | 1.170003 |

Sample Name: P5362-01LX5 Acquired: 12/30/2024 15:39:23 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .1525693 | .0220126 | -.018306 | |
| Stddev | .0011465 | .0007030 | .000642 | |
| %RSD | .7514841 | 3.193841 | 3.508201 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .1512633 | .0219820 | -.018769 | |
| #2 | .1534105 | .0213254 | -.017573 | |
| #3 | .1530340 | .0227304 | -.018576 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2518.374 | 57650.39 | 12017.53 | 1964.000 | 3564.974 |
| Stddev | 9.618 | 962.79 | 32.80 | 28.461 | 17.530 |
| %RSD | .3818959 | 1.670043 | .2729038 | 1.449144 | .4917335 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2513.784 | 56775.29 | 11980.26 | 1937.039 | 3568.369 |
| #2 | 2511.911 | 58681.75 | 12030.34 | 1993.755 | 3545.995 |
| #3 | 2529.427 | 57494.11 | 12041.98 | 1961.208 | 3580.559 |

Sample Name: P5362-01MS Acquired: 12/30/2024 15:43:34 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .6615216 | 1.683844 | 4.765769 | 1.389112 | .2765071 | 75.32827 | 3 |
| StdDev | .0016270 | .010136 | .006336 | .007281 | .0018706 | 1.02423 | 4 |
| %RSD | .2459563 | .6019769 | .1329407 | .5241542 | .6765266 | 1.359688 | 5 |
| #1 | .6597371 | 1.678572 | 4.759227 | 1.381036 | .2756400 | 75.86708 | 6 |
| #2 | .6629228 | 1.695530 | 4.771876 | 1.391128 | .2786540 | 74.14710 | 7 |
| #3 | .6619048 | 1.677430 | 4.766205 | 1.395173 | .2752273 | 75.97062 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .6176039 | .1609250 | .1761002 | 16.28945 | .5045091 | .2850981 | 11 |
| StdDev | .0085623 | .0019539 | .0001903 | .19182 | .0006408 | .0002460 | 12 |
| %RSD | 1.386369 | 1.214191 | .1080470 | 1.177558 | .1270037 | .0862717 | 13 |
| #1 | .6206905 | .1617964 | .1761384 | 16.35186 | .5050138 | .2850006 | 14 |
| #2 | .6079263 | .1586870 | .1762685 | 16.07420 | .5047254 | .2853778 | 15 |
| #3 | .6241950 | .1622916 | .1758937 | 16.44229 | .5037882 | .2849158 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | 3.581311 | 165.6226 | 1.615679 | 38.19787 | .7925575 | .0476267 | |
| StdDev | .004761 | .2305 | .02757 | .37644 | .0008089 | .0004231 | |
| %RSD | .1329316 | .1391701 | 1.408529 | .9855108 | .1020672 | .8884276 | |
| #1 | 3.576839 | 165.7622 | 1.621991 | 38.33337 | .7916593 | .0471385 | |
| #2 | 3.586315 | 165.3566 | 1.590433 | 37.77244 | .7932285 | .0478547 | |
| #3 | 3.580779 | 165.7491 | 1.634615 | 38.48782 | .7927847 | .0478870 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 4.628943 | .5590703 | 4.487952 | 24.40226 | .3022256 | .3079801 | |
| StdDev | .011149 | .0083908 | .005333 | .04159 | .0018499 | .0002408 | |
| %RSD | .2408472 | 1.500844 | .1188248 | .1704382 | .6120882 | .0781991 | |
| #1 | 4.636787 | .5608882 | 4.490268 | 24.40097 | .3023097 | .3077525 | |
| #2 | 4.633861 | .5499196 | 4.491734 | 24.36132 | .3003351 | .3082323 | |
| #3 | 4.616181 | .5664030 | 4.481852 | 24.44447 | .3040320 | .3079554 | |

Sample Name: P5362-01MS Acquired: 12/30/2024 15:43:34 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|------------|----------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .9054059 | 4.086453 | 7.056225 | F 10.58172 | .6292202 | .2606592 | 3 |
| StdDev | .0014050 | .057668 | .014033 | .03189 | .0040095 | .0033591 | 4 |
| %RSD | .1551839 | 1.411201 | .1988670 | .3014009 | .6372229 | 1.288691 | 5 |
| #1 | .9037865 | 4.107337 | 7.071932 | 10.54818 | .6269693 | .2622019 | 6 |
| #2 | .9063021 | 4.021253 | 7.044925 | 10.61166 | .6338494 | .2568058 | 7 |
| #3 | .9061290 | 4.130769 | 7.051817 | 10.58532 | .6268418 | .2629698 | 8 |
| ELEM | Sr4077 | | | | | | 9 |
| UNITS | ppm | | | | | | 10 |
| Avg | .0778533 | | | | | | 11 |
| StdDev | .0032741 | | | | | | 12 |
| %RSD | 4.205408 | | | | | | 13 |
| #1 | .0789315 | | | | | | 14 |
| #2 | .0741762 | | | | | | 15 |
| #3 | .0804523 | | | | | | 16 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 17 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 18 |
| Avg | 2726.671 | 62058.07 | 12816.56 | 2100.422 | 3518.216 | | |
| StdDev | 2.476 | 45.81 | 163.75 | 1.777 | 1.741 | | |
| %RSD | .0908247 | .0738225 | 1.277616 | .0845897 | .0494755 | | |
| #1 | 2723.819 | 62048.67 | 12752.57 | 2102.182 | 3516.316 | | |
| #2 | 2727.927 | 62017.68 | 13002.64 | 2100.454 | 3518.600 | | |
| #3 | 2728.268 | 62107.85 | 12694.47 | 2098.629 | 3519.734 | | |

Sample Name: P5362-01MSD Acquired: 12/30/2024 15:47:31 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .6448850 | 1.657517 | 4.690953 | 1.337204 | .2666441 | 75.12443 | 3 |
| StdDev | .0047752 | .015710 | .045903 | .009415 | .0022283 | .74213 | 4 |
| %RSD | .7404774 | .9478292 | .9785382 | .7040522 | .8356657 | .9878649 | 5 |
| #1 | .6478630 | 1.645229 | 4.693783 | 1.328988 | .2641295 | 75.27436 | 6 |
| #2 | .6474149 | 1.675218 | 4.735375 | 1.347477 | .2683732 | 74.31878 | 7 |
| #3 | .6393771 | 1.652104 | 4.643701 | 1.335147 | .2674298 | 75.78015 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .6276177 | .1593182 | .1713121 | 16.23285 | .5013428 | .2811045 | 11 |
| StdDev | .0047571 | .0010700 | .0015611 | .12656 | .0038839 | .0026403 | 12 |
| %RSD | .7579691 | .6715860 | .9112663 | .7796325 | .7747066 | .9392649 | 13 |
| #1 | .6283216 | .1599892 | .1712531 | 16.25492 | .5057983 | .2813754 | 14 |
| #2 | .6225479 | .1580843 | .1729019 | 16.09670 | .4986717 | .2835989 | 15 |
| #3 | .6319837 | .1598812 | .1697813 | 16.34691 | .4995585 | .2783391 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | 3.511660 | 168.1171 | 1.631056 | 37.74504 | .7787736 | .0479304 | |
| StdDev | .029275 | .6620 | .018167 | .28035 | .0078160 | .0005618 | |
| %RSD | .8336650 | .3937832 | 1.113840 | .7427470 | 1.003633 | 1.172175 | |
| #1 | 3.512756 | 168.5995 | 1.632727 | 37.73662 | .7793832 | .0480339 | |
| #2 | 3.540373 | 167.3623 | 1.612111 | 37.46900 | .7862670 | .0473240 | |
| #3 | 3.481852 | 168.3895 | 1.648330 | 38.02951 | .7706706 | .0484332 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 4.682522 | .5619045 | 4.488716 | 24.76173 | .3089337 | .3066847 | |
| StdDev | .017970 | .0070254 | .031713 | .07155 | .0012205 | .0019272 | |
| %RSD | .3837747 | 1.250280 | .7065008 | .2889691 | .3950858 | .6284062 | |
| #1 | 4.701010 | .5641382 | 4.524418 | 24.83479 | .3100195 | .3068298 | |
| #2 | 4.665119 | .5540339 | 4.463812 | 24.69178 | .3076126 | .3085353 | |
| #3 | 4.681439 | .5675415 | 4.477917 | 24.75861 | .3091688 | .3046890 | |

Sample Name: P5362-01MSD Acquired: 12/30/2024 15:47:31 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|------------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .8878343 | 4.112450 | 7.243596 | F 10.22243 | .6063343 | .2620109 | 5 |
| Stddev | .0089663 | .036106 | .027013 | .08019 | .0098850 | .0022787 | 6 |
| %RSD | 1.009909 | .8779676 | .3729188 | .7844108 | 1.630285 | .8697030 | 7 |
| #1 | .8879272 | 4.120377 | 7.253530 | 10.21984 | .6084749 | .2638584 | 8 |
| #2 | .8967538 | 4.073040 | 7.213023 | 10.30387 | .6149736 | .2594646 | 9 |
| #3 | .8788219 | 4.143935 | 7.264236 | 10.14356 | .5955544 | .2627097 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .0774559 | | | | | | 13 |
| Stddev | .0013585 | | | | | | 14 |
| %RSD | 1.753914 | | | | | | 15 |
| #1 | .0777312 | | | | | | 16 |
| #2 | .0759808 | | | | | | 17 |
| #3 | .0786556 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2795.900 | 61982.21 | 12919.65 | 2105.028 | 3620.487 | | |
| Stddev | 21.084 | 272.08 | 117.55 | 24.211 | 35.978 | | |
| %RSD | .7540872 | .4389701 | .9098207 | 1.150144 | .9937269 | | |
| #1 | 2798.934 | 61694.74 | 12859.50 | 2083.197 | 3619.679 | | |
| #2 | 2773.464 | 62235.72 | 13055.10 | 2131.067 | 3584.920 | | |
| #3 | 2815.302 | 62016.16 | 12844.36 | 2100.819 | 3656.862 | | |

Sample Name: P5362-01A Acquired: 12/30/2024 15:51:29 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .6665360 | 1.682277 | 4.747445 | 1.407447 | .2780274 | 74.78967 | 3 |
| StdDev | .0033287 | .011066 | .029973 | .015223 | .0033989 | .26648 | 4 |
| %RSD | .4994087 | .6578137 | .6313504 | 1.081638 | 1.222491 | .3563034 | 5 |
| #1 | .6638884 | 1.679331 | 4.730918 | 1.392126 | .2741493 | 74.87884 | 6 |
| #2 | .6654467 | 1.672982 | 4.729374 | 1.407644 | .2794445 | 74.49005 | 7 |
| #3 | .6702729 | 1.694518 | 4.782044 | 1.422572 | .2804885 | 75.00014 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .6157442 | .1556754 | .1756011 | 16.11915 | .4910152 | .2839701 | 11 |
| StdDev | .0012014 | .0007777 | .0013728 | .03928 | .0088084 | .0017806 | 12 |
| %RSD | .1951064 | .4995374 | .7817790 | .2437023 | 1.793918 | .6270460 | 13 |
| #1 | .6156323 | .1563398 | .1748581 | 16.14611 | .5006807 | .2836349 | 14 |
| #2 | .6146027 | .1548201 | .1747598 | 16.07408 | .4889251 | .2823809 | 15 |
| #3 | .6169976 | .1558664 | .1771852 | 16.13727 | .4834398 | .2858945 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | 3.587780 | 163.7672 | 1.588141 | 37.73534 | .7888113 | .0472421 | |
| StdDev | .026128 | 3.0965 | .007657 | .05677 | .0046841 | .0008388 | |
| %RSD | .7282535 | 1.890790 | .4821465 | .1504348 | .5938146 | 1.775477 | |
| #1 | 3.564295 | 167.1573 | 1.595756 | 37.77073 | .7868472 | .0482083 | |
| #2 | 3.583121 | 163.0563 | 1.580443 | 37.66987 | .7854290 | .0467017 | |
| #3 | 3.615924 | 161.0880 | 1.588224 | 37.76543 | .7941577 | .0468161 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 4.635867 | .5537432 | 4.374859 | 24.28404 | .2956269 | .3089309 | |
| StdDev | .061433 | .0036754 | .067755 | .43094 | .0043583 | .0018123 | |
| %RSD | 1.325169 | .6637388 | 1.548736 | 1.774575 | 1.474256 | .5866504 | |
| #1 | 4.705146 | .5562061 | 4.451858 | 24.73612 | .3004634 | .3075788 | |
| #2 | 4.614431 | .5495186 | 4.348369 | 24.23806 | .2944134 | .3082237 | |
| #3 | 4.588024 | .5555051 | 4.324352 | 23.87793 | .2920040 | .3109902 | |

Sample Name: P5362-01A Acquired: 12/30/2024 15:51:29 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|------------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .8986195 | 4.057358 | 7.256727 | F 10.43404 | .6355735 | .2579494 | 5 |
| Stddev | .0060159 | .014444 | .116895 | .06527 | .0059077 | .0010835 | 6 |
| %RSD | .6694604 | .3560041 | 1.610856 | .6255784 | .9295137 | .4200358 | 7 |
| #1 | .8971760 | 4.064556 | 7.390421 | 10.43389 | .6306449 | .2581555 | 8 |
| #2 | .8934566 | 4.040729 | 7.205977 | 10.36884 | .6339534 | .2567777 | 9 |
| #3 | .9052258 | 4.066789 | 7.173785 | 10.49938 | .6421223 | .2589150 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .0785094 | | | | | | 13 |
| Stddev | .0030009 | | | | | | 14 |
| %RSD | 3.822341 | | | | | | 15 |
| #1 | .0756217 | | | | | | 16 |
| #2 | .0782945 | | | | | | 17 |
| #3 | .0816119 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2720.724 | 63449.76 | 13195.42 | 2121.548 | 3527.990 | | |
| Stddev | 14.653 | 1055.57 | 39.55 | 31.959 | 20.282 | | |
| %RSD | .5385521 | 1.663628 | .2997130 | 1.506401 | .5748875 | | |
| #1 | 2734.597 | 62300.69 | 13174.92 | 2088.019 | 3537.277 | | |
| #2 | 2722.173 | 63672.20 | 13241.01 | 2124.960 | 3541.966 | | |
| #3 | 2705.400 | 64376.37 | 13170.34 | 2151.663 | 3504.728 | | |

Sample Name: P5386-01 Acquired: 12/30/2024 15:55:27 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | 1.001449 | .0002122 | .1457893 | -.036130 | .0009332 | 86.70623 | 3 |
| StdDev | .004939 | .0021434 | .0017255 | .002492 | .0001153 | 1.90172 | 4 |
| %RSD | .4931796 | 1010.139 | 1.183568 | 6.897628 | 12.35292 | 2.193296 | 5 |
| #1 | 1.001738 | .0003241 | .1477738 | -.033340 | .0010661 | 84.53517 | 6 |
| #2 | 1.006236 | -.001985 | .1446425 | -.036915 | .0008613 | 88.07715 | 7 |
| #3 | .996371 | .002297 | .1449517 | -.038136 | .0008720 | 87.50635 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .8062318 | .0094008 | -.000962 | 54.83189 | .0867229 | .0526567 | 11 |
| StdDev | .0166327 | .0002084 | .000203 | 1.24642 | .0006800 | .0009234 | 12 |
| %RSD | 2.063014 | 2.216570 | 21.13770 | 2.273174 | .7840550 | 1.753615 | 13 |
| #1 | .7874329 | .0091740 | -.000926 | 53.45317 | .0868654 | .0531834 | 14 |
| #2 | .8190367 | .0095837 | -.000779 | 55.87893 | .0859829 | .0531963 | 15 |
| #3 | .8122258 | .0094447 | -.001181 | 55.16355 | .0873203 | .0515905 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2524831 | 120.4477 | 1.242574 | 18.51689 | .1189456 | -.006972 | |
| StdDev | .0030074 | .1157 | .027661 | .46194 | .0011597 | .000301 | |
| %RSD | 1.191130 | .0960176 | 2.226127 | 2.494686 | .9750117 | 4.321472 | |
| #1 | .2541641 | 120.4919 | 1.211903 | 17.99146 | .1198107 | -.007318 | |
| #2 | .2542742 | 120.3165 | 1.265631 | 18.85915 | .1193984 | -.006830 | |
| #3 | .2490111 | 120.5348 | 1.250187 | 18.70007 | .1176278 | -.006768 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 39.58898 | .2055852 | .6802521 | 39.28099 | .0952982 | .0229512 | |
| StdDev | .25822 | .0043053 | .0018681 | .25761 | .0015285 | .0004734 | |
| %RSD | .6522566 | 2.094170 | .2746113 | .6558215 | 1.603877 | 2.062563 | |
| #1 | 39.71345 | .2006143 | .6823825 | 39.50272 | .0969536 | .0224781 | |
| #2 | 39.29210 | .2080167 | .6794794 | 38.99839 | .0939406 | .0234249 | |
| #3 | 39.76139 | .2081246 | .6788944 | 39.34185 | .0950003 | .0229506 | |

Sample Name: P5386-01 Acquired: 12/30/2024 15:55:27 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0197330 | .8848931 | F 11.02625 | 8.347768 | 2.259619 | .0207622 | 5 |
| Stddev | .0003563 | .0211737 | .11870 | .115424 | .026848 | .0011675 | 6 |
| %RSD | 1.805575 | 2.392794 | 1.076509 | 1.382691 | 1.188179 | 5.623099 | 7 |
| #1 | .0201414 | .8610913 | 10.88977 | 8.397043 | 2.280096 | .0195788 | 8 |
| #2 | .0194860 | .9016344 | 11.10540 | 8.430376 | 2.269538 | .0207947 | 9 |
| #3 | .0195715 | .8919536 | 11.08357 | 8.215885 | 2.229222 | .0219130 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .9066089 | | | | | | 13 |
| Stddev | .0194330 | | | | | | 14 |
| %RSD | 2.143480 | | | | | | 15 |
| #1 | .8886601 | | | | | | 16 |
| #2 | .9272461 | | | | | | 17 |
| #3 | .9039205 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2942.875 | 65659.83 | 14439.13 | 2195.543 | 3583.923 | | |
| Stddev | 19.415 | 271.81 | 287.41 | 10.098 | 33.369 | | |
| %RSD | .6597332 | .4139703 | 1.990517 | .4599429 | .9310859 | | |
| #1 | 2933.197 | 65365.46 | 14753.85 | 2184.096 | 3567.618 | | |
| #2 | 2930.202 | 65901.30 | 14190.55 | 2203.190 | 3561.840 | | |
| #3 | 2965.227 | 65712.74 | 14372.98 | 2199.343 | 3622.309 | | |

Sample Name: P5386-03 Acquired: 12/30/2024 15:59:42 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0027068 | -.005173 | .6017286 | -.002696 | .0114275 | 2.370848 | .1776649 |
| StdDev | .0024793 | .001088 | .0027386 | .001212 | .0004629 | .050572 | .0037694 |
| %RSD | 91.59208 | 21.03424 | .4551247 | 44.97516 | 4.050363 | 2.133093 | 2.121618 |
| #1 | .0007865 | -.005968 | .6034890 | -.001302 | .0117603 | 2.396853 | .1785161 |
| #2 | .0018283 | -.003933 | .5985734 | -.003276 | .0108989 | 2.403126 | .1809359 |
| #3 | .0055058 | -.005618 | .6031235 | -.003509 | .0116232 | 2.312565 | .1735428 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0004979 | .0007874 | 12.17894 | .0568234 | .0045158 | .2832367 | 15.68986 |
| StdDev | .0000134 | .0000323 | .26311 | .0003922 | .0001475 | .0010240 | .05495 |
| %RSD | 2.688758 | 4.105418 | 2.160358 | .6901989 | 3.265123 | .3615350 | .3502146 |
| #1 | .0005003 | .0007547 | 12.24359 | .0572308 | .0045244 | .2838370 | 15.69143 |
| #2 | .0004835 | .0007881 | 12.40369 | .0564484 | .0043643 | .2820543 | 15.63414 |
| #3 | .0005100 | .0008193 | 11.88953 | .0567910 | .0046588 | .2838187 | 15.74400 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .1661231 | 4.364644 | .0209544 | -.000358 | 10.58930 | .0250564 | .7944735 |
| StdDev | .0039825 | .085410 | .0001017 | .000259 | .05749 | .0006514 | .0037546 |
| %RSD | 2.397294 | 1.956858 | .4852932 | 72.43175 | .5429276 | 2.599778 | .4725950 |
| #1 | .1669195 | 4.390848 | .0208504 | -.000156 | 10.65293 | .0244630 | .7973722 |
| #2 | .1696473 | 4.433881 | .0209593 | -.000267 | 10.54109 | .0257534 | .7902322 |
| #3 | .1618027 | 4.269202 | .0210536 | -.000650 | 10.57389 | .0249527 | .7958163 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .7766989 | .0087955 | .0099453 | .0233728 | .0893453 | 1.893319 | .3972779 |
| StdDev | .0148245 | .0001318 | .0003865 | .0011694 | .0058570 | .006730 | .0009026 |
| %RSD | 1.908659 | 1.498354 | 3.886492 | 5.003239 | 6.555463 | .3554431 | .2271919 |
| #1 | .7623717 | .0086437 | .0099435 | .0245063 | .0872363 | 1.900187 | .3970085 |
| #2 | .7919752 | .0088808 | .0103327 | .0221705 | .0959647 | 1.886736 | .3965406 |
| #3 | .7757496 | .0088619 | .0095596 | .0234417 | .0848348 | 1.893035 | .3982845 |

Sample Name: P5386-03 Acquired: 12/30/2024 15:59:42 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | 2.119363 | .0005301 | .0241290 | |
| StdDev | .011918 | .0005915 | .0009081 | |
| %RSD | .5623423 | 111.5748 | 3.763564 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 2.124024 | .0007931 | .0244269 | |
| #2 | 2.105819 | .0009445 | .0248508 | |
| #3 | 2.128246 | -.000147 | .0231094 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2480.343 | 57354.67 | 12407.37 | 1889.626 | 3650.800 |
| StdDev | 4.831 | 300.89 | 244.43 | 8.757 | 10.168 |
| %RSD | .1947514 | .5246168 | 1.970074 | .4634038 | .2785037 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2475.108 | 57103.00 | 12316.90 | 1881.144 | 3645.664 |
| #2 | 2484.628 | 57687.95 | 12221.08 | 1898.633 | 3662.511 |
| #3 | 2481.293 | 57273.05 | 12684.15 | 1889.100 | 3644.225 |

Sample Name: P5318-01 Acquired: 12/30/2024 16:03:56 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0858738 | .0010897 | .6960037 | -.062219 | -.002324 | 72.10330 | .4803493 |
| StdDev | .0011238 | .0027224 | .0089982 | .006558 | .001893 | .26120 | .0008625 |
| %RSD | 1.308686 | 249.8330 | 1.292842 | 10.53961 | 81.45361 | .3622633 | .1795613 |
| #1 | .0846261 | -.001224 | .6902680 | -.061232 | -.004501 | 72.32176 | .4810567 |
| #2 | .0868065 | .004089 | .6913686 | -.056211 | -.001060 | 71.81398 | .4806028 |
| #3 | .0861890 | .000404 | .7063745 | -.069214 | -.001412 | 72.17415 | .4793885 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0067343 | -.007312 | 149.5671 | .2259273 | .0453228 | .1962998 | 201.2920 |
| StdDev | .0000445 | .000323 | .4744 | .0018037 | .0005078 | .0027301 | 1.6102 |
| %RSD | .6605796 | 4.417063 | .3171898 | .7983411 | 1.120354 | 1.390767 | .7999499 |
| #1 | .0066989 | -.006993 | 150.0644 | .2254989 | .0452952 | .1951919 | 200.1960 |
| #2 | .0067842 | -.007639 | 149.1195 | .2243764 | .0448294 | .1942979 | 200.5392 |
| #3 | .0067197 | -.007303 | 149.5174 | .2279066 | .0458438 | .1994097 | 203.1407 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .9960620 | 42.49808 | .0907764 | -.018258 | 3.422582 | .3267278 | .5702567 |
| StdDev | .0055453 | .04569 | .0012708 | .000379 | .025701 | .0016836 | .0047215 |
| %RSD | .5567207 | .1075063 | 1.399896 | 2.077565 | .7509230 | .5152894 | .8279623 |
| #1 | 1.002432 | 42.53083 | .0905455 | -.017821 | 3.402018 | .3286678 | .5687292 |
| #2 | .993444 | 42.51751 | .0896369 | -.018492 | 3.414334 | .3256501 | .5664880 |
| #3 | .992310 | 42.44588 | .0921468 | -.018463 | 3.451395 | .3258654 | .5755528 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 10.76451 | .1724218 | .0073836 | .0179347 | 1.336597 | 9.611452 | 3.777174 |
| StdDev | .10718 | .0021044 | .0001638 | .0010601 | .003916 | .079868 | .051099 |
| %RSD | .9956953 | 1.220526 | 2.218121 | 5.910984 | .2930111 | .8309623 | 1.352848 |
| #1 | 10.72124 | .1708690 | .0072704 | .0180220 | 1.340894 | 9.566972 | 3.736835 |
| #2 | 10.68573 | .1715794 | .0073090 | .0168336 | 1.333227 | 9.563728 | 3.760052 |
| #3 | 10.88656 | .1748170 | .0075714 | .0189485 | 1.335672 | 9.703656 | 3.834636 |

Sample Name: P5318-01 Acquired: 12/30/2024 16:03:56 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| ELEM | S_1820 | Li6707 | Sr4077 | | | 1 |
| UNITS | ppm | ppm | ppm | | | 2 |
| Avg | 7.056881 | .0314282 | .3378257 | | | 3 |
| StdDev | .077136 | .0004700 | .0026191 | | | 4 |
| %RSD | 1.093065 | 1.495561 | .7752716 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 7.009733 | .0310937 | .3404460 | | | 6 |
| #2 | 7.015011 | .0312253 | .3378233 | | | 7 |
| #3 | 7.145898 | .0319656 | .3352079 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2620.980 | 57647.42 | 12735.22 | 1918.224 | 3586.784 | 11 |
| StdDev | 20.760 | 527.21 | 52.12 | 16.684 | 33.336 | 12 |
| %RSD | .7920636 | .9145345 | .4092451 | .8697821 | .9294241 | 13 |
| #1 | 2631.175 | 57962.00 | 12691.93 | 1929.993 | 3607.071 | 14 |
| #2 | 2634.671 | 57941.48 | 12793.07 | 1925.549 | 3604.973 | 15 |
| #3 | 2597.093 | 57038.77 | 12720.66 | 1899.130 | 3548.310 | 16 |

Sample Name: P5387-01 Acquired: 12/30/2024 16:08:01 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .1276739 | -.030046 | .4147842 | -.136773 | -.017328 | 228.9193 | 1.234142 |
| StdDev | .0060964 | .004024 | .0010274 | .001156 | .004018 | 1.3176 | .002333 |
| %RSD | 4.775003 | 13.39193 | .2477035 | .8451828 | 23.18712 | .5755847 | .1890265 |
| #1 | .1302574 | -.034239 | .4158333 | -.136351 | -.013051 | 229.8050 | 1.236768 |
| #2 | .1320531 | -.026216 | .4147393 | -.135887 | -.017910 | 229.5477 | 1.233348 |
| #3 | .1207111 | -.029684 | .4137799 | -.138081 | -.021023 | 227.4051 | 1.232309 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0168760 | -.003410 | 53.83711 | .4792305 | .3001089 | .6670584 | 406.9471 |
| StdDev | .0001297 | .000406 | .27749 | .0032394 | .0004449 | .0015854 | .7035 |
| %RSD | .7682842 | 11.91692 | .5154295 | .6759497 | .1482337 | .2376736 | .1728665 |
| #1 | .0169747 | -.003735 | 53.96865 | .4826578 | .2999568 | .6671517 | 406.9454 |
| #2 | .0169242 | -.003541 | 54.02438 | .4788145 | .3006099 | .6654284 | 407.6515 |
| #3 | .0167292 | -.002955 | 53.51831 | .4762193 | .2997601 | .6685951 | 406.2445 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 8.901114 | 122.0346 | .4898252 | -.042478 | 18.47789 | .7649178 | .8307265 |
| StdDev | .047143 | .6026 | .0005052 | .000343 | .04887 | .0028477 | .0030931 |
| %RSD | .5296333 | .4938200 | .1031390 | .8083946 | .2644912 | .3722938 | .3723401 |
| #1 | 8.935800 | 122.2769 | .4893142 | -.042831 | 18.52654 | .7670066 | .8336624 |
| #2 | 8.920105 | 122.4785 | .4903244 | -.042457 | 18.42880 | .7660729 | .8310202 |
| #3 | 8.847437 | 121.3486 | .4898369 | -.042145 | 18.47833 | .7616740 | .8274970 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 58.65439 | .3982192 | .0019389 | .0219869 | 7.058512 | 4.961227 | 9.792575 |
| StdDev | .21784 | .0013145 | .0002940 | .0017867 | .029523 | .015704 | .016004 |
| %RSD | .3713886 | .3300989 | 15.16357 | .8126245 | .4182614 | .3165250 | .1634320 |
| #1 | 58.85797 | .3982416 | .0017313 | .0240404 | 7.081285 | 4.978298 | 9.774961 |
| #2 | 58.42466 | .3995224 | .0022754 | .0207878 | 7.069096 | 4.957988 | 9.796537 |
| #3 | 58.68054 | .3968936 | .0018101 | .0211324 | 7.025156 | 4.947396 | 9.806225 |

Sample Name: P5387-01 Acquired: 12/30/2024 16:08:01 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 1.778433 | .4166869 | .0489704 | | | 3 |
| Stddev | .005872 | .0009581 | .0010959 | | | 4 |
| %RSD | .3301823 | .2299254 | 2.237968 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 1.774637 | .4177837 | .0501802 | | | 6 |
| #2 | 1.775465 | .4162635 | .0480438 | | | 7 |
| #3 | 1.785196 | .4160135 | .0486873 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 3065.733 | 69827.38 | 15443.37 | 2343.919 | 3344.124 | 11 |
| Stddev | 7.878 | 270.03 | 102.44 | 13.268 | 3.789 | 12 |
| %RSD | .2569703 | .3867044 | .6633263 | .5660422 | .1132943 | 13 |

| | | | | | | |
|----|----------|----------|----------|----------|----------|----|
| #1 | 3073.260 | 69632.96 | 15394.33 | 2335.658 | 3348.424 | 14 |
| #2 | 3066.395 | 69713.48 | 15374.67 | 2336.876 | 3342.675 | 15 |
| #3 | 3057.545 | 70135.69 | 15561.11 | 2359.223 | 3341.274 | 16 |

Sample Name: CCV03 Acquired: 12/30/2024 16:12:22 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | 4.847864 | 4.811483 | 4.832755 | 4.957893 | 4.905227 | 9.264407 | 9.204600 | 3 |
| StdDev | .018307 | .065695 | .025561 | .026358 | .010216 | .147853 | .117687 | 4 |
| %RSD | .3776403 | 1.365377 | .5289079 | .5316278 | .2082576 | 1.595926 | 1.278562 | 5 |
| #1 | 4.867887 | 4.880551 | 4.862086 | 4.985480 | 4.911668 | 9.253487 | 9.171825 | 6 |
| #2 | 4.831980 | 4.749782 | 4.815234 | 4.932967 | 4.893448 | 9.122316 | 9.106776 | 7 |
| #3 | 4.843726 | 4.804118 | 4.820946 | 4.955230 | 4.910564 | 9.417417 | 9.335201 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .2415094 | 2.458042 | 23.71540 | .9804228 | 2.409699 | 1.208368 | 4.743182 | 11 |
| StdDev | .0025013 | .011128 | .35175 | .0059444 | .012769 | .004247 | .013085 | 12 |
| %RSD | 1.035713 | .4527101 | 1.483202 | .6063054 | .5299189 | .3515043 | .2758750 | 13 |
| #1 | .2425997 | 2.470665 | 23.69403 | .9862110 | 2.424439 | 1.213241 | 4.758168 | 14 |
| #2 | .2386479 | 2.449653 | 23.37483 | .9807235 | 2.402657 | 1.205456 | 4.734020 | 15 |
| #3 | .2432805 | 2.453808 | 24.07735 | .9743337 | 2.402001 | 1.206405 | 4.737357 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 2.331954 | 24.10446 | 2.419626 | 1.201745 | 23.13694 | 2.351722 | 2.370667 | |
| StdDev | .033906 | .28919 | .012136 | .005095 | .10432 | .035066 | .011290 | |
| %RSD | 1.453977 | 1.199716 | .5015726 | .4239492 | .4508755 | 1.491069 | .4762489 | |
| #1 | 2.341107 | 24.04274 | 2.433609 | 1.207483 | 23.23427 | 2.355717 | 2.381064 | |
| #2 | 2.294412 | 23.85112 | 2.413429 | 1.199999 | 23.02681 | 2.314829 | 2.358657 | |
| #3 | 2.360345 | 24.41952 | 2.411839 | 1.197752 | 23.14974 | 2.384618 | 2.372279 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 23.26267 | 4.751327 | 4.786860 | 4.841489 | 4.657858 | 4.706953 | 4.963890 | |
| StdDev | .11830 | .047677 | .017943 | .028069 | .066125 | .014165 | .050679 | |
| %RSD | .5085270 | 1.003452 | .3748289 | .5797655 | 1.419654 | .3009385 | 1.020961 | |
| #1 | 23.36967 | 4.755107 | 4.807246 | 4.873600 | 4.660425 | 4.708745 | 5.020991 | |
| #2 | 23.13563 | 4.701872 | 4.773466 | 4.821614 | 4.590486 | 4.691978 | 4.946430 | |
| #3 | 23.28270 | 4.797001 | 4.779869 | 4.829254 | 4.722662 | 4.720137 | 4.924250 | |

Sample Name: CCV03 Acquired: 12/30/2024 16:12:22 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | 4.834226 | 4.542410 | 4.671783 | |
| StdDev | .036841 | .069598 | .049877 | |
| %RSD | .7620965 | 1.532172 | 1.067624 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 4.875494 | 4.543673 | 4.667211 | |
| #2 | 4.804647 | 4.472189 | 4.624349 | |
| #3 | 4.822537 | 4.611367 | 4.723788 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2465.925 | 57090.24 | 11455.05 | 1890.605 | 3576.379 |
| StdDev | 7.581 | 253.95 | 141.52 | 11.664 | 16.465 |
| %RSD | .3074181 | .4448191 | 1.235453 | .6169519 | .4603899 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2457.251 | 56797.84 | 11430.86 | 1879.186 | 3558.542 |
| #2 | 2469.237 | 57255.50 | 11607.11 | 1902.499 | 3579.596 |
| #3 | 2471.285 | 57217.40 | 11327.18 | 1890.130 | 3590.998 |

Sample Name: CCB03 Acquired: 12/30/2024 16:16:33 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0011972 | -.002369 | -.000085 | -.001065 | -.001841 | -.002572 | .0005596 |
| StdDev | .0015165 | .001950 | .000282 | .001675 | .001309 | .001855 | .0001987 |
| %RSD | 126.6769 | 82.30106 | 329.7508 | 157.3142 | 71.12678 | 72.09790 | 35.49794 |
| #1 | -.000022 | -.004501 | -.000302 | .000840 | -.003163 | -.001492 | .0006154 |
| #2 | .000719 | -.001932 | -.000188 | -.002310 | -.000545 | -.001511 | .0003390 |
| #3 | .002895 | -.000675 | .000233 | -.001725 | -.001815 | -.004714 | .0007244 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000219 | .0001408 | -.002265 | .0001622 | -.000132 | -.000429 | .0119508 |
| StdDev | .0000208 | .0001185 | .004059 | .0000270 | .000123 | .000039 | .0017571 |
| %RSD | 94.96422 | 84.15903 | 179.1870 | 16.64790 | 93.26560 | 9.105577 | 14.70270 |
| #1 | .0000429 | .0000687 | -.001826 | .0001327 | -.000251 | -.000384 | .0138474 |
| #2 | .0000013 | .0002776 | .001556 | .0001682 | -.000006 | -.000452 | .0103783 |
| #3 | .0000216 | .0000762 | -.006526 | .0001857 | -.000138 | -.000451 | .0116269 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.000980 | -.007067 | -.000183 | .0005039 | .0134584 | -.000063 | -.000202 |
| StdDev | .000083 | .008383 | .000123 | .0002585 | .0070912 | .000884 | .000076 |
| %RSD | 8.445016 | 118.6204 | 67.36287 | 51.30294 | 52.68988 | 1412.857 | 37.85825 |
| #1 | -.000896 | -.016744 | -.000162 | .0007795 | .0066903 | -.000828 | -.000242 |
| #2 | -.000981 | -.002027 | -.000316 | .0004651 | .0128512 | -.000266 | -.000249 |
| #3 | -.001062 | -.002430 | -.000072 | .0002670 | .0208336 | .000906 | -.000114 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0048358 | -.000072 | .0002719 | .0033866 | .0008042 | -.005932 | -.000703 |
| StdDev | .0239049 | .000270 | .0002077 | .0005704 | .0003833 | .002691 | .000526 |
| %RSD | 494.3312 | 374.7825 | 76.37230 | 16.84213 | 47.65950 | 45.35789 | 74.92149 |
| #1 | .0110217 | -.000370 | .0005116 | .0027407 | .0012325 | -.006982 | -.000127 |
| #2 | -.021554 | -.000002 | .0001473 | .0038211 | .0004935 | -.007939 | -.000821 |
| #3 | .025040 | .000156 | .0001568 | .0035981 | .0006867 | -.002875 | -.001160 |

Sample Name: CCB03 Acquired: 12/30/2024 16:16:33 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.000793 | -.000343 | .0000882 | |
| Stddev | .001516 | .000996 | .0000271 | |
| %RSD | 191.1002 | 290.1341 | 30.70207 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.000149 | -.000687 | .0001149 | |
| #2 | -.002525 | .000779 | .0000890 | |
| #3 | .000294 | -.001121 | .0000607 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2551.749 | 59719.39 | 12163.83 | 1983.379 | 3745.625 |
| Stddev | 14.060 | 334.66 | 8.58 | 10.916 | 17.857 |
| %RSD | .5509894 | .5603941 | .0705518 | .5503606 | .4767561 |
| #1 | 2564.750 | 59487.26 | 12155.57 | 1975.324 | 3760.644 |
| #2 | 2536.827 | 60103.02 | 12163.23 | 1995.803 | 3725.880 |
| #3 | 2553.668 | 59567.91 | 12172.70 | 1979.011 | 3750.352 |

Sample Name: PB165863BL Acquired: 12/30/2024 16:20:54 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0013647 | -.001023 | .0000101 | .0004168 | -.000691 | -.003707 | .0002248 | 3 |
| StdDev | .0013166 | .001063 | .0009657 | .0031964 | .000336 | .003431 | .0006821 | 4 |
| %RSD | 96.47778 | 103.9145 | 9568.051 | 766.8070 | 48.61631 | 92.56030 | 303.3572 | 5 |
| #1 | .0011118 | -.001661 | .0004617 | -.003054 | -.000341 | -.000430 | .0003689 | 6 |
| #2 | .0001928 | -.001611 | -.001099 | .001064 | -.000723 | -.007274 | .0008234 | 7 |
| #3 | .0027893 | .000204 | .000667 | .003240 | -.001011 | -.003417 | -.000518 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000255 | .0000962 | -.006241 | -.000495 | .0000442 | -.000423 | -.001253 | 11 |
| StdDev | .0000112 | .0000390 | .003076 | .000391 | .0001164 | .000299 | .001567 | 12 |
| %RSD | 43.78357 | 40.56683 | 49.28842 | 78.90248 | 263.4933 | 70.77802 | 125.0690 | 13 |
| #1 | .0000287 | .0000515 | -.009313 | -.000273 | .0000745 | -.000630 | .000549 | 14 |
| #2 | .0000131 | .0001233 | -.006250 | -.000267 | -.000084 | -.000080 | -.002296 | 15 |
| #3 | .0000347 | .0001139 | -.003161 | -.000947 | .000142 | -.000558 | -.002013 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.000137 | -.008113 | .0003623 | .0002838 | .0328847 | .0011677 | -.000413 | |
| StdDev | .000230 | .005826 | .0001325 | .0001264 | .0061072 | .0005627 | .000156 | |
| %RSD | 168.4181 | 71.80957 | 36.57703 | 44.55148 | 18.57168 | 48.19006 | 37.80557 | |
| #1 | -.000256 | -.009958 | .0002144 | .0001403 | .0330626 | .0015297 | -.000237 | |
| #2 | -.000282 | -.012794 | .0004702 | .0003788 | .0389010 | .0014541 | -.000469 | |
| #3 | .000129 | -.001588 | .0004024 | .0003322 | .0266904 | .0005194 | -.000534 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .0689504 | -.002218 | -.000086 | -.000117 | -.000080 | -.001567 | -.001602 | |
| StdDev | .0023375 | .000301 | .000394 | .000118 | .000211 | .004650 | .000262 | |
| %RSD | 3.390121 | 13.58975 | 460.8220 | 100.8359 | 263.3329 | 296.6652 | 16.35550 | |
| #1 | .0704667 | -.001910 | .000279 | -.000014 | -.000318 | -.006045 | -.001364 | |
| #2 | .0662584 | -.002231 | -.000032 | -.000247 | .000083 | .003237 | -.001560 | |
| #3 | .0701261 | -.002513 | -.000503 | -.000092 | -.000005 | -.001893 | -.001883 | |

Sample Name: PB165863BL Acquired: 12/30/2024 16:20:54 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .0003258 | -.000969 | -.000011 | |
| Stddev | .0017326 | .000950 | .000015 | |
| %RSD | 531.7702 | 98.10703 | 134.3313 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .0003477 | -.000216 | -.000009 | |
| #2 | -.001418 | -.000653 | .000002 | |
| #3 | .002047 | -.002037 | -.000027 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2583.170 | 57984.29 | 12036.01 | 1953.748 | 3809.192 |
| Stddev | 9.081 | 221.48 | 121.13 | 9.336 | 12.053 |
| %RSD | .3515428 | .3819712 | 1.006426 | .4778743 | .3164062 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2592.653 | 57737.06 | 12043.72 | 1943.608 | 3819.874 |
| #2 | 2582.302 | 58164.57 | 11911.20 | 1961.988 | 3811.578 |
| #3 | 2574.554 | 58051.26 | 12153.10 | 1955.651 | 3796.126 |

Sample Name: PB165863BS Acquired: 12/30/2024 16:25:14 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7860459 | 1.885377 | .9615738 | 1.946179 | .7615206 | 1.779763 | 3 |
| StdDev | .0038290 | .004894 | .0025642 | .008699 | .0018665 | .014038 | 4 |
| %RSD | .4871248 | .2595921 | .2666711 | .4469973 | .2451009 | .7887327 | 5 |
| #1 | .7856990 | 1.891002 | .9612641 | 1.951433 | .7607281 | 1.781542 | 6 |
| #2 | .7824020 | 1.882095 | .9591784 | 1.936138 | .7601812 | 1.792827 | 7 |
| #3 | .7900365 | 1.883034 | .9642787 | 1.950967 | .7636526 | 1.764921 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1778341 | .1961050 | .1992073 | .9433556 | .4012915 | .1946369 | 11 |
| StdDev | .0014148 | .0007249 | .0008996 | .0036627 | .0013602 | .0006997 | 12 |
| %RSD | .7955670 | .3696509 | .4515719 | .3882658 | .3389553 | .3594882 | 13 |
| #1 | .1782046 | .1957859 | .1995760 | .9429543 | .4026553 | .1945766 | 14 |
| #2 | .1790268 | .1969347 | .1981819 | .9472024 | .4012842 | .1939692 | 15 |
| #3 | .1762709 | .1955945 | .1998639 | .9399099 | .3999349 | .1953647 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2944777 | 2.893017 | .1877063 | 1.894200 | .4921426 | .0751024 | |
| StdDev | .0016318 | .018802 | .0014090 | .005277 | .0023508 | .0000949 | |
| %RSD | .5541407 | .6499084 | .7506574 | .2785879 | .4776592 | .1263761 | |
| #1 | .2944700 | 2.901412 | .1882586 | 1.900281 | .4924344 | .0751300 | |
| #2 | .2928497 | 2.906159 | .1887555 | 1.890831 | .4896596 | .0749967 | |
| #3 | .2961134 | 2.871480 | .1861048 | 1.891487 | .4943339 | .0751804 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.711434 | .2784745 | .1957279 | 8.868763 | .2827792 | .3829703 | |
| StdDev | .017169 | .0012294 | .0019378 | .076898 | .0014098 | .0015031 | |
| %RSD | .6332074 | .4414808 | .9900300 | .8670634 | .4985500 | .3924902 | |
| #1 | 2.714657 | .2786396 | .1970744 | 8.883233 | .2812243 | .3832382 | |
| #2 | 2.726764 | .2796131 | .1966023 | 8.937398 | .2839740 | .3813512 | |
| #3 | 2.692883 | .2771709 | .1935070 | 8.785658 | .2831393 | .3843215 | |

Sample Name: PB165863BS Acquired: 12/30/2024 16:25:14 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6796551 | .1824103 | F .6910390 | 5.903310 | F -.011505 | .1833207 | 5 |
| Stddev | .0045844 | .0004047 | .0014111 | .020734 | .002309 | .0019844 | 6 |
| %RSD | .6745177 | .2218823 | .2041934 | .3512247 | 20.06654 | 1.082486 | 7 |
| #1 | .6811284 | .1823576 | .6897688 | 5.914889 | -.010353 | .1840093 | 8 |
| #2 | .6745151 | .1828388 | .6907904 | 5.879373 | -.010000 | .1848691 | 9 |
| #3 | .6833217 | .1820345 | .6925578 | 5.915669 | -.014163 | .1810837 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .1807046 | | | | | | 13 |
| Stddev | .0010885 | | | | | | 14 |
| %RSD | .6023648 | | | | | | 15 |
| #1 | .1806055 | | | | | | 16 |
| #2 | .1818392 | | | | | | 17 |
| #3 | .1796690 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2547.517 | 58906.48 | 11683.66 | 1986.023 | 3723.343 | | |
| Stddev | 12.419 | 261.93 | 32.71 | 9.923 | 17.021 | | |
| %RSD | .4874864 | .4446490 | .2799867 | .4996450 | .4571389 | | |
| #1 | 2551.453 | 58669.86 | 11692.27 | 1977.727 | 3729.247 | | |
| #2 | 2557.490 | 58861.65 | 11647.51 | 1983.327 | 3736.626 | | |
| #3 | 2533.607 | 59187.92 | 11711.21 | 1997.016 | 3704.157 | | |

Sample Name: P5362-02 Acquired: 12/30/2024 16:29:14 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|-----------|-----------|----------|----------|-----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | -0.002633 | -0.007281 | .0861274 | .0027591 | -0.000088 | .0770766 | .1282643 | 3 |
| StdDev | .001299 | .001439 | .0008059 | .0033185 | .001061 | .0070441 | .0015929 | 4 |
| %RSD | 49.34856 | 19.75662 | .9356705 | 120.2750 | 1211.500 | 9.139050 | 1.241909 | 5 |
| #1 | -0.002996 | -0.005620 | .0870570 | .0065628 | -.001305 | .0807957 | .1286556 | 6 |
| #2 | -0.003711 | -0.008106 | .0856977 | .0004564 | .000400 | .0814818 | .1296251 | 7 |
| #3 | -0.001190 | -0.008118 | .0856274 | .0012580 | .000642 | .0689525 | .1265122 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | -0.000002 | .0007416 | 3.815699 | .0006358 | .0050551 | .1591494 | .0619333 | 11 |
| StdDev | .0000032 | .0001025 | .018510 | .0002226 | .0000703 | .0011420 | .0059043 | 12 |
| %RSD | 1534.039 | 13.81442 | .4850969 | 35.01402 | 1.391059 | .7175733 | 9.533348 | 13 |
| #1 | .0000022 | .0007082 | 3.819046 | .0008202 | .0051273 | .1578326 | .0615170 | 14 |
| #2 | .0000010 | .0006600 | 3.832307 | .0006989 | .0049868 | .1598680 | .0680348 | 15 |
| #3 | -.0000039 | .0008566 | 3.795744 | .0003885 | .0050513 | .1597477 | .0562482 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .1080560 | .4267917 | .0046805 | .0001635 | 283.6147 | .0001554 | .2173249 | |
| StdDev | .0011404 | .0115202 | .0004019 | .0003803 | 9.4155 | .0009239 | .0094888 | |
| %RSD | 1.055404 | 2.699264 | 8.586360 | 232.5413 | 3.319821 | 594.5959 | 4.366159 | |
| #1 | .1089099 | .4155541 | .0042238 | .0005762 | 281.3654 | .0005448 | .2158052 | |
| #2 | .1084973 | .4385752 | .0048377 | -.000173 | 293.9512 | .0008208 | .2274819 | |
| #3 | .1067609 | .4262459 | .0049801 | .000087 | 275.5277 | -.000899 | .2086878 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | .9602749 | .0058047 | -.000066 | .0006791 | .0016611 | .3441409 | .0167298 | |
| StdDev | .0263963 | .0008284 | .000286 | .0006906 | .0005326 | .0146403 | .0012851 | |
| %RSD | 2.748822 | 14.27070 | 430.3198 | 101.6879 | 32.06365 | 4.254142 | 7.681423 | |
| #1 | .9735983 | .0051086 | .000249 | .0001070 | .0018446 | .3538217 | .0170120 | |
| #2 | .9773540 | .0067209 | -.000310 | .0014462 | .0020776 | .3513026 | .0153270 | |
| #3 | .9298724 | .0055845 | -.000138 | .0004841 | .0010610 | .3272985 | .0178502 | |

Sample Name: P5362-02 Acquired: 12/30/2024 16:29:14 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| ELEM | S_1820 | Li6707 | Sr4077 | | | 1 |
| UNITS | ppm | ppm | ppm | | | 2 |
| Avg | .4305263 | -.002216 | .0269521 | | | 3 |
| StdDev | .0024837 | .000762 | .0002256 | | | 4 |
| %RSD | .5768893 | 34.40796 | .8369575 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .4293998 | -.002138 | .0271564 | | | 6 |
| #2 | .4333736 | -.001495 | .0269899 | | | 7 |
| #3 | .4288056 | -.003014 | .0267100 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2512.670 | 54935.07 | 11410.84 | 1868.430 | 3619.245 | 11 |
| StdDev | 16.210 | 1791.79 | 57.85 | 68.006 | 25.403 | 12 |
| %RSD | .6451219 | 3.261649 | .5069385 | 3.639760 | .7018823 | 13 |
| #1 | 2531.287 | 55073.98 | 11416.08 | 1876.943 | 3646.076 | 14 |
| #2 | 2501.682 | 53077.87 | 11350.55 | 1796.568 | 3595.564 | 15 |
| #3 | 2505.042 | 56653.36 | 11465.88 | 1931.780 | 3616.094 | 16 |

Sample Name: P5380-02 Acquired: 12/30/2024 16:33:39 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .005435 | -.007929 | .0300771 | .0040768 | .0024404 | .3139243 | .0731108 | 3 |
| StdDev | .002295 | .002115 | .0009596 | .0020356 | .0019818 | .0047594 | .0004955 | 4 |
| %RSD | 42.22664 | 26.66684 | 3.190594 | 49.93263 | 81.20875 | 1.516111 | .6777622 | 5 |
| #1 | -.006604 | -.006249 | .0290286 | .0064123 | .0013566 | .3098222 | .0732303 | 6 |
| #2 | -.006910 | -.007236 | .0309118 | .0031387 | .0012368 | .3128082 | .0725664 | 7 |
| #3 | -.002791 | -.010304 | .0302910 | .0026793 | .0047278 | .3191427 | .0735356 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000208 | -.000164 | 11.54528 | .0050749 | .0005168 | .0275485 | .5057099 | 11 |
| StdDev | .0000611 | .000086 | .02804 | .0000663 | .0003465 | .0000540 | .0028359 | 12 |
| %RSD | 294.4306 | 52.25844 | .2428641 | 1.307152 | 67.05166 | .1959685 | .5607754 | 13 |
| #1 | .0000413 | -.000092 | 11.52521 | .0051515 | .0007051 | .0275740 | .5029310 | 14 |
| #2 | .0000689 | -.000258 | 11.53330 | .0050343 | .0001169 | .0275851 | .5055989 | 15 |
| #3 | -.000048 | -.000141 | 11.57731 | .0050389 | .0007283 | .0274865 | .5085996 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .0439444 | .6201925 | .0035941 | .0001089 | 284.3184 | .0021948 | .0530759 | |
| StdDev | .0001939 | .0035738 | .0001323 | .0003642 | 2.3506 | .0011889 | .0006212 | |
| %RSD | .4412328 | .5762379 | 3.680234 | 334.4545 | .8267502 | 54.17093 | 1.170335 | |
| #1 | .0441525 | .6214362 | .0035418 | .0004793 | 283.9924 | .0015243 | .0527127 | |
| #2 | .0439117 | .6229783 | .0037446 | .0000963 | 286.8150 | .0014925 | .0537931 | |
| #3 | .0437688 | .6161631 | .0034960 | -.000249 | 282.1478 | .0035675 | .0527219 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .3243862 | .0050462 | .0002882 | -.000001 | .0017534 | 1.490307 | .0073707 | |
| StdDev | .0296825 | .0002028 | .0001021 | .000588 | .0003645 | .020022 | .0011251 | |
| %RSD | 9.150361 | 4.019443 | 35.42759 | 97227.74 | 20.78919 | 1.343483 | 15.26476 | |
| #1 | .2977536 | .0048962 | .0003624 | -.000212 | .0019613 | 1.486133 | .0064393 | |
| #2 | .3190188 | .0049654 | .0001718 | -.000454 | .0013325 | 1.512087 | .0086208 | |
| #3 | .3563862 | .0052769 | .0003306 | .000664 | .0019663 | 1.472701 | .0070520 | |

Sample Name: P5380-02 Acquired: 12/30/2024 16:33:39 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|--|--|--|---|
| ELEM | S_1820 | Li6707 | Sr4077 | | | | 1 |
| UNITS | ppm | ppm | ppm | | | | 2 |
| Avg | .5281914 | -.003316 | .0149530 | | | | 3 |
| StdDev | .0053751 | .000208 | .0000559 | | | | 4 |
| %RSD | 1.017651 | 6.285804 | .3740284 | | | | 5 |

| | | | | | | | |
|----|----------|----------|----------|--|--|--|---|
| #1 | .5337961 | -.003087 | .0149974 | | | | 6 |
| #2 | .5230798 | -.003365 | .0148902 | | | | 7 |
| #3 | .5276983 | -.003496 | .0149715 | | | | 8 |

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|--|----|
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 9 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 10 |
| Avg | 2403.871 | 53952.12 | 11680.34 | 1831.108 | 3415.345 | | 11 |
| StdDev | 5.758 | 410.79 | 29.48 | 10.684 | 11.583 | | 12 |
| %RSD | .2395374 | .7614047 | .2523580 | .5834536 | .3391411 | | 13 |
| #1 | 2399.001 | 53963.94 | 11701.76 | 1827.009 | 3403.987 | | 14 |
| #2 | 2402.386 | 53535.54 | 11692.54 | 1823.080 | 3414.908 | | 15 |
| #3 | 2410.226 | 54356.88 | 11646.72 | 1843.234 | 3427.140 | | 16 |

Sample Name: P5386-02 Acquired: 12/30/2024 16:38:07 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0165109 | -.006830 | .0056714 | .0029848 | .0004390 | .1004892 | .2194861 |
| StdDev | .0011418 | .002401 | .0007360 | .0025777 | .0001417 | .0034992 | .0016994 |
| %RSD | 6.915275 | 35.15313 | 12.97792 | 86.35922 | 32.28143 | 3.482167 | .7742752 |
| #1 | .0177773 | -.005087 | .0048227 | .0023651 | .0005569 | .0969300 | .2213432 |
| #2 | .0155602 | -.005834 | .0060567 | .0058159 | .0002818 | .1006125 | .2180086 |
| #3 | .0161952 | -.009569 | .0061349 | .0007735 | .0004782 | .1039252 | .2191064 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000028 | .0002060 | 15.19181 | .0008427 | .0013998 | .0136217 | .0921951 |
| StdDev | .0000069 | .0000583 | .06750 | .0001682 | .0002463 | .0001426 | .0039564 |
| %RSD | 245.3166 | 28.27299 | .4443452 | 19.95778 | 17.59429 | 1.046648 | 4.291293 |
| #1 | -.000003 | .0001558 | 15.24723 | .0008481 | .0011378 | .0134996 | .0958974 |
| #2 | .000010 | .0001925 | 15.11663 | .0010080 | .0014350 | .0135872 | .0880261 |
| #3 | .000002 | .0002699 | 15.21158 | .0006718 | .0016266 | .0137784 | .0926617 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .1183640 | 2.987511 | .0042807 | -.000126 | 284.8459 | .0003494 | .1720261 |
| StdDev | .0006477 | .030646 | .0001408 | .000151 | 3.2918 | .0016171 | .0006931 |
| %RSD | .5472120 | 1.025794 | 3.288460 | 119.7429 | 1.155629 | 462.8495 | .4029192 |
| #1 | .1190914 | 2.998742 | .0042473 | .000031 | 287.8940 | .0017515 | .1725385 |
| #2 | .1178498 | 2.952834 | .0044352 | -.000269 | 285.2883 | -.001420 | .1723023 |
| #3 | .1181509 | 3.010956 | .0041597 | -.000140 | 281.3553 | .000716 | .1712374 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 10.19800 | .0444305 | .0005924 | -.000102 | .0017502 | 2.736920 | .0475204 |
| StdDev | .06155 | .0003976 | .0000517 | .000775 | .0001059 | .011011 | .0010764 |
| %RSD | .6035113 | .8949087 | 8.724942 | 763.4912 | 6.051432 | .4023051 | 2.265148 |
| #1 | 10.24767 | .0444944 | .0005468 | -.000117 | .0018654 | 2.743057 | .0463669 |
| #2 | 10.21719 | .0440049 | .0005818 | .000681 | .0016571 | 2.743495 | .0484980 |
| #3 | 10.12915 | .0447924 | .0006485 | -.000869 | .0017281 | 2.724208 | .0476963 |

Sample Name: P5386-02 Acquired: 12/30/2024 16:38:07 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | | 1 |
| Units | ppm | ppm | ppm | | | | 2 |
| Avg | 1.930990 | .0045682 | .1215343 | | | | 3 |
| Stddev | .005529 | .0001055 | .0006742 | | | | 4 |
| %RSD | .2863473 | 2.310065 | .5547646 | | | | 5 |

| | | | | | | | |
|----|----------|----------|----------|--|--|--|---|
| #1 | 1.924631 | .0044526 | .1222855 | | | | 6 |
| #2 | 1.933675 | .0046595 | .1209816 | | | | 7 |
| #3 | 1.934665 | .0045923 | .1213359 | | | | 8 |

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|-----------|----------|----------|----------|----------|----------|--|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 10 |
| Avg | 2470.623 | 53561.58 | 11577.36 | 1806.821 | 3582.074 | | 11 |
| Stddev | 3.573 | 330.41 | 61.06 | 8.670 | 9.654 | | 12 |
| %RSD | .1446090 | .6168839 | .5273704 | .4798458 | .2695019 | | 13 |
| #1 | 2473.622 | 53309.23 | 11511.30 | 1806.502 | 3592.575 | | 14 |
| #2 | 2466.670 | 53439.93 | 11631.71 | 1798.316 | 3580.064 | | 15 |
| #3 | 2471.578 | 53935.57 | 11589.08 | 1815.647 | 3573.584 | | 16 |

| | | | | | | | | |
|--------------|---------------------------|-------------|---------------------|---------------|----------|----------|----------|----|
| Sample Name: | P5386-04 | Acquired: | 12/30/2024 16:42:32 | Type: | Unk | | | |
| Method: | NON EPA-6010-200.7(v2560) | Mode: | CONC | Corr. Factor: | 1.000000 | | | |
| User: | Kareem | Custom ID1: | Custom ID2: | Custom ID3: | | | | |
| Comment: | | | | | | | | |
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | -.002525 | -.006111 | .0337410 | .0024699 | .0003868 | .0340958 | .0340548 | 3 |
| StdDev | .001668 | .001574 | .0009176 | .0002939 | .0008230 | .0026273 | .0019090 | 4 |
| %RSD | 66.04674 | 25.76315 | 2.719505 | 11.90127 | 212.7774 | 7.705534 | 5.605526 | 5 |
| #1 | -.002643 | -.004315 | .0332349 | .0027788 | .0010050 | .0371279 | .0349448 | 6 |
| #2 | -.004131 | -.007252 | .0331879 | .0024371 | -.000547 | .0324945 | .0353562 | 7 |
| #3 | -.000802 | -.006767 | .0348002 | .0021937 | .000703 | .0326651 | .0318634 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | -.000069 | -.000013 | 1.256233 | .0010162 | -.000296 | .0118216 | .0407384 | 11 |
| StdDev | .000031 | .000055 | .042918 | .0003283 | .000091 | .0002420 | .0012090 | 12 |
| %RSD | 45.50119 | 420.7748 | 3.416384 | 32.30716 | 30.71489 | 2.046700 | 2.967745 | 13 |
| #1 | -.000039 | -.000010 | 1.271477 | .0011408 | -.000333 | .0119104 | .0407988 | 14 |
| #2 | -.000065 | .000040 | 1.289448 | .0012638 | -.000192 | .0115478 | .0419161 | 15 |
| #3 | -.000102 | -.000069 | 1.207774 | .0006438 | -.000363 | .0120066 | .0395003 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0117244 | .3417084 | .0033478 | .0000486 | 302.8358 | -.000233 | .0951950 | |
| StdDev | .0005485 | .0073829 | .0003249 | .0001523 | 2.8904 | .001010 | .0004062 | |
| %RSD | 4.678002 | 2.160573 | 9.703303 | 313.6018 | .9544549 | 433.4836 | .4267581 | |
| #1 | .0122192 | .3375100 | .0030141 | -.000043 | 305.0407 | .000726 | .0955369 | |
| #2 | .0118194 | .3502331 | .0036630 | .000224 | 299.5635 | -.000138 | .0947459 | |
| #3 | .0111347 | .3373822 | .0033665 | -.000036 | 303.9033 | -.001288 | .0953021 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | .1236742 | -.001758 | .0001956 | .0001885 | .0004868 | .0441756 | .0106552 | |
| StdDev | .0209025 | .000974 | .0002346 | .0004429 | .0003230 | .0053922 | .0041059 | |
| %RSD | 16.90129 | 55.39533 | 119.9385 | 234.9098 | 66.35344 | 12.20617 | 38.53465 | |
| #1 | .1229442 | -.001103 | .0003835 | .0001797 | .0001530 | .0394583 | .0127903 | |
| #2 | .1449322 | -.001294 | -.000067 | -.000250 | .0005096 | .0430149 | .0059216 | |
| #3 | .1031462 | -.002877 | .000271 | .000636 | .0007978 | .0500536 | .0132536 | |

Sample Name: P5386-04 Acquired: 12/30/2024 16:42:32 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .1909798 | -.002945 | .0041970 | | | 3 |
| Stddev | .0042007 | .000283 | .0000950 | | | 4 |
| %RSD | 2.199545 | 9.603629 | 2.262718 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .1902788 | -.002954 | .0042705 | | | 6 |
| #2 | .1871737 | -.003222 | .0042308 | | | 7 |
| #3 | .1954869 | -.002657 | .0040898 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2482.244 | 54372.66 | 11644.32 | 1809.268 | 3595.796 | 11 |
| Stddev | 10.126 | 281.84 | 427.07 | 10.548 | 14.874 | 12 |
| %RSD | .4079389 | .5183425 | 3.667632 | .5829767 | .4136368 | 13 |
| #1 | 2486.400 | 54237.98 | 11416.63 | 1806.165 | 3594.529 | 14 |
| #2 | 2489.631 | 54696.57 | 11379.34 | 1821.019 | 3611.263 | 15 |
| #3 | 2470.701 | 54183.43 | 12136.99 | 1800.620 | 3581.597 | 16 |

Sample Name: P5386-04DUP Acquired: 12/30/2024 16:47:00 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .003714 | .006837 | .0337392 | .0047458 | .0010086 | .0378336 | .0349962 |
| StdDev | .001912 | .001504 | .0009572 | .0027880 | .0009119 | .0017223 | .0001946 |
| %RSD | 51.48334 | 21.99214 | 2.836928 | 58.74811 | 90.41497 | 4.552293 | .5561942 |
| #1 | -.004194 | -.005275 | .0347484 | .0024970 | .0000560 | .0381857 | .0349151 |
| #2 | -.001607 | -.008274 | .0336250 | .0038750 | .0018735 | .0359625 | .0352182 |
| #3 | -.005340 | -.006961 | .0328443 | .0078653 | .0010964 | .0393527 | .0348552 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | -.000073 | -.000015 | 1.265660 | .0010918 | -.000355 | .0118476 | .0379066 |
| StdDev | .000027 | .000042 | .009653 | .0003259 | .000103 | .0002176 | .0035128 |
| %RSD | 36.88602 | 277.9767 | .7626556 | 29.84895 | 29.10706 | 1.836747 | 9.267079 |
| #1 | -.000097 | -.000036 | 1.261407 | .0008388 | -.000427 | .0118512 | .0403670 |
| #2 | -.000044 | -.000042 | 1.276708 | .0009772 | -.000237 | .0120634 | .0338836 |
| #3 | -.000078 | .000033 | 1.258864 | .0014596 | -.000401 | .0116282 | .0394692 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .0118046 | .3361792 | .0033250 | -.000133 | 306.3910 | .0002672 | .0938832 |
| StdDev | .0005507 | .0170419 | .0001810 | .000045 | 1.4422 | .0008584 | .0005556 |
| %RSD | 4.665335 | 5.069288 | 5.443297 | 34.03047 | .4707046 | 321.2434 | .5917738 |
| #1 | .0111701 | .3456042 | .0031914 | -.000135 | 305.4053 | .0012503 | .0944248 |
| #2 | .0120839 | .3464267 | .0035310 | -.000087 | 308.0463 | -.000115 | .0933146 |
| #3 | .0121596 | .3165066 | .0032526 | -.000178 | 305.7215 | -.000334 | .0939101 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .1566765 | -.001749 | .0002424 | .0005161 | .0001910 | .0385340 | .0091932 |
| StdDev | .0150291 | .000280 | .0000240 | .0009113 | .0004781 | .0033070 | .0020202 |
| %RSD | 9.592464 | 16.03018 | 9.911791 | 176.5798 | 250.2379 | 8.582097 | 21.97459 |
| #1 | .1733334 | -.001452 | .0002693 | .0015597 | -.000311 | .0411137 | .0115119 |
| #2 | .1525652 | -.002009 | .0002231 | .0001114 | .000641 | .0396824 | .0078130 |
| #3 | .1441308 | -.001786 | .0002348 | -.000123 | .000244 | .0348059 | .0082546 |

Sample Name: P5386-04DUP Acquired: 12/30/2024 16:47:00 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .1896689 | -.002595 | .0043118 | |
| Stddev | .0017641 | .001050 | .0000525 | |
| %RSD | .9300858 | 40.47813 | 1.217541 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .1879898 | -.002840 | .0042606 | |
| #2 | .1895096 | -.001444 | .0043655 | |
| #3 | .1915072 | -.003501 | .0043093 | |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|--|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | |
| Avg | 2510.048 | 54407.43 | 11797.13 | 1848.943 | 3601.311 | |
| Stddev | 5.659 | 196.62 | 30.87 | 12.232 | 5.613 | |
| %RSD | .2254655 | .3613900 | .2617118 | .6615692 | .1558697 | |

| | | | | | | |
|----|----------|----------|----------|----------|----------|--|
| #1 | 2509.822 | 54183.23 | 11793.34 | 1835.356 | 3596.226 | |
| #2 | 2515.817 | 54550.51 | 11829.72 | 1859.078 | 3607.334 | |
| #3 | 2504.505 | 54488.55 | 11768.32 | 1852.395 | 3600.372 | |

Sample Name: P5386-04LX5 Acquired: 12/30/2024 16:51:28 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0027990 | -.001890 | .0069039 | -.000704 | -.000367 | .0104454 | .0101313 | 3 |
| StdDev | .0007561 | .002259 | .0010626 | .003472 | .000465 | .0073384 | .0002916 | 4 |
| %RSD | 27.01470 | 119.4784 | 15.39120 | 493.3244 | 126.8099 | 70.25531 | 2.878080 | 5 |
| #1 | .0031614 | -.004379 | .0063947 | .001525 | .000120 | .0133793 | .0102372 | 6 |
| #2 | .0019299 | .000029 | .0081252 | -.004705 | -.000807 | .0020939 | .0103551 | 7 |
| #3 | .0033057 | -.001320 | .0061916 | .001068 | -.000413 | .0158630 | .0098015 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | -.000008 | .0000663 | .2603420 | .0001965 | -.000029 | .0020383 | .0077092 | 11 |
| StdDev | .000049 | .0000939 | .0079771 | .0001930 | .000052 | .0004010 | .0040031 | 12 |
| %RSD | 636.7069 | 141.5617 | 3.064098 | 98.18901 | 175.2425 | 19.67461 | 51.92598 | 13 |
| #1 | -.000058 | -.000030 | .2545675 | .0004152 | -.000075 | .0023141 | .0118800 | 14 |
| #2 | -.000005 | .000071 | .2570142 | .0000501 | -.000040 | .0015782 | .0038981 | 15 |
| #3 | .000040 | .000158 | .2694442 | .0001242 | -.000027 | .0022225 | .0073496 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .0017740 | .0594564 | .0007093 | .0002696 | 57.81320 | .0009551 | .0182242 | |
| StdDev | .0001378 | .0068053 | .0001780 | .0004527 | .58071 | .0007673 | .0001391 | |
| %RSD | 7.767604 | 11.44581 | 25.10019 | 167.8974 | 1.004460 | 80.33358 | .7632732 | |
| #1 | .0018063 | .0660378 | .0009078 | .0004784 | 57.91988 | .0002677 | .0182166 | |
| #2 | .0016229 | .0524475 | .0005637 | .0005802 | 58.33318 | .0008147 | .0183669 | |
| #3 | .0018927 | .0598838 | .0006564 | -.000250 | 57.18655 | .0017829 | .0180890 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .0849280 | -.005108 | .0001416 | .0027964 | .0002490 | .0060694 | .0021256 | |
| StdDev | .0338595 | .001085 | .0000296 | .0001197 | .0004216 | .0047592 | .0020618 | |
| %RSD | 39.86851 | 21.24629 | 20.93925 | 4.279954 | 169.3049 | 78.41299 | 97.00030 | |
| #1 | .0653892 | -.006343 | .0001742 | .0027411 | .0002290 | .0026156 | .0037740 | |
| #2 | .0653691 | -.004672 | .0001164 | .0029338 | .0006803 | .0114981 | -.000186 | |
| #3 | .1240256 | -.004308 | .0001341 | .0027144 | -.000162 | .0040945 | .002789 | |

Sample Name: P5386-04LX5 Acquired: 12/30/2024 16:51:28 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .0366574 | .0034744 | .0008304 | | | 3 |
| Stddev | .0040565 | .0005719 | .0000010 | | | 4 |
| %RSD | 11.06608 | 16.45944 | .1227522 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .0401513 | .0028141 | .0008296 | | | 6 |
| #2 | .0322086 | .0037963 | .0008301 | | | 7 |
| #3 | .0376123 | .0038127 | .0008316 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2601.970 | 57659.32 | 11462.68 | 1984.275 | 3760.488 | 11 |
| Stddev | 12.655 | 538.38 | 20.87 | 19.765 | 12.322 | 12 |
| %RSD | .4863602 | .9337332 | .1821059 | .9961028 | .3276718 | 13 |
| #1 | 2614.560 | 57547.69 | 11439.91 | 1974.432 | 3774.587 | 14 |
| #2 | 2602.099 | 57185.49 | 11467.23 | 1971.364 | 3751.784 | 15 |
| #3 | 2589.251 | 58244.76 | 11480.91 | 2007.029 | 3755.091 | 16 |

Sample Name: P5386-04MS Acquired: 12/30/2024 16:55:48 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7494984 | 1.786836 | .9535219 | 1.793620 | .6685910 | 1.749662 | .2041487 |
| StdDev | .0046815 | .006281 | .0061912 | .009513 | .0010427 | .009404 | .0003628 |
| %RSD | .6246239 | .3515408 | .6493014 | .5303872 | .1559478 | .5374689 | .1777052 |
| #1 | .7534811 | 1.784913 | .9590702 | 1.803115 | .6679528 | 1.758931 | .2045083 |
| #2 | .7443415 | 1.793855 | .9546522 | 1.784089 | .6697942 | 1.740129 | .2037828 |
| #3 | .7506725 | 1.781741 | .9468434 | 1.793657 | .6680260 | 1.749925 | .2041549 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1864992 | .1922788 | 2.132683 | .3960471 | .1892349 | .2800759 | 2.886808 |
| StdDev | .0010532 | .0011652 | .014483 | .0003829 | .0011504 | .0018689 | .008110 |
| %RSD | .5647057 | .6060029 | .6790867 | .0966673 | .6079437 | .6672783 | .2809225 |
| #1 | .1873148 | .1933362 | 2.148383 | .3963113 | .1903753 | .2822329 | 2.896160 |
| #2 | .1853102 | .1924705 | 2.119844 | .3962219 | .1892548 | .2789403 | 2.882542 |
| #3 | .1868725 | .1910296 | 2.129824 | .3956080 | .1880747 | .2790545 | 2.881721 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .1949662 | 2.180322 | .4773039 | .0729114 | 285.1633 | .2730914 | .2763276 |
| StdDev | .0008489 | .010635 | .0020701 | .0002313 | 2.3310 | .0008703 | .0010990 |
| %RSD | .4353992 | .4877671 | .4337096 | .3172795 | .8174317 | .3186777 | .3977227 |
| #1 | .1959326 | 2.182099 | .4794100 | .0728974 | 287.8517 | .2726089 | .2773684 |
| #2 | .1943411 | 2.189957 | .4772300 | .0731494 | 283.9350 | .2725692 | .2764361 |
| #3 | .1946249 | 2.168911 | .4752717 | .0726873 | 283.7034 | .2740960 | .2751784 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 9.515631 | .2511361 | .3514173 | .6212838 | .1657519 | .7024421 | 5.859507 |
| StdDev | .016555 | .0025956 | .0019519 | .0028667 | .0003456 | .0154514 | .027103 |
| %RSD | .1739806 | 1.033528 | .5554427 | .4614108 | .2085299 | 2.199664 | .4625398 |
| #1 | 9.528801 | .2531865 | .3534406 | .6245284 | .1659953 | .6866737 | 5.883408 |
| #2 | 9.497046 | .2482178 | .3495455 | .6202290 | .1653563 | .7175556 | 5.865053 |
| #3 | 9.521046 | .2520040 | .3512658 | .6190939 | .1659042 | .7030971 | 5.830061 |

Sample Name: P5386-04MS Acquired: 12/30/2024 16:55:48 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | .2062950 | .1752851 | .1766935 | |
| StdDev | .0027496 | .0009374 | .0004187 | |
| %RSD | 1.332834 | .5347899 | .2369495 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .2081874 | .1762151 | .1770399 | |
| #2 | .2075564 | .1743404 | .1762282 | |
| #3 | .2031410 | .1752997 | .1768122 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2412.151 | 53205.03 | 10943.96 | 1815.180 | 3431.105 |
| StdDev | 12.930 | 149.04 | 72.70 | 7.744 | 18.957 |
| %RSD | .5360172 | .2801179 | .6643218 | .4266148 | .5524943 |
| #1 | 2397.230 | 53040.88 | 10861.67 | 1806.666 | 3411.066 |
| #2 | 2420.047 | 53242.36 | 10999.50 | 1817.070 | 3433.496 |
| #3 | 2419.177 | 53331.85 | 10970.70 | 1821.804 | 3448.752 |

Sample Name: P5386-04MSD Acquired: 12/30/2024 16:59:58 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7433399 | 1.795479 | .9491619 | 1.793363 | .6742868 | 1.757407 | .2037006 |
| StdDev | .0028497 | .007276 | .0059428 | .010018 | .0046049 | .009266 | .0010380 |
| %RSD | .3833622 | .4052400 | .6261064 | .5586124 | .6829317 | .5272596 | .5095512 |
| #1 | .7440531 | 1.789746 | .9453144 | 1.783181 | .6708796 | 1.756835 | .2038201 |
| #2 | .7457653 | 1.803665 | .9560064 | 1.803208 | .6795257 | 1.748440 | .2026080 |
| #3 | .7402014 | 1.793027 | .9461648 | 1.793700 | .6724551 | 1.766946 | .2046736 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1860339 | .1922673 | 2.133276 | .3923220 | .1893083 | .2774658 | 2.818550 |
| StdDev | .0006470 | .0012119 | .010225 | .0061876 | .0014942 | .0010285 | .028500 |
| %RSD | .3477641 | .6303341 | .4792884 | 1.577165 | .7893006 | .3706799 | 1.011159 |
| #1 | .1854770 | .1914260 | 2.128178 | .3855594 | .1884123 | .2778592 | 2.785655 |
| #2 | .1858812 | .1936564 | 2.126603 | .3976999 | .1910332 | .2782395 | 2.834156 |
| #3 | .1867436 | .1917194 | 2.145048 | .3937069 | .1884793 | .2762986 | 2.835839 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .1939065 | 2.193834 | .4739922 | .0714124 | 278.4284 | .2760853 | .2722587 |
| StdDev | .0007518 | .031280 | .0020739 | .0011099 | 5.7032 | .0023761 | .0046330 |
| %RSD | .3877203 | 1.425818 | .4375343 | 1.554210 | 2.048339 | .8606266 | 1.701692 |
| #1 | .1938902 | 2.212413 | .4737885 | .0702684 | 272.1984 | .2734078 | .2669197 |
| #2 | .1931630 | 2.157720 | .4761604 | .0724848 | 283.3916 | .2769055 | .2752217 |
| #3 | .1946663 | 2.211370 | .4720277 | .0714841 | 279.6952 | .2779426 | .2746346 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 9.272445 | .2499590 | .3537589 | .6201221 | .1655113 | .6924642 | 5.755561 |
| StdDev | .153441 | .0007538 | .0021665 | .0030075 | .0010029 | .0078574 | .029763 |
| %RSD | 1.654811 | .3015837 | .6124204 | .4849830 | .6059604 | 1.134699 | .5171109 |
| #1 | 9.097525 | .2504986 | .3525328 | .6180363 | .1660753 | .6872077 | 5.738066 |
| #2 | 9.384327 | .2490977 | .3562604 | .6235696 | .1643533 | .7014968 | 5.789926 |
| #3 | 9.335483 | .2502808 | .3524836 | .6187604 | .1661052 | .6886882 | 5.738690 |

Sample Name: P5386-04MSD Acquired: 12/30/2024 16:59:58 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .1922898 | .1726033 | .1758561 | | | 3 |
| Stddev | .0027720 | .0015010 | .0012390 | | | 4 |
| %RSD | 1.441550 | .8696168 | .7045775 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .1924652 | .1729389 | .1760669 | | | 6 |
| #2 | .1949699 | .1709629 | .1745252 | | | 7 |
| #3 | .1894343 | .1739081 | .1769763 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2441.613 | 54305.98 | 10952.42 | 1838.008 | 3489.325 | 11 |
| Stddev | 13.360 | 785.21 | 41.90 | 26.412 | 19.745 | 12 |
| %RSD | .5471710 | 1.445907 | .3825979 | 1.437011 | .5658786 | 13 |
| #1 | 2444.574 | 55176.53 | 10956.29 | 1867.620 | 3491.993 | 14 |
| #2 | 2427.021 | 53651.23 | 10992.25 | 1816.881 | 3468.381 | 15 |
| #3 | 2453.244 | 54090.18 | 10908.71 | 1829.523 | 3507.600 | 16 |

Sample Name: CCV04 Acquired: 12/30/2024 17:04:07 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | 4.778041 | 4.839068 | 4.903499 | 4.926630 | 4.883992 | 9.369902 | 3 |
| StdDev | .022654 | .061780 | .013561 | .025146 | .017673 | .063983 | 4 |
| %RSD | .4741178 | 1.276701 | .2765656 | .5104003 | .3618478 | .6828546 | 5 |
| #1 | 4.760010 | 4.830949 | 4.900389 | 4.919366 | 4.867304 | 9.300492 | 6 |
| #2 | 4.803468 | 4.904507 | 4.918346 | 4.954607 | 4.902507 | 9.426526 | 7 |
| #3 | 4.770644 | 4.781749 | 4.891763 | 4.905915 | 4.882166 | 9.382689 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 9.093645 | .2565628 | 2.523864 | 24.49070 | 1.002999 | 2.439079 | 11 |
| StdDev | .002627 | .0014554 | .010999 | .07721 | .002475 | .011132 | 12 |
| %RSD | .0288845 | .5672660 | .4358129 | .3152562 | .2467161 | .4563899 | 13 |
| #1 | 9.090634 | .2552472 | 2.518049 | 24.40474 | 1.000403 | 2.432298 | 14 |
| #2 | 9.095465 | .2581262 | 2.536550 | 24.55416 | 1.005332 | 2.451927 | 15 |
| #3 | 9.094836 | .2563151 | 2.516992 | 24.51320 | 1.003261 | 2.433014 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | 1.192266 | 4.745239 | 2.352923 | 25.69821 | 2.448258 | 1.215888 | |
| StdDev | .004704 | .009991 | .005303 | .12216 | .010598 | .003480 | |
| %RSD | .3945718 | .2105489 | .2253586 | .4753479 | .4328779 | .2862151 | |
| #1 | 1.189973 | 4.739487 | 2.351726 | 25.56541 | 2.443470 | 1.211932 | |
| #2 | 1.197677 | 4.739455 | 2.348321 | 25.80579 | 2.460405 | 1.218478 | |
| #3 | 1.189148 | 4.756776 | 2.358722 | 25.72341 | 2.440899 | 1.217254 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 22.80758 | 2.389667 | 2.397804 | 22.91718 | 4.921532 | 4.776703 | |
| StdDev | .06297 | .005648 | .011879 | .02352 | .028315 | .025193 | |
| %RSD | .2760887 | .2363650 | .4953999 | .1026520 | .5753380 | .5274110 | |
| #1 | 22.75526 | 2.383197 | 2.384103 | 22.89834 | 4.890510 | 4.759434 | |
| #2 | 22.87746 | 2.393614 | 2.404093 | 22.94354 | 4.945986 | 4.805611 | |
| #3 | 22.79001 | 2.392190 | 2.405216 | 22.90965 | 4.928102 | 4.765065 | |

Sample Name: CCV04 Acquired: 12/30/2024 17:04:07 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | 4.924696 | 4.673924 | 4.698860 | 5.021891 | 4.793673 | F 4.474457 | 5 |
| Stddev | .028226 | .013496 | .024727 | .021729 | .023755 | .017052 | 6 |
| %RSD | .5731480 | .2887541 | .5262275 | .4326909 | .4955398 | .3810923 | 7 |
| #1 | 4.910554 | 4.658411 | 4.671556 | 5.011182 | 4.784411 | 4.457137 | 8 |
| #2 | 4.957197 | 4.682972 | 4.719742 | 5.046897 | 4.820663 | 4.491227 | 9 |
| #3 | 4.906336 | 4.680388 | 4.705282 | 5.007596 | 4.775945 | 4.475007 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | 4.680622 | | | | | | 13 |
| Stddev | .012081 | | | | | | 14 |
| %RSD | .2581094 | | | | | | 15 |
| #1 | 4.666881 | | | | | | 16 |
| #2 | 4.685403 | | | | | | 17 |
| #3 | 4.689580 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2486.803 | 54929.56 | 10804.50 | 1866.164 | 3568.745 | | |
| Stddev | 11.228 | 94.15 | 28.67 | 3.911 | 16.166 | | |
| %RSD | .4515082 | .1713942 | .2653537 | .2095711 | .4529821 | | |
| #1 | 2492.501 | 54958.29 | 10824.31 | 1870.650 | 3574.803 | | |
| #2 | 2473.868 | 54824.40 | 10771.62 | 1863.468 | 3550.426 | | |
| #3 | 2494.039 | 55006.00 | 10817.56 | 1864.375 | 3581.008 | | |

Sample Name: CCB04 Acquired: 12/30/2024 17:08:18 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | -.000230 | -.001723 | .0001909 | -.000287 | -.001983 | -.006124 | .0049503 | 3 |
| StdDev | .000753 | .002418 | .0005298 | .001909 | .000335 | .002320 | .0002864 | 4 |
| %RSD | 326.7301 | 140.3561 | 277.4893 | 664.1214 | 16.87243 | 37.87782 | 5.785405 | 5 |
| #1 | .000500 | -.000800 | .0006995 | -.001797 | -.001981 | -.004315 | .0048858 | 6 |
| #2 | -.001003 | -.004466 | .0002310 | .001858 | -.001650 | -.005318 | .0047016 | 7 |
| #3 | -.000188 | .000098 | -.000358 | -.000923 | -.002319 | -.008740 | .0052634 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000438 | .0001838 | -.001786 | -.000141 | -.000204 | -.000657 | .0019734 | 11 |
| StdDev | .0000205 | .0000983 | .006150 | .000274 | .000128 | .000135 | .0005614 | 12 |
| %RSD | 46.91064 | 53.47512 | 344.4367 | 194.0714 | 62.48166 | 20.48033 | 28.44696 | 13 |
| #1 | .0000531 | .0002480 | .002936 | -.000041 | -.000302 | -.000554 | .0020845 | 14 |
| #2 | .0000202 | .0002328 | -.008740 | .000068 | -.000060 | -.000809 | .0013648 | 15 |
| #3 | .0000579 | .0000707 | .000447 | -.000451 | -.000252 | -.000607 | .0024709 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.001034 | .0100780 | -.000251 | .0002447 | .0791672 | -.000162 | -.000328 | |
| StdDev | .000245 | .0127805 | .000026 | .0001557 | .0006784 | .001830 | .000202 | |
| %RSD | 23.69010 | 126.8158 | 10.51098 | 63.63229 | .8569306 | 1128.232 | 61.52973 | |
| #1 | -.000835 | -.003103 | -.000279 | .0003207 | .0784470 | .000935 | -.000123 | |
| #2 | -.001308 | .010921 | -.000248 | .0000656 | .0797942 | .000853 | -.000526 | |
| #3 | -.000959 | .022416 | -.000226 | .0003477 | .0792605 | -.002275 | -.000335 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .1223648 | .0015142 | .0001018 | .0039732 | .0010588 | -.008024 | -.004106 | |
| StdDev | .0229290 | .0007245 | .0001885 | .0009457 | .0002807 | .005962 | .003259 | |
| %RSD | 18.73828 | 47.84971 | 185.2045 | 23.80124 | 26.51488 | 74.29692 | 79.38554 | |
| #1 | .1010332 | .0015604 | .0002906 | .0032943 | .0013214 | -.004039 | -.004589 | |
| #2 | .1194487 | .0007677 | -.000086 | .0050533 | .0007629 | -.014878 | -.000632 | |
| #3 | .1466123 | .0022145 | .000101 | .0035720 | .0010920 | -.005156 | -.007096 | |

Sample Name: CCB04 Acquired: 12/30/2024 17:08:18 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | |
|--------|-----------------|-----------------|-----------------|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | 1 |
| Units | ppm | ppm | ppm | | 2 |
| Avg | -.002158 | .0015642 | .0002852 | | 3 |
| Stddev | .001102 | .0007475 | .0000158 | | 4 |
| %RSD | 51.08798 | 47.78557 | 5.525612 | | 5 |

| | | | | | |
|----|-----------------|-----------------|-----------------|--|---|
| #1 | -.002854 | .0023701 | .0003034 | | 6 |
| #2 | -.002732 | .0014288 | .0002761 | | 7 |
| #3 | -.000887 | .0008937 | .0002761 | | 8 |

| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2580.276 | 58097.18 | 11332.84 | 2005.147 | 3732.955 | 11 |
| Stddev | 11.016 | 157.94 | 90.50 | 7.701 | 13.856 | 12 |
| %RSD | .4269362 | .2718613 | .7985510 | .3840372 | .3711842 | 13 |
| #1 | 2569.651 | 57989.13 | 11398.45 | 1997.307 | 3720.093 | 14 |
| #2 | 2591.646 | 58023.97 | 11370.48 | 2005.434 | 3747.627 | 15 |
| #3 | 2579.532 | 58278.45 | 11229.60 | 2012.699 | 3731.147 | 16 |

Sample Name: P5386-04A Acquired: 12/30/2024 17:12:39 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7413820 | 1.784741 | .9526512 | 1.759449 | .6601756 | 1.767179 | .2060307 |
| StdDev | .0063026 | .019731 | .0091330 | .011607 | .0061447 | .009774 | .0007539 |
| %RSD | .8501125 | 1.105565 | .9586924 | .6597214 | .9307622 | .5530952 | .3659263 |
| #1 | .7351028 | 1.763047 | .9428925 | 1.750446 | .6542360 | 1.776642 | .2066078 |
| #2 | .7477078 | 1.801617 | .9609928 | 1.772550 | .6665066 | 1.757121 | .2051776 |
| #3 | .7413354 | 1.789560 | .9540681 | 1.755351 | .6597843 | 1.767773 | .2063065 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1890720 | .1911018 | 2.134333 | .3863078 | .1893498 | .2782256 | 2.730650 |
| StdDev | .0004167 | .0021689 | .005248 | .0044437 | .0024499 | .0022299 | .036029 |
| %RSD | .2203801 | 1.134954 | .2458731 | 1.150314 | 1.293848 | .8014825 | 1.319435 |
| #1 | .1889790 | .1889425 | 2.130145 | .3812463 | .1871179 | .2762726 | 2.693748 |
| #2 | .1887097 | .1932802 | 2.132634 | .3895685 | .1919710 | .2806553 | 2.765738 |
| #3 | .1895273 | .1910826 | 2.140220 | .3881087 | .1889604 | .2777489 | 2.732465 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .1971942 | 2.160401 | .4755044 | .0710495 | 268.3903 | .2758712 | .2681952 |
| StdDev | .0011372 | .015162 | .0055830 | .0011951 | 3.5888 | .0024565 | .0052728 |
| %RSD | .5766742 | .7018208 | 1.174122 | 1.682029 | 1.337156 | .8904629 | 1.966021 |
| #1 | .1981491 | 2.143095 | .4702624 | .0699446 | 264.2478 | .2784725 | .2627165 |
| #2 | .1959362 | 2.166760 | .4813751 | .0723179 | 270.3657 | .2735910 | .2732345 |
| #3 | .1974972 | 2.171348 | .4748757 | .0708858 | 270.5574 | .2755503 | .2686346 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 9.041503 | .2585114 | .3509380 | .6194508 | .1666534 | .6682133 | 5.908924 |
| StdDev | .095710 | .0024161 | .0039600 | .0081630 | .0006175 | .0150933 | .062770 |
| %RSD | 1.058562 | .9346186 | 1.128411 | 1.317776 | .3705283 | 2.258749 | 1.062283 |
| #1 | 8.943725 | .2576137 | .3472621 | .6115484 | .1664540 | .6507876 | 5.843040 |
| #2 | 9.135001 | .2566727 | .3551313 | .6278516 | .1661603 | .6766724 | 5.968029 |
| #3 | 9.045785 | .2612479 | .3504207 | .6189525 | .1673460 | .6771799 | 5.915703 |

Sample Name: P5386-04A Acquired: 12/30/2024 17:12:39 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| ELEM | S_1820 | Li6707 | Sr4077 | | | 1 |
| UNITS | ppm | ppm | ppm | | | 2 |
| Avg | .1920666 | .1759341 | .1777366 | | | 3 |
| StdDev | .0011243 | .0013236 | .0006784 | | | 4 |
| %RSD | .5853849 | .7523074 | .3816840 | | | 5 |
| #1 | .1926022 | .1750702 | .1782375 | | | 6 |
| #2 | .1907746 | .1752741 | .1769646 | | | 7 |
| #3 | .1928230 | .1774578 | .1780077 | | | 8 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2431.955 | 55288.91 | 10677.09 | 1887.694 | 3452.115 | 11 |
| StdDev | 20.913 | 661.49 | 35.33 | 29.891 | 31.446 | 12 |
| %RSD | .8599398 | 1.196416 | .3308524 | 1.583441 | .9109122 | 13 |
| #1 | 2450.663 | 56007.89 | 10670.90 | 1921.447 | 3481.591 | 14 |
| #2 | 2409.377 | 54706.13 | 10715.10 | 1864.573 | 3419.014 | 15 |
| #3 | 2435.824 | 55152.71 | 10645.26 | 1877.063 | 3455.739 | 16 |
| | | | | | | 17 |
| | | | | | | 18 |

Sample Name: PB165858TB Acquired: 12/30/2024 17:16:49 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|------------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | -.001677 | -.005849 | .0011958 | .0072833 | .0024065 | .0014085 | 3 |
| StdDev | .000775 | .001360 | .0004905 | .0034261 | .0019561 | .0091381 | 4 |
| %RSD | 46.19863 | 23.24678 | 41.01756 | 47.03988 | 81.28462 | 648.7678 | 5 |
| #1 | -.001122 | -.006866 | .0006903 | .0105132 | .0046510 | .0034625 | 6 |
| #2 | -.002562 | -.006377 | .0012273 | .0076467 | .0015031 | -.008582 | 7 |
| #3 | -.001347 | -.004304 | .0016698 | .0036900 | .0010653 | .009345 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .0033692 | -.000085 | -.000059 | .0053798 | .0013214 | -.000481 | 11 |
| StdDev | .0004728 | .000069 | .000041 | .0043959 | .0003241 | .000121 | 12 |
| %RSD | 14.03337 | 81.33721 | 70.63081 | 81.71101 | 24.52953 | 25.20555 | 13 |
| #1 | .0039141 | -.000164 | -.000057 | .0007781 | .0016013 | -.000496 | 14 |
| #2 | .0031269 | -.000038 | -.000101 | .0058253 | .0009663 | -.000594 | 15 |
| #3 | .0030667 | -.000052 | -.000018 | .0095360 | .0013967 | -.000353 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0033600 | .0213784 | .0129762 | .0151871 | .0018446 | .0003033 | |
| StdDev | .0002397 | .0036253 | .0002271 | .0109018 | .0000554 | .0002496 | |
| %RSD | 7.132697 | 16.95787 | 1.750491 | 71.78334 | 3.006331 | 82.27017 | |
| #1 | .0030885 | .0255641 | .0127796 | .0027016 | .0018859 | .0003034 | |
| #2 | .0035421 | .0192277 | .0129242 | .0200392 | .0017816 | .0005528 | |
| #3 | .0034495 | .0193435 | .0132249 | .0228204 | .0018663 | .0000537 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | F 253.3187 | -.000434 | .0040565 | .0071128 | -.004371 | .0001668 | |
| StdDev | 3.9724 | .000952 | .0000635 | .0460945 | .000081 | .0002079 | |
| %RSD | 1.568131 | 219.0770 | 1.566453 | 648.0474 | 1.849821 | 124.6677 | |
| #1 | 254.0359 | .000107 | .0041287 | -.006833 | -.004282 | -.000014 | |
| #2 | 249.0366 | .000123 | .0040315 | -.030399 | -.004391 | .000120 | |
| #3 | 256.8836 | -.001533 | .0040092 | .058570 | -.004440 | .000394 | |

Sample Name: PB165858TB Acquired: 12/30/2024 17:16:49 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0010056 | -.000170 | .0037138 | .0028923 | F .0856249 | -.003069 | 5 |
| Stddev | .0003816 | .000497 | .0053361 | .0026404 | .0016268 | .001129 | 6 |
| %RSD | 37.94618 | 292.1590 | 143.6812 | 91.28831 | 1.899941 | 36.77492 | 7 |
| #1 | .0008189 | .000238 | .0087641 | -.000065 | .0855793 | -.004116 | 8 |
| #2 | .0014446 | -.000723 | .0042455 | .005013 | .0840213 | -.001873 | 9 |
| #3 | .0007533 | -.000025 | -.001868 | .003729 | .0872740 | -.003219 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | -.000013 | | | | | | 13 |
| Stddev | .000018 | | | | | | 14 |
| %RSD | 141.7995 | | | | | | 15 |
| #1 | .000007 | | | | | | 16 |
| #2 | -.000029 | | | | | | 17 |
| #3 | -.000017 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2477.411 | 55061.14 | 11380.31 | 1863.258 | 3545.138 | | |
| Stddev | 7.287 | 579.33 | 137.64 | 17.550 | 10.661 | | |
| %RSD | .2941407 | 1.052159 | 1.209491 | .9419230 | .3007320 | | |
| #1 | 2471.796 | 54944.11 | 11387.53 | 1861.348 | 3533.823 | | |
| #2 | 2485.646 | 55690.06 | 11514.20 | 1881.685 | 3554.996 | | |
| #3 | 2474.790 | 54549.26 | 11239.19 | 1846.741 | 3546.596 | | |

Sample Name: PB165887BL Acquired: 12/30/2024 17:21:18 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | -0.000601 | -0.000451 | 0.0004780 | -0.000877 | -0.001471 | -0.002688 | 0.0020196 |
| StdDev | .000541 | .002667 | .0009421 | .000870 | .001587 | .006086 | .0002140 |
| %RSD | 90.00788 | 590.7984 | 197.0814 | 99.21250 | 107.8928 | 226.4258 | 10.59691 |
| #1 | -0.000336 | -0.003021 | 0.0007036 | -0.001828 | -0.002159 | -0.009567 | 0.0021581 |
| #2 | -0.001222 | -0.000636 | 0.0012868 | -0.000681 | -0.002599 | -0.000498 | 0.0021277 |
| #3 | -0.000243 | .002303 | -0.000556 | -0.000122 | .000344 | .002000 | .0017731 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000432 | .0000360 | .0006820 | -0.00268 | -0.00107 | -0.00491 | -0.003832 |
| StdDev | .0000355 | .0000537 | .0034183 | .000158 | .000244 | .000182 | .002726 |
| %RSD | 81.99629 | 149.1863 | 501.2104 | 58.94863 | 228.0576 | 37.00107 | 71.12398 |
| #1 | .0000361 | .0000443 | .0035198 | -0.000095 | .000032 | -0.000540 | -0.003188 |
| #2 | .0000817 | .0000850 | .0016391 | -0.000306 | .000036 | -0.000289 | -0.001486 |
| #3 | .0000119 | -0.000021 | -0.003113 | -0.000404 | -0.000388 | -0.000642 | -0.006822 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -0.001004 | .0122555 | -0.000248 | .0005076 | .1229486 | -0.000607 | -0.000851 |
| StdDev | .000250 | .0092328 | .000046 | .0002398 | .0091596 | .000830 | .000025 |
| %RSD | 24.89123 | 75.33629 | 18.75416 | 47.24492 | 7.449945 | 136.6591 | 2.899677 |
| #1 | -0.000926 | .0226675 | -0.000275 | .0007814 | .1148207 | .000053 | -0.000860 |
| #2 | -0.000803 | .0050653 | -0.000274 | .0003350 | .1211516 | -0.000336 | -0.000869 |
| #3 | -0.001284 | .0090336 | -0.000194 | .0004063 | .1328736 | -0.001538 | -0.000823 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0665544 | -0.004576 | .0001038 | .0028788 | .0006201 | -0.006105 | -0.005498 |
| StdDev | .0045015 | .000489 | .0001516 | .0004499 | .0002061 | .004739 | .002328 |
| %RSD | 6.763608 | 10.69286 | 146.0494 | 15.62824 | 33.22848 | 77.63102 | 42.34792 |
| #1 | .0670951 | -0.005128 | -0.000050 | .0023629 | .0003899 | -0.003450 | -0.002837 |
| #2 | .0707611 | -0.004405 | .000109 | .0031899 | .0006834 | -0.003288 | -0.007161 |
| #3 | .0618070 | -0.004195 | .000253 | .0030835 | .0007871 | -0.011577 | -0.006497 |

Sample Name: PB165887BL Acquired: 12/30/2024 17:21:18 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | .001808 | .0027553 | -.000030 | |
| StdDev | .002466 | .0001298 | .000018 | |
| %RSD | 136.3807 | 4.709338 | 61.10013 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | -.000609 | .0028789 | -.000010 | |
| #2 | -.004645 | .0027668 | -.000033 | |
| #3 | -.000171 | .0026201 | -.000047 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2623.703 | 58021.32 | 11851.45 | 1966.216 | 3856.052 |
| StdDev | 18.258 | 882.80 | 31.36 | 26.633 | 26.938 |
| %RSD | .6959004 | 1.521513 | .2646272 | 1.354555 | .6985894 |
| #1 | 2604.878 | 58379.71 | 11815.88 | 1982.604 | 3826.892 |
| #2 | 2641.336 | 57015.68 | 11863.31 | 1935.485 | 3880.010 |
| #3 | 2624.897 | 58668.57 | 11875.15 | 1980.558 | 3861.252 |

Sample Name: PB165887BS Acquired: 12/30/2024 17:25:37 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7389869 | 1.857952 | .9287795 | 1.834706 | .7343252 | 1.752361 | 3 |
| StdDev | .0017735 | .011106 | .0050652 | .011262 | .0044534 | .016607 | 4 |
| %RSD | .2399948 | .5977732 | .5453636 | .6138395 | .6064613 | .9477151 | 5 |
| #1 | .7378245 | 1.847256 | .9229415 | 1.823360 | .7295080 | 1.755593 | 6 |
| #2 | .7381080 | 1.869428 | .9313897 | 1.834875 | .7351756 | 1.767114 | 7 |
| #3 | .7410283 | 1.857172 | .9320072 | 1.845882 | .7382921 | 1.734375 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1754166 | .1918046 | .1914833 | .9380399 | .3999249 | .1875990 | 11 |
| StdDev | .0018681 | .0011833 | .0007075 | .0041975 | .0048361 | .0007721 | 12 |
| %RSD | 1.064921 | .6169441 | .3694851 | .4474747 | 1.209243 | .4115659 | 13 |
| #1 | .1762111 | .1921937 | .1906905 | .9425876 | .3993948 | .1867310 | 14 |
| #2 | .1767560 | .1927444 | .1917091 | .9372181 | .4050041 | .1878569 | 15 |
| #3 | .1732826 | .1904757 | .1920504 | .9343142 | .3953757 | .1882092 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2821564 | 2.864867 | .1828927 | 1.925497 | .4713753 | .0750673 | |
| StdDev | .0026044 | .038146 | .0011945 | .016067 | .0015155 | .0005520 | |
| %RSD | .9230326 | 1.331509 | .6531384 | .8344479 | .3215086 | .7353071 | |
| #1 | .2793329 | 2.864718 | .1835634 | 1.943766 | .4696309 | .0750036 | |
| #2 | .2826715 | 2.903086 | .1836012 | 1.913560 | .4721268 | .0756484 | |
| #3 | .2844647 | 2.826795 | .1815136 | 1.919167 | .4723682 | .0745500 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.813803 | .2735239 | .1946703 | 9.092540 | .2703342 | .3781893 | |
| StdDev | .019921 | .0018979 | .0008783 | .080466 | .0009325 | .0026203 | |
| %RSD | .7079683 | .6938861 | .4511763 | .8849700 | .3449319 | .6928516 | |
| #1 | 2.806116 | .2751941 | .1940456 | 9.105231 | .2711495 | .3752292 | |
| #2 | 2.836422 | .2739177 | .1956746 | 9.165907 | .2705355 | .3791271 | |
| #3 | 2.798871 | .2714600 | .1942908 | 9.006483 | .2693175 | .3802117 | |

Sample Name: PB165887BS Acquired: 12/30/2024 17:25:37 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6517379 | .1798967 | F .7060145 | 5.360302 | F -.012722 | .1807664 | 5 |
| Stddev | .0024748 | .0016314 | .0129162 | .036436 | .000854 | .0002756 | 6 |
| %RSD | .3797250 | .9068755 | 1.829450 | .6797378 | 6.709296 | .1524552 | 7 |
| #1 | .6488864 | .1803604 | .6969223 | 5.320582 | -.012806 | .1807439 | 8 |
| #2 | .6533256 | .1812460 | .7207991 | 5.368148 | -.013530 | .1805028 | 9 |
| #3 | .6530017 | .1780836 | .7003222 | 5.392175 | -.011829 | .1810526 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .1783541 | | | | | | 13 |
| Stddev | .0010407 | | | | | | 14 |
| %RSD | .5834785 | | | | | | 15 |
| #1 | .1789309 | | | | | | 16 |
| #2 | .1789786 | | | | | | 17 |
| #3 | .1771527 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2670.873 | 57436.39 | 11775.28 | 1942.104 | 3988.024 | | |
| Stddev | 13.178 | 502.02 | 55.71 | 9.484 | 13.536 | | |
| %RSD | .4933812 | .8740533 | .4731435 | .4883168 | .3394230 | | |
| #1 | 2682.863 | 57609.53 | 11746.83 | 1945.733 | 3999.237 | | |
| #2 | 2672.991 | 56870.72 | 11739.54 | 1931.342 | 3991.847 | | |
| #3 | 2656.765 | 57828.93 | 11839.48 | 1949.238 | 3972.987 | | |

Sample Name: P5356-01 Acquired: 12/30/2024 17:29:36 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .002370 | -.008727 | .0004768 | .0004953 | .0020775 | .7305308 | 3 |
| StdDev | .002335 | .001159 | .0004600 | .0029046 | .0004642 | .0121375 | 4 |
| %RSD | 98.52168 | 13.27725 | 96.48184 | 586.4123 | 22.34378 | 1.661465 | 5 |
| #1 | .000227 | -.008576 | .0003078 | .0038106 | .0025681 | .7227733 | 6 |
| #2 | -.004295 | -.009954 | .0009974 | -.001602 | .0020193 | .7243009 | 7 |
| #3 | -.003041 | -.007651 | .0001252 | -.000723 | .0016452 | .7445182 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .0542178 | -.000119 | -.000111 | 64.75763 | .0045912 | .0006442 | 11 |
| StdDev | .0009726 | .000034 | .000090 | .59393 | .0001680 | .0000430 | 12 |
| %RSD | 1.793920 | 28.77108 | 81.32445 | .9171544 | 3.658682 | 6.672428 | 13 |
| #1 | .0550734 | -.000158 | -.000189 | 64.62674 | .0047720 | .0006285 | 14 |
| #2 | .0531599 | -.000104 | -.000132 | 64.24006 | .0044399 | .0006928 | 15 |
| #3 | .0544200 | -.000095 | -.000012 | 65.40608 | .0045619 | .0006112 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0136824 | 1.694152 | .7372650 | 11.22032 | .0064634 | .0000563 | |
| StdDev | .0004600 | .025747 | .0067565 | .13002 | .0003567 | .0003227 | |
| %RSD | 3.361793 | 1.519772 | .9164329 | 1.158754 | 5.518135 | 573.0216 | |
| #1 | .0131557 | 1.723285 | .7365891 | 11.20331 | .0068325 | .0002680 | |
| #2 | .0138860 | 1.674449 | .7308718 | 11.09965 | .0061207 | .0002160 | |
| #3 | .0140054 | 1.684723 | .7443341 | 11.35801 | .0064370 | -.000315 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 42.76240 | .0042397 | .0388544 | 1.323554 | .3710935 | .0060444 | |
| StdDev | .42287 | .0008720 | .0004059 | .039370 | .0051724 | .0001600 | |
| %RSD | .9888718 | 20.56700 | 1.044807 | 2.974536 | 1.393834 | 2.647615 | |
| #1 | 43.23427 | .0049727 | .0392568 | 1.352974 | .3693047 | .0058999 | |
| #2 | 42.41775 | .0044709 | .0384450 | 1.338858 | .3670530 | .0062164 | |
| #3 | 42.63517 | .0032754 | .0388613 | 1.278830 | .3769230 | .0060170 | |

Sample Name: P5356-01 Acquired: 12/30/2024 17:29:36 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .001174 | .0178511 | 8.493421 | .0287908 | F 31.72413 | -.011457 | 5 |
| Stddev | .000756 | .0005996 | .091292 | .0020058 | .24747 | .000824 | 6 |
| %RSD | 64.38326 | 3.358820 | 1.074857 | 6.966868 | .7800589 | 7.195707 | 7 |
| #1 | -.000728 | .0182967 | 8.591523 | .0310819 | 31.97561 | -.011341 | 8 |
| #2 | -.000747 | .0180873 | 8.410960 | .0279390 | 31.48088 | -.010696 | 9 |
| #3 | -.002047 | .0171694 | 8.477779 | .0273514 | 31.71590 | -.012333 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .3364096 | | | | | | 13 |
| Stddev | .0026336 | | | | | | 14 |
| %RSD | .7828430 | | | | | | 15 |
| #1 | .3367957 | | | | | | 16 |
| #2 | .3336043 | | | | | | 17 |
| #3 | .3388288 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2458.844 | 55523.48 | 11974.12 | 1842.372 | 3657.572 | | |
| Stddev | 20.211 | 473.56 | 112.04 | 9.718 | 29.059 | | |
| %RSD | .8219626 | .8528998 | .9357245 | .5274870 | .7944973 | | |
| #1 | 2435.514 | 55001.70 | 12016.39 | 1831.220 | 3624.038 | | |
| #2 | 2470.003 | 55926.02 | 12058.89 | 1849.031 | 3675.372 | | |
| #3 | 2471.016 | 55642.72 | 11847.09 | 1846.864 | 3673.304 | | |

Sample Name: P5356-01DUP Acquired: 12/30/2024 17:33:51 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .003771 | -.008026 | .0004706 | .0008624 | .0026618 | .7509848 | 3 |
| StdDev | .002855 | .001688 | .0000273 | .0013767 | .0018923 | .0045617 | 4 |
| %RSD | 75.70111 | 21.02789 | 5.801689 | 159.6325 | 71.08947 | .6074352 | 5 |
| #1 | -.001097 | -.008094 | .0005006 | .0021144 | .0039443 | .7457181 | 6 |
| #2 | -.003440 | -.009679 | .0004643 | -.000612 | .0004885 | .7536958 | 7 |
| #3 | -.006778 | -.006306 | .0004471 | .001085 | .0035526 | .7535404 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .0549446 | -.000100 | -.000111 | 64.90287 | .0043281 | .0007116 | 11 |
| StdDev | .0005451 | .000036 | .000112 | .12800 | .0001075 | .0001608 | 12 |
| %RSD | .9920374 | 36.27174 | 101.1099 | .1972124 | 2.482624 | 22.59982 | 13 |
| #1 | .0548716 | -.000116 | -.000180 | 65.03621 | .0042285 | .0005476 | 14 |
| #2 | .0544397 | -.000125 | -.000171 | 64.89142 | .0043139 | .0007181 | 15 |
| #3 | .0555225 | -.000058 | .000018 | 64.78099 | .0044420 | .0008690 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0139507 | 1.636901 | .7432392 | 11.30340 | .0065523 | .0002084 | |
| StdDev | .0001353 | .004555 | .0014014 | .05024 | .0001241 | .0000920 | |
| %RSD | .9700312 | .2782570 | .1885522 | .4444373 | 1.894369 | 44.16482 | |
| #1 | .0140895 | 1.640335 | .7448508 | 11.32008 | .0065643 | .0001602 | |
| #2 | .0139435 | 1.631734 | .7425593 | 11.24694 | .0066700 | .0001504 | |
| #3 | .0138192 | 1.638634 | .7423074 | 11.34317 | .0064226 | .0003145 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 40.81775 | .0041882 | .0381011 | 1.273127 | .3765379 | .0060096 | |
| StdDev | .07397 | .0011780 | .0000906 | .028474 | .0015040 | .0002390 | |
| %RSD | .1812263 | 28.12714 | .2376955 | 2.236531 | .3994345 | 3.977521 | |
| #1 | 40.79441 | .0054149 | .0380124 | 1.263034 | .3778584 | .0060908 | |
| #2 | 40.75827 | .0040837 | .0381934 | 1.305272 | .3768544 | .0057406 | |
| #3 | 40.90058 | .0030659 | .0380976 | 1.251074 | .3749008 | .0061975 | |

Sample Name: P5356-01DUP Acquired: 12/30/2024 17:33:51 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .001146 | .0192568 | 8.169382 | .0299518 | F 31.61069 | -.011280 | 5 |
| Stddev | .000304 | .0013279 | .032632 | .0027018 | .08056 | .000666 | 6 |
| %RSD | 26.55855 | 6.895631 | .3994456 | 9.020623 | .2548513 | 5.907880 | 7 |
| #1 | -.001494 | .0207772 | 8.188146 | .0327084 | 31.52824 | -.011013 | 8 |
| #2 | -.000926 | .0183243 | 8.131702 | .0298388 | 31.61460 | -.012039 | 9 |
| #3 | -.001019 | .0186689 | 8.188299 | .0273083 | 31.68922 | -.010789 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .3351773 | | | | | | 13 |
| Stddev | .0008595 | | | | | | 14 |
| %RSD | .2564258 | | | | | | 15 |
| #1 | .3359126 | | | | | | 16 |
| #2 | .3353869 | | | | | | 17 |
| #3 | .3342324 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2488.358 | 57074.19 | 11771.89 | 1889.568 | 3676.369 | | |
| Stddev | 6.122 | 202.41 | 42.11 | 5.274 | 1.817 | | |
| %RSD | .2460094 | .3546422 | .3577566 | .2790854 | .0494116 | | |
| #1 | 2484.369 | 57000.03 | 11724.52 | 1890.255 | 3677.797 | | |
| #2 | 2485.298 | 57303.22 | 11805.08 | 1894.464 | 3674.325 | | |
| #3 | 2495.406 | 56919.32 | 11786.08 | 1883.984 | 3676.986 | | |

Sample Name: P5356-01LX5 Acquired: 12/30/2024 17:38:06 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0007874 | -.003280 | -.000053 | .0014419 | -.000666 | .1695243 | .0139611 | 3 |
| StdDev | .0014197 | .000937 | .000670 | .0037505 | .001025 | .0025118 | .0006157 | 4 |
| %RSD | 180.3145 | 28.57633 | 1261.406 | 260.1156 | 153.9369 | 1.481661 | 4.410082 | 5 |
| #1 | .0022041 | -.003108 | .000028 | .0002405 | .000517 | .1704431 | .0145370 | 6 |
| #2 | -.000635 | -.004292 | -.000760 | .0056459 | -.001229 | .1714473 | .0133121 | 7 |
| #3 | .000793 | -.002441 | .000572 | -.001561 | -.001287 | .1666825 | .0140341 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000207 | .0000367 | 13.35294 | .0008545 | -.000059 | .0024407 | .3420325 | 11 |
| StdDev | .0000135 | .0000805 | .05362 | .0003658 | .000261 | .0004120 | .0059925 | 12 |
| %RSD | 65.37441 | 219.6758 | .4015594 | 42.81085 | 442.8921 | 16.87830 | 1.752016 | 13 |
| #1 | .0000054 | .0000993 | 13.38089 | .0005448 | -.000354 | .0029101 | .3489047 | 14 |
| #2 | .0000312 | .0000648 | 13.29112 | .0012581 | .000040 | .0022730 | .3392958 | 15 |
| #3 | .0000253 | -.000054 | 13.38681 | .0007605 | .000137 | .0021391 | .3378970 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .1543386 | 2.333023 | .0012672 | .0002661 | 8.037087 | .0014698 | .0075097 | |
| StdDev | .0014643 | .004355 | .0000733 | .0001925 | .035433 | .0023069 | .0001422 | |
| %RSD | .9487387 | .1866646 | 5.786712 | 72.34987 | .4408683 | 156.9594 | 1.893330 | |
| #1 | .1546812 | 2.337864 | .0012879 | .0003076 | 8.072773 | .0009057 | .0076193 | |
| #2 | .1527334 | 2.329424 | .0013279 | .0000562 | 8.036573 | .0040064 | .0073490 | |
| #3 | .1556012 | 2.331781 | .0011857 | .0004345 | 8.001913 | -.000503 | .0075607 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .2530004 | .0819696 | .0011086 | .0015079 | .0051665 | 1.653458 | .0009555 | |
| StdDev | .0085164 | .0004551 | .0002054 | .0005348 | .0005105 | .025327 | .0011065 | |
| %RSD | 3.366171 | .5551693 | 18.52945 | 35.46436 | 9.880743 | 1.531734 | 115.7985 | |
| #1 | .2543795 | .0823528 | .0013381 | .0009513 | .0057118 | 1.682004 | -.000110 | |
| #2 | .2438786 | .0820892 | .0009419 | .0015546 | .0046999 | 1.644689 | .002099 | |
| #3 | .2607431 | .0814666 | .0010458 | .0020178 | .0050878 | 1.633681 | .000878 | |

Sample Name: P5356-01LX5 Acquired: 12/30/2024 17:38:06 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| ELEM | S_1820 | Li6707 | Sr4077 | | | 1 |
| UNITS | ppm | ppm | ppm | | | 2 |
| Avg | 7.105656 | -.000695 | .0670877 | | | 3 |
| StdDev | .051458 | .000712 | .0003413 | | | 4 |
| %RSD | .7241856 | 102.4547 | .5087813 | | | 5 |
| #1 | 7.088754 | -.000048 | .0673903 | | | 6 |
| #2 | 7.064774 | -.000580 | .0667177 | | | 7 |
| #3 | 7.163439 | -.001457 | .0671551 | | | 8 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2510.827 | 56981.71 | 11477.49 | 1966.712 | 3635.428 | 11 |
| StdDev | 10.194 | 370.23 | 38.21 | 12.474 | 14.903 | 12 |
| %RSD | .4060205 | .6497380 | .3329502 | .6342641 | .4099447 | 13 |
| #1 | 2518.547 | 56640.74 | 11438.06 | 1955.083 | 3642.241 | 14 |
| #2 | 2514.662 | 56928.88 | 11514.36 | 1965.167 | 3645.707 | 15 |
| #3 | 2499.271 | 57375.53 | 11480.03 | 1979.887 | 3618.336 | 16 |
| | | | | | | 17 |
| | | | | | | 18 |

Sample Name: P5356-01MS Acquired: 12/30/2024 17:42:24 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7556960 | 1.789995 | .9097867 | 1.777438 | .7449901 | 2.510348 | 3 |
| StdDev | .0100985 | .025557 | .0089193 | .020740 | .0077436 | .009506 | 4 |
| %RSD | 1.336320 | 1.427788 | .9803675 | 1.166855 | 1.039417 | .3786678 | 5 |
| #1 | .7670802 | 1.818835 | .9193847 | 1.799895 | .7528433 | 2.519158 | 6 |
| #2 | .7521903 | 1.780994 | .9082222 | 1.773413 | .7447659 | 2.511612 | 7 |
| #3 | .7478175 | 1.770155 | .9017532 | 1.759005 | .7373610 | 2.500273 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .2257593 | .1880232 | .1890812 | 65.10297 | .3959589 | .1890096 | 11 |
| StdDev | .0004699 | .0007694 | .0021617 | .12617 | .0024645 | .0023556 | 12 |
| %RSD | .2081363 | .4092101 | 1.143283 | .1938079 | .6224128 | 1.246265 | 13 |
| #1 | .2263011 | .1886308 | .1914645 | 65.19942 | .3987894 | .1915202 | 14 |
| #2 | .2254640 | .1871580 | .1885323 | 64.96017 | .3947983 | .1886607 | 15 |
| #3 | .2255127 | .1882806 | .1872468 | 65.14931 | .3942890 | .1868480 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2902849 | 4.365968 | .9131166 | 13.09450 | .4743035 | .0715540 | |
| StdDev | .0039513 | .028347 | .0030452 | .06989 | .0057690 | .0006271 | |
| %RSD | 1.361168 | .6492635 | .3334905 | .5337041 | 1.216302 | .8764517 | |
| #1 | .2944228 | 4.398682 | .9166280 | 13.14282 | .4807125 | .0722398 | |
| #2 | .2898805 | 4.348693 | .9115209 | 13.01437 | .4726720 | .0714126 | |
| #3 | .2865514 | 4.350527 | .9112010 | 13.12630 | .4695259 | .0710097 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 42.40545 | .2817993 | .2264245 | 10.32788 | .6365692 | .3979865 | |
| StdDev | .33506 | .0011135 | .0015806 | .07742 | .0017951 | .0043551 | |
| %RSD | .7901459 | .3951406 | .6980758 | .7496404 | .2819985 | 1.094271 | |
| #1 | 42.68988 | .2830629 | .2282188 | 10.38050 | .6373048 | .4029546 | |
| #2 | 42.49037 | .2813731 | .2258169 | 10.36416 | .6345231 | .3961770 | |
| #3 | 42.03609 | .2809618 | .2252379 | 10.23898 | .6378797 | .3948279 | |

Sample Name: P5356-01MS Acquired: 12/30/2024 17:42:24 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6555174 | .1937971 | 8.680162 | 5.700194 | F 30.93567 | .1686002 | 5 |
| Stddev | .0075800 | .0002035 | .065163 | .070271 | .41664 | .0011398 | 6 |
| %RSD | 1.156342 | .1049893 | .7507064 | 1.232785 | 1.346789 | .6760470 | 7 |
| #1 | .6641652 | .1937202 | 8.736197 | 5.779538 | 31.40220 | .1672928 | 8 |
| #2 | .6523634 | .1940278 | 8.695633 | 5.675233 | 30.80417 | .1693851 | 9 |
| #3 | .6500236 | .1936433 | 8.608657 | 5.645811 | 30.60066 | .1691228 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .5055224 | | | | | | 13 |
| Stddev | .0009671 | | | | | | 14 |
| %RSD | .1913046 | | | | | | 15 |
| #1 | .5059914 | | | | | | 16 |
| #2 | .5061655 | | | | | | 17 |
| #3 | .5044102 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2455.522 | 55406.18 | 11226.75 | 1864.625 | 3629.454 | | |
| Stddev | 29.243 | 345.92 | 22.42 | 13.535 | 41.750 | | |
| %RSD | 1.190894 | .6243327 | .1997151 | .7258852 | 1.150318 | | |
| #1 | 2422.771 | 55046.21 | 11211.69 | 1851.183 | 3583.687 | | |
| #2 | 2464.780 | 55436.24 | 11252.52 | 1864.441 | 3639.221 | | |
| #3 | 2479.015 | 55736.09 | 11216.05 | 1878.251 | 3665.456 | | |

Sample Name: P5356-01MSD Acquired: 12/30/2024 17:46:21 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7483938 | 1.794621 | .9068942 | 1.795938 | .7441215 | 2.547224 | 3 |
| StdDev | .0052990 | .016374 | .0050646 | .011380 | .0051173 | .012412 | 4 |
| %RSD | .7080553 | .9123679 | .5584519 | .6336390 | .6876937 | .4872828 | 5 |
| #1 | .7425951 | 1.775822 | .9019618 | 1.792963 | .7387558 | 2.536295 | 6 |
| #2 | .7496017 | 1.802279 | .9066394 | 1.786342 | .7446611 | 2.560719 | 7 |
| #3 | .7529846 | 1.805763 | .9120813 | 1.808510 | .7489476 | 2.544660 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .2245252 | .1858934 | .1885767 | 65.11367 | .3940183 | .1874919 | 11 |
| StdDev | .0015225 | .0006526 | .0013635 | .33402 | .0009654 | .0015493 | 12 |
| %RSD | .6780808 | .3510662 | .7230423 | .5129754 | .2450104 | .8263266 | 13 |
| #1 | .2249941 | .1860209 | .1870235 | 65.15831 | .3947690 | .1857621 | 14 |
| #2 | .2257582 | .1864727 | .1891306 | 65.42312 | .3943566 | .1879616 | 15 |
| #3 | .2228235 | .1851864 | .1895761 | 64.75958 | .3929293 | .1887520 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2875182 | 4.291370 | .9013628 | 13.23095 | .4709253 | .0703440 | |
| StdDev | .0015209 | .022288 | .0036779 | .10367 | .0027397 | .0008401 | |
| %RSD | .5289586 | .5193767 | .4080411 | .7835351 | .5817693 | 1.194295 | |
| #1 | .2858249 | 4.280547 | .8994765 | 13.14846 | .4678833 | .0709520 | |
| #2 | .2879616 | 4.317003 | .9056012 | 13.34732 | .4716943 | .0706946 | |
| #3 | .2887680 | 4.276559 | .8990108 | 13.19707 | .4731983 | .0693854 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 41.52990 | .2786197 | .2259558 | 10.09044 | .6279809 | .3935942 | |
| StdDev | .23267 | .0022382 | .0017697 | .08522 | .0028954 | .0020305 | |
| %RSD | .5602371 | .8033178 | .7831977 | .8446107 | .4610669 | .5158793 | |
| #1 | 41.50272 | .2804637 | .2272641 | 10.11383 | .6287506 | .3913466 | |
| #2 | 41.77496 | .2792659 | .2266610 | 10.16152 | .6304137 | .3941400 | |
| #3 | 41.31201 | .2761295 | .2239422 | 9.99596 | .6247784 | .3952959 | |

Sample Name: P5356-01MSD Acquired: 12/30/2024 17:46:21 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6513272 | .1977918 | 8.598055 | 5.720447 | F 31.00654 | .1671249 | 5 |
| Stddev | .0036355 | .0010263 | .049823 | .047399 | .20646 | .0029561 | 6 |
| %RSD | .5581694 | .5188679 | .5794691 | .8285847 | .6658475 | 1.768819 | 7 |
| #1 | .6473582 | .1980753 | 8.585980 | 5.669801 | 30.77251 | .1667452 | 8 |
| #2 | .6521277 | .1986466 | 8.652806 | 5.727801 | 31.08425 | .1702525 | 9 |
| #3 | .6544958 | .1966536 | 8.555379 | 5.763739 | 31.16287 | .1643769 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .5041408 | | | | | | 13 |
| Stddev | .0032096 | | | | | | 14 |
| %RSD | .6366521 | | | | | | 15 |
| #1 | .5042775 | | | | | | 16 |
| #2 | .5072798 | | | | | | 17 |
| #3 | .5008650 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2466.345 | 56733.09 | 11320.53 | 1877.577 | 3637.530 | | |
| Stddev | 9.976 | 193.50 | 44.37 | 4.733 | 17.656 | | |
| %RSD | .4044882 | .3410657 | .3919390 | .2520670 | .4853855 | | |
| #1 | 2477.564 | 56662.25 | 11299.62 | 1876.308 | 3657.647 | | |
| #2 | 2463.000 | 56585.00 | 11290.47 | 1873.609 | 3630.343 | | |
| #3 | 2458.472 | 56952.03 | 11371.49 | 1882.815 | 3624.601 | | |

Sample Name: P5356-01A Acquired: 12/30/2024 17:50:19 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7518141 | 1.782639 | .9064958 | 1.786151 | .7489762 | 2.573628 | 3 |
| StdDev | .0153213 | .030116 | .0180637 | .027589 | .0104254 | .017760 | 4 |
| %RSD | 2.037915 | 1.689387 | 1.992696 | 1.544581 | 1.391954 | .6900624 | 5 |
| #1 | .7454284 | 1.775966 | .8967443 | 1.767482 | .7447303 | 2.570260 | 6 |
| #2 | .7407184 | 1.756419 | .8954034 | 1.773132 | .7413437 | 2.557793 | 7 |
| #3 | .7692954 | 1.815531 | .9273396 | 1.817841 | .7608546 | 2.592830 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .2234788 | .1877387 | .1887533 | 64.82258 | .3989756 | .1880717 | 11 |
| StdDev | .0012414 | .0008642 | .0036173 | .34221 | .0030476 | .0041005 | 12 |
| %RSD | .5554742 | .4603091 | 1.916399 | .5279154 | .7638572 | 2.180261 | 13 |
| #1 | .2230780 | .1875652 | .1868635 | 64.78749 | .3968352 | .1859784 | 14 |
| #2 | .2224873 | .1869743 | .1864724 | 64.49926 | .4024649 | .1854404 | 15 |
| #3 | .2248710 | .1886764 | .1929240 | 65.18098 | .3976267 | .1927963 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2886791 | 4.396689 | .9015486 | 13.12715 | .4718791 | .0718052 | |
| StdDev | .0058941 | .021989 | .0018637 | .09453 | .0094958 | .0006460 | |
| %RSD | 2.041766 | .5001191 | .2067190 | .7201002 | 2.012333 | .8996323 | |
| #1 | .2851919 | 4.371511 | .8995255 | 13.08689 | .4666735 | .0710611 | |
| #2 | .2853610 | 4.412112 | .9019247 | 13.05941 | .4661244 | .0722225 | |
| #3 | .2954844 | 4.406446 | .9031955 | 13.23514 | .4828392 | .0721320 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 42.33623 | .2790007 | .2274943 | 10.27460 | .6343505 | .3958970 | |
| StdDev | .17198 | .0023792 | .0007597 | .08508 | .0039163 | .0078398 | |
| %RSD | .4062150 | .8527410 | .3339361 | .8280308 | .6173763 | 1.980271 | |
| #1 | 42.15943 | .2762694 | .2280059 | 10.21083 | .6329092 | .3914327 | |
| #2 | 42.50293 | .2801098 | .2278555 | 10.37120 | .6313590 | .3913090 | |
| #3 | 42.34634 | .2806227 | .2266214 | 10.24176 | .6387832 | .4049494 | |

Sample Name: P5356-01A Acquired: 12/30/2024 17:50:19 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6531986 | .1984267 | 8.775274 | 5.648659 | F 30.76651 | .1677504 | 5 |
| Stddev | .0135569 | .0018981 | .049665 | .118058 | .55727 | .0015230 | 6 |
| %RSD | 2.075456 | .9565694 | .5659642 | 2.090024 | 1.811303 | .9078979 | 7 |
| #1 | .6470980 | .1992240 | 8.735049 | 5.581649 | 30.46982 | .1667853 | 8 |
| #2 | .6437639 | .1962600 | 8.830785 | 5.579354 | 30.42035 | .1669598 | 9 |
| #3 | .6687339 | .1997961 | 8.759987 | 5.784975 | 31.40937 | .1695061 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .5016831 | | | | | | 13 |
| Stddev | .0022711 | | | | | | 14 |
| %RSD | .4526992 | | | | | | 15 |
| #1 | .5017835 | | | | | | 16 |
| #2 | .4993635 | | | | | | 17 |
| #3 | .5039024 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2471.593 | 55573.84 | 11285.45 | 1852.606 | 3654.999 | | |
| Stddev | 44.857 | 241.34 | 46.67 | 7.618 | 68.955 | | |
| %RSD | 1.814885 | .4342656 | .4135475 | .4112300 | 1.886603 | | |
| #1 | 2495.990 | 55708.86 | 11265.53 | 1849.705 | 3691.026 | | |
| #2 | 2498.965 | 55295.21 | 11338.78 | 1846.863 | 3698.478 | | |
| #3 | 2419.826 | 55717.45 | 11252.05 | 1861.248 | 3575.492 | | |

Sample Name: CCV05 Acquired: 12/30/2024 17:54:17 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | 4.787428 | 4.795360 | 4.896673 | 4.952974 | 4.930477 | 9.422352 | 9.077163 | 3 |
| StdDev | .006429 | .027064 | .009025 | .011331 | .011444 | .056967 | .038373 | 4 |
| %RSD | .1342938 | .5643705 | .1843131 | .2287662 | .2321014 | .6045957 | .4227395 | 5 |
| #1 | 4.794470 | 4.805493 | 4.906321 | 4.965580 | 4.933900 | 9.423259 | 9.120742 | 6 |
| #2 | 4.781872 | 4.815895 | 4.895260 | 4.949705 | 4.917713 | 9.478860 | 9.062310 | 7 |
| #3 | 4.785941 | 4.764692 | 4.888438 | 4.943637 | 4.939819 | 9.364937 | 9.048437 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .2566595 | 2.515461 | 24.40567 | .9987453 | 2.433580 | 1.196185 | 4.739987 | 11 |
| StdDev | .0009397 | .006471 | .10183 | .0048702 | .004742 | .002707 | .038548 | 12 |
| %RSD | .3661419 | .2572580 | .4172398 | .4876331 | .1948487 | .2262811 | .8132438 | 13 |
| #1 | .2572722 | 2.519866 | 24.41025 | .9939145 | 2.436148 | 1.197617 | 4.695888 | 14 |
| #2 | .2571288 | 2.518485 | 24.50513 | .9986673 | 2.436485 | 1.193063 | 4.756805 | 15 |
| #3 | .2555775 | 2.508031 | 24.30163 | 1.003654 | 2.428108 | 1.197875 | 4.767268 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 2.357499 | 25.65907 | 2.440275 | 1.219461 | 22.89325 | 2.387982 | 2.408929 | |
| StdDev | .015440 | .08430 | .003930 | .005700 | .13869 | .010565 | .013683 | |
| %RSD | .6549312 | .3285233 | .1610497 | .4673955 | .6058070 | .4424116 | .5680206 | |
| #1 | 2.366138 | 25.68834 | 2.443884 | 1.213615 | 22.73621 | 2.392834 | 2.395003 | |
| #2 | 2.366686 | 25.72483 | 2.440852 | 1.219765 | 22.94455 | 2.395250 | 2.409426 | |
| #3 | 2.339673 | 25.56404 | 2.436088 | 1.225002 | 22.99897 | 2.375863 | 2.422356 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 22.98702 | 4.962641 | 4.788178 | 4.891036 | 4.690100 | 4.698739 | 4.988358 | |
| StdDev | .17233 | .012002 | .010233 | .013539 | .022136 | .032434 | .021839 | |
| %RSD | .7496796 | .2418530 | .2137117 | .2768113 | .4719691 | .6902728 | .4377982 | |
| #1 | 22.79402 | 4.975850 | 4.799851 | 4.897427 | 4.693350 | 4.668968 | 5.002713 | |
| #2 | 23.04155 | 4.959668 | 4.783932 | 4.900197 | 4.710431 | 4.693946 | 4.999136 | |
| #3 | 23.12548 | 4.952404 | 4.780752 | 4.875485 | 4.666518 | 4.733303 | 4.963225 | |

Sample Name: CCV05 Acquired: 12/30/2024 17:54:17 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 4.762166 | 4.543193 | 4.699396 | |
| Stddev | .008875 | .015110 | .027492 | |
| %RSD | .1863686 | .3325817 | .5850100 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 4.771975 | 4.545393 | 4.728008 | |
| #2 | 4.759830 | 4.557082 | 4.673182 | |
| #3 | 4.754692 | 4.527104 | 4.696997 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2521.986 | 55890.76 | 10973.23 | 1885.116 | 3634.388 |
| Stddev | 8.478 | 161.46 | 57.12 | 11.285 | 8.367 |
| %RSD | .3361832 | .2888848 | .5205383 | .5986465 | .2302132 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2512.381 | 56073.77 | 10937.00 | 1897.459 | 3625.936 |
| #2 | 2528.431 | 55830.08 | 10943.62 | 1875.325 | 3634.559 |
| #3 | 2525.145 | 55768.44 | 11039.08 | 1882.565 | 3642.667 |

Sample Name: CCB05 Acquired: 12/30/2024 17:58:28 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0017612 | -.001287 | -.000117 | -.001773 | -.000351 | -.000729 | .0024297 | 3 |
| StdDev | .0022392 | .001143 | .001140 | .002192 | .001716 | .001718 | .0004492 | 4 |
| %RSD | 127.1382 | 88.76577 | 972.6336 | 123.6269 | 488.2689 | 235.6704 | 18.48762 | 5 |
| #1 | .0043178 | -.000035 | .000027 | .000682 | .000197 | -.002638 | .0019754 | 6 |
| #2 | .0008175 | -.001554 | -.001323 | -.002467 | .001023 | .000695 | .0028737 | 7 |
| #3 | .0001484 | -.002273 | .000944 | -.003533 | -.002275 | -.000245 | .0024400 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000192 | .0002369 | .0020979 | -.000507 | -.000108 | -.000300 | -.001154 | 11 |
| StdDev | .0000233 | .0000921 | .0027871 | .000305 | .000152 | .000289 | .003277 | 12 |
| %RSD | 121.1842 | 38.87704 | 132.8515 | 60.11095 | 140.5238 | 96.44516 | 284.0766 | 13 |
| #1 | .0000108 | .0002442 | .0053155 | -.000686 | -.000075 | -.000277 | -.004870 | 14 |
| #2 | .0000455 | .0001413 | .0005402 | -.000681 | -.000275 | -.000022 | .001318 | 15 |
| #3 | .0000013 | .0003250 | .0004379 | -.000155 | .000025 | -.000599 | .000092 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.000955 | -.002510 | -.000236 | .0003029 | .0472728 | .0003344 | -.000283 | |
| StdDev | .000071 | .028739 | .000172 | .0005375 | .0022100 | .0009828 | .000034 | |
| %RSD | 7.413189 | 1144.999 | 72.58160 | 177.4814 | 4.674889 | 293.9244 | 12.01550 | |
| #1 | -.001018 | -.014518 | -.000435 | .0008910 | .0467166 | -.000683 | -.000299 | |
| #2 | -.000968 | .030285 | -.000141 | -.000163 | .0497077 | .001278 | -.000305 | |
| #3 | -.000878 | -.023297 | -.000134 | .000181 | .0453940 | .000408 | -.000244 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .0778474 | .0017724 | .0003083 | .0025669 | .0003494 | -.011169 | -.002774 | |
| StdDev | .0313554 | .0003771 | .0000137 | .0003356 | .0000919 | .003165 | .002196 | |
| %RSD | 40.27800 | 21.27613 | 4.448262 | 13.07555 | 26.29985 | 28.34021 | 79.15629 | |
| #1 | .0577447 | .0019310 | .0003238 | .0027502 | .0004415 | -.014464 | -.000239 | |
| #2 | .0618206 | .0020443 | .0003030 | .0027710 | .0002577 | -.010893 | -.004092 | |
| #3 | .1139770 | .0013419 | .0002980 | .0021795 | .0003491 | -.008151 | -.003990 | |

Sample Name: CCB05 Acquired: 12/30/2024 17:58:28 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .0007771 | .0001195 | .0000354 | | | 3 |
| Stddev | .0004935 | .0006568 | .0000136 | | | 4 |
| %RSD | 63.50166 | 549.6127 | 38.30211 | | | 5 |
| #1 | .0002103 | .0007958 | .0000483 | | | 6 |
| #2 | .0011112 | .0000785 | .0000368 | | | 7 |
| #3 | .0010099 | -.000516 | .0000212 | | | 8 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2664.907 | 58290.66 | 11594.29 | 2004.137 | 3904.626 | 11 |
| Stddev | 15.819 | 386.11 | 65.46 | 27.014 | 22.112 | 12 |
| %RSD | .5936002 | .6623906 | .5645514 | 1.347934 | .5663044 | 13 |
| #1 | 2681.106 | 57873.28 | 11521.46 | 1974.771 | 3927.633 | 14 |
| #2 | 2649.497 | 58635.10 | 11648.22 | 2027.930 | 3883.534 | 15 |
| #3 | 2664.118 | 58363.60 | 11613.18 | 2009.711 | 3902.710 | 16 |
| | | | | | | 17 |
| | | | | | | 18 |

Sample Name: P5377-02DLX5 Acquired: 12/30/2024 18:02:48 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .007500 | .0315513 | -.000691 | .5023686 | -.005730 | .0413854 | .0336487 | 3 |
| StdDev | .001074 | .0002569 | .000734 | .0020167 | .000422 | .0031239 | .0003522 | 4 |
| %RSD | 14.32539 | .8142789 | 106.2730 | .4014382 | 7.357191 | 7.548427 | 1.046810 | 5 |
| #1 | -.008663 | .0315395 | -.000127 | .5017375 | -.006030 | .0410753 | .0332479 | 6 |
| #2 | -.007296 | .0313005 | -.000424 | .5046254 | -.005913 | .0446529 | .0337894 | 7 |
| #3 | -.006543 | .0318139 | -.001521 | .5007430 | -.005248 | .0384281 | .0339089 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0001573 | -.000237 | .3717660 | .0001787 | .0007636 | .0089275 | .7221262 | 11 |
| StdDev | .0000213 | .0000033 | .0029324 | .0001654 | .0001943 | .0002082 | .0088144 | 12 |
| %RSD | 13.54726 | 13.76237 | .7887792 | 92.54410 | 25.43888 | 2.331986 | 1.220625 | 13 |
| #1 | .0001526 | -.000235 | .3744439 | .0003655 | .0009572 | .0086872 | .7285982 | 14 |
| #2 | .0001806 | -.000271 | .3722216 | .0001197 | .0007650 | .0090532 | .7120873 | 15 |
| #3 | .0001388 | -.000206 | .3686324 | .0000509 | .0005687 | .0090420 | .7256930 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | .0124216 | .1026091 | .0011740 | .0006316 | 8.357216 | -.001244 | .1352701 | |
| StdDev | .0002333 | .0078485 | .0001150 | .0001750 | .031068 | .000731 | .0007313 | |
| %RSD | 1.878181 | 7.648930 | 9.799395 | 27.70542 | .3717521 | 58.79546 | .5406172 | |
| #1 | .0126069 | .0949585 | .0012961 | .0005175 | 8.392366 | -.001928 | .1353082 | |
| #2 | .0121596 | .1106415 | .0010676 | .0008330 | 8.345852 | -.001331 | .1359815 | |
| #3 | .0124983 | .1022274 | .0011582 | .0005441 | 8.333430 | -.000473 | .1345204 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 34.07715 | -.058386 | .0037341 | .0680558 | .0006343 | .1447531 | 7.669008 | |
| StdDev | .07998 | .000160 | .0000840 | .0004513 | .0001780 | .0042318 | .025273 | |
| %RSD | .2346931 | .2745562 | 2.250124 | .6631180 | 28.05820 | 2.923472 | .3295426 | |
| #1 | 34.16351 | -.058208 | .0036637 | .0680451 | .0005942 | .1490710 | 7.649460 | |
| #2 | 34.00563 | -.058520 | .0037115 | .0676099 | .0004797 | .1445753 | 7.660017 | |
| #3 | 34.06232 | -.058429 | .0038271 | .0685123 | .0008288 | .1406129 | 7.697547 | |

Sample Name: P5377-02DLX5 Acquired: 12/30/2024 18:02:48 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 1.748463 | .0029025 | .0028374 | |
| Stddev | .005996 | .0004065 | .0000326 | |
| %RSD | .3429370 | 14.00579 | 1.149120 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 1.749238 | .0024744 | .0028257 | |
| #2 | 1.742118 | .0032834 | .0028742 | |
| #3 | 1.754035 | .0029499 | .0028122 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2283.529 | 55374.29 | 12736.29 | 1728.245 | 4099.354 |
| Stddev | 16.298 | 302.36 | 17.88 | 7.979 | 20.200 |
| %RSD | .7137393 | .5460221 | .1403663 | .4616736 | .4927564 |
| #1 | 2296.471 | 55027.45 | 12738.49 | 1719.047 | 4116.595 |
| #2 | 2288.892 | 55582.28 | 12752.97 | 1732.390 | 4104.337 |
| #3 | 2265.225 | 55513.13 | 12717.42 | 1733.298 | 4077.128 |

| | | | | | | |
|--------------|---------------------------|-------------|---------------------|---------------|----------|----------|
| Sample Name: | P5386-05 | Acquired: | 12/30/2024 18:07:04 | Type: | Unk | |
| Method: | NON EPA-6010-200.7(v2560) | Mode: | CONC | Corr. Factor: | 1.000000 | |
| User: | Kareem | Custom ID1: | Custom ID2: | Custom ID3: | | |
| Comment: | | | | | | |
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0613025 | -.009128 | 1.738485 | -.005431 | .0074169 | 28.24412 |
| StdDev | .0040841 | .002015 | .004484 | .002051 | .0034246 | .03475 |
| %RSD | 6.662248 | 22.07975 | .2579043 | 37.76997 | 46.17291 | .1230201 |
| #1 | .0659150 | -.007757 | 1.741903 | -.003166 | .0053198 | 28.22801 |
| #2 | .0598470 | -.011442 | 1.740144 | -.005963 | .0055620 | 28.22036 |
| #3 | .0581456 | -.008184 | 1.733408 | -.007164 | .0113688 | 28.28400 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2411099 | .0020292 | .0188103 | 80.38262 | .0608296 | .0202925 |
| StdDev | .0007716 | .0000242 | .0000932 | .39861 | .0005304 | .0001918 |
| %RSD | .3200310 | 1.191927 | .4952725 | .4958875 | .8719818 | .9452632 |
| #1 | .2419835 | .0020555 | .0189152 | 80.68229 | .0602237 | .0204988 |
| #2 | .2405212 | .0020080 | .0187787 | 79.93024 | .0610552 | .0201196 |
| #3 | .2408251 | .0020240 | .0187371 | 80.53534 | .0612101 | .0202590 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4050516 | 41.17669 | .4563331 | 16.08889 | .0506169 | -.002225 |
| StdDev | .0005176 | .01823 | .0018550 | .08854 | .0006613 | .000183 |
| %RSD | .1277927 | .0442729 | .4065089 | .5503205 | 1.306510 | 8.201579 |
| #1 | .4056303 | 41.15677 | .4581769 | 16.11413 | .0508785 | -.002267 |
| #2 | .4046329 | 41.19255 | .4544670 | 15.99047 | .0511074 | -.002383 |
| #3 | .4048914 | 41.18075 | .4563553 | 16.16207 | .0498648 | -.002025 |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 220.1122 | .0938048 | 10.26859 | 17.04158 | .1376702 | .0092090 |
| StdDev | 1.2426 | .0021341 | .02093 | .06392 | .0004599 | .0002967 |
| %RSD | .5645521 | 2.275067 | .2038579 | .3750955 | .3340339 | 3.222126 |
| #1 | 219.7281 | .0955742 | 10.29160 | 16.96834 | .1381938 | .0095273 |
| #2 | 219.1070 | .0914347 | 10.26349 | 17.08616 | .1373316 | .0089400 |
| #3 | 221.5016 | .0944054 | 10.25067 | 17.07023 | .1374854 | .0091597 |

Sample Name: P5386-05 Acquired: 12/30/2024 18:07:04 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0039197 | .8505450 | F 50.47197 | 1.431777 | F 16.13247 | .0142909 | 5 |
| Stddev | .0012948 | .0008172 | .18021 | .005983 | .03533 | .0006717 | 6 |
| %RSD | 33.03278 | .0960751 | .3570464 | .4178646 | .2189809 | 4.699984 | 7 |
| #1 | .0033924 | .8502261 | 50.27998 | 1.438328 | 16.16132 | .0146046 | 8 |
| #2 | .0053950 | .8499354 | 50.49848 | 1.430402 | 16.14303 | .0147484 | 9 |
| #3 | .0029718 | .8514736 | 50.63746 | 1.426602 | 16.09307 | .0135198 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .3830423 | | | | | | 13 |
| Stddev | .0007213 | | | | | | 14 |
| %RSD | .1883126 | | | | | | 15 |
| #1 | .3835504 | | | | | | 16 |
| #2 | .3822167 | | | | | | 17 |
| #3 | .3833599 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2449.207 | 54348.89 | 11948.77 | 1810.895 | 3490.038 | | |
| Stddev | 3.448 | 85.51 | 51.73 | 5.059 | 12.581 | | |
| %RSD | .1407627 | .1573328 | .4328916 | .2793909 | .3604801 | | |
| #1 | 2447.191 | 54355.60 | 11889.04 | 1806.809 | 3479.944 | | |
| #2 | 2447.242 | 54260.23 | 11978.49 | 1809.321 | 3486.037 | | |
| #3 | 2453.188 | 54430.85 | 11978.78 | 1816.554 | 3504.133 | | |

Sample Name: PB165879BL Acquired: 12/30/2024 18:11:24 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0003396 | -.002551 | .0000029 | .0013608 | -.000135 | -.004272 | .0027782 | 3 |
| StdDev | .0015802 | .000900 | .0002490 | .0013562 | .000825 | .005190 | .0008854 | 4 |
| %RSD | 465.2933 | 35.28605 | 8610.019 | 99.66355 | 609.6013 | 121.4809 | 31.86871 | 5 |
| #1 | .0003828 | -.002162 | -.000061 | -.000139 | -.000198 | -.004733 | .0035892 | 6 |
| #2 | -.001262 | -.001911 | -.000208 | .002500 | .000719 | .001133 | .0029119 | 7 |
| #3 | .001898 | -.003581 | .000278 | .001721 | -.000928 | -.009215 | .0018336 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000163 | .0000379 | .0055248 | -.000240 | -.000154 | -.000395 | -.000230 | 11 |
| StdDev | .0000079 | .0000539 | .0041736 | .000177 | .000057 | .000285 | .001457 | 12 |
| %RSD | 48.75640 | 142.1142 | 75.54285 | 73.73505 | 36.71595 | 72.25784 | 634.4759 | 13 |
| #1 | .0000100 | .0000004 | .0077960 | -.000284 | -.000201 | -.000123 | -.001047 | 14 |
| #2 | .0000136 | .0000137 | .0080703 | -.000392 | -.000091 | -.000692 | .001452 | 15 |
| #3 | .0000252 | .0000997 | .0007082 | -.000045 | -.000170 | -.000370 | -.001094 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.001109 | -.003252 | -.000122 | .0005914 | .0496743 | .0008793 | .0002739 | |
| StdDev | .000209 | .009862 | .000313 | .0004357 | .0024274 | .0004114 | .0003640 | |
| %RSD | 18.87308 | 303.2837 | 255.2975 | 73.68014 | 4.886583 | 46.78925 | 132.8849 | |
| #1 | -.000941 | -.014252 | .000158 | .0002555 | .0475422 | .0005869 | .0005948 | |
| #2 | -.001343 | .004801 | -.000065 | .0004349 | .0491646 | .0013497 | -.000122 | |
| #3 | -.001043 | -.000305 | -.000460 | .0010837 | .0523160 | .0007012 | .000348 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .0531302 | -.004583 | -.000178 | .0033665 | .0002959 | -.008346 | -.004678 | |
| StdDev | .0173242 | .000421 | .000230 | .0001999 | .0005173 | .004191 | .002358 | |
| %RSD | 32.60709 | 9.178118 | 129.2334 | 5.936267 | 174.7837 | 50.21985 | 50.40888 | |
| #1 | .0331290 | -.004129 | .000077 | .0034507 | -.000266 | -.006267 | -.004012 | |
| #2 | .0628277 | -.004959 | -.000369 | .0035105 | .000401 | -.013171 | -.007298 | |
| #3 | .0634338 | -.004663 | -.000242 | .0031384 | .000753 | -.005601 | -.002725 | |

Sample Name: PB165879BL Acquired: 12/30/2024 18:11:24 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | .0034008 | .0008298 | -.000072 | |
| StdDev | .0033453 | .0008731 | .000038 | |
| %RSD | 98.36885 | 105.2140 | 52.19848 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .0052649 | .0017979 | -.000075 | |
| #2 | -.000461 | .0005891 | -.000033 | |
| #3 | .005399 | .0001023 | -.000109 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2618.295 | 58854.12 | 11878.10 | 2001.634 | 3825.186 |
| StdDev | 40.452 | 216.29 | 92.03 | 14.078 | 67.324 |
| %RSD | 1.544990 | .3675083 | .7747523 | .7033397 | 1.760006 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2650.480 | 58990.83 | 11830.74 | 2015.224 | 3879.173 |
| #2 | 2572.886 | 58966.78 | 11819.40 | 2002.565 | 3749.752 |
| #3 | 2631.521 | 58604.75 | 11984.16 | 1987.114 | 3846.633 |

Sample Name: PB165879BS Acquired: 12/30/2024 18:15:45 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7799204 | 1.898094 | .9575557 | 1.997041 | .7804548 | 1.801329 | 3 |
| StdDev | .0018983 | .014557 | .0023031 | .012675 | .0029980 | .002708 | 4 |
| %RSD | .2433931 | .7669483 | .2405141 | .6346932 | .3841295 | .1503413 | 5 |
| #1 | .7777308 | 1.884278 | .9565535 | 1.982785 | .7772556 | 1.802138 | 6 |
| #2 | .7809269 | 1.913294 | .9601901 | 2.007039 | .7831996 | 1.803540 | 7 |
| #3 | .7811033 | 1.896711 | .9559236 | 2.001299 | .7809092 | 1.798308 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1727059 | .2035246 | .2019066 | .9588999 | .4000191 | .1935140 | 11 |
| StdDev | .0005222 | .0002314 | .0002391 | .0090179 | .0012074 | .0003032 | 12 |
| %RSD | .3023778 | .1137119 | .1184230 | .9404398 | .3018320 | .1566803 | 13 |
| #1 | .1725456 | .2034169 | .2017701 | .9486421 | .4011400 | .1932945 | 14 |
| #2 | .1722826 | .2033666 | .2021827 | .9624777 | .4001766 | .1938600 | 15 |
| #3 | .1732895 | .2037902 | .2017670 | .9655798 | .3987407 | .1933876 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2908846 | 2.784898 | .1833534 | 2.055476 | .4885765 | .0751052 | |
| StdDev | .0003447 | .012319 | .0006726 | .019793 | .0008405 | .0004150 | |
| %RSD | .1184970 | .4423559 | .3668322 | .9629353 | .1720229 | .5525525 | |
| #1 | .2909475 | 2.773389 | .1825860 | 2.046598 | .4879620 | .0746642 | |
| #2 | .2911935 | 2.797893 | .1836333 | 2.041677 | .4895343 | .0754880 | |
| #3 | .2905128 | 2.783411 | .1838408 | 2.078154 | .4882333 | .0751636 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.716105 | .2772319 | .1949589 | 8.777253 | .2846625 | .3812877 | |
| StdDev | .011607 | .0018703 | .0009912 | .034356 | .0006394 | .0003516 | |
| %RSD | .4273359 | .6746160 | .5084150 | .3914211 | .2246021 | .0922103 | |
| #1 | 2.720451 | .2752274 | .1955574 | 8.775178 | .2850841 | .3810177 | |
| #2 | 2.724912 | .2789300 | .1938148 | 8.812599 | .2839268 | .3816852 | |
| #3 | 2.702952 | .2775383 | .1955045 | 8.743981 | .2849764 | .3811600 | |

Sample Name: PB165879BS Acquired: 12/30/2024 18:15:45 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6775355 | .1807680 | F .6908495 | 5.870325 | F -.007857 | .1832137 | 5 |
| Stddev | .0034202 | .0001894 | .0107489 | .014981 | .002681 | .0013782 | 6 |
| %RSD | .5047984 | .1047940 | 1.555895 | .2551968 | 34.11976 | .7522565 | 7 |
| #1 | .6735969 | .1808941 | .6949209 | 5.859857 | -.005019 | .1831349 | 8 |
| #2 | .6797555 | .1805501 | .6786597 | 5.887486 | -.010347 | .1846297 | 9 |
| #3 | .6792542 | .1808596 | .6989680 | 5.863632 | -.008205 | .1818766 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .1774146 | | | | | | 13 |
| Stddev | .0007467 | | | | | | 14 |
| %RSD | .4208544 | | | | | | 15 |
| #1 | .1765865 | | | | | | 16 |
| #2 | .1776206 | | | | | | 17 |
| #3 | .1780366 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2581.304 | 57833.86 | 11321.50 | 1952.999 | 3781.284 | | |
| Stddev | 5.148 | 130.62 | 18.83 | 2.670 | 8.677 | | |
| %RSD | .1994276 | .2258458 | .1663208 | .1367328 | .2294637 | | |
| #1 | 2586.761 | 57752.62 | 11321.20 | 1949.915 | 3790.107 | | |
| #2 | 2576.534 | 57764.43 | 11340.48 | 1954.540 | 3772.762 | | |
| #3 | 2580.617 | 57984.53 | 11302.82 | 1954.540 | 3780.984 | | |

Sample Name: P5390-01 Acquired: 12/30/2024 18:19:45 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0330687 | -.005663 | .3011406 | -.052788 | -.007540 | 94.27232 | .4386352 |
| StdDev | .0022662 | .001913 | .0011019 | .004095 | .001045 | 2.43599 | .0123933 |
| %RSD | 6.853011 | 33.77945 | .3659086 | 7.756764 | 13.86447 | 2.583989 | 2.825415 |
| #1 | .0332395 | -.004197 | .3024049 | -.056281 | -.007941 | 92.70803 | .4306071 |
| #2 | .0307220 | -.007827 | .3006325 | -.048282 | -.008326 | 93.02991 | .4323898 |
| #3 | .0352447 | -.004965 | .3003844 | -.053801 | -.006354 | 97.07900 | .4529086 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0065656 | -.005730 | 43.09248 | .1877297 | .0944509 | .2846227 | 195.9345 |
| StdDev | .0001931 | .000267 | 1.22939 | .0026513 | .0002131 | .0020806 | 1.6877 |
| %RSD | 2.940343 | 4.652490 | 2.852907 | 1.412296 | .2256018 | .7309944 | .8613641 |
| #1 | .0065754 | -.005603 | 42.32678 | .1884532 | .0942072 | .2853944 | 194.9296 |
| #2 | .0063678 | -.006037 | 42.44011 | .1899442 | .0946020 | .2822666 | 197.8830 |
| #3 | .0067535 | -.005551 | 44.51055 | .1847918 | .0945436 | .2862072 | 194.9910 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 3.551284 | 34.34264 | .1614812 | -.016070 | 8.608041 | .3064578 | .4719050 |
| StdDev | .101876 | .94444 | .0006660 | .000508 | .102066 | .0085522 | .0080800 |
| %RSD | 2.868717 | 2.750038 | .4124316 | 3.159013 | 1.185703 | 2.790654 | 1.712216 |
| #1 | 3.486549 | 33.80057 | .1607869 | -.016107 | 8.571001 | .3044252 | .4742069 |
| #2 | 3.498589 | 33.79418 | .1615420 | -.016557 | 8.723455 | .2991051 | .4785843 |
| #3 | 3.668715 | 35.43318 | .1621148 | -.015544 | 8.529667 | .3158432 | .4629238 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 7.285435 | .1207318 | .0055610 | .0135499 | 3.347593 | 5.335835 | 5.161034 |
| StdDev | .033051 | .0040958 | .0002009 | .0004672 | .091611 | .063537 | .022518 |
| %RSD | .4536585 | 3.392434 | 3.611911 | 3.447918 | 2.736620 | 1.190765 | .4363031 |
| #1 | 7.260859 | .1207745 | .0055220 | .0134574 | 3.284442 | 5.287100 | 5.185035 |
| #2 | 7.323009 | .1248061 | .0053825 | .0140564 | 3.305672 | 5.407697 | 5.157695 |
| #3 | 7.272437 | .1166149 | .0057785 | .0131359 | 3.452663 | 5.312709 | 5.140373 |

Sample Name: P5390-01 Acquired: 12/30/2024 18:19:45 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 3.056164 | .0773159 | -.053567 | | | 3 |
| Stddev | .003463 | .0024480 | .004974 | | | 4 |
| %RSD | .1133266 | 3.166297 | 9.286124 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 3.057136 | .0757346 | -.055365 | | | 6 |
| #2 | 3.059039 | .0760775 | -.057392 | | | 7 |
| #3 | 3.052319 | .0801358 | -.047944 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2879.080 | 62896.94 | 13007.55 | 2122.197 | 3709.792 | 11 |
| Stddev | 2.140 | 697.96 | 297.99 | 27.439 | 4.194 | 12 |
| %RSD | .0743245 | 1.109694 | 2.290932 | 1.292936 | .1130630 | 13 |

| | | | | | | |
|----|----------|----------|----------|----------|----------|----|
| #1 | 2881.516 | 62792.71 | 13153.09 | 2109.982 | 3712.999 | 14 |
| #2 | 2878.219 | 62256.95 | 13204.81 | 2102.986 | 3711.331 | 15 |
| #3 | 2877.504 | 63641.16 | 12664.76 | 2153.621 | 3705.045 | 16 |

Sample Name: P5391-01 Acquired: 12/30/2024 18:23:49 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0328270 | .0084962 | .1238376 | -.029125 | -.000567 | 40.80280 | 3 |
| StdDev | .0010722 | .0035079 | .0017138 | .001667 | .001394 | .20871 | 4 |
| %RSD | 3.266133 | 41.28836 | 1.383885 | 5.723357 | 245.7345 | .5115149 | 5 |
| #1 | .0320731 | .0111053 | .1229062 | -.031002 | .000116 | 40.64730 | 6 |
| #2 | .0323534 | .0045084 | .1227913 | -.028553 | -.002171 | 40.72110 | 7 |
| #3 | .0340544 | .0098750 | .1258154 | -.027819 | .000353 | 41.04001 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .3061303 | .0048894 | -.000624 | 616.7305 | .1411477 | .0603129 | 11 |
| StdDev | .0013849 | .0000919 | .000179 | 3.3980 | .0009556 | .0001969 | 12 |
| %RSD | .4523967 | 1.880375 | 28.72685 | .5509731 | .6769898 | .3265093 | 13 |
| #1 | .3053297 | .0049271 | -.000528 | 616.0742 | .1405676 | .0601112 | 14 |
| #2 | .3053318 | .0047846 | -.000831 | 613.7085 | .1422506 | .0603228 | 15 |
| #3 | .3077295 | .0049564 | -.000513 | 620.4088 | .1406250 | .0605047 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .3002662 | 128.3915 | 1.517918 | 415.2796 | .1106152 | -.009677 | |
| StdDev | .0005083 | .1843 | .011571 | 2.4937 | .0010669 | .000158 | |
| %RSD | .1692778 | .1435633 | .7623207 | .6004927 | .9645301 | 1.632350 | |
| #1 | .3000596 | 128.1833 | 1.512956 | 414.4207 | .1107440 | -.009582 | |
| #2 | .2998938 | 128.5341 | 1.509655 | 413.3289 | .1094896 | -.009590 | |
| #3 | .3008453 | 128.4569 | 1.531143 | 418.0893 | .1116118 | -.009859 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 3.495385 | .2455978 | .2720629 | 7.104228 | .5372261 | .0044661 | |
| StdDev | .012975 | .0036770 | .0017520 | .030755 | .0029601 | .0000822 | |
| %RSD | .3711954 | 1.497153 | .6439780 | .4329156 | .5509970 | 1.840147 | |
| #1 | 3.484081 | .2456745 | .2700400 | 7.087922 | .5345091 | .0045366 | |
| #2 | 3.509552 | .2418831 | .2730972 | 7.139703 | .5367887 | .0043758 | |
| #3 | 3.492520 | .2492359 | .2730514 | 7.085060 | .5403806 | .0044858 | |

Sample Name: P5391-01 Acquired: 12/30/2024 18:23:49 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .001585 | 2.862920 | 5.828601 | 2.692536 | F 10.38829 | -.031007 | 5 |
| Stddev | .000691 | .021228 | .040208 | .021292 | .03750 | .000325 | 6 |
| %RSD | 43.58364 | .7414786 | .6898434 | .7907828 | .3609376 | 1.047895 | 7 |
| #1 | -.002306 | 2.850632 | 5.782224 | 2.669475 | 10.38164 | -.031169 | 8 |
| #2 | -.001520 | 2.850696 | 5.853679 | 2.696681 | 10.35457 | -.030633 | 9 |
| #3 | -.000929 | 2.887431 | 5.849901 | 2.711450 | 10.42867 | -.031219 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .2453837 | | | | | | 13 |
| Stddev | .0016352 | | | | | | 14 |
| %RSD | .6664007 | | | | | | 15 |
| #1 | .2444994 | | | | | | 16 |
| #2 | .2443810 | | | | | | 17 |
| #3 | .2472707 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2297.892 | 52282.34 | 11869.35 | 1745.646 | 3110.181 | | |
| Stddev | 4.439 | 124.01 | 91.02 | 5.146 | 8.278 | | |
| %RSD | .1931622 | .2371955 | .7668276 | .2947714 | .2661503 | | |
| #1 | 2297.260 | 52425.46 | 11920.24 | 1751.202 | 3110.670 | | |
| #2 | 2302.612 | 52206.92 | 11923.53 | 1741.045 | 3118.203 | | |
| #3 | 2293.803 | 52214.63 | 11764.27 | 1744.692 | 3101.669 | | |

Sample Name: P5391-01DUP Acquired: 12/30/2024 18:28:02 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0235848 | -.009252 | .1132452 | -.045758 | .0045426 | 40.96234 | .3096090 | 3 |
| StdDev | .0035489 | .000795 | .0017175 | .006506 | .0003457 | .36436 | .0021060 | 4 |
| %RSD | 15.04744 | 8.588480 | 1.516602 | 14.21942 | 7.610962 | .8894922 | .6802297 | 5 |
| #1 | .0200274 | -.009379 | .1114626 | -.038537 | .0041485 | 41.33527 | .3114390 | 6 |
| #2 | .0271252 | -.008401 | .1148891 | -.051164 | .0047949 | 40.60721 | .3073070 | 7 |
| #3 | .0236017 | -.009975 | .1133841 | -.047572 | .0046843 | 40.94455 | .3100810 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0034680 | -.002105 | 617.0111 | .1356243 | .0578281 | .2942747 | 122.6235 | 11 |
| StdDev | .0000220 | .000384 | 6.6653 | .0023894 | .0004569 | .0041983 | 2.0889 | 12 |
| %RSD | .6352861 | 18.26247 | 1.080263 | 1.761750 | .7901159 | 1.426662 | 1.703537 | 13 |
| #1 | .0034699 | -.002298 | 624.6750 | .1364681 | .0573349 | .2919164 | 123.2151 | 14 |
| #2 | .0034451 | -.001662 | 612.5660 | .1329275 | .0582370 | .2991219 | 120.3026 | 15 |
| #3 | .0034891 | -.002355 | 613.7925 | .1374772 | .0579124 | .2917859 | 124.3528 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 1.555003 | 410.1556 | .1044046 | -.011162 | 3.177029 | .2441824 | .2209475 | |
| StdDev | .007540 | 4.3931 | .0007215 | .000340 | .059928 | .0028373 | .0059007 | |
| %RSD | .4848931 | 1.071092 | .6910600 | 3.048369 | 1.886276 | 1.161957 | 2.670649 | |
| #1 | 1.559960 | 415.0266 | .1037139 | -.011460 | 3.204232 | .2443586 | .2218197 | |
| #2 | 1.546326 | 406.4934 | .1051534 | -.011235 | 3.108325 | .2412612 | .2146592 | |
| #3 | 1.558723 | 408.9468 | .1043464 | -.010791 | 3.218531 | .2469276 | .2263636 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 6.581469 | .5461368 | .0067599 | .0022485 | 2.910996 | 6.171000 | 2.563843 | |
| StdDev | .142549 | .0056472 | .0003515 | .0005605 | .018723 | .158064 | .018147 | |
| %RSD | 2.165920 | 1.034028 | 5.200264 | 24.92855 | .6431944 | 2.561402 | .7077939 | |
| #1 | 6.555844 | .5471105 | .0068151 | .0024224 | 2.923126 | 6.195888 | 2.545181 | |
| #2 | 6.453470 | .5400661 | .0063841 | .0027016 | 2.889432 | 6.001968 | 2.581427 | |
| #3 | 6.735093 | .5512339 | .0070806 | .0016217 | 2.920430 | 6.315143 | 2.564921 | |

Sample Name: P5391-01DUP Acquired: 12/30/2024 18:28:02 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 9.821923 | -.031904 | .2507008 | | | 3 |
| Stddev | .059194 | .000963 | .0012156 | | | 4 |
| %RSD | .6026683 | 3.017850 | .4848914 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 9.761076 | -.032543 | .2519764 | | | 6 |
| #2 | 9.879311 | -.032373 | .2505704 | | | 7 |
| #3 | 9.825383 | -.030797 | .2495556 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2384.925 | 54294.38 | 11507.57 | 1834.874 | 3207.992 | 11 |
| Stddev | 10.183 | 999.27 | 74.65 | 29.881 | 17.437 | 12 |
| %RSD | .4269877 | 1.840468 | .6487101 | 1.628521 | .5435383 | 13 |
| #1 | 2391.780 | 53957.01 | 11438.65 | 1825.450 | 3224.091 | 14 |
| #2 | 2373.223 | 55418.67 | 11586.87 | 1868.331 | 3189.471 | 15 |
| #3 | 2389.770 | 53507.46 | 11497.21 | 1810.841 | 3210.415 | 16 |

Sample Name: P5391-01LX5 Acquired: 12/30/2024 18:32:18 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0065762 | -.000888 | .0237109 | -.009553 | -.003447 | 8.276173 | .0645088 |
| StdDev | .0015624 | .002754 | .0005506 | .003507 | .000514 | .013584 | .0002756 |
| %RSD | 23.75864 | 310.2322 | 2.322211 | 36.70774 | 14.91945 | .1641297 | .4272008 |
| #1 | .0083582 | -.002613 | .0231189 | -.011360 | -.003974 | 8.265546 | .0648054 |
| #2 | .0054413 | .002288 | .0238061 | -.005511 | -.003421 | 8.291478 | .0642607 |
| #3 | .0059290 | -.002338 | .0242077 | -.011788 | -.002947 | 8.271497 | .0644603 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0007668 | -.000663 | 129.8904 | .0281596 | .0113659 | .0629045 | 25.14031 |
| StdDev | .0000180 | .000162 | .2183 | .0002993 | .0001964 | .0007102 | .11678 |
| %RSD | 2.348357 | 24.38903 | .1680548 | 1.063025 | 1.728317 | 1.129034 | .4645076 |
| #1 | .0007747 | -.000850 | 129.7727 | .0278180 | .0113460 | .0622511 | 25.01490 |
| #2 | .0007462 | -.000566 | 130.1423 | .0283759 | .0115715 | .0628021 | 25.24592 |
| #3 | .0007795 | -.000574 | 129.7563 | .0282849 | .0111801 | .0636604 | 25.16011 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .3284470 | 83.07498 | .0210402 | -.002030 | .6311216 | .0516018 | .0480597 |
| StdDev | .0005037 | .23865 | .0001958 | .000369 | .0104232 | .0013009 | .0003997 |
| %RSD | .1533591 | .2872697 | .9305684 | 18.15758 | 1.651534 | 2.520989 | .8317374 |
| #1 | .3281894 | 82.79947 | .0210397 | -.001992 | .6204667 | .0530812 | .0476152 |
| #2 | .3281243 | 83.21772 | .0208447 | -.001682 | .6412965 | .0510874 | .0483896 |
| #3 | .3290274 | 83.20775 | .0212363 | -.002416 | .6316015 | .0506367 | .0481744 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 1.228656 | .1125042 | .0009490 | -.000254 | .6043012 | 1.145236 | .4927514 |
| StdDev | .019038 | .0006932 | .0002264 | .000488 | .0025688 | .020340 | .0071520 |
| %RSD | 1.549500 | .6161137 | 23.85271 | 191.9973 | .4250880 | 1.776021 | 1.451449 |
| #1 | 1.206690 | .1132743 | .0009042 | -.000808 | .6064110 | 1.163385 | .4861806 |
| #2 | 1.238884 | .1123080 | .0007484 | .000113 | .6014407 | 1.123252 | .4917043 |
| #3 | 1.240394 | .1119303 | .0011944 | -.000068 | .6050520 | 1.149072 | .5003693 |

Sample Name: P5391-01LX5 Acquired: 12/30/2024 18:32:18 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 1.879774 | -.008254 | .0504288 | |
| Stddev | .019375 | .000760 | .0003192 | |
| %RSD | 1.030721 | 9.202870 | .6328978 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 1.862426 | -.008514 | .0506943 | |
| #2 | 1.876214 | -.008849 | .0505173 | |
| #3 | 1.900682 | -.007398 | .0500747 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2509.557 | 57036.34 | 11630.37 | 1922.538 | 3583.467 |
| Stddev | 16.784 | 272.78 | 1.96 | 14.837 | 23.136 |
| %RSD | .6688131 | .4782538 | .0168264 | .7717310 | .6456349 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2520.680 | 57265.71 | 11630.84 | 1939.500 | 3603.169 |
| #2 | 2517.740 | 56734.71 | 11632.04 | 1911.974 | 3589.241 |
| #3 | 2490.251 | 57108.61 | 11628.22 | 1916.140 | 3557.990 |

Sample Name: P5391-01MS Acquired: 12/30/2024 18:36:34 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7655655 | 1.809255 | 1.066350 | 1.743469 | .5595436 | 41.89808 | .4268390 |
| StdDev | .0059329 | .018339 | .007611 | .014961 | .0037846 | .47607 | .0052566 |
| %RSD | .7749671 | 1.013645 | .7137700 | .8581051 | .6763722 | 1.136260 | 1.231521 |
| #1 | .7597424 | 1.788505 | 1.058246 | 1.728288 | .5566157 | 42.05299 | .4288564 |
| #2 | .7653518 | 1.815965 | 1.067457 | 1.743921 | .5581979 | 41.36385 | .4208725 |
| #3 | .7716024 | 1.823294 | 1.073347 | 1.758199 | .5638171 | 42.27741 | .4307880 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1970653 | .1966719 | 843.1857 | .5049692 | .2378876 | .4486325 | 105.8753 |
| StdDev | .0028628 | .0016146 | 8.6502 | .0092800 | .0021399 | .0043228 | 2.1637 |
| %RSD | 1.452726 | .8209794 | 1.025895 | 1.837744 | .8995217 | .9635441 | 2.043623 |
| #1 | .1987376 | .1950025 | 851.3296 | .5156776 | .2356252 | .4450746 | 108.3539 |
| #2 | .1937596 | .1967877 | 834.1054 | .4992722 | .2381586 | .4473795 | 104.9077 |
| #3 | .1986985 | .1982256 | 844.1220 | .4999579 | .2398791 | .4534433 | 104.3642 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 1.597588 | 565.9239 | .5698999 | .0723085 | 6.520738 | .4597331 | .4229048 |
| StdDev | .020811 | 7.7011 | .0032603 | .0011939 | .120534 | .0052405 | .0076431 |
| %RSD | 1.302662 | 1.360808 | .5720812 | 1.651079 | 1.848470 | 1.139909 | 1.807279 |
| #1 | 1.609770 | 568.9160 | .5669684 | .0736703 | 6.656381 | .4629199 | .4317203 |
| #2 | 1.573558 | 557.1758 | .5693201 | .0714421 | 6.479918 | .4536848 | .4188589 |
| #3 | 1.609437 | 571.6801 | .5734112 | .0718131 | 6.425915 | .4625946 | .4181351 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 16.77475 | .4214172 | .4048765 | .7365734 | 2.359149 | 6.681430 | 8.616794 |
| StdDev | .34490 | .0043099 | .0025234 | .0057748 | .021271 | .140285 | .053603 |
| %RSD | 2.056085 | 1.022712 | .6232620 | .7840045 | .9016564 | 2.099630 | .6220800 |
| #1 | 17.16879 | .4246644 | .4027674 | .7319165 | 2.368398 | 6.832835 | 8.554925 |
| #2 | 16.62777 | .4165276 | .4041900 | .7347686 | 2.334819 | 6.655603 | 8.646122 |
| #3 | 16.52768 | .4230597 | .4076722 | .7430350 | 2.374231 | 6.555853 | 8.649333 |

Sample Name: P5391-01MS Acquired: 12/30/2024 18:36:34 Type: Unk
Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 3.845734 | .1362342 | .5122045 | |
| Stddev | .032912 | .0024276 | .0076707 | |
| %RSD | .8558144 | 1.781919 | 1.497589 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 3.813807 | .1357129 | .5126940 | |
| #2 | 3.843846 | .1341097 | .5043008 | |
| #3 | 3.879550 | .1388801 | .5196188 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2302.377 | 50676.23 | 11195.55 | 1686.182 | 3101.223 |
| Stddev | 8.880 | 951.49 | 138.55 | 29.325 | 14.833 |
| %RSD | .3857046 | 1.877596 | 1.237576 | 1.739140 | .4783062 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2309.180 | 49604.59 | 11130.62 | 1653.259 | 3114.607 |
| #2 | 2305.621 | 51002.19 | 11354.64 | 1695.786 | 3103.788 |
| #3 | 2292.331 | 51421.90 | 11101.38 | 1709.500 | 3085.275 |

Sample Name: P5391-01MSD Acquired: 12/30/2024 18:40:40 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7888042 | 1.878952 | 1.101479 | 1.814914 | .5822681 | 42.22480 | .4212782 |
| StdDev | .0029628 | .013805 | .003743 | .009860 | .0038946 | .14157 | .0019854 |
| %RSD | .3756126 | .7347439 | .3397990 | .5432806 | .6688755 | .3352651 | .4712889 |
| #1 | .7869837 | 1.875317 | 1.097422 | 1.803529 | .5784633 | 42.29013 | .4223025 |
| #2 | .7922230 | 1.867328 | 1.102216 | 1.820622 | .5862468 | 42.32190 | .4225423 |
| #3 | .7872059 | 1.894212 | 1.104798 | 1.820592 | .5820943 | 42.06236 | .4189898 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1996300 | .2040782 | 841.6104 | .4919024 | .2445552 | .4675952 | 100.6094 |
| StdDev | .0002413 | .0004388 | 8.4239 | .0207760 | .0011817 | .0010987 | 3.7517 |
| %RSD | .1208916 | .2149978 | 1.000930 | 4.223592 | .4832001 | .2349578 | 3.728996 |
| #1 | .1995482 | .2035757 | 851.1205 | .4680123 | .2432045 | .4679985 | 96.2839 |
| #2 | .1999016 | .2043854 | 838.6249 | .5019531 | .2453983 | .4684352 | 102.5655 |
| #3 | .1994401 | .2042735 | 835.0858 | .5057417 | .2450628 | .4663519 | 102.9788 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 1.592881 | 567.2070 | .5857278 | .0700563 | 6.109067 | .4591498 | .3803932 |
| StdDev | .008946 | 2.5678 | .0036726 | .0022063 | .236668 | .0008768 | .0143609 |
| %RSD | .5616244 | .4527035 | .6270061 | 3.149295 | 3.874037 | .1909706 | 3.775276 |
| #1 | 1.601301 | 569.7592 | .5814877 | .0675133 | 5.835910 | .4600583 | .3640434 |
| #2 | 1.593854 | 567.2380 | .5879068 | .0714598 | 6.238544 | .4590825 | .3861706 |
| #3 | 1.583488 | 564.6239 | .5877890 | .0711959 | 6.252748 | .4583085 | .3909656 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 15.97169 | .4204894 | .4203606 | .7626726 | 2.374682 | 7.366118 | 8.876058 |
| StdDev | .66427 | .0039478 | .0017844 | .0042002 | .007719 | .308271 | .035807 |
| %RSD | 4.159045 | .9388626 | .4245019 | .5507194 | .3250493 | 4.184988 | .4034128 |
| #1 | 15.20566 | .4159400 | .4183002 | .7587385 | 2.380819 | 7.012856 | 8.839654 |
| #2 | 16.32075 | .4230140 | .4214126 | .7670960 | 2.366016 | 7.504856 | 8.877282 |
| #3 | 16.38865 | .4225143 | .4213688 | .7621833 | 2.377210 | 7.580641 | 8.911237 |

Sample Name: P5391-01MSD Acquired: 12/30/2024 18:40:40 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| ELEM | S_1820 | Li6707 | Sr4077 | | | 1 |
| UNITS | ppm | ppm | ppm | | | 2 |
| Avg | 3.931341 | .1373336 | .5109873 | | | 3 |
| StdDev | .014972 | .0019247 | .0045957 | | | 4 |
| %RSD | .3808357 | 1.401470 | .8993727 | | | 5 |
| #1 | 3.914598 | .1351115 | .5153871 | | | 6 |
| #2 | 3.935980 | .1384748 | .5113568 | | | 7 |
| #3 | 3.943444 | .1384146 | .5062180 | | | 8 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2244.109 | 52382.56 | 10992.19 | 1738.756 | 3019.142 | 11 |
| StdDev | 7.514 | 1871.57 | 66.12 | 61.675 | 8.652 | 12 |
| %RSD | .3348133 | 3.572885 | .6015556 | 3.547081 | .2865728 | 13 |
| #1 | 2252.318 | 54535.93 | 10918.75 | 1809.488 | 3029.114 | 14 |
| #2 | 2237.572 | 51464.05 | 11010.82 | 1710.570 | 3013.622 | 15 |
| #3 | 2242.439 | 51147.70 | 11047.00 | 1696.209 | 3014.691 | 16 |
| | | | | | | 17 |
| | | | | | | 18 |

Sample Name: CCV06 Acquired: 12/30/2024 18:44:47 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | 4.710783 | 4.788569 | 4.841950 | 4.914057 | 4.900100 | 9.556378 | 9.137817 | 3 |
| StdDev | .019978 | .025426 | .023655 | .033143 | .026538 | .034034 | .092829 | 4 |
| %RSD | .4240839 | .5309714 | .4885456 | .6744475 | .5415851 | .3561395 | 1.015882 | 5 |
| #1 | 4.733293 | 4.794704 | 4.867985 | 4.952275 | 4.930685 | 9.523597 | 9.030776 | 6 |
| #2 | 4.695161 | 4.760637 | 4.821777 | 4.896678 | 4.883176 | 9.553998 | 9.196235 | 7 |
| #3 | 4.703895 | 4.810366 | 4.836089 | 4.893219 | 4.886437 | 9.591540 | 9.186440 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .2627621 | 2.493757 | 24.67523 | .9960881 | 2.409774 | 1.181529 | 4.670015 | 11 |
| StdDev | .0019891 | .013641 | .03450 | .0065205 | .015318 | .007634 | .045769 | 12 |
| %RSD | .7570111 | .5470056 | .1398353 | .6546073 | .6356534 | .6461466 | .9800608 | 13 |
| #1 | .2650037 | 2.508896 | 24.63567 | .9990290 | 2.426396 | 1.190254 | 4.627503 | 14 |
| #2 | .2620749 | 2.482422 | 24.69092 | .9886151 | 2.396226 | 1.176075 | 4.664080 | 15 |
| #3 | .2612077 | 2.489953 | 24.69910 | 1.000620 | 2.406699 | 1.178258 | 4.718462 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | 2.379395 | 26.06543 | 2.412076 | 1.221987 | 22.73210 | 2.407063 | 2.403925 | |
| StdDev | .003747 | .02804 | .014130 | .007697 | .12125 | .005744 | .013857 | |
| %RSD | .1574806 | .1075802 | .5858072 | .6298578 | .5334066 | .2386357 | .5764265 | |
| #1 | 2.377548 | 26.04066 | 2.427829 | 1.226162 | 22.63618 | 2.400436 | 2.408931 | |
| #2 | 2.376930 | 26.05976 | 2.400519 | 1.213105 | 22.69174 | 2.410614 | 2.388261 | |
| #3 | 2.383707 | 26.09588 | 2.407881 | 1.226695 | 22.86839 | 2.410139 | 2.414583 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 22.81913 | 5.084730 | 4.763840 | 4.850021 | 4.738366 | 4.673631 | 4.880681 | |
| StdDev | .11544 | .043783 | .022008 | .032877 | .006759 | .048488 | .030011 | |
| %RSD | .5058806 | .8610627 | .4619755 | .6778815 | .1426501 | 1.037475 | .6149027 | |
| #1 | 22.74042 | 5.134803 | 4.789031 | 4.884777 | 4.730596 | 4.628062 | 4.912511 | |
| #2 | 22.76531 | 5.065731 | 4.748349 | 4.819417 | 4.742886 | 4.668243 | 4.852898 | |
| #3 | 22.95164 | 5.053656 | 4.754139 | 4.845869 | 4.741617 | 4.724587 | 4.876635 | |

Sample Name: CCV06 Acquired: 12/30/2024 18:44:47 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 4.669376 | 4.649217 | 4.746534 | | | 3 |
| Stddev | .029209 | .006953 | .024361 | | | 4 |
| %RSD | .6255527 | .1495564 | .5132346 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 4.700123 | 4.642406 | 4.771022 | | | 6 |
| #2 | 4.641996 | 4.656304 | 4.746277 | | | 7 |
| #3 | 4.666011 | 4.648941 | 4.722303 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2587.988 | 56441.22 | 10846.91 | 1915.319 | 3735.423 | 11 |
| Stddev | 14.683 | 285.01 | 48.27 | 13.530 | 21.930 | 12 |
| %RSD | .5673615 | .5049621 | .4450255 | .7064093 | .5870732 | 13 |
| #1 | 2571.257 | 56376.50 | 10792.05 | 1912.503 | 3710.180 | 14 |
| #2 | 2593.976 | 56753.02 | 10865.78 | 1930.035 | 3749.783 | 15 |
| #3 | 2598.731 | 56194.14 | 10882.89 | 1903.418 | 3746.305 | 16 |

Sample Name: CCB06 Acquired: 12/30/2024 18:48:58 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | -0.000047 | 0.0002997 | -0.000224 | -0.000200 | -0.001150 | -0.004065 | 0.0019180 |
| StdDev | .000752 | .0004298 | .000949 | .002958 | .000414 | .005104 | .0007675 |
| %RSD | 1599.004 | 143.4121 | 422.8881 | 1481.161 | 36.01623 | 125.5639 | 40.01710 |
| #1 | -0.000846 | 0.0001568 | 0.000652 | 0.001569 | -0.001602 | -0.005433 | 0.0015196 |
| #2 | 0.000647 | 0.0007826 | -0.000093 | -0.003615 | -0.001061 | -0.008345 | 0.0014316 |
| #3 | 0.000058 | -0.000040 | -0.001232 | 0.001446 | -0.000788 | 0.001584 | 0.0028028 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | 0.000010 | 0.0001513 | 0.0031082 | -0.000296 | -0.000141 | -0.000451 | -0.000776 |
| StdDev | .00000470 | .00000795 | .0022184 | .000322 | .000152 | .000371 | .002541 |
| %RSD | 4710.083 | 52.49450 | 71.37186 | 108.9057 | 107.7363 | 82.22145 | 327.5177 |
| #1 | 0.0000052 | 0.0001876 | 0.0010336 | 0.000037 | -0.000234 | -0.000052 | -0.003231 |
| #2 | 0.0000458 | 0.0000602 | 0.0054468 | -0.000319 | 0.000034 | -0.000786 | 0.001844 |
| #3 | -0.000048 | 0.0002062 | 0.0028443 | -0.000605 | -0.000223 | -0.000515 | -0.000941 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -0.000957 | 0.0059084 | 0.0001670 | 0.0003509 | 0.0326224 | -0.000458 | -0.000183 |
| StdDev | .0000052 | .0255582 | .0003143 | .0002477 | .0092304 | .001229 | .000156 |
| %RSD | 5.485914 | 432.5705 | 188.2173 | 70.56897 | 28.29483 | 268.3805 | 85.17018 |
| #1 | -0.000918 | 0.0096536 | -0.000102 | 0.0006319 | 0.0222296 | 0.000770 | -0.000003 |
| #2 | -0.000935 | -0.021316 | 0.000091 | 0.0002568 | 0.0357711 | -0.000456 | -0.000266 |
| #3 | -0.001017 | 0.029387 | 0.000512 | 0.0001642 | 0.0398665 | -0.001688 | -0.000280 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 0.0082294 | 0.0002802 | -0.000120 | 0.0031915 | 0.0004286 | -0.001913 | -0.002526 |
| StdDev | .0042332 | .0003926 | .000183 | .0002463 | .0003128 | .005126 | .002087 |
| %RSD | 51.43985 | 140.1070 | 152.4153 | 7.717603 | 72.98782 | 268.0434 | 82.62862 |
| #1 | 0.0035411 | 0.0006673 | -0.000162 | 0.0034191 | 0.0003370 | -0.006804 | -0.000251 |
| #2 | 0.0093757 | -0.000118 | 0.000080 | 0.0032254 | 0.0001718 | -0.002353 | -0.004352 |
| #3 | 0.0117715 | 0.000291 | -0.000277 | 0.0029300 | 0.0007771 | 0.003420 | -0.002975 |

Sample Name: CCB06 Acquired: 12/30/2024 18:48:58 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.001849 | .0001207 | .0000536 | |
| Stddev | .001250 | .0006401 | .0000037 | |
| %RSD | 67.63702 | 530.2692 | 6.844073 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.002593 | -.000307 | .0000576 | |
| #2 | -.000405 | -.000187 | .0000529 | |
| #3 | -.002548 | .000857 | .0000504 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2647.444 | 58775.22 | 11651.87 | 2012.338 | 3879.590 |
| Stddev | 14.908 | 637.91 | 494.75 | 15.569 | 16.835 |
| %RSD | .5631197 | 1.085336 | 4.246072 | .7736597 | .4339281 |
| #1 | 2633.642 | 58351.68 | 11885.22 | 2002.419 | 3863.983 |
| #2 | 2663.255 | 58465.07 | 11986.78 | 2004.313 | 3897.430 |
| #3 | 2645.435 | 59508.89 | 11083.60 | 2030.282 | 3877.356 |

Sample Name: P5391-01A Acquired: 12/30/2024 18:53:19 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7787621 | 1.828235 | 1.080123 | 1.787539 | .5802375 | 43.14272 | .4341086 |
| StdDev | .0081698 | .012862 | .005504 | .015766 | .0014657 | .33036 | .0040400 |
| %RSD | 1.049078 | .7035097 | .5095802 | .8819710 | .2525971 | .7657277 | .9306429 |
| #1 | .7866196 | 1.842913 | 1.086419 | 1.805460 | .5815495 | 42.94459 | .4321992 |
| #2 | .7793544 | 1.818934 | 1.077725 | 1.775805 | .5805072 | 42.95949 | .4313772 |
| #3 | .7703122 | 1.822858 | 1.076224 | 1.781354 | .5786556 | 43.52409 | .4387494 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1955284 | .1991481 | 842.0055 | .5079675 | .2405003 | .4547716 | 106.5656 |
| StdDev | .0017908 | .0012168 | 6.0000 | .0015876 | .0014306 | .0023373 | .9263 |
| %RSD | .9158805 | .6109902 | .7125855 | .3125296 | .5948433 | .5139574 | .8691935 |
| #1 | .1948628 | .2004296 | 836.5460 | .5098006 | .2421398 | .4568040 | 106.6651 |
| #2 | .1941657 | .1990060 | 841.0412 | .5070410 | .2398554 | .4552933 | 105.5936 |
| #3 | .1975567 | .1980086 | 848.4292 | .5070609 | .2395057 | .4522175 | 107.4380 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 1.595451 | 567.6117 | .5755175 | .0725803 | 6.551314 | .4637080 | .3954707 |
| StdDev | .019536 | 6.3900 | .0032650 | .0000915 | .018612 | .0039078 | .0018489 |
| %RSD | 1.224472 | 1.125769 | .5673126 | .1260551 | .2840934 | .8427336 | .4675081 |
| #1 | 1.587111 | 566.2229 | .5792812 | .0725162 | 6.572789 | .4644020 | .3972797 |
| #2 | 1.581470 | 562.0304 | .5738261 | .0725397 | 6.539862 | .4594997 | .3935844 |
| #3 | 1.617773 | 574.5820 | .5734452 | .0726851 | 6.541291 | .4672224 | .3955481 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 17.28615 | .4268848 | .4140974 | .7473004 | 2.459242 | 9.322169 | 8.662493 |
| StdDev | .00853 | .0030276 | .0023551 | .0060310 | .014211 | .059638 | .033140 |
| %RSD | .0493689 | .7092316 | .5687402 | .8070436 | .5778789 | .6397421 | .3825691 |
| #1 | 17.29537 | .4250478 | .4168118 | .7542598 | 2.446549 | 9.360957 | 8.699107 |
| #2 | 17.27853 | .4252274 | .4128833 | .7436006 | 2.456582 | 9.352052 | 8.634551 |
| #3 | 17.28454 | .4303793 | .4125970 | .7440408 | 2.474596 | 9.253497 | 8.653820 |

Sample Name: P5391-01A Acquired: 12/30/2024 18:53:19 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 3.856910 | .1394211 | .5175495 | |
| Stddev | .024305 | .0006058 | .0047395 | |
| %RSD | .6301748 | .4345286 | .9157545 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 3.874216 | .1387327 | .5149509 | |
| #2 | 3.867391 | .1396574 | .5146777 | |
| #3 | 3.829122 | .1398732 | .5230199 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2283.162 | 51038.10 | 11345.10 | 1693.624 | 3078.675 |
| Stddev | 10.434 | 218.05 | 94.88 | 10.964 | 14.502 |
| %RSD | .4569881 | .4272342 | .8363144 | .6473897 | .4710368 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2273.474 | 50860.30 | 11380.04 | 1682.050 | 3063.109 |
| #2 | 2281.805 | 51281.39 | 11417.55 | 1703.855 | 3081.115 |
| #3 | 2294.209 | 50972.62 | 11237.70 | 1694.968 | 3091.803 |

Sample Name: PB165917BL Acquired: 12/30/2024 18:57:26 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0004110 | -.000685 | .0002209 | -.001281 | .0003594 | .0054188 | .0016045 | 3 |
| StdDev | .0004369 | .001185 | .0008779 | .004206 | .0003872 | .0077436 | .0003910 | 4 |
| %RSD | 106.3189 | 173.1656 | 397.3596 | 328.2729 | 107.7471 | 142.9022 | 24.36691 | 5 |
| #1 | .0004152 | -.001869 | .0011216 | -.002790 | .0001347 | .0129303 | .0018290 | 6 |
| #2 | .0008458 | .000501 | .0001735 | -.004524 | .0001370 | .0058636 | .0011531 | 7 |
| #3 | -.000028 | -.000686 | -.000632 | .003471 | .0008065 | -.002538 | .0018315 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000633 | .0001031 | .0639404 | -.000200 | -.000152 | -.000557 | .0092275 | 11 |
| StdDev | .0000367 | .0001128 | .0104417 | .000269 | .000091 | .000035 | .0041125 | 12 |
| %RSD | 58.00097 | 109.3558 | 16.33037 | 134.7327 | 60.03375 | 6.362680 | 44.56840 | 13 |
| #1 | .0000281 | .0001758 | .0712405 | -.000165 | -.000229 | -.000567 | .0129839 | 14 |
| #2 | .0000605 | .0001602 | .0686005 | -.000485 | -.000051 | -.000585 | .0098653 | 15 |
| #3 | .0001013 | -.000027 | .0519801 | .000050 | -.000174 | -.000517 | .0048333 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.001021 | .0415367 | -.000272 | .0003032 | .0283787 | .0002972 | -.000617 | |
| StdDev | .000102 | .0118942 | .000216 | .0002131 | .0081600 | .0008361 | .000174 | |
| %RSD | 10.02040 | 28.63548 | 79.36006 | 70.30079 | 28.75397 | 281.3518 | 28.19889 | |
| #1 | -.000903 | .0459323 | -.000522 | .0000605 | .0197506 | -.000475 | -.000420 | |
| #2 | -.001085 | .0506075 | -.000154 | .0004601 | .0294137 | .001185 | -.000678 | |
| #3 | -.001075 | .0280703 | -.000141 | .0003888 | .0359718 | .000181 | -.000752 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | -.005667 | -.002780 | .0001354 | .0026323 | .0002783 | -.000271 | -.003114 | |
| StdDev | .017229 | .000497 | .0001459 | .0008823 | .0002081 | .001468 | .000839 | |
| %RSD | 304.0467 | 17.88886 | 107.7374 | 33.51653 | 74.78903 | 540.8471 | 26.93739 | |
| #1 | .011421 | -.002230 | .0002212 | .0032673 | .0003387 | .000687 | -.002195 | |
| #2 | -.023034 | -.002915 | -.000033 | .0030047 | .0004496 | -.001961 | -.003839 | |
| #3 | -.005388 | -.003197 | .000218 | .0016249 | .0000467 | .000460 | -.003309 | |

Sample Name: PB165917BL Acquired: 12/30/2024 18:57:26 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|--|--|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | -.000203 | -.001099 | -.000011 | | | 3 |
| Stddev | .004382 | .000704 | .000035 | | | 4 |
| %RSD | 2155.551 | 64.03873 | 313.2318 | | | 5 |

| | | | | | | |
|----|--|--|--|--|--|---|
| #1 | .002757 | -.000560 | -.000052 | | | 6 |
| #2 | -.005238 | -.000842 | .000013 | | | 7 |
| #3 | .001870 | -.001896 | .000005 | | | 8 |

| | | | | | | |
|-----------|---|---|---|---|---|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2725.542 | 58100.23 | 11900.34 | 2012.073 | 4008.939 | 11 |
| Stddev | 18.929 | 1755.65 | 20.62 | 51.578 | 21.017 | 12 |
| %RSD | .6944979 | 3.021768 | .1732518 | 2.563414 | .5242492 | 13 |
| #1 | 2735.893 | 58701.96 | 11900.55 | 2032.888 | 4020.645 | 14 |
| #2 | 2703.695 | 59475.90 | 11920.86 | 2049.990 | 3984.676 | 15 |
| #3 | 2737.039 | 56122.83 | 11879.62 | 1953.340 | 4021.496 | 16 |

Sample Name: PB165917BS Acquired: 12/30/2024 19:01:46 Type: Unk

Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7352600 | 1.837360 | .9292905 | 1.844892 | .7364457 | 1.740142 | 3 |
| StdDev | .0045013 | .010564 | .0019581 | .003738 | .0011190 | .024597 | 4 |
| %RSD | .6122079 | .5749311 | .2107134 | .2026361 | .1519473 | 1.413490 | 5 |
| #1 | .7371816 | 1.835470 | .9275883 | 1.841032 | .7366666 | 1.712186 | 6 |
| #2 | .7301168 | 1.827869 | .9288527 | 1.848495 | .7352327 | 1.758461 | 7 |
| #3 | .7384817 | 1.848741 | .9314305 | 1.845148 | .7374378 | 1.749780 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1723711 | .1948385 | .1925698 | .9459713 | .3911236 | .1877197 | 11 |
| StdDev | .0019377 | .0020337 | .0003352 | .0116997 | .0002996 | .0001616 | 12 |
| %RSD | 1.124141 | 1.043798 | .1740821 | 1.236791 | .0765973 | .0860856 | 13 |
| #1 | .1701612 | .1929462 | .1922394 | .9332071 | .3914529 | .1875877 | 14 |
| #2 | .1731726 | .1945802 | .1925604 | .9561860 | .3908671 | .1876715 | 15 |
| #3 | .1737794 | .1969890 | .1929097 | .9485208 | .3910509 | .1878999 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2807035 | 2.768061 | .1809158 | 1.956148 | .4718351 | .0737736 | |
| StdDev | .0010649 | .023509 | .0028143 | .020222 | .0007125 | .0003718 | |
| %RSD | .3793554 | .8493072 | 1.555564 | 1.033761 | .1510154 | .5039956 | |
| #1 | .2802172 | 2.745654 | .1777314 | 1.932892 | .4713337 | .0735911 | |
| #2 | .2799685 | 2.792536 | .1819473 | 1.969599 | .4715208 | .0735282 | |
| #3 | .2819246 | 2.765991 | .1830688 | 1.965951 | .4726507 | .0742014 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.666941 | .2716343 | .1912221 | 8.634943 | .2746554 | .3752181 | |
| StdDev | .020233 | .0034518 | .0014598 | .109517 | .0038843 | .0014477 | |
| %RSD | .7586669 | 1.270745 | .7633944 | 1.268296 | 1.414261 | .3858245 | |
| #1 | 2.645926 | .2683132 | .1927017 | 8.559634 | .2712929 | .3745087 | |
| #2 | 2.686289 | .2713864 | .1897829 | 8.760576 | .2737660 | .3742620 | |
| #3 | 2.668609 | .2752034 | .1911817 | 8.584618 | .2789073 | .3768837 | |

Sample Name: PB165917BS Acquired: 12/30/2024 19:01:46 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6547732 | .1783421 | F .6865686 | 5.481521 | F -.011506 | .1767649 | 5 |
| StdDev | .0039823 | .0026498 | .0092099 | .011451 | .001482 | .0023456 | 6 |
| %RSD | .6082020 | 1.485802 | 1.341442 | .2089089 | 12.87635 | 1.326943 | 7 |
| #1 | .6511395 | .1752864 | .6865328 | 5.480776 | -.010886 | .1743411 | 8 |
| #2 | .6541496 | .1800065 | .6957965 | 5.470460 | -.010436 | .1769299 | 9 |
| #3 | .6590306 | .1797333 | .6773767 | 5.493326 | -.013197 | .1790236 | 10 |
| ELEM | Sr4077 | | | | | | 11 |
| UNITS | ppm | | | | | | 12 |
| Avg | .1749799 | | | | | | 13 |
| StdDev | .0023659 | | | | | | 14 |
| %RSD | 1.352107 | | | | | | 15 |
| #1 | .1722549 | | | | | | 16 |
| #2 | .1761745 | | | | | | 17 |
| #3 | .1765105 | | | | | | 18 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2705.399 | 58966.49 | 11748.45 | 2009.282 | 4011.447 | | |
| StdDev | 2.068 | 167.92 | 111.75 | .739 | 2.430 | | |
| %RSD | .0764522 | .2847753 | .9512196 | .0367875 | .0605670 | | |
| #1 | 2703.105 | 59043.52 | 11867.29 | 2009.696 | 4009.314 | | |
| #2 | 2707.122 | 58773.88 | 11732.59 | 2008.428 | 4010.935 | | |
| #3 | 2705.970 | 59082.09 | 11645.48 | 2009.721 | 4014.091 | | |

Sample Name: LR1 Acquired: 12/30/2024 19:14:45 Type: Unk
 Method: NON EPA-6010-200.7(v2574) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0271704 | .0893001 | .0766346 | -.334365 | -.015088 | 1850.438 | .0122585 | 3 |
| StdDev | .0049124 | .0031605 | .0047086 | .003731 | .004823 | 36.771 | .0012408 | 4 |
| %RSD | 18.08001 | 3.539157 | 6.144193 | 1.115884 | 31.96802 | 1.987165 | 10.12203 | 5 |
| #1 | .0230784 | .0923529 | .0787743 | -.334890 | -.012798 | 1889.787 | .0136912 | 6 |
| #2 | .0326184 | .0860420 | .0712361 | -.337805 | -.011836 | 1816.948 | .0115554 | 7 |
| #3 | .0258145 | .0895053 | .0798934 | -.330399 | -.020629 | 1844.577 | .0115290 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0090523 | .0015911 | 1544.526 | -.001427 | .0320321 | -.054159 | 869.8611 | 11 |
| StdDev | .0001103 | .0008911 | 29.519 | .000550 | .0007547 | .007416 | 8.1517 | 12 |
| %RSD | 1.218928 | 56.00334 | 1.911202 | 38.51549 | 2.356135 | 13.69324 | .9371226 | 13 |
| #1 | .0091234 | .0015615 | 1575.753 | -.001656 | .0328527 | -.058103 | 876.7455 | 14 |
| #2 | .0091083 | .0024966 | 1517.080 | -.000800 | .0313678 | -.045604 | 860.8598 | 15 |
| #3 | .0089252 | .0007152 | 1540.746 | -.001824 | .0318758 | -.058770 | 871.9780 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.072476 | 1731.243 | .0212984 | -.139038 | 1721.712 | .0751561 | .1381946 | |
| StdDev | .001050 | 29.795 | .0016273 | .000414 | 24.026 | .0036816 | .0024381 | |
| %RSD | 1.448409 | 1.721045 | 7.640379 | .2977789 | 1.395444 | 4.898595 | 1.764238 | |
| #1 | -.073227 | 1765.099 | .0196231 | -.139461 | 1745.577 | .0788482 | .1409571 | |
| #2 | -.071276 | 1709.014 | .0213992 | -.139018 | 1697.529 | .0714851 | .1372829 | |
| #3 | -.072924 | 1719.615 | .0228730 | -.138634 | 1722.029 | .0751348 | .1363436 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 755.9211 | .3408368 | -.004283 | .0180901 | -.036524 | .1199628 | .0897826 | |
| StdDev | 3.6279 | .0019582 | .001822 | .0026954 | .001354 | .0122268 | .0017417 | |
| %RSD | .4799260 | .5745413 | 42.55212 | 14.89965 | 3.706805 | 10.19215 | 1.939929 | |
| #1 | 759.6813 | .3398474 | -.002256 | .0156869 | -.037768 | .1194879 | .0881345 | |
| #2 | 752.4419 | .3395706 | -.005787 | .0175790 | -.035082 | .1324202 | .0896085 | |
| #3 | 755.6403 | .3430923 | -.004805 | .0210045 | -.036722 | .1079804 | .0916049 | |

Sample Name: LR1 Acquired: 12/30/2024 19:14:45 Type: Unk
 Method: NON EPA-6010-200.7(v2574) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|-----------------|-----------------|-----------------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | -.182783 | -.242678 | -.859930 | | | 3 |
| Stddev | .005218 | .005273 | .007964 | | | 4 |
| %RSD | 2.854694 | 2.172692 | .9260873 | | | 5 |

| | | | | | | |
|----|-----------------|-----------------|-----------------|--|--|---|
| #1 | -.185518 | -.248088 | -.866706 | | | 6 |
| #2 | -.186064 | -.237555 | -.851158 | | | 7 |
| #3 | -.176766 | -.242392 | -.861926 | | | 8 |

| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 1778.004 | 39035.21 | 9666.849 | 1269.914 | 2401.865 | 11 |
| Stddev | 5.434 | 264.22 | 151.044 | 15.448 | 7.789 | 12 |
| %RSD | .3056047 | .6768762 | 1.562490 | 1.216436 | .3242747 | 13 |

| | | | | | | |
|----|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| #1 | 1771.759 | 38801.50 | 9531.860 | 1252.437 | 2392.961 | 14 |
| #2 | 1781.649 | 39321.91 | 9829.987 | 1281.741 | 2407.413 | 15 |
| #3 | 1780.604 | 38982.21 | 9638.701 | 1275.565 | 2405.220 | 16 |

Sample Name: LR2 Acquired: 12/30/2024 19:19:42 Type: Unk
 Method: NON EPA-6010-200.7(v2574) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0149127 | -.013319 | 172.0148 | .0206058 | .0042334 | .0936310 | ^ ***** |
| StdDev | .0022348 | .000379 | .3635 | .0013967 | .0013241 | .0182076 | ----- |
| %RSD | 14.98599 | 2.842073 | .2113277 | 6.778304 | 31.27690 | 19.44615 | ----- |
| #1 | .0126648 | -.013348 | 171.7057 | .0207927 | .0048116 | .1120883 | 80.05181 |
| #2 | .0149392 | -.013683 | 171.9235 | .0191251 | .0051701 | .0931211 | 79.88231 |
| #3 | .0171341 | -.012927 | 172.4153 | .0218997 | .0027186 | .0756838 | ^ ----- |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | -.002967 | -.005555 | .3760640 | .0228959 | -.009588 | 208.7597 | .0405603 |
| StdDev | .000039 | .000155 | .0040204 | .0001583 | .000146 | .9314 | .0123405 |
| %RSD | 1.328760 | 2.782210 | 1.069067 | .6912057 | 1.526805 | .4461585 | 30.42504 |
| #1 | -.002936 | -.005376 | .3806098 | .0227769 | -.009753 | 209.5731 | .0525869 |
| #2 | -.002955 | -.005638 | .3746064 | .0230755 | -.009473 | 207.7437 | .0411656 |
| #3 | -.003012 | -.005649 | .3729757 | .0228354 | -.009538 | 208.9622 | .0279282 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 39.11156 | .0159915 | 44.03210 | .0019719 | .3185573 | -.014253 | 23.28787 |
| StdDev | .05027 | .0460564 | .07716 | .0004965 | .0145208 | .000158 | .05723 |
| %RSD | .1285293 | 288.0052 | .1752471 | 25.17941 | 4.558309 | 1.109031 | .2457436 |
| #1 | 39.06545 | .0564166 | 43.97415 | .0021328 | .3351285 | -.014301 | 23.30112 |
| #2 | 39.16515 | .0257048 | 44.00245 | .0014149 | .3124858 | -.014077 | 23.22518 |
| #3 | 39.10408 | -.034147 | 44.11969 | .0023680 | .3080577 | -.014382 | 23.33731 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | -.036824 | -.004884 | -.005347 | -.001678 | -.033783 | -.007666 | 3.774664 |
| StdDev | .024091 | .000326 | .000502 | .000428 | .000618 | .009341 | .027990 |
| %RSD | 65.42261 | 6.672509 | 9.395561 | 25.52388 | 1.830546 | 121.8477 | .7415263 |
| #1 | -.009149 | -.004950 | -.004786 | -.001424 | -.033125 | .001472 | 3.759405 |
| #2 | -.048219 | -.005172 | -.005756 | -.001437 | -.033871 | -.007273 | 3.757620 |
| #3 | -.053104 | -.004530 | -.005500 | -.002173 | -.034352 | -.017198 | 3.806968 |

Sample Name: LR2 Acquired: 12/30/2024 19:19:42 Type: Unk
 Method: NON EPA-6010-200.7(v2574) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .0160444 | .0010131 | .0019291 | | | 3 |
| Stddev | .0016787 | .0003420 | .0000302 | | | 4 |
| %RSD | 10.46316 | 33.75534 | 1.563056 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .0178580 | .0007698 | .0019169 | | | 6 |
| #2 | .0145449 | .0014041 | .0019069 | | | 7 |
| #3 | .0157303 | .0008654 | .0019634 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2224.637 | 56842.56 | 10979.29 | 1881.180 | 3678.570 | 11 |
| Stddev | 6.009 | 664.79 | 91.54 | 14.692 | 8.006 | 12 |
| %RSD | .2701129 | 1.169520 | .8337264 | .7810033 | .2176469 | 13 |
| #1 | 2225.793 | 57276.20 | 11067.40 | 1882.986 | 3684.908 | 14 |
| #2 | 2229.984 | 57174.30 | 10985.78 | 1894.885 | 3681.228 | 15 |
| #3 | 2218.134 | 56077.19 | 10884.68 | 1865.668 | 3669.572 | 16 |

Sample Name: CCV07 Acquired: 12/30/2024 19:24:20 Type: Unk
 Method: NON EPA-6010-200.7(v2575) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | 4.709548 | 4.741163 | 4.866495 | 4.971428 | 4.920014 | 9.398489 | 3 |
| StdDev | .041458 | .051683 | .044462 | .058111 | .052488 | .040152 | 4 |
| %RSD | .8802880 | 1.090084 | .9136266 | 1.168899 | 1.066832 | .4272190 | 5 |
| #1 | 4.664934 | 4.681514 | 4.815532 | 4.906603 | 4.860899 | 9.380080 | 6 |
| #2 | 4.716825 | 4.769391 | 4.886602 | 4.988834 | 4.937993 | 9.444545 | 7 |
| #3 | 4.746886 | 4.772585 | 4.897352 | 5.018846 | 4.961150 | 9.370842 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 9.772680 | .2712568 | 2.527868 | 24.98692 | 1.003407 | 2.417337 | 11 |
| StdDev | .271616 | .0057745 | .021651 | .16510 | .009509 | .024404 | 12 |
| %RSD | 2.779340 | 2.128776 | .8565091 | .6607366 | .9476871 | 1.009546 | 13 |
| #1 | 10.00632 | .2737958 | 2.503330 | 24.99658 | 1.001545 | 2.389796 | 14 |
| #2 | 9.83706 | .2753267 | 2.535995 | 25.14698 | .994967 | 2.425943 | 15 |
| #3 | 9.47466 | .2646478 | 2.544281 | 24.81721 | 1.013709 | 2.436273 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | 1.180030 | 4.613585 | 2.380078 | 26.90440 | 2.422380 | 1.215591 | |
| StdDev | .012098 | .119854 | .010648 | .28823 | .023181 | .010671 | |
| %RSD | 1.025236 | 2.597850 | .4473807 | 1.071319 | .9569365 | .8778169 | |
| #1 | 1.166225 | 4.557318 | 2.375897 | 27.04892 | 2.396039 | 1.211326 | |
| #2 | 1.185078 | 4.532217 | 2.392182 | 27.09179 | 2.431428 | 1.207713 | |
| #3 | 1.188787 | 4.751220 | 2.372154 | 26.57250 | 2.439671 | 1.227735 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 26.44742 | 2.402553 | 2.367486 | 26.02889 | 5.186695 | 4.719047 | |
| StdDev | .83121 | .004633 | .022806 | .86081 | .111418 | .044460 | |
| %RSD | 3.142872 | .1928176 | .9632898 | 3.307144 | 2.148153 | .9421495 | |
| #1 | 26.08854 | 2.399602 | 2.359415 | 25.65792 | 5.228723 | 4.667981 | |
| #2 | 25.85594 | 2.407892 | 2.349814 | 25.41576 | 5.270986 | 4.740012 | |
| #3 | 27.39777 | 2.400164 | 2.393230 | 27.01299 | 5.060375 | 4.749149 | |

Sample Name: CCV07 Acquired: 12/30/2024 19:24:20 Type: Unk
 Method: NON EPA-6010-200.7(v2575) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV07 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | 4.868424 | 4.699642 | 4.519700 | 5.027458 | 4.723395 | F 4.448612 | 5 |
| Stddev | .044019 | .014668 | .123914 | .058918 | .050151 | .031690 | 6 |
| %RSD | .9041815 | .3121136 | 2.741640 | 1.171925 | 1.061752 | .7123541 | 7 |
| #1 | 4.819029 | 4.683185 | 4.464682 | 4.959568 | 4.666095 | 4.423402 | 8 |
| #2 | 4.882739 | 4.711338 | 4.432823 | 5.065222 | 4.744791 | 4.438248 | 9 |
| #3 | 4.903505 | 4.704404 | 4.661597 | 5.057584 | 4.759299 | 4.484186 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | 4.610800 | | | | | | 13 |
| Stddev | .140893 | | | | | | 14 |
| %RSD | 3.055717 | | | | | | 15 |
| #1 | 4.690417 | | | | | | 16 |
| #2 | 4.693861 | | | | | | 17 |
| #3 | 4.448123 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2570.634 | 55959.16 | 10464.69 | 1916.273 | 3684.652 | | |
| Stddev | 19.183 | 461.76 | 247.68 | 12.297 | 28.819 | | |
| %RSD | .7462341 | .8251738 | 2.366856 | .6416944 | .7821400 | | |
| #1 | 2592.499 | 56032.24 | 10357.77 | 1917.740 | 3717.915 | | |
| #2 | 2556.635 | 56380.03 | 10288.43 | 1927.770 | 3667.169 | | |
| #3 | 2562.766 | 55465.22 | 10747.88 | 1903.308 | 3668.872 | | |

Sample Name: CCB07 Acquired: 12/30/2024 19:31:40 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
 Comment:

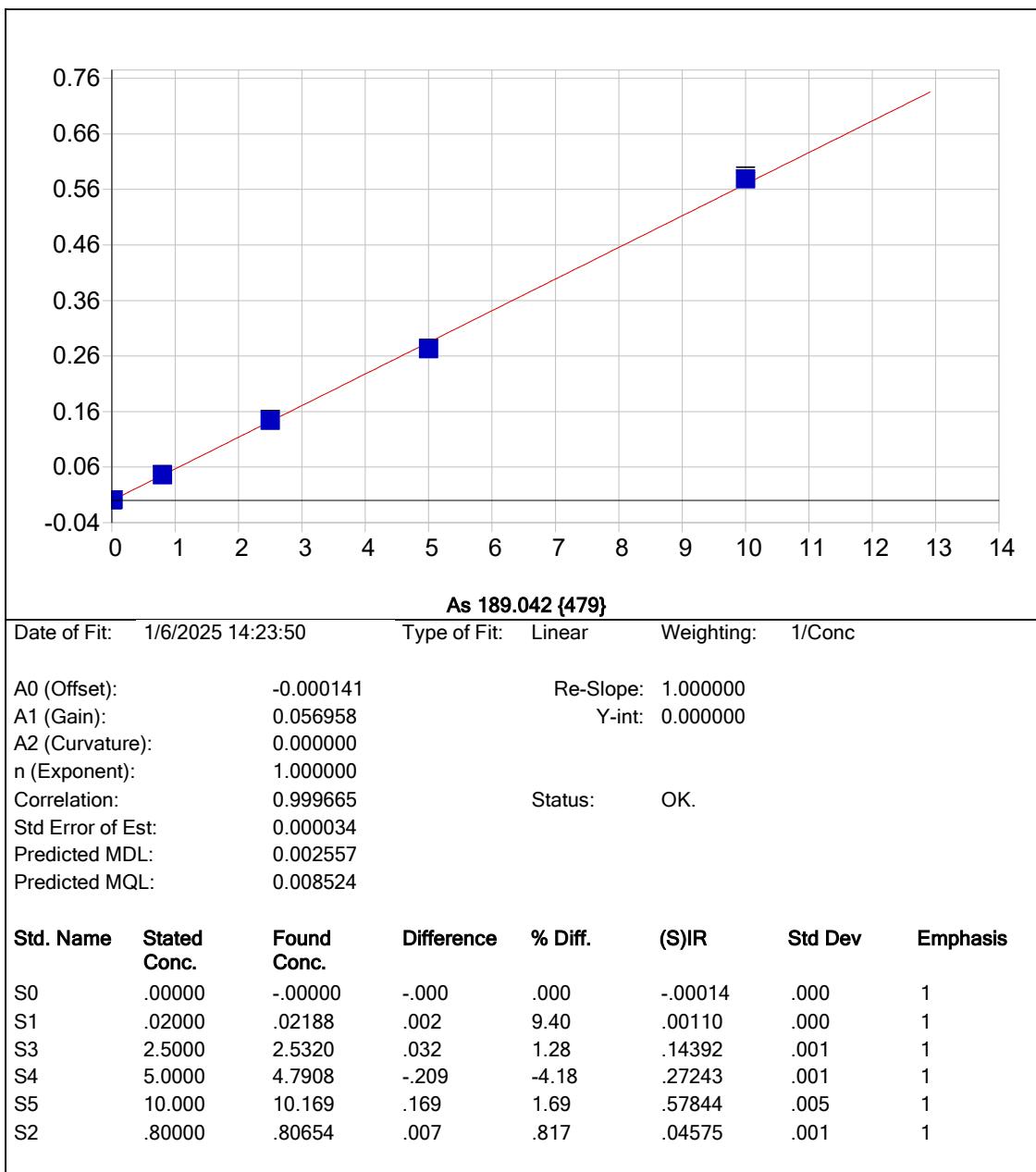
| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -0.000431 | -0.000839 | -0.000031 | -0.000576 | -0.001453 | .0022340 | .0028360 |
| StdDev | .001228 | .002078 | .000172 | .002920 | .002169 | .0101856 | .0009957 |
| %RSD | 285.1133 | 247.7635 | 548.1817 | 506.7512 | 149.2473 | 455.9336 | 35.10783 |
| #1 | -0.001487 | -0.002738 | -0.000222 | .000202 | .000758 | -.007263 | .0039836 |
| #2 | .000916 | .001381 | .000016 | .001876 | -.001541 | .000975 | .0022013 |
| #3 | -0.000721 | -0.001160 | .000112 | -.003806 | -.003577 | .012991 | .0023232 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000161 | .0001731 | -0.003757 | -0.00542 | -.000004 | -.000164 | -.001839 |
| StdDev | .0000383 | .0001561 | .006395 | .000100 | .000023 | .000164 | .002143 |
| %RSD | 237.5825 | 90.19183 | 170.2134 | 18.37321 | 535.9590 | 100.0006 | 116.5279 |
| #1 | -.000023 | .0003354 | .003143 | -.000542 | -.000031 | .000025 | -.003779 |
| #2 | .000054 | .0000240 | -.004930 | -.000642 | .000010 | -.000268 | -.002201 |
| #3 | .000017 | .0001598 | -.009485 | -.000443 | .000009 | -.000250 | .000462 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -0.00963 | -.003852 | -0.000367 | .0004078 | .1778302 | .0006856 | -.000435 |
| StdDev | .000313 | .010852 | .000496 | .0001408 | .0067965 | .0011416 | .000079 |
| %RSD | 32.48819 | 281.7225 | 135.0398 | 34.53867 | 3.821907 | 166.5110 | 18.21220 |
| #1 | -.001324 | .005476 | -.000677 | .0003502 | .1719408 | .0003309 | -.000371 |
| #2 | -.000771 | -.015762 | -.000630 | .0005683 | .1852670 | -.000237 | -.000524 |
| #3 | -.000794 | -.001271 | .000205 | .0003049 | .1762829 | .001963 | -.000410 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1116498 | -.003189 | .0002582 | .0030858 | .0000736 | -.010444 | -.007168 |
| StdDev | .0269273 | .000601 | .0000778 | .0005475 | .0001342 | .002589 | .001003 |
| %RSD | 24.11769 | 18.85360 | 30.14598 | 17.74307 | 182.4235 | 24.78883 | 13.98716 |
| #1 | .0850760 | -.002940 | .0001918 | .0028949 | .0001124 | -.008950 | -.008293 |
| #2 | .1109560 | -.003875 | .0003438 | .0037033 | -.000076 | -.013433 | -.006367 |
| #3 | .1389173 | -.002753 | .0002390 | .0026594 | .000184 | -.008949 | -.006846 |

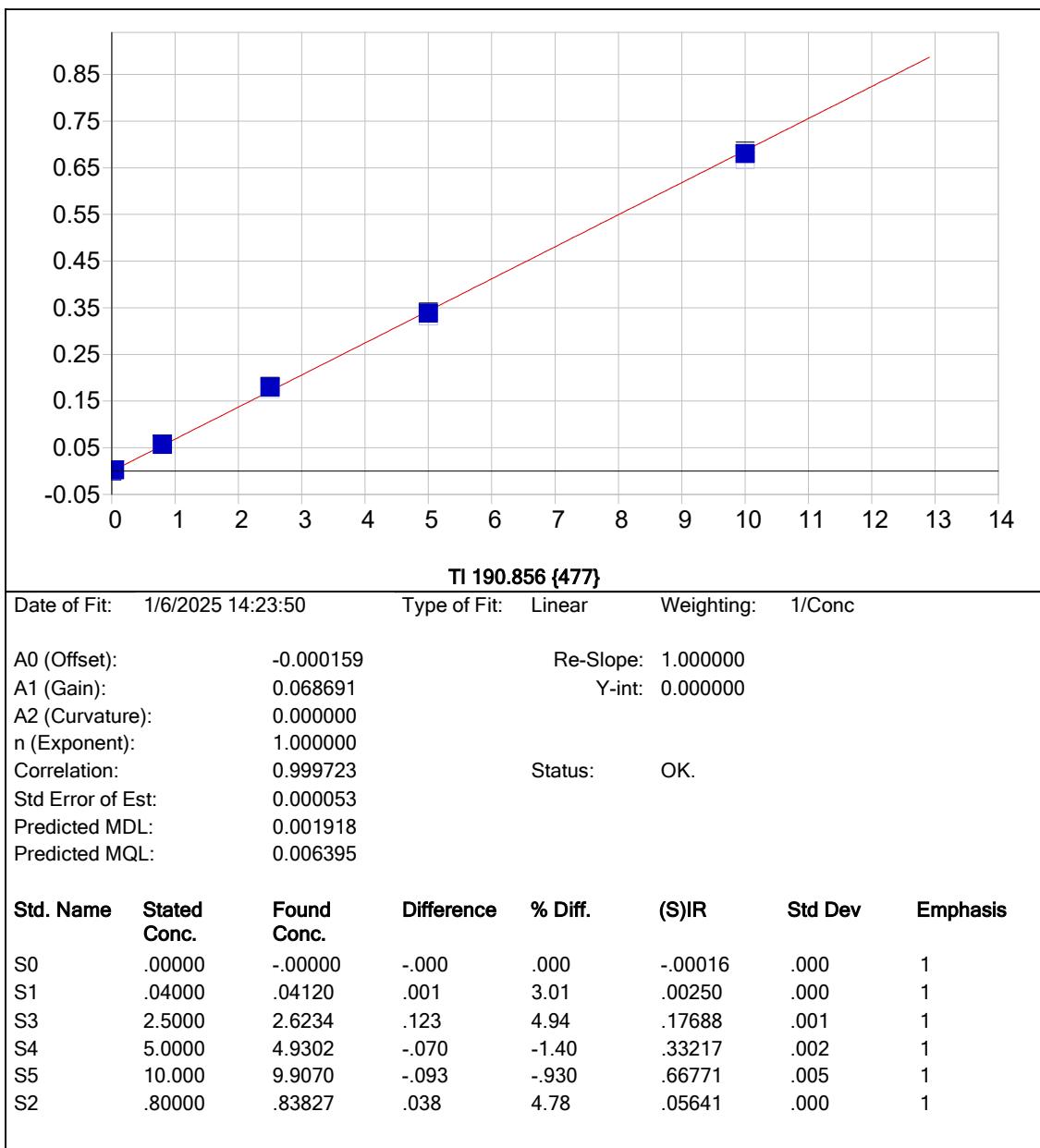
Sample Name: CCB07 Acquired: 12/30/2024 19:31:40 Type: Unk
 Method: NON EPA-6010-200.7(v2560) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB07 Custom ID2: Custom ID3:
 Comment:

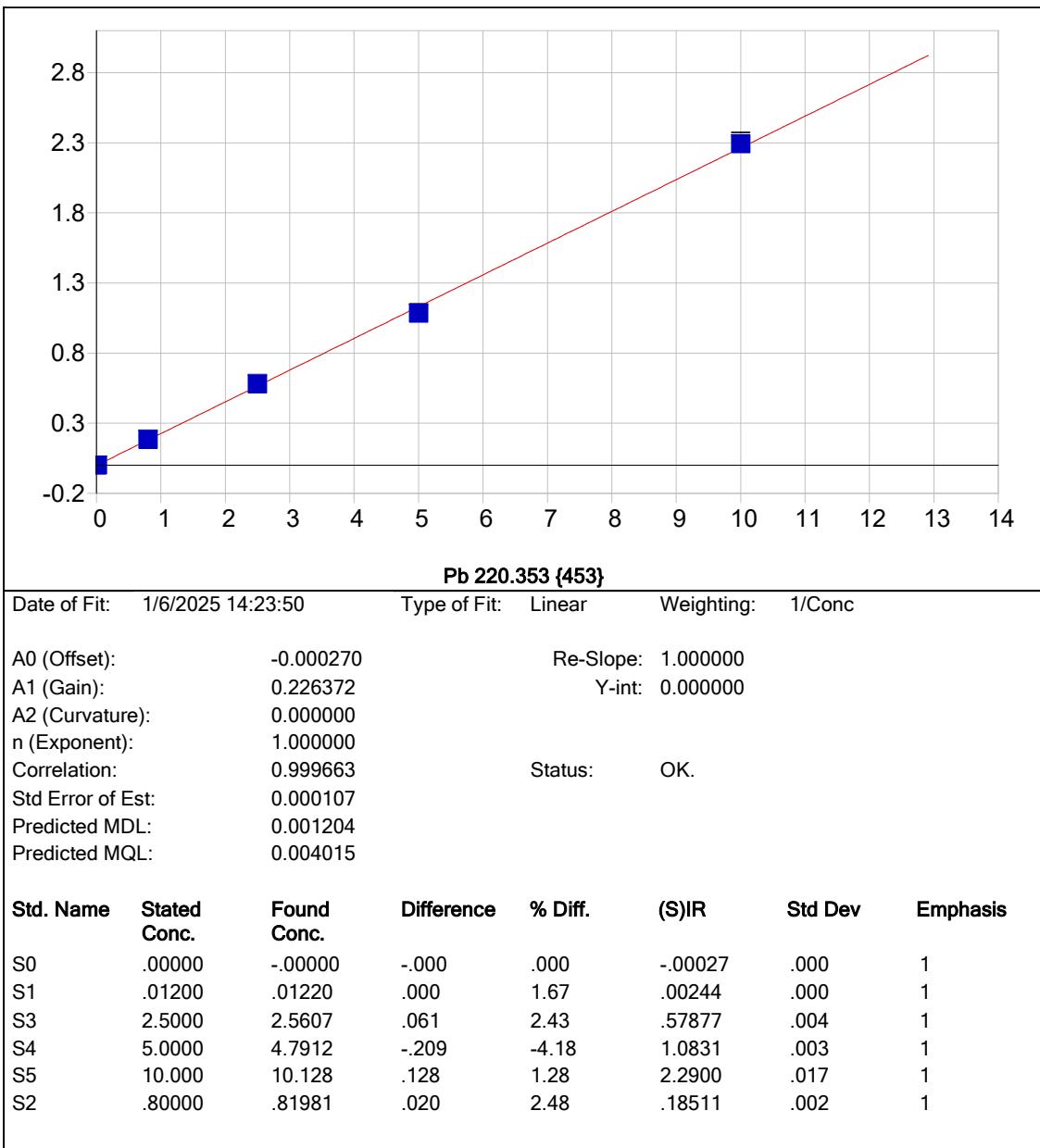
| | | | | | |
|--------|--|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | 1 |
| Units | ppm | ppm | ppm | | 2 |
| Avg | -.000113 | .0009719 | .0000164 | | 3 |
| Stddev | .000660 | .0006919 | .0000467 | | 4 |
| %RSD | 582.8734 | 71.18869 | 285.2715 | | 5 |

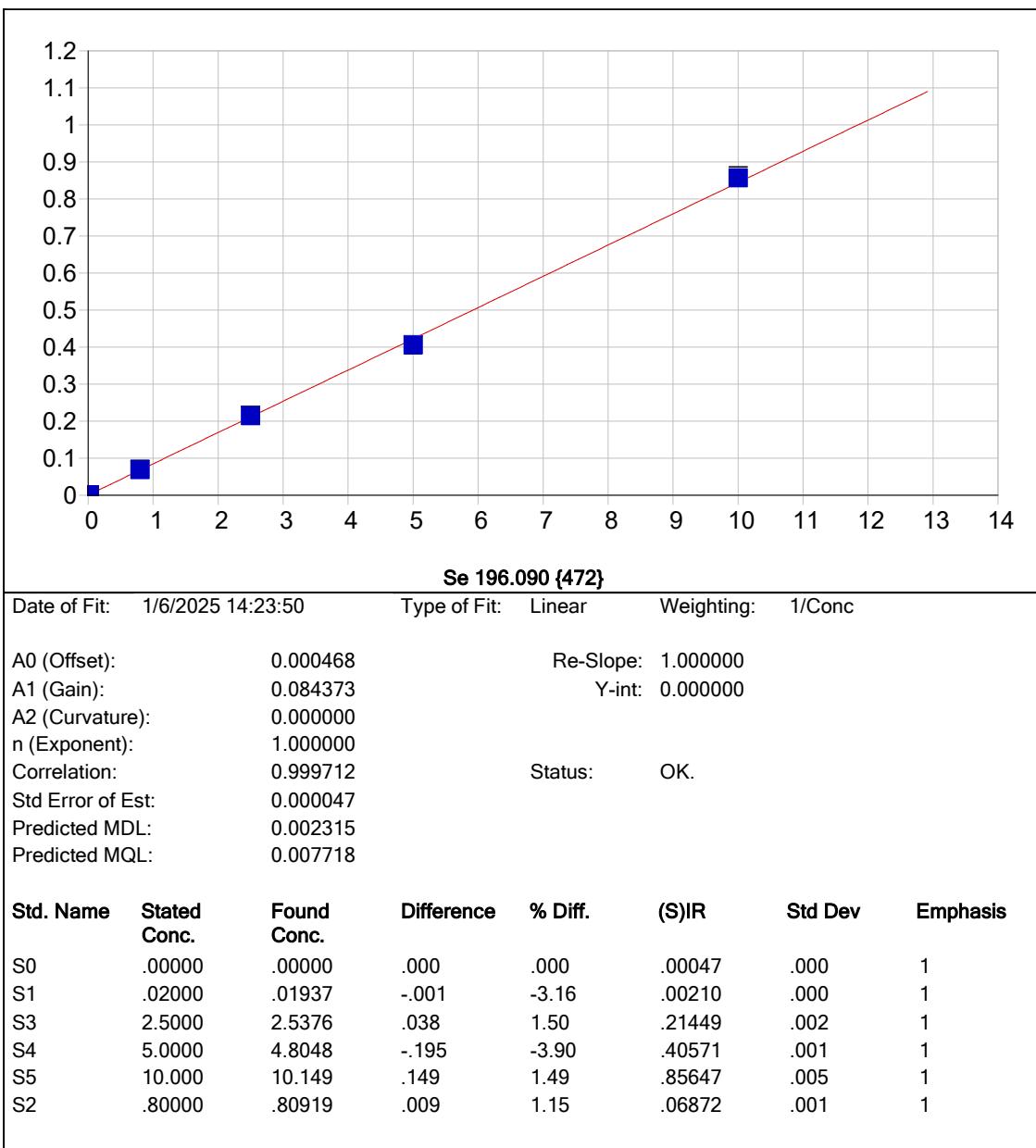
| | | | | | |
|----|--|--|--|--|---|
| #1 | -.000171 | .0001829 | .0000141 | | 6 |
| #2 | .000574 | .0014748 | -.000029 | | 7 |
| #3 | -.000743 | .0012580 | .000064 | | 8 |

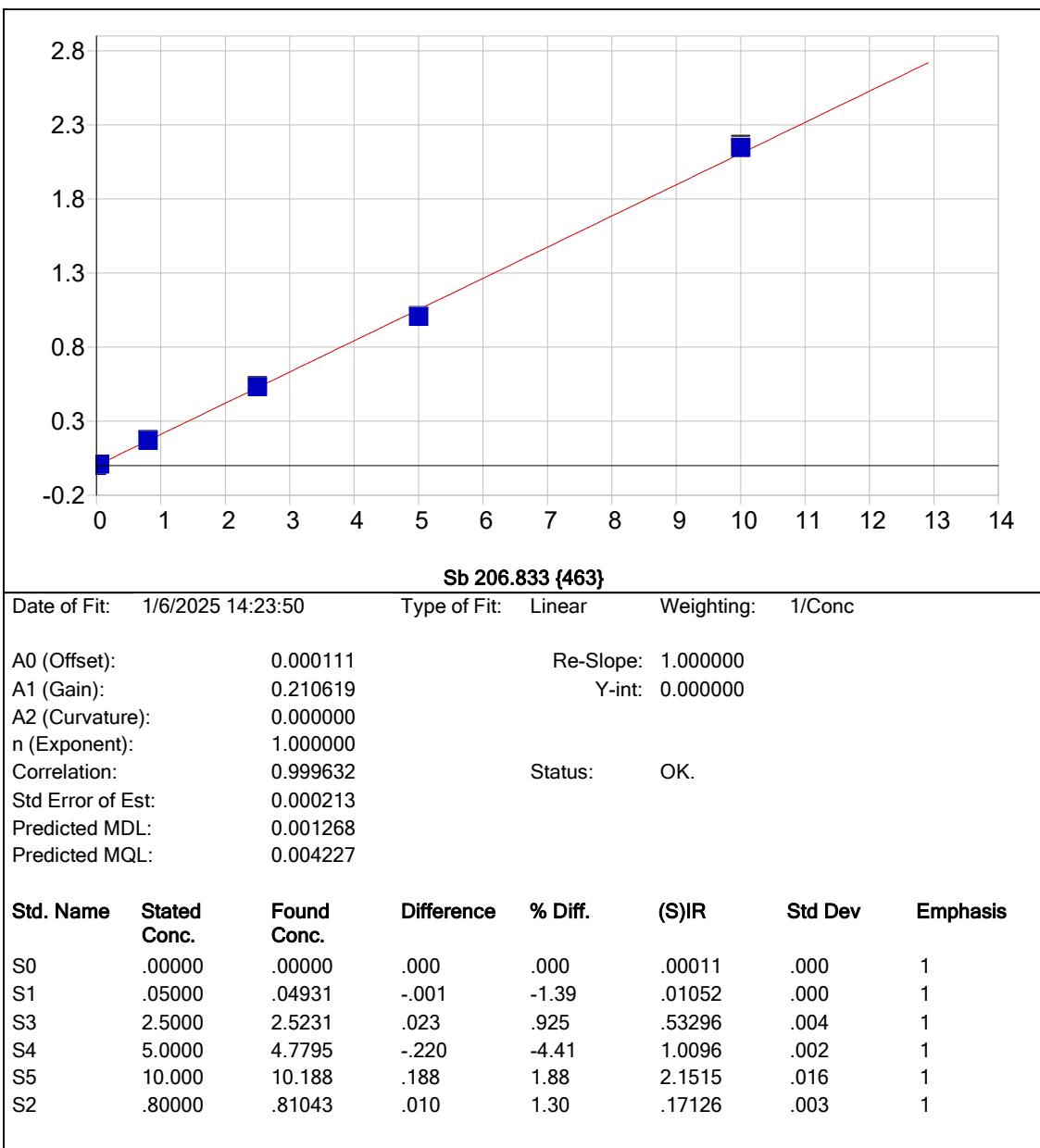
| | | | | | | |
|-----------|---|---|---|---|---|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2645.762 | 60330.43 | 11328.53 | 2073.057 | 3833.917 | 11 |
| Stddev | 6.271 | 1087.67 | 122.04 | 46.075 | 13.673 | 12 |
| %RSD | .2370112 | 1.802850 | 1.077305 | 2.222579 | .3566376 | 13 |
| #1 | 2643.093 | 61371.13 | 11411.79 | 2119.453 | 3823.822 | 14 |
| #2 | 2641.267 | 59201.21 | 11385.37 | 2027.309 | 3828.452 | 15 |
| #3 | 2652.926 | 60418.95 | 11188.44 | 2072.407 | 3849.478 | 16 |

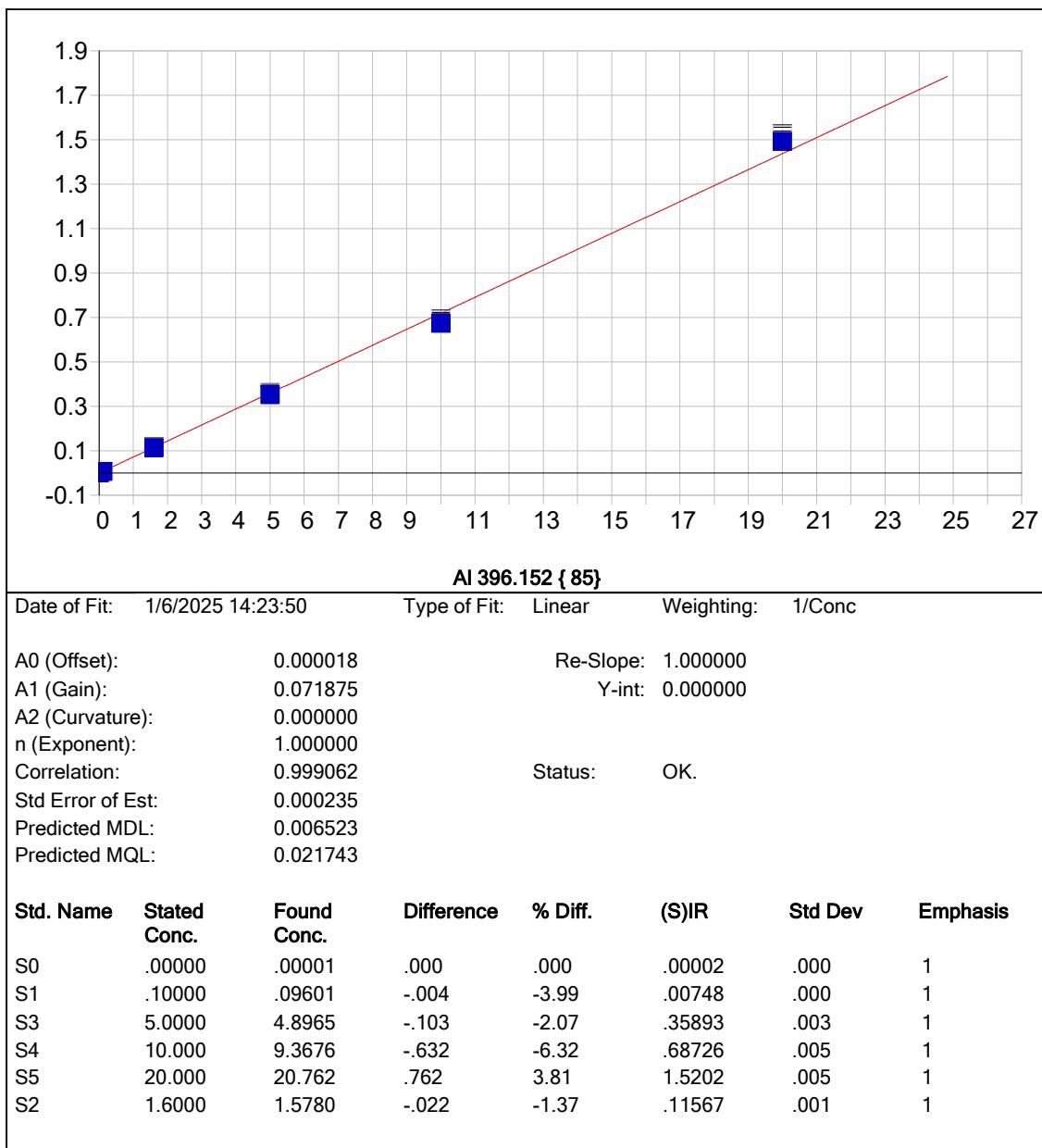


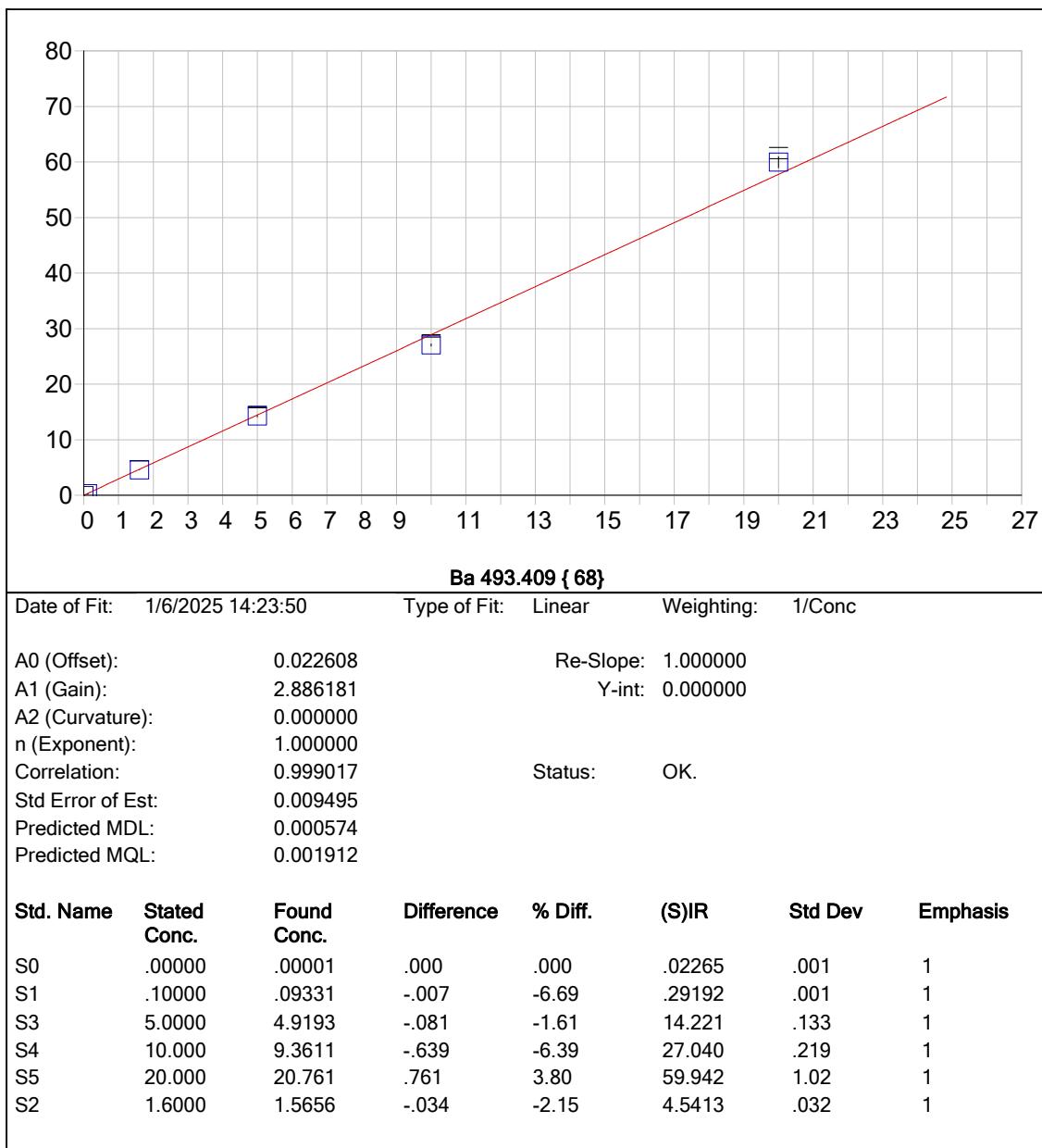


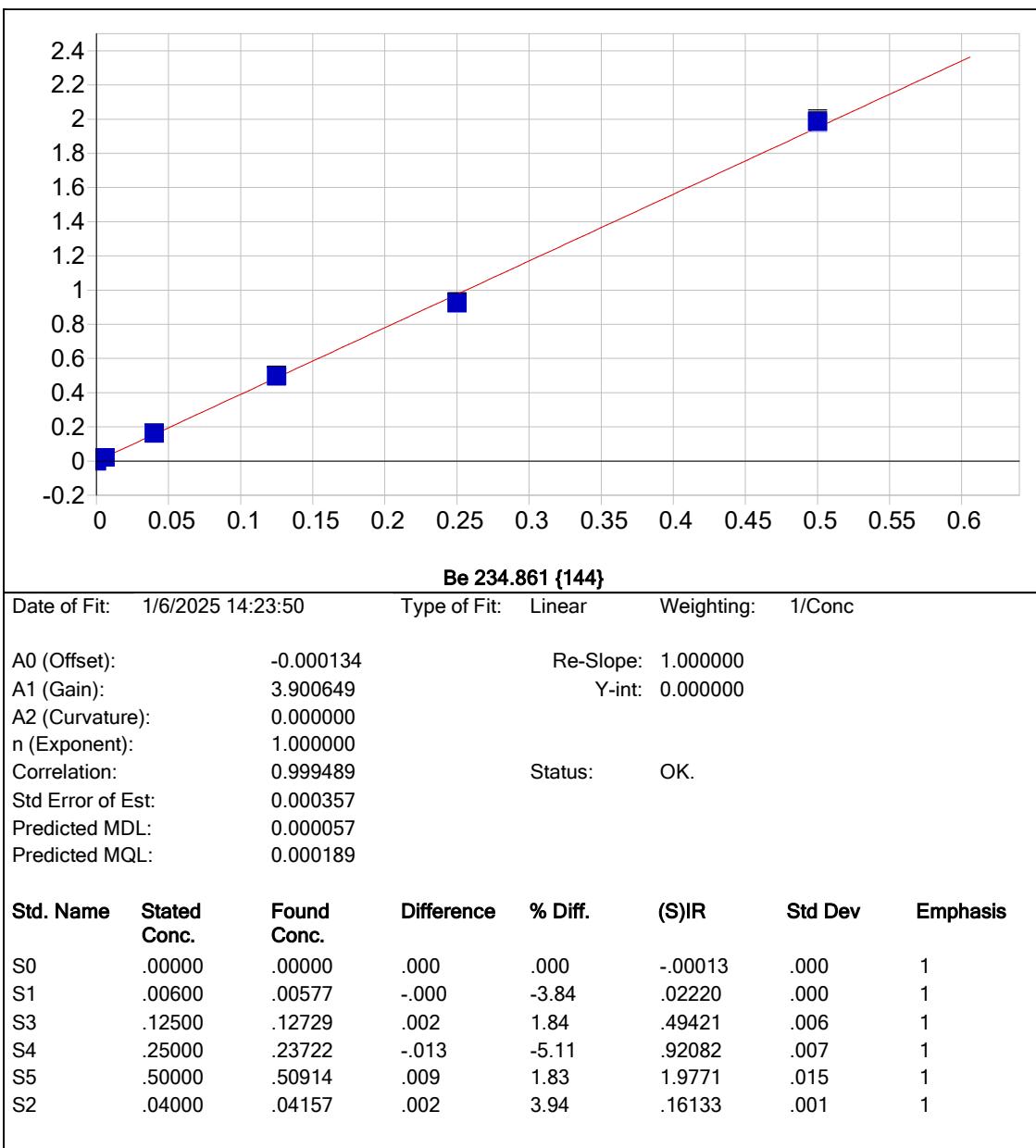


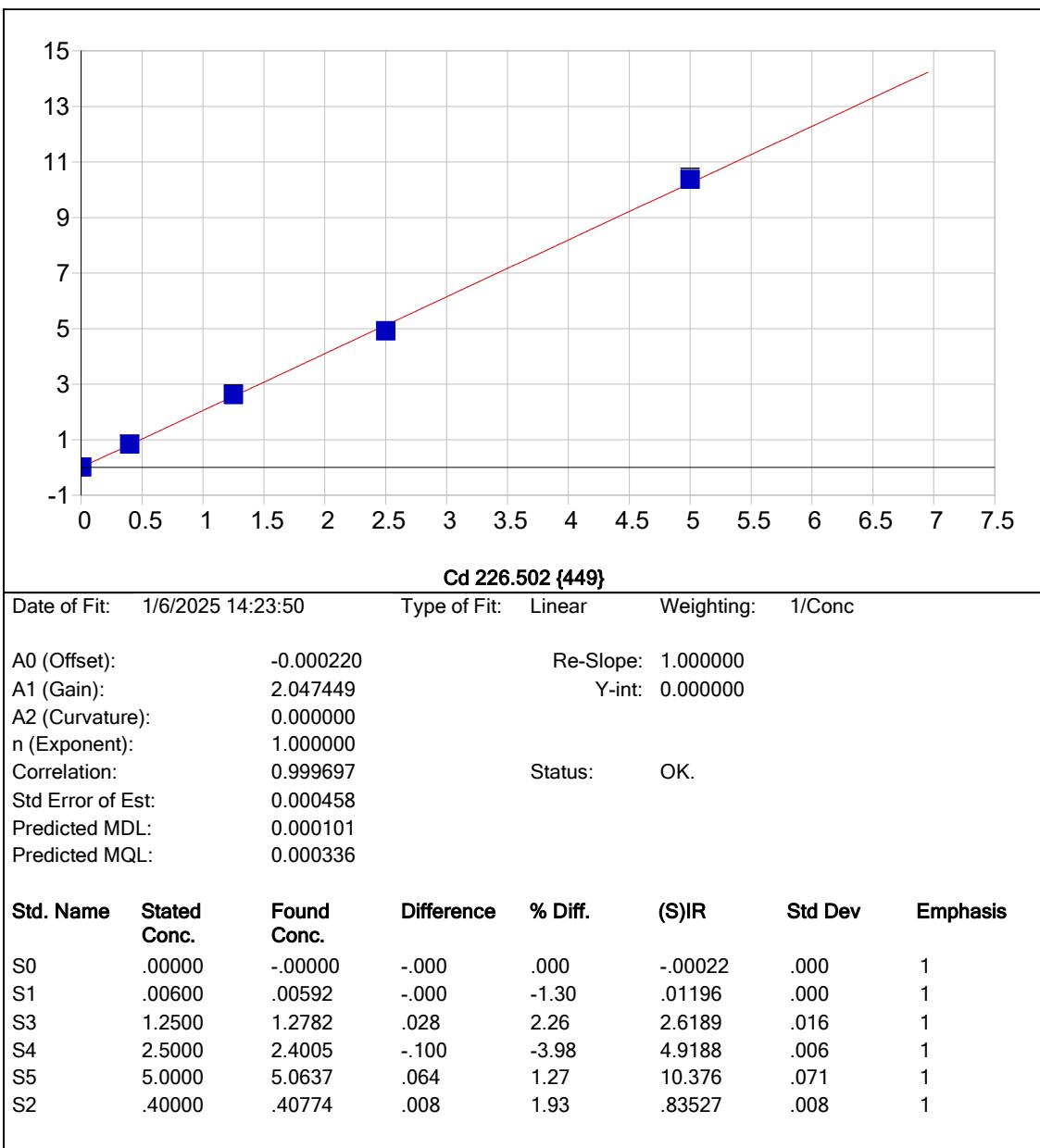


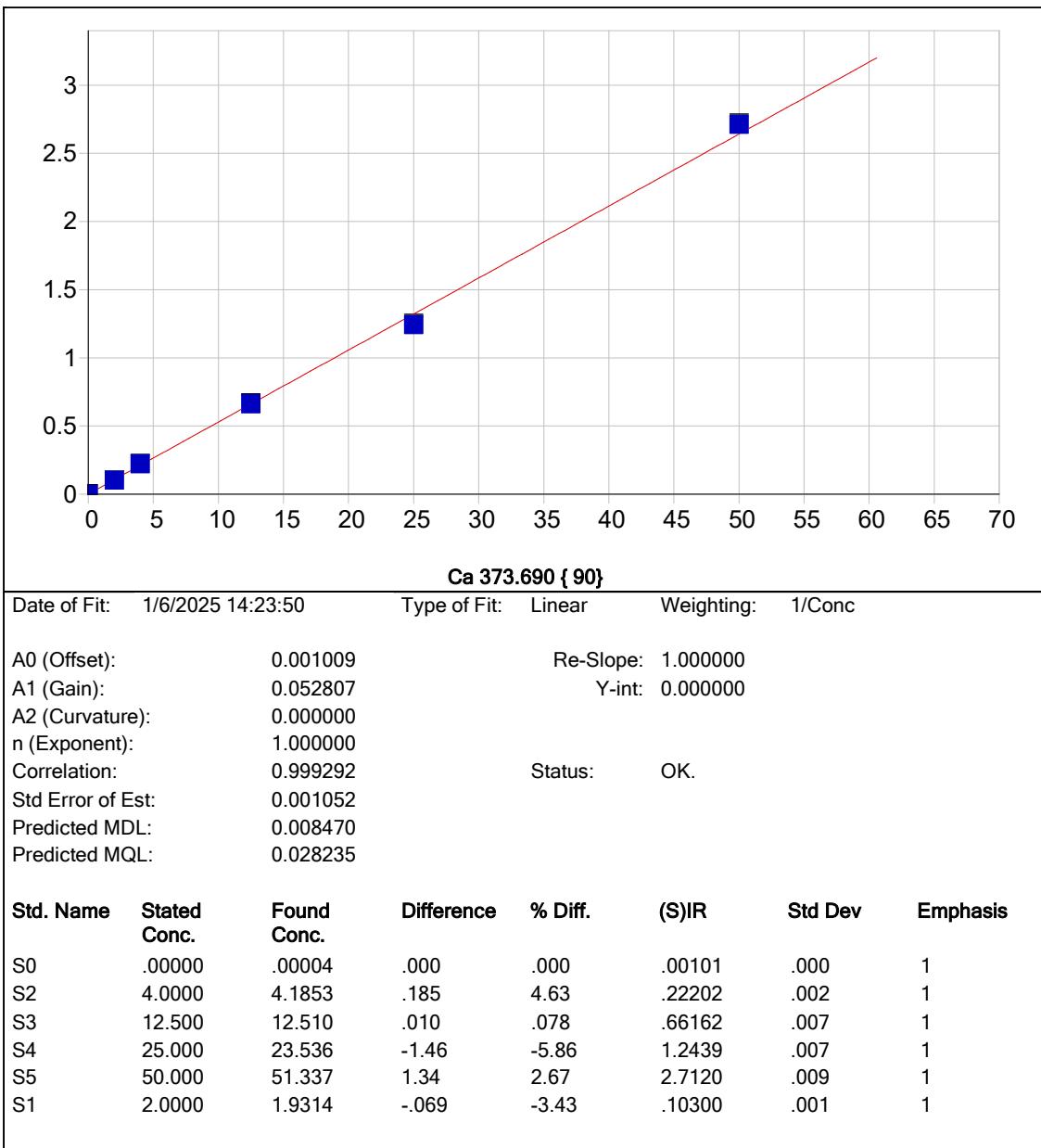


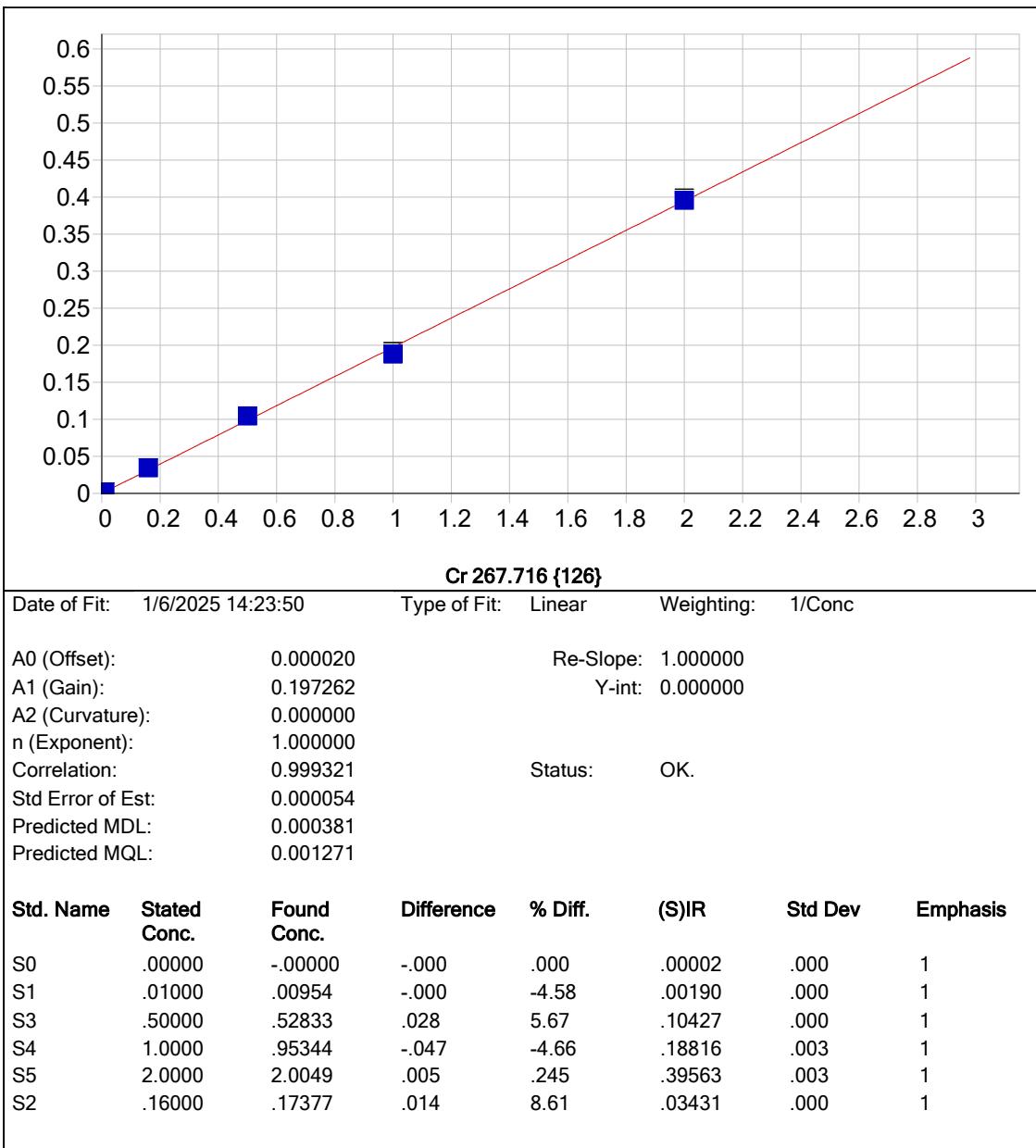


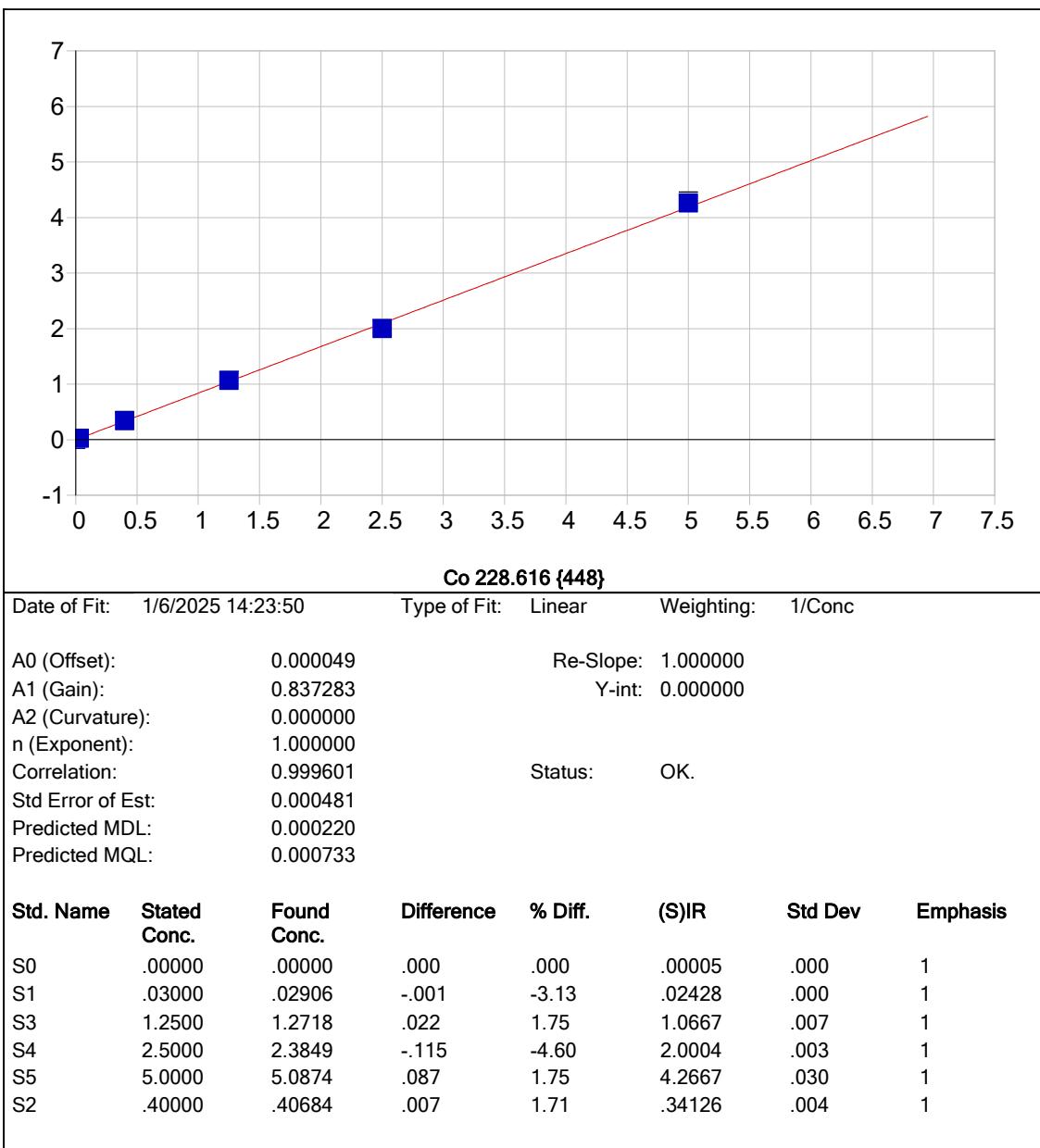


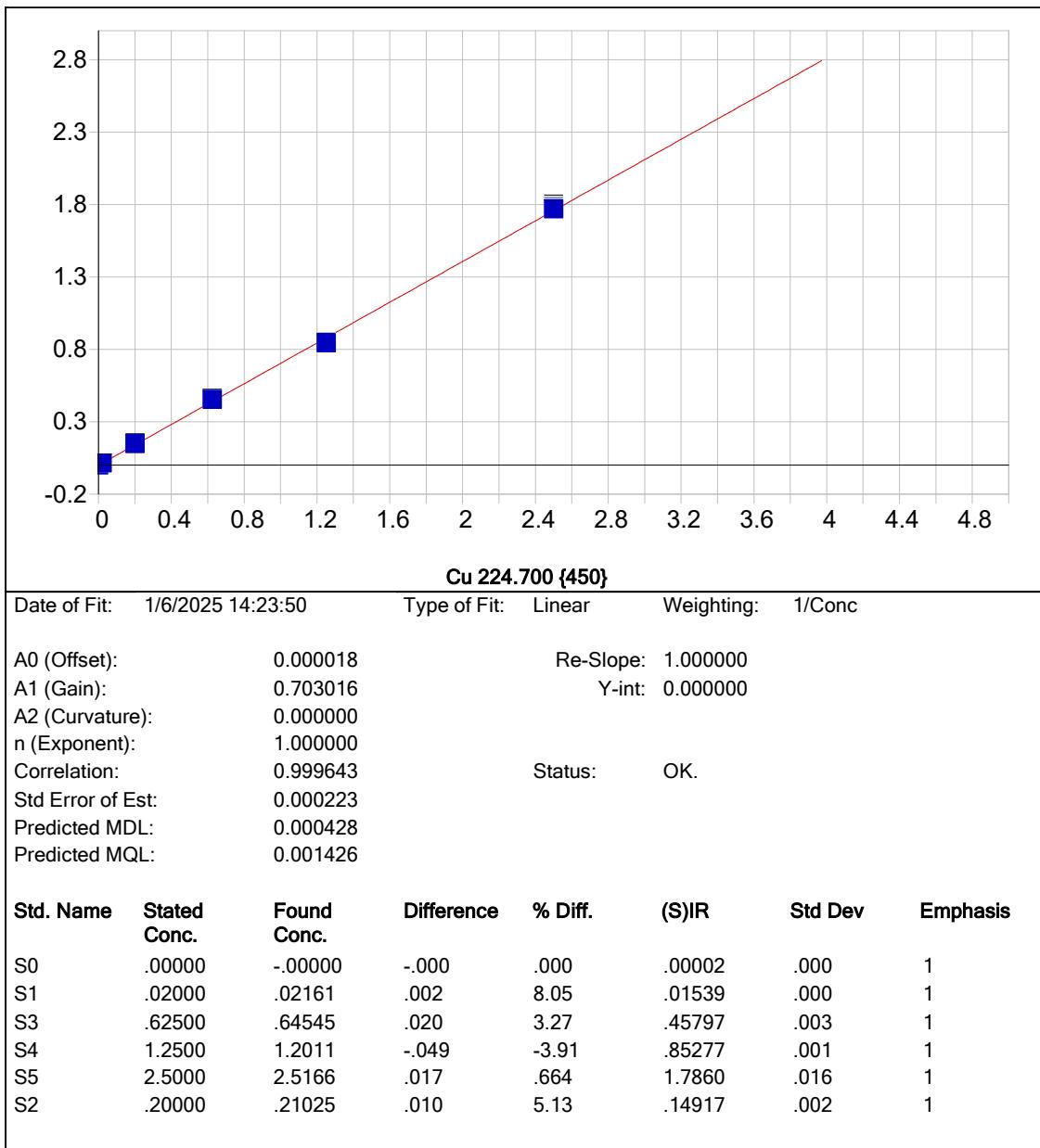


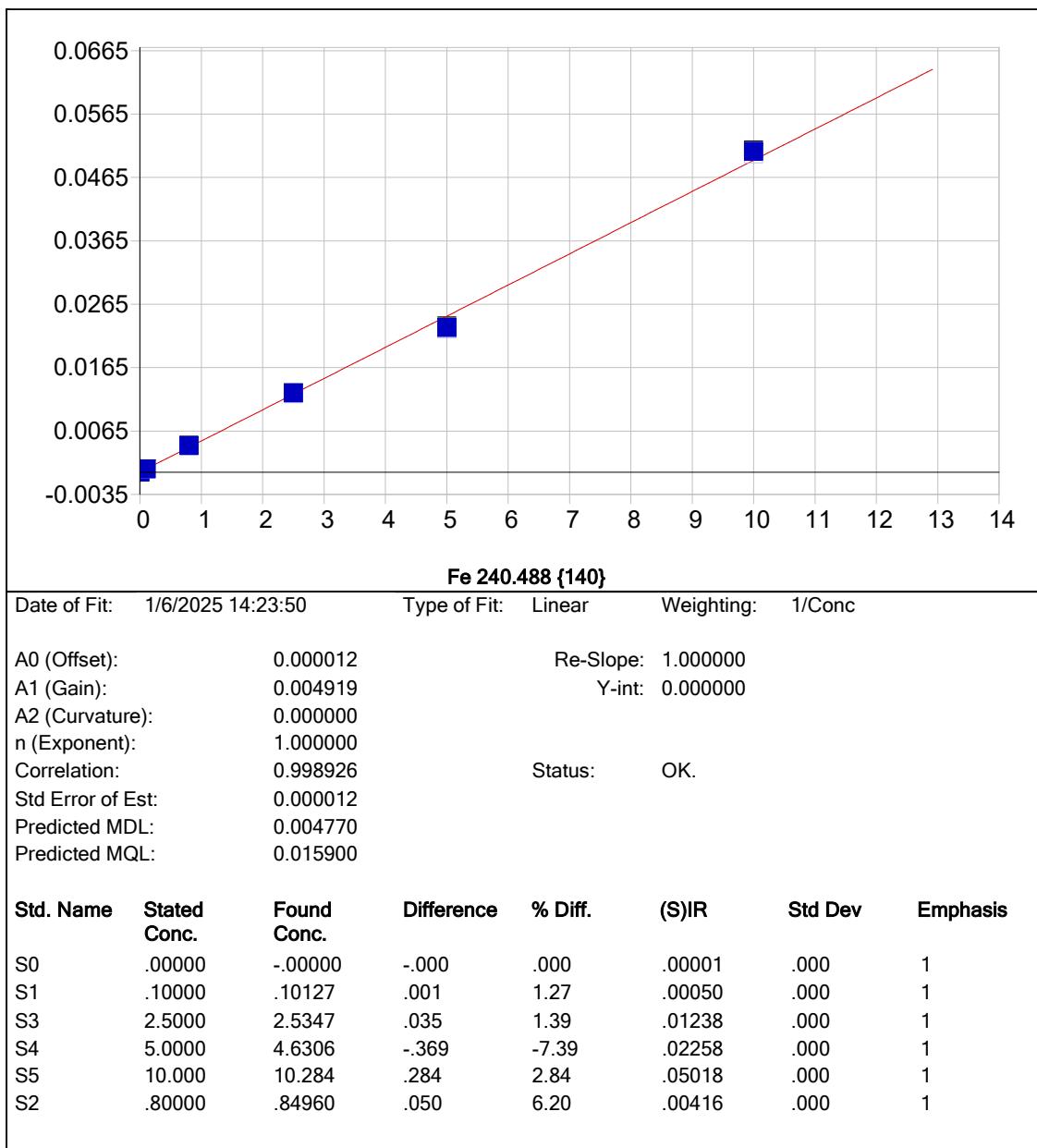


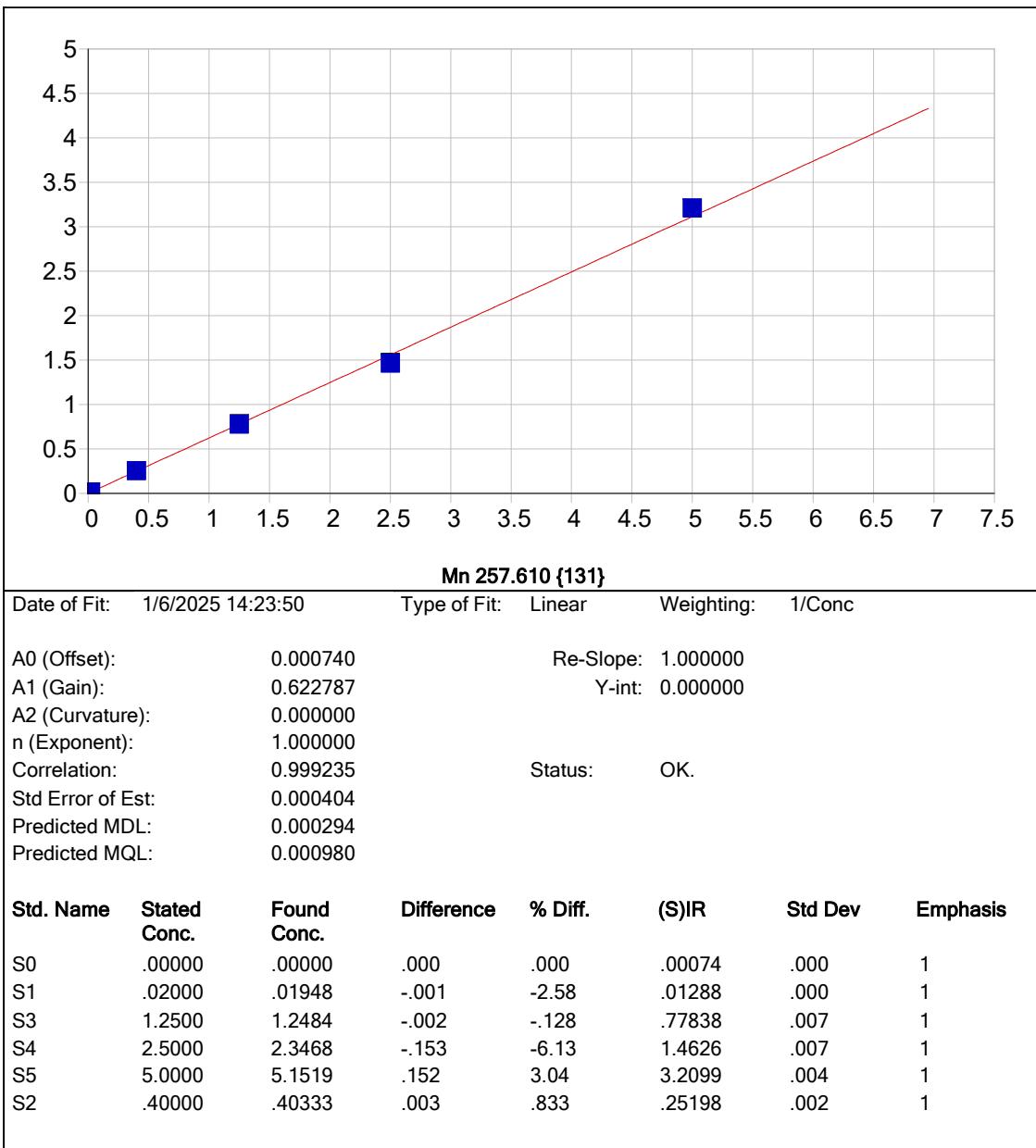


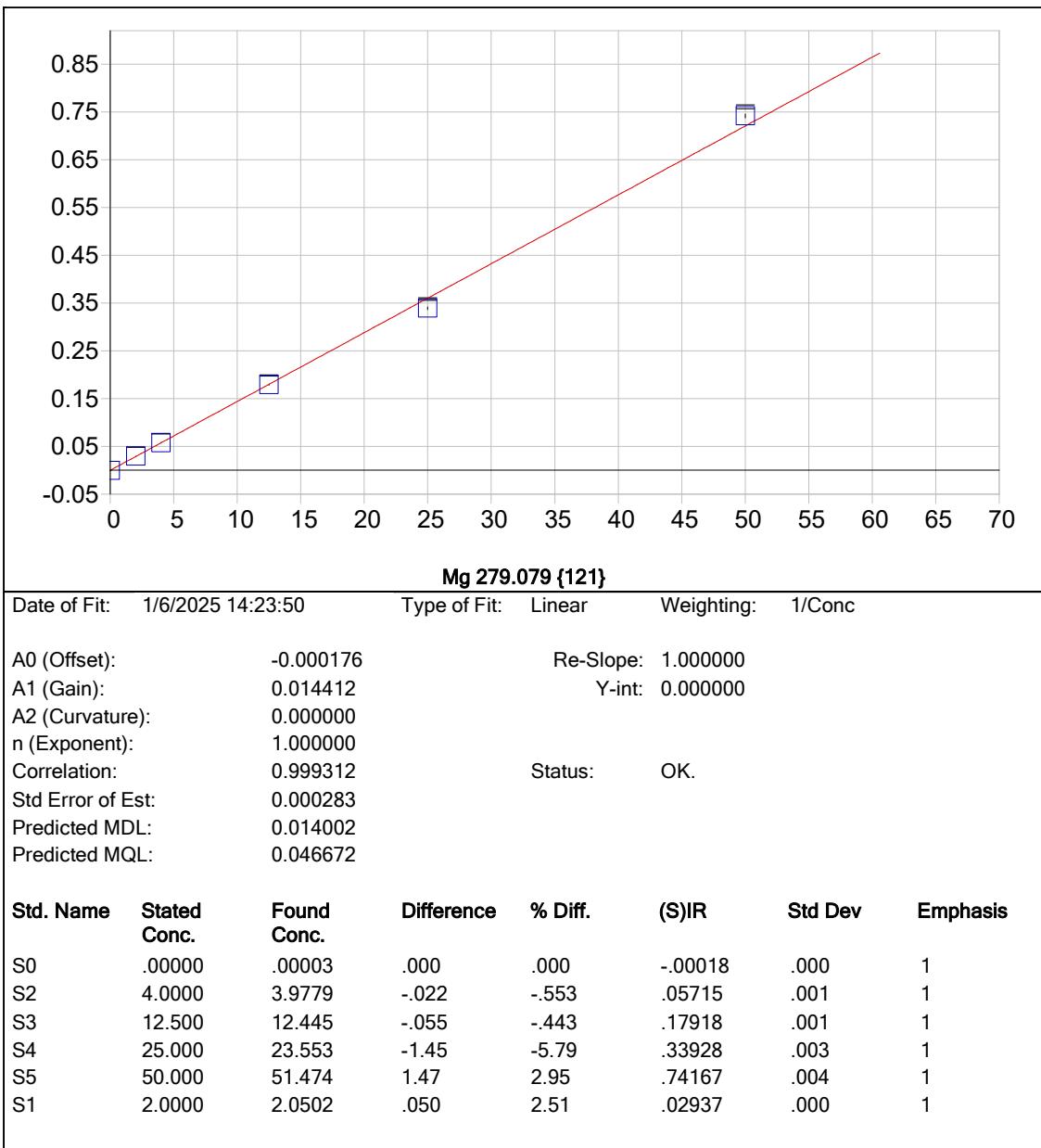


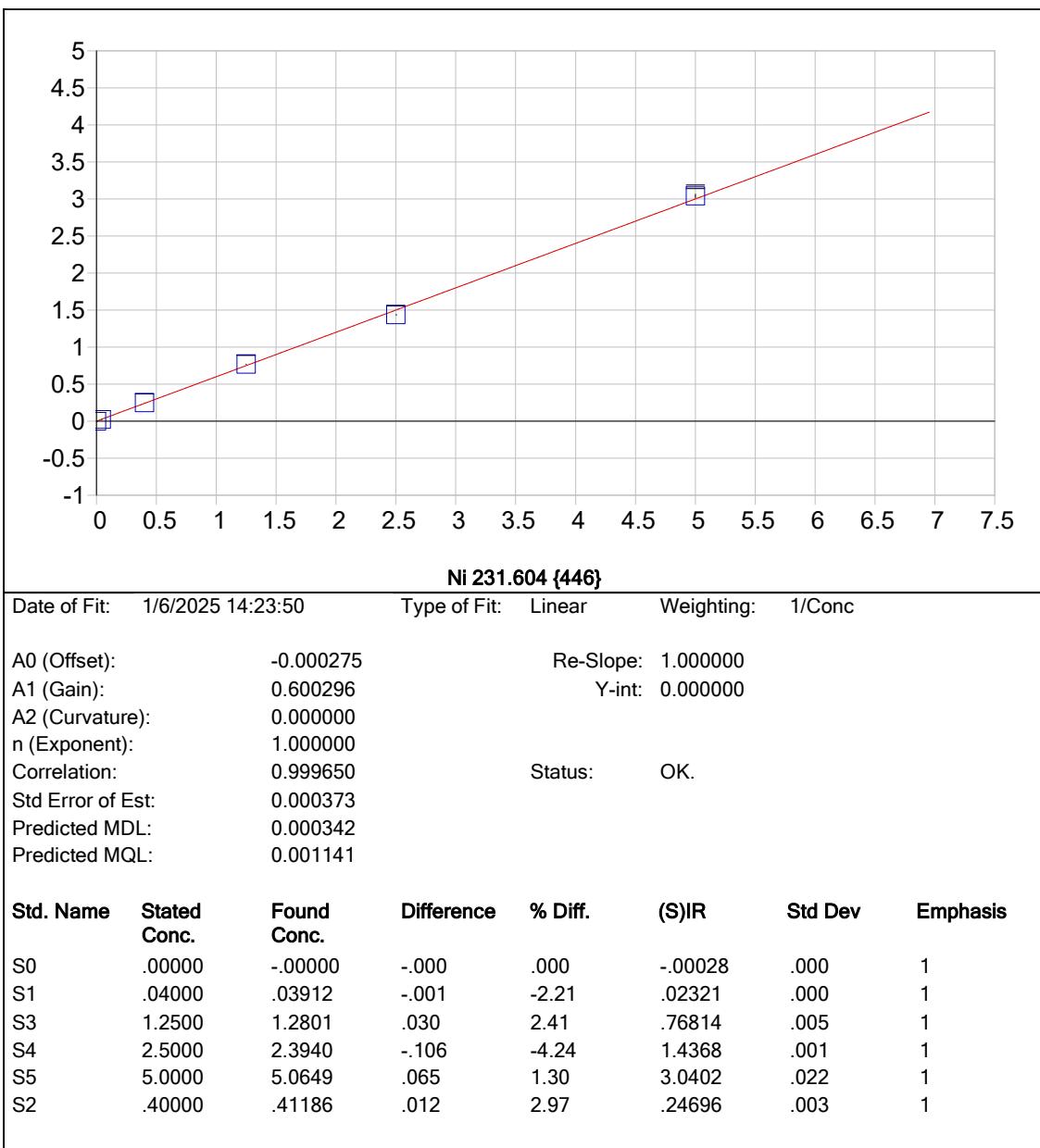


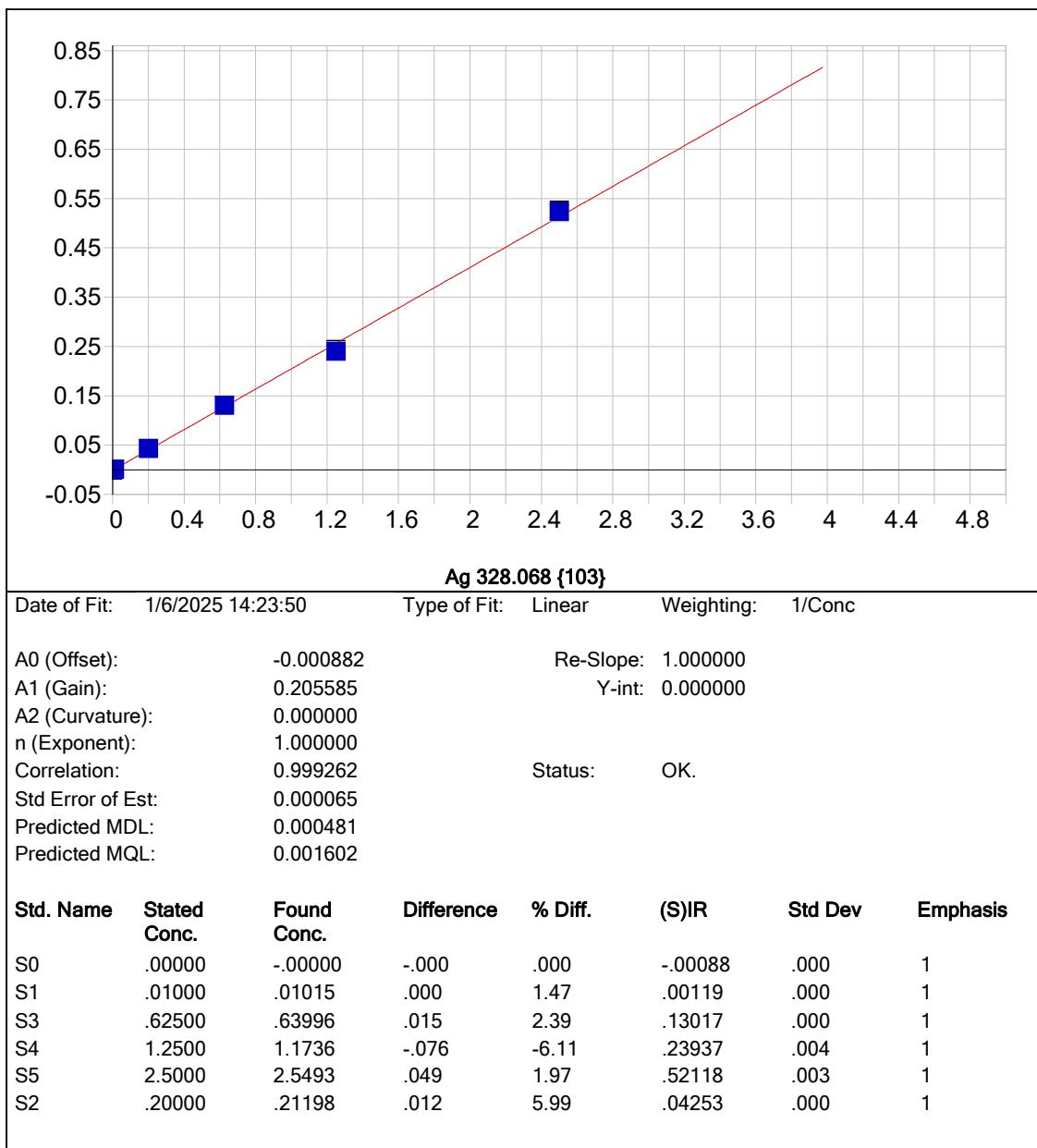


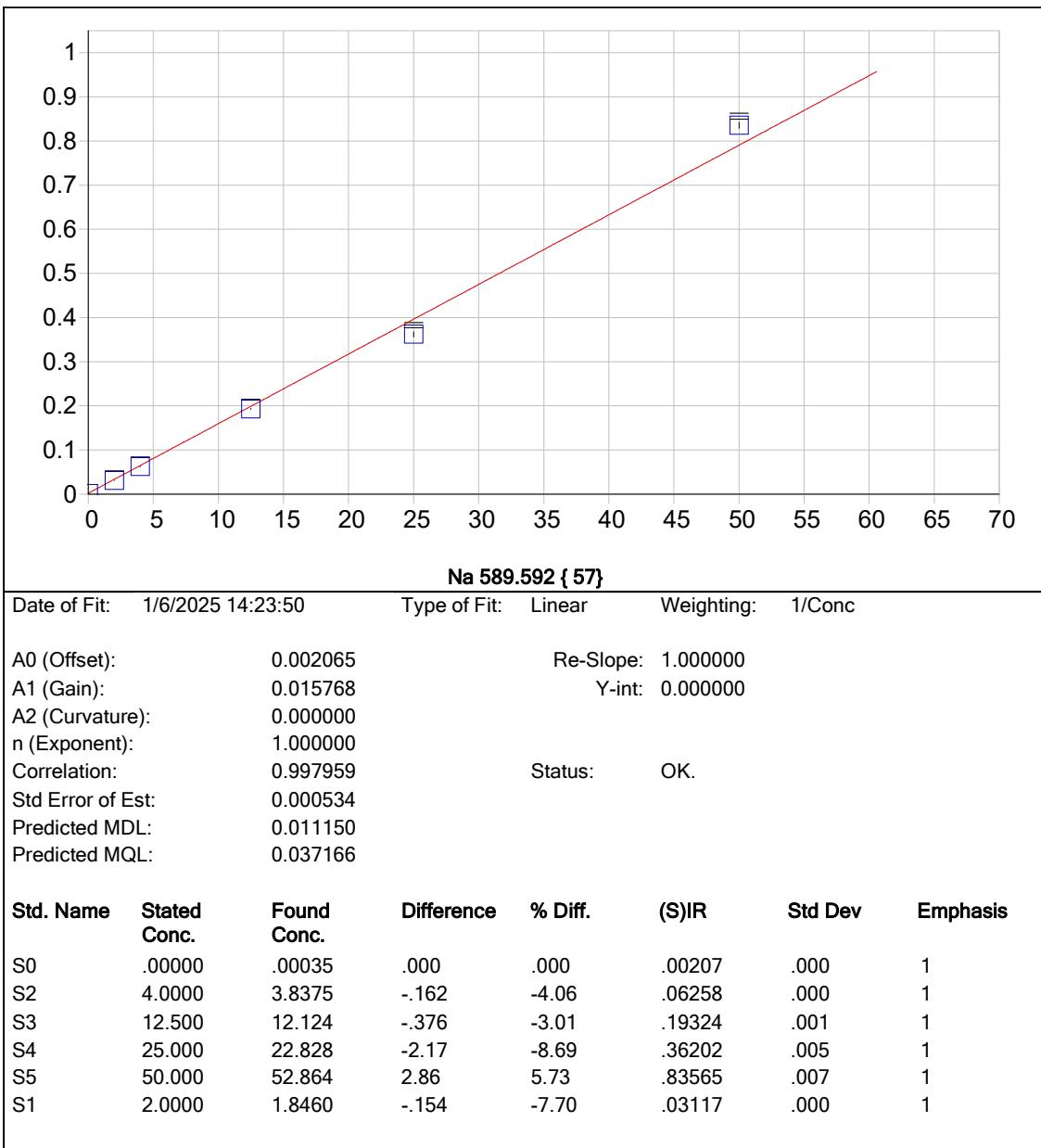


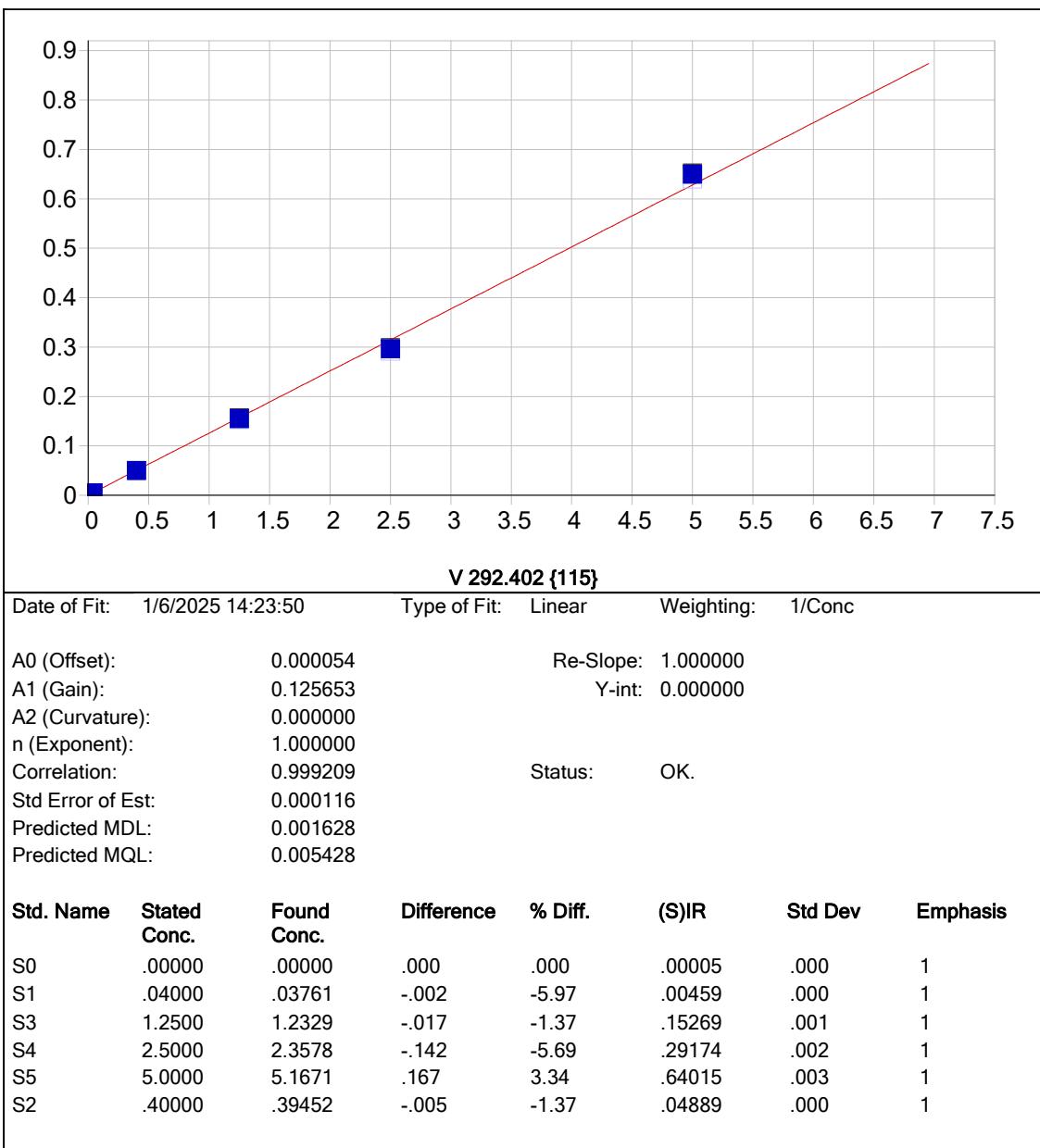


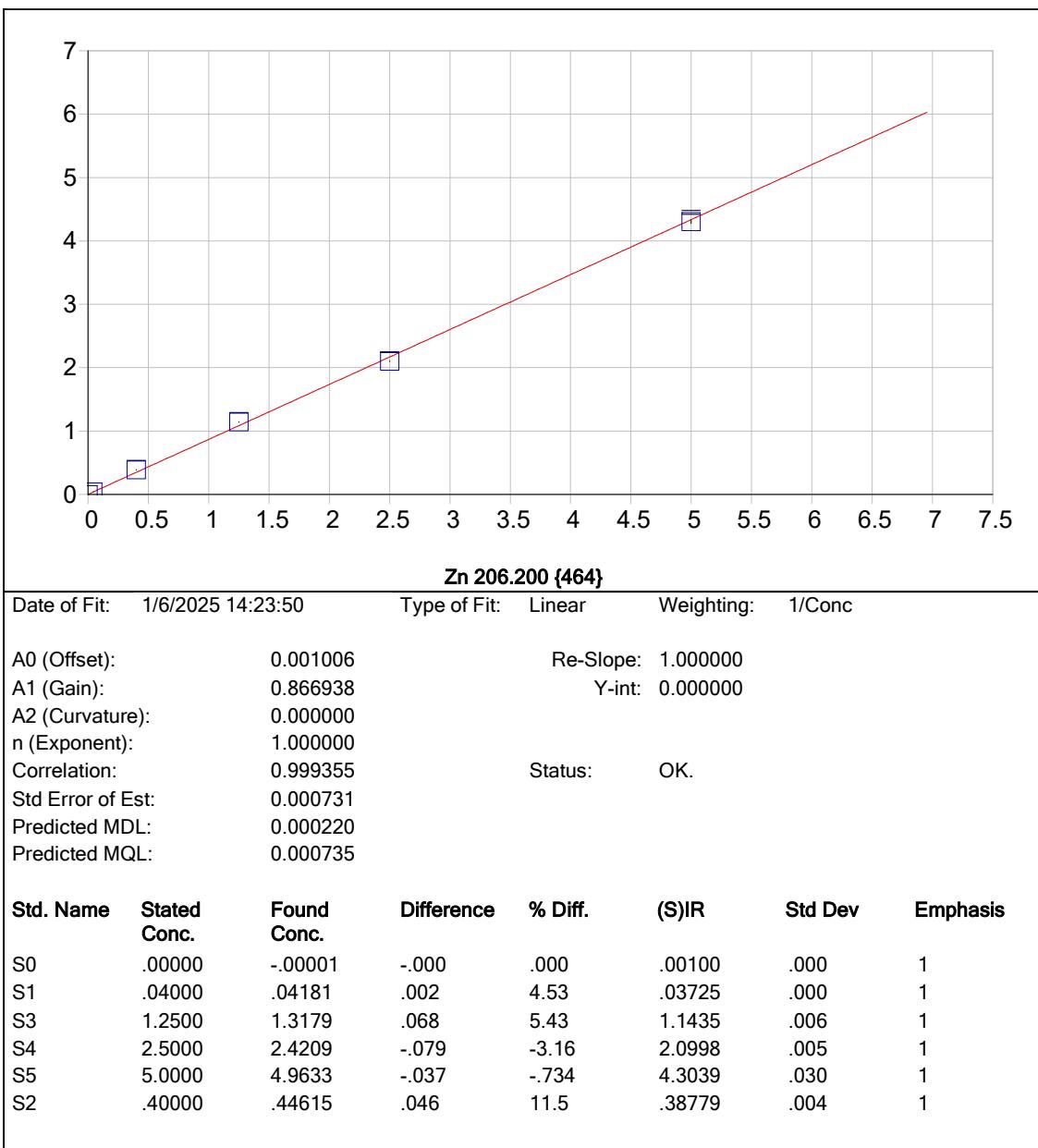


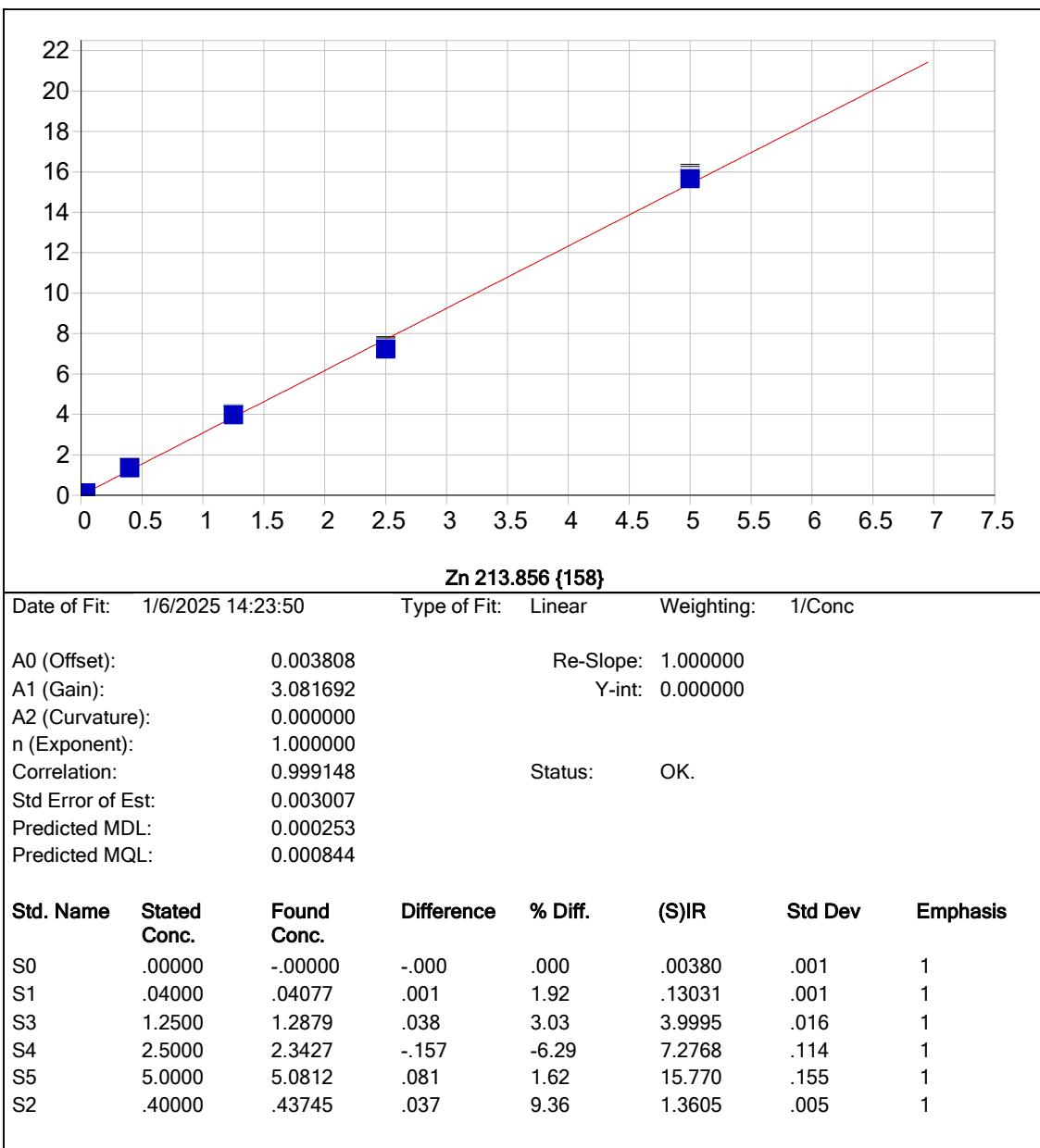


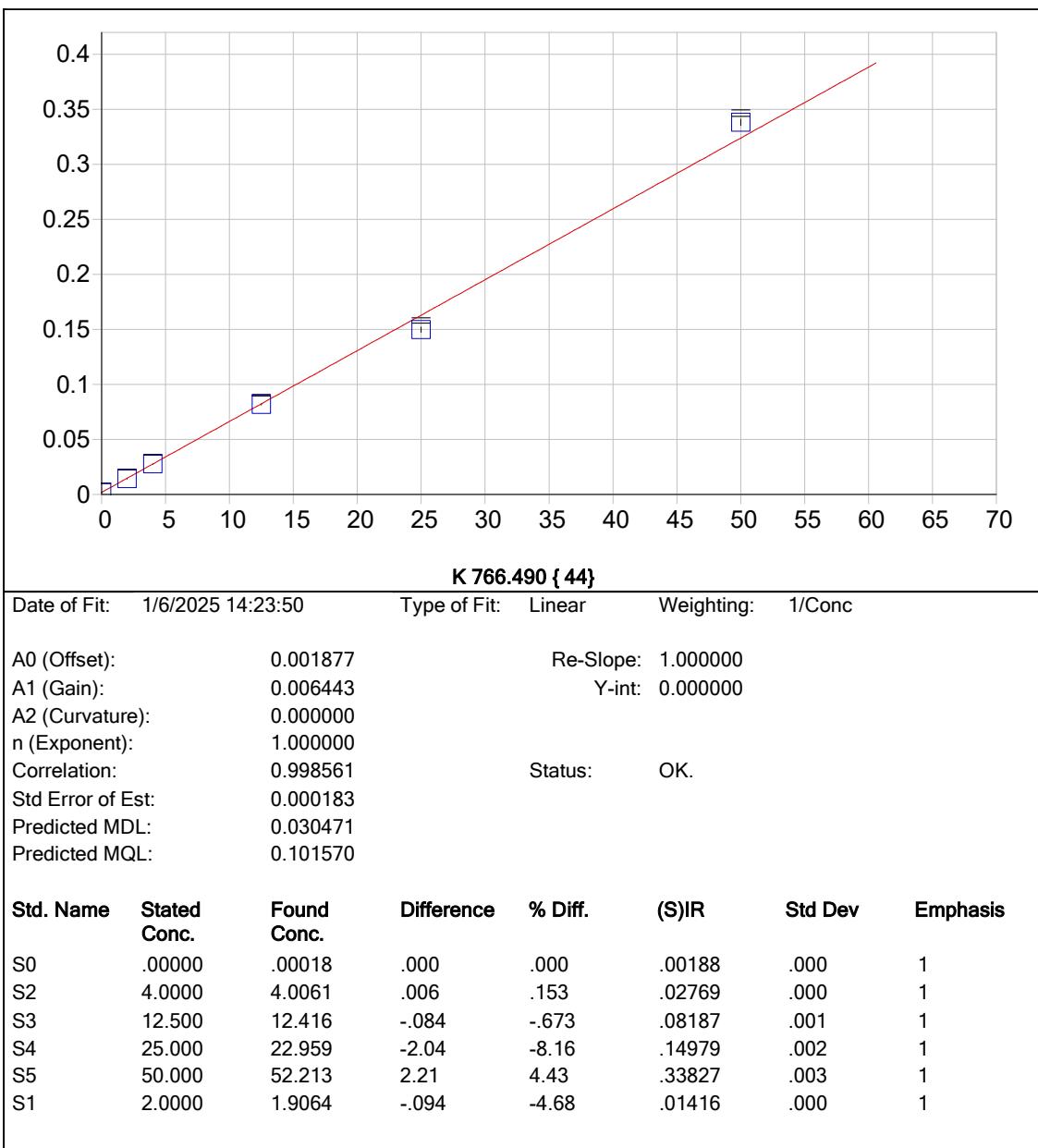


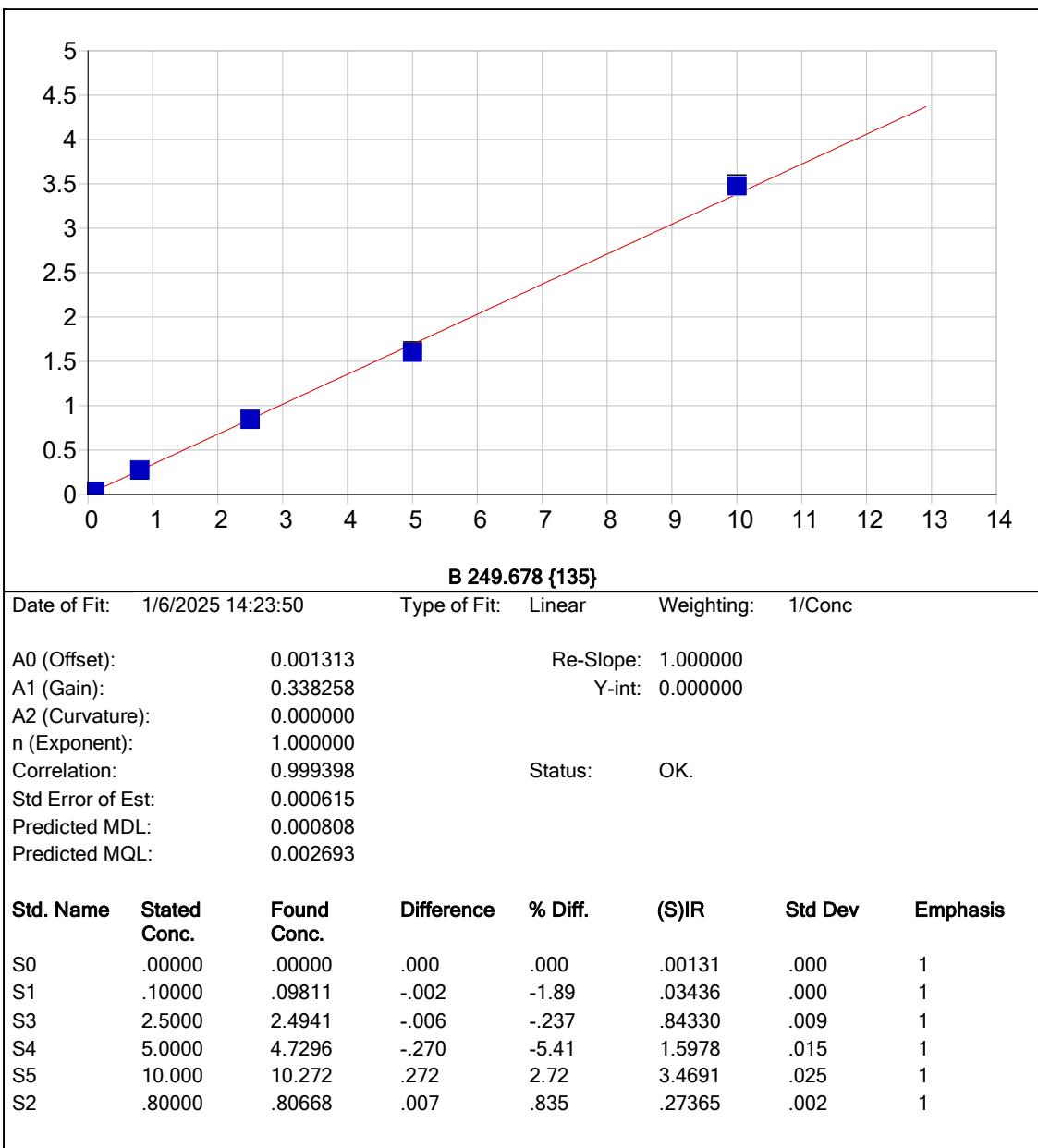


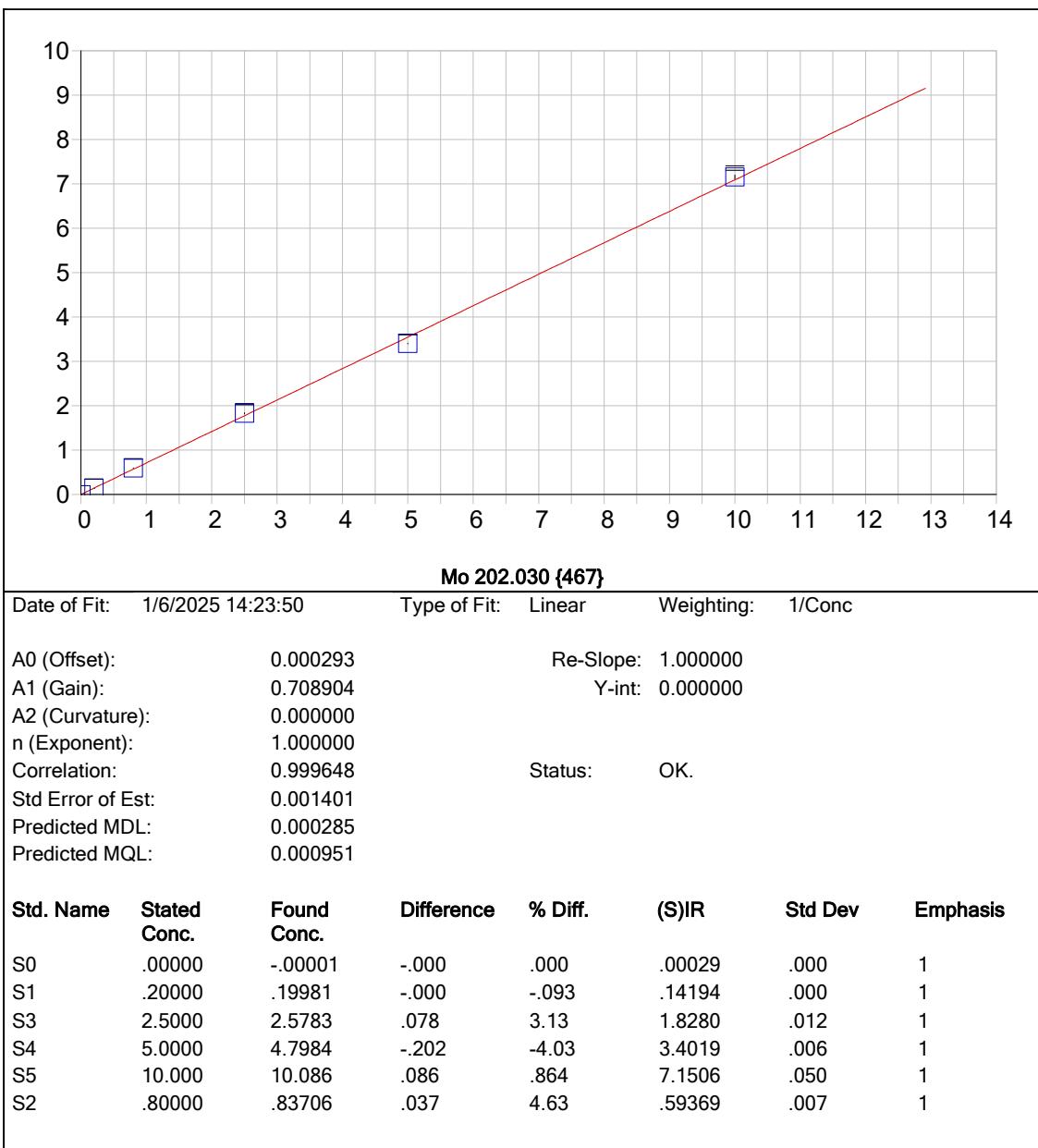


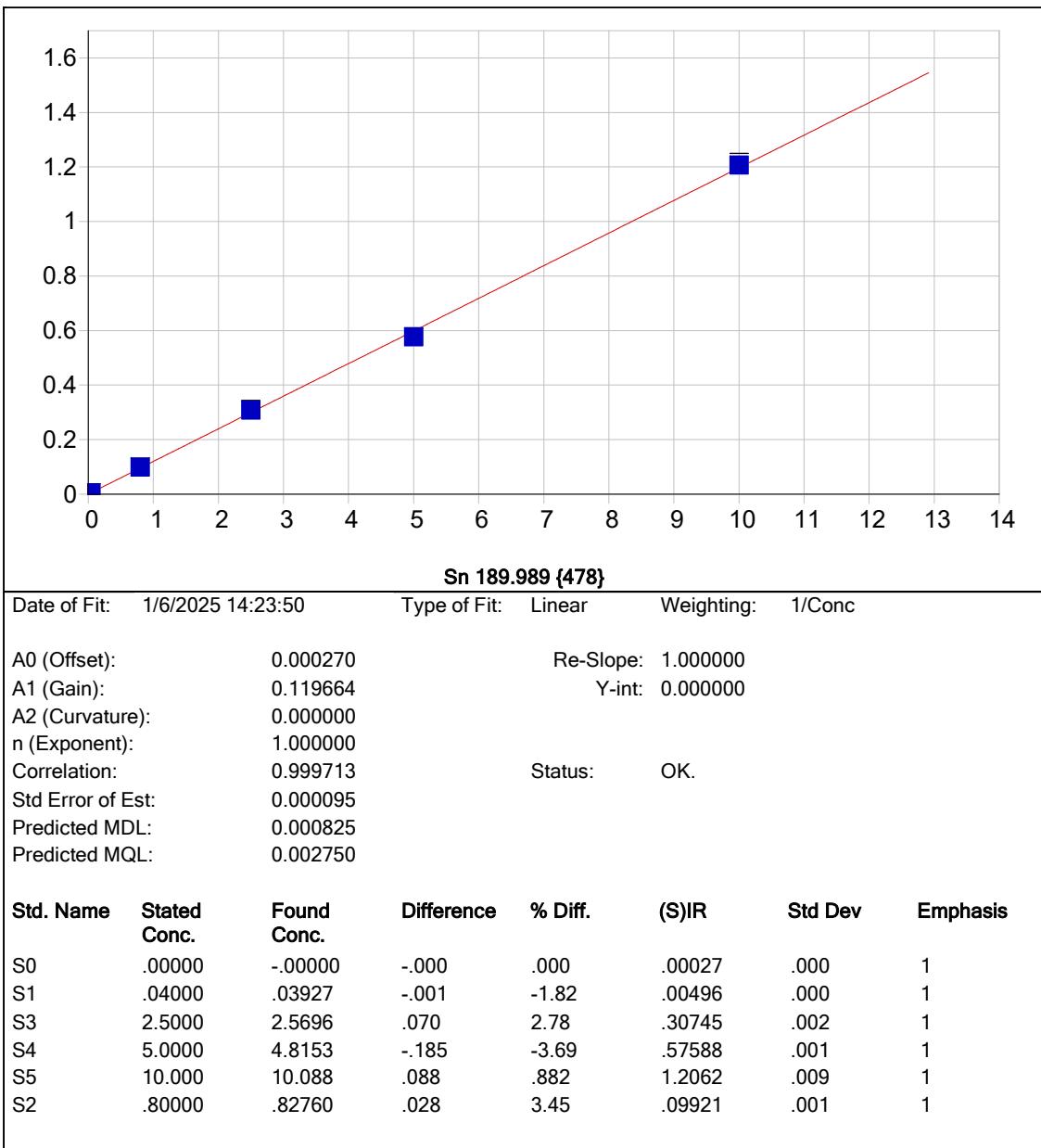


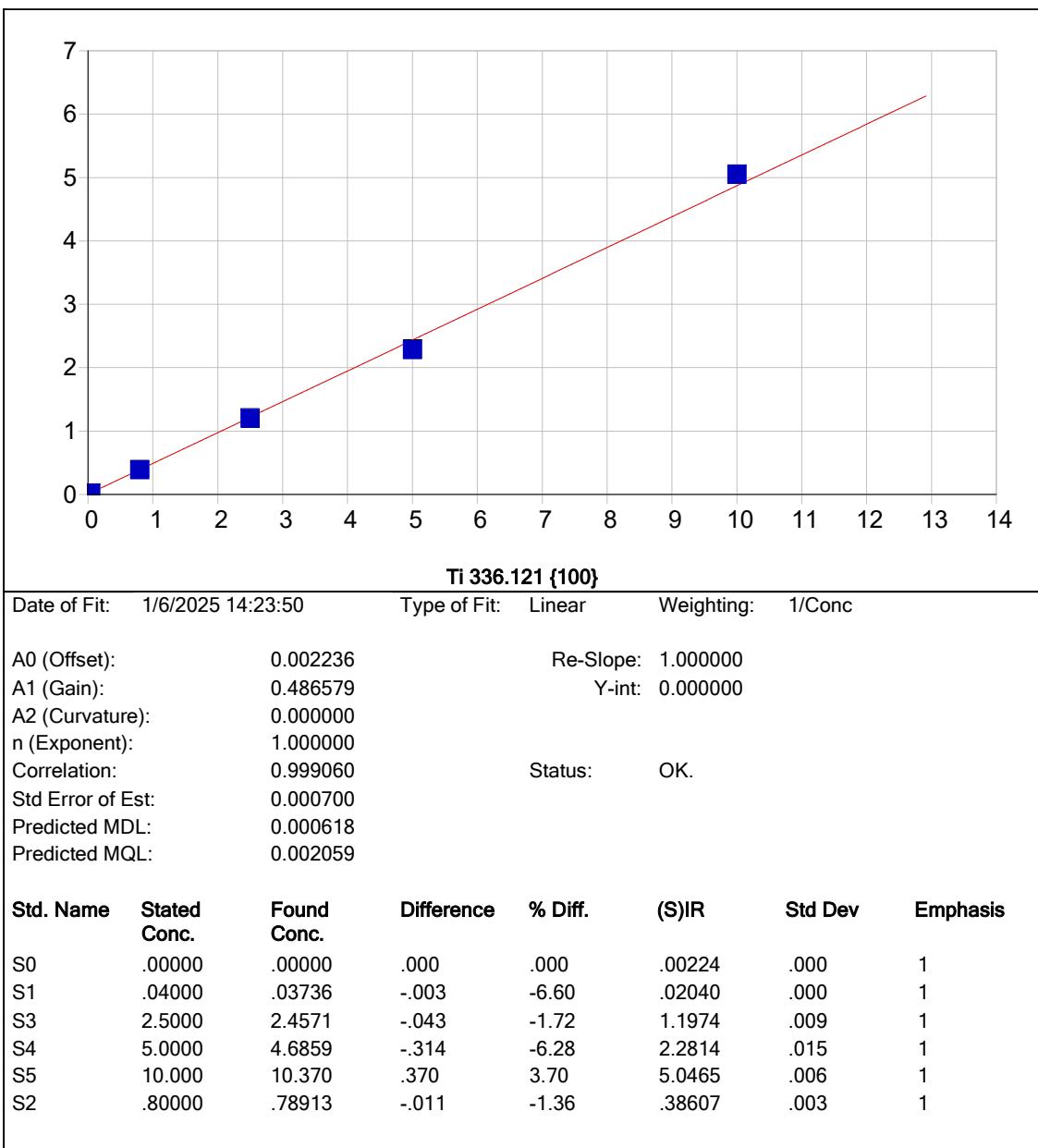


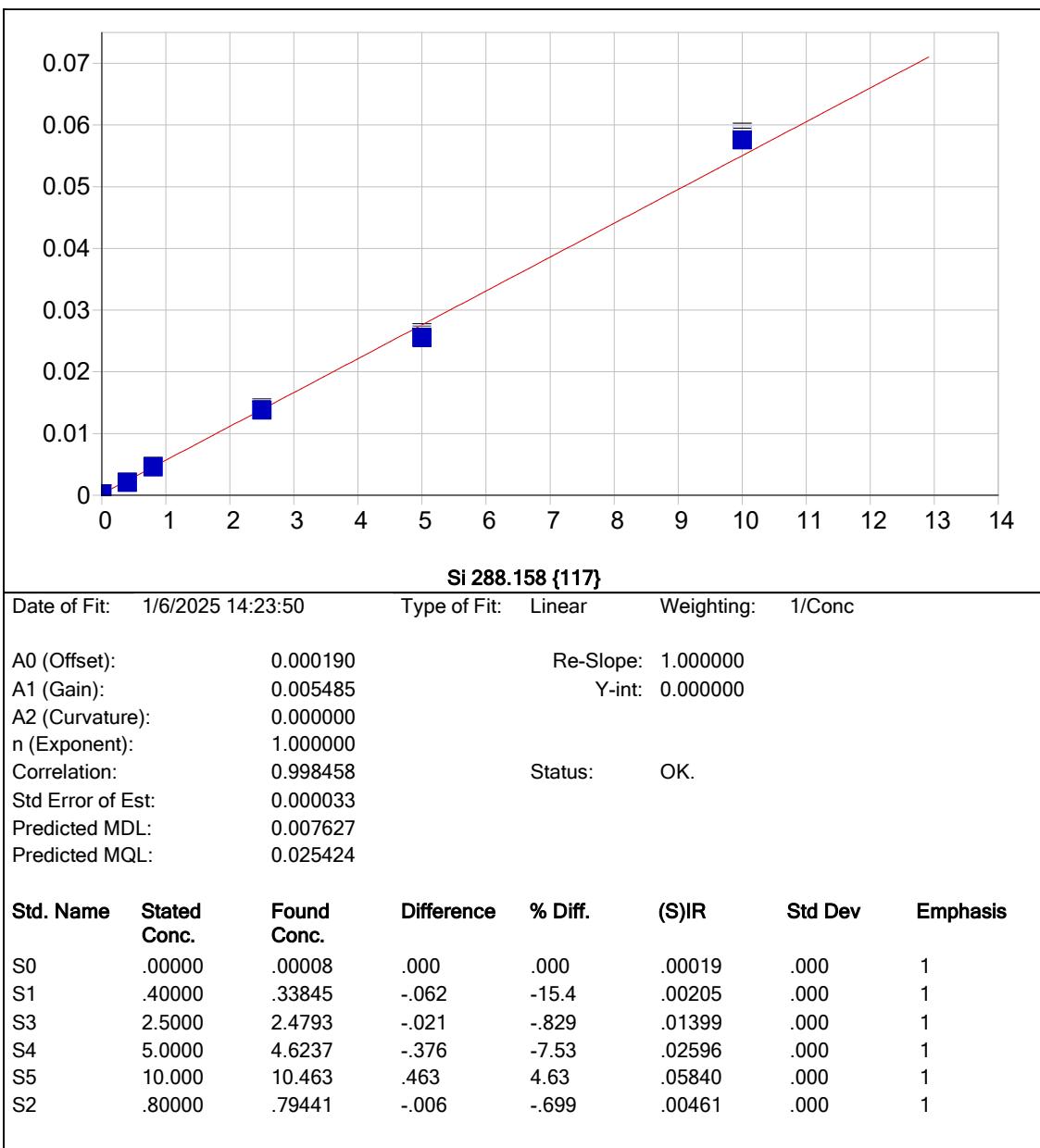


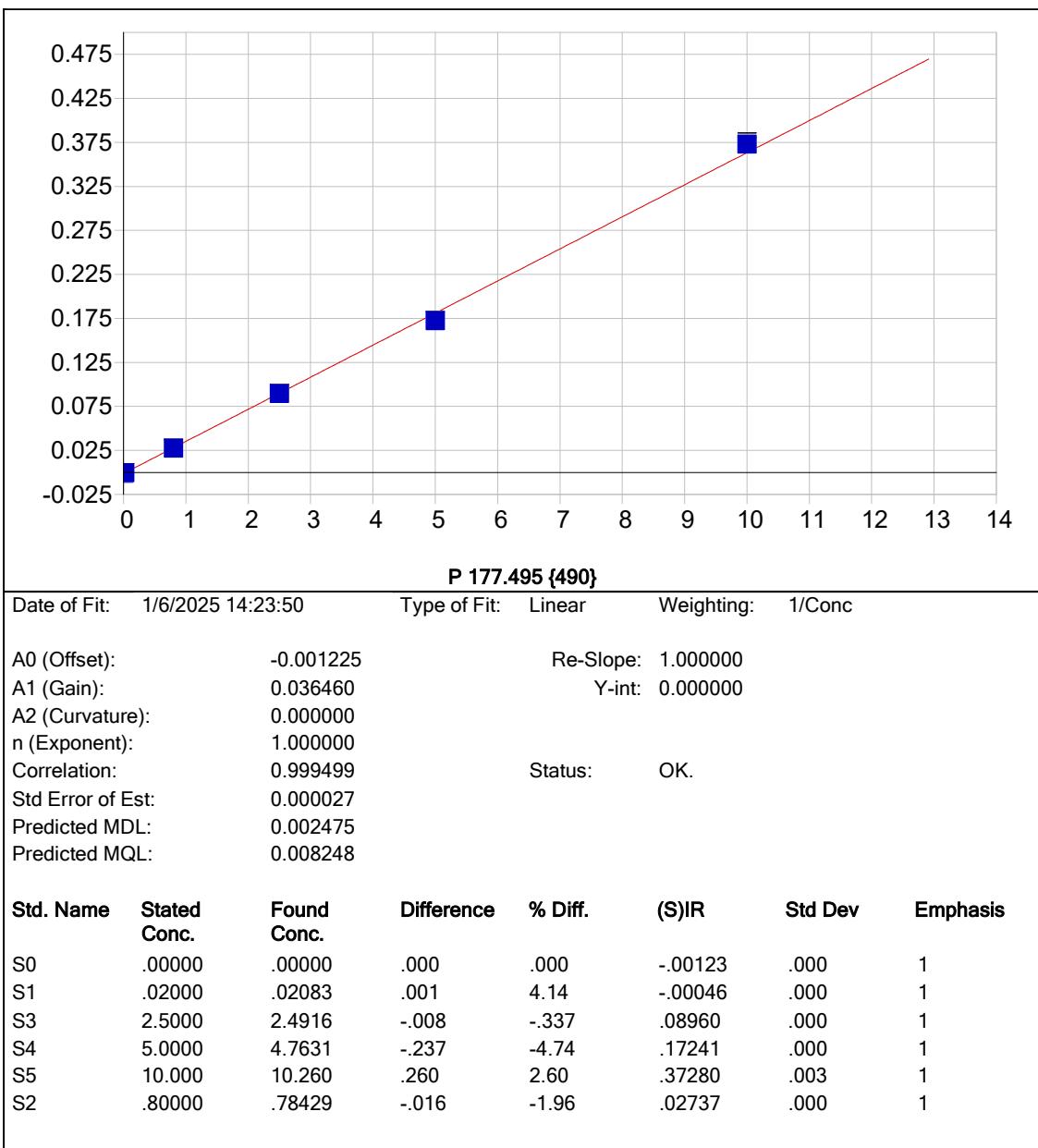


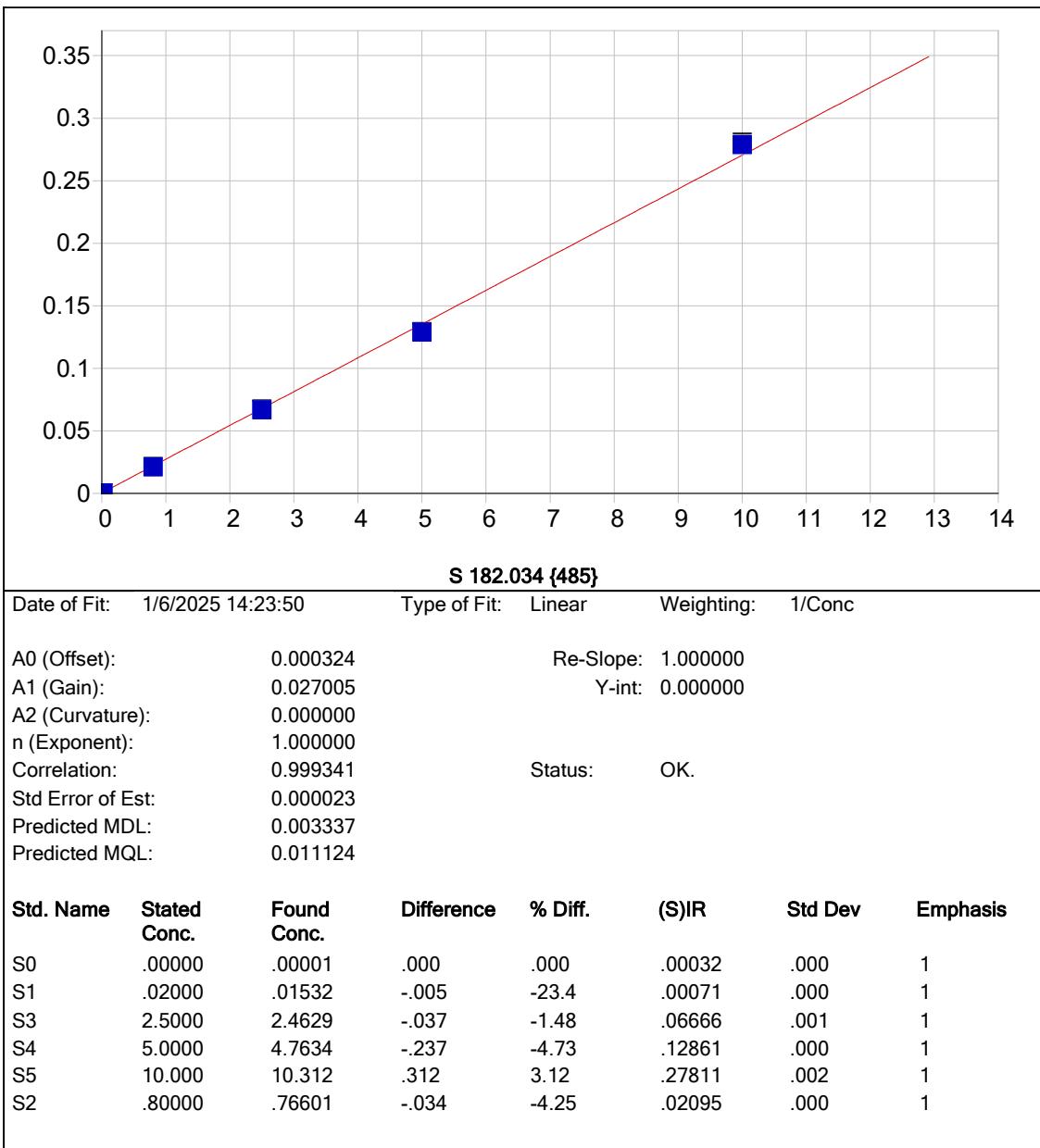


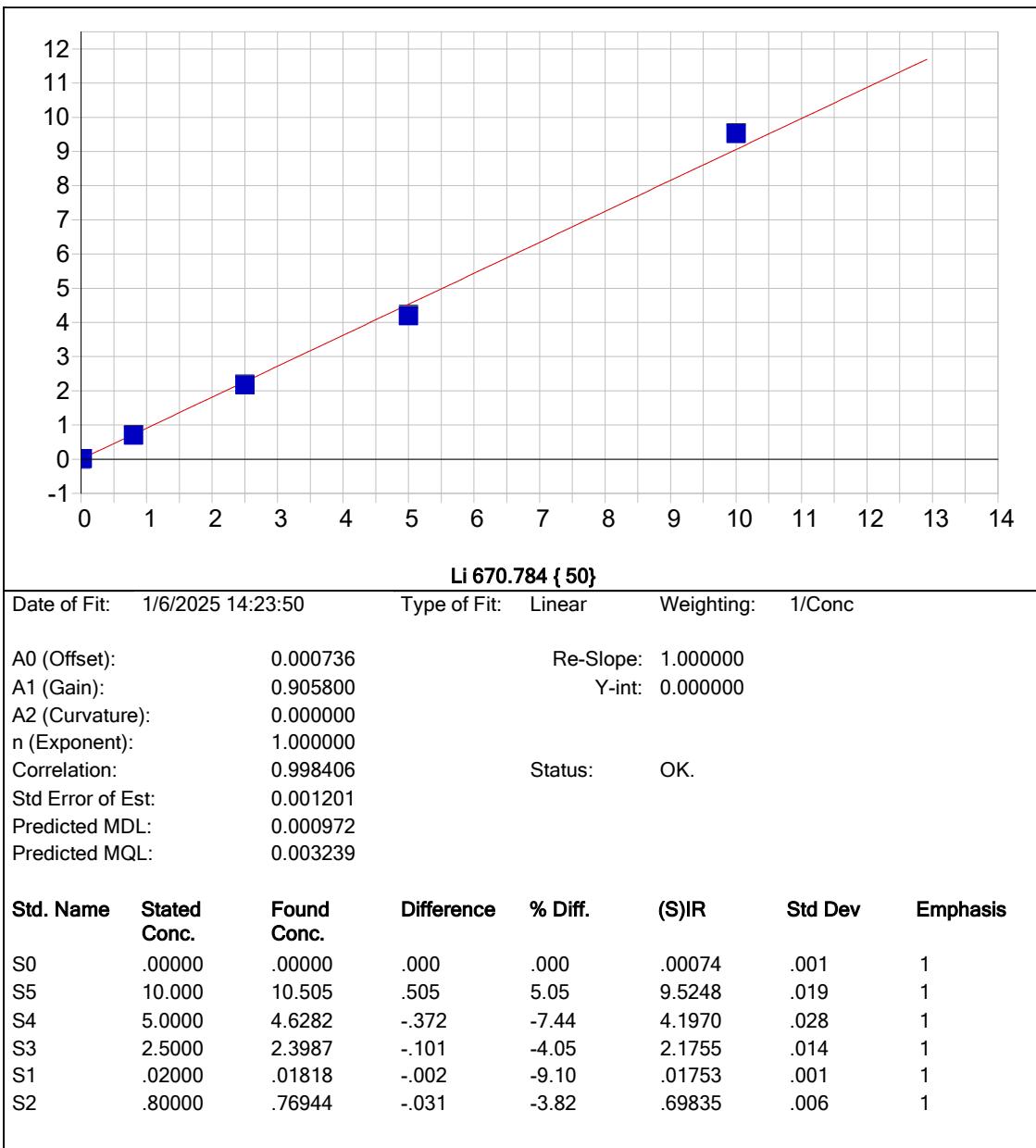


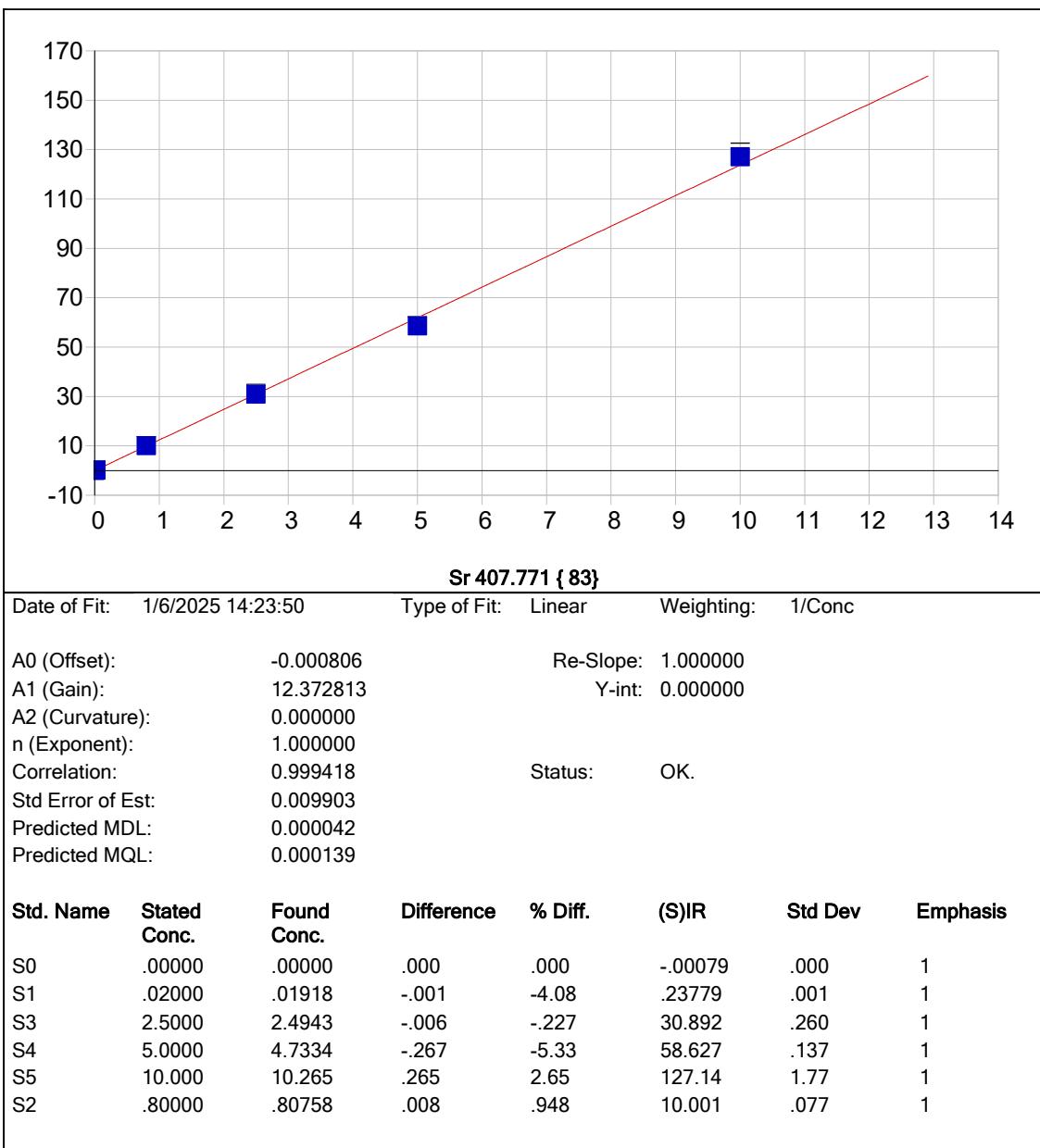


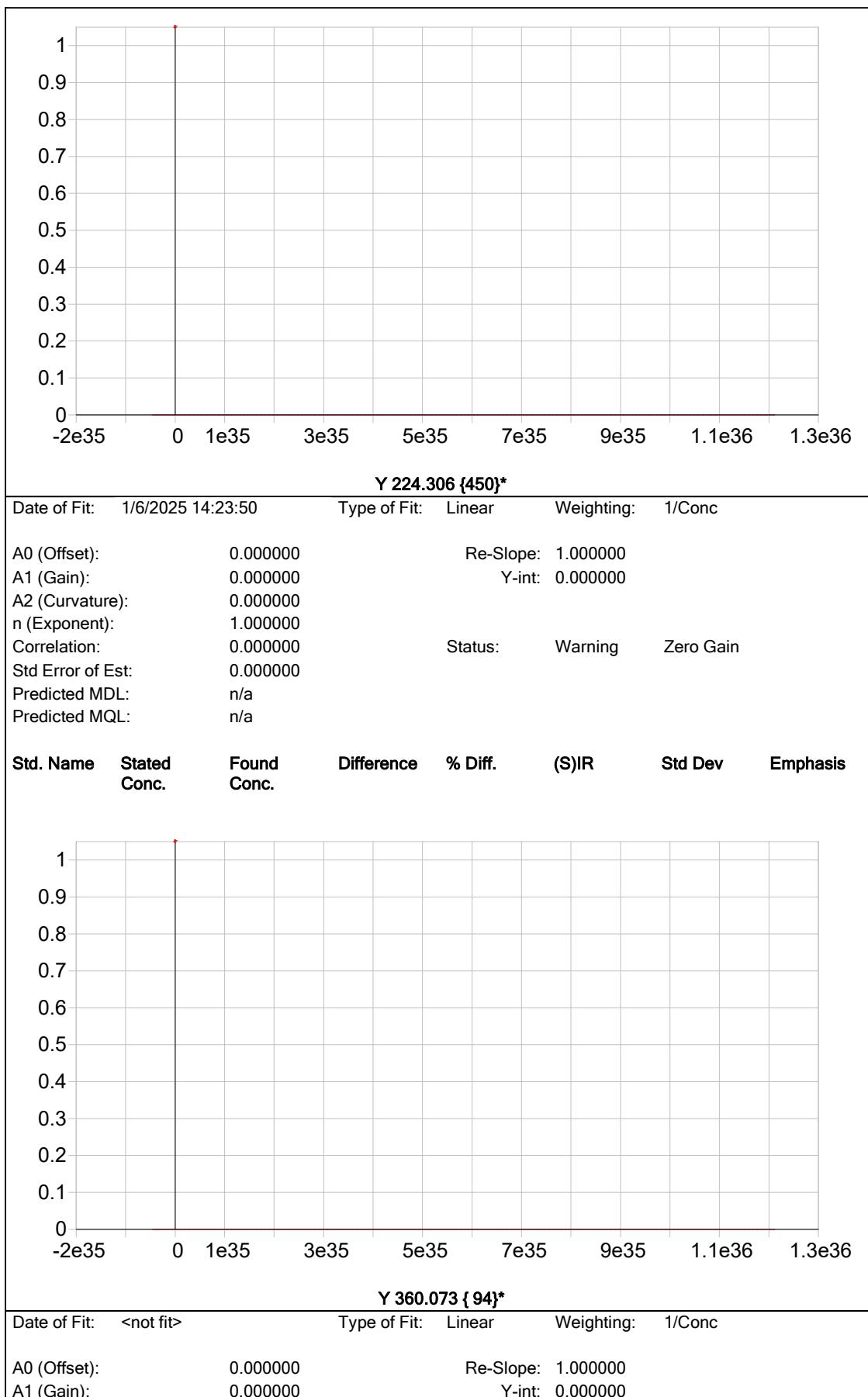


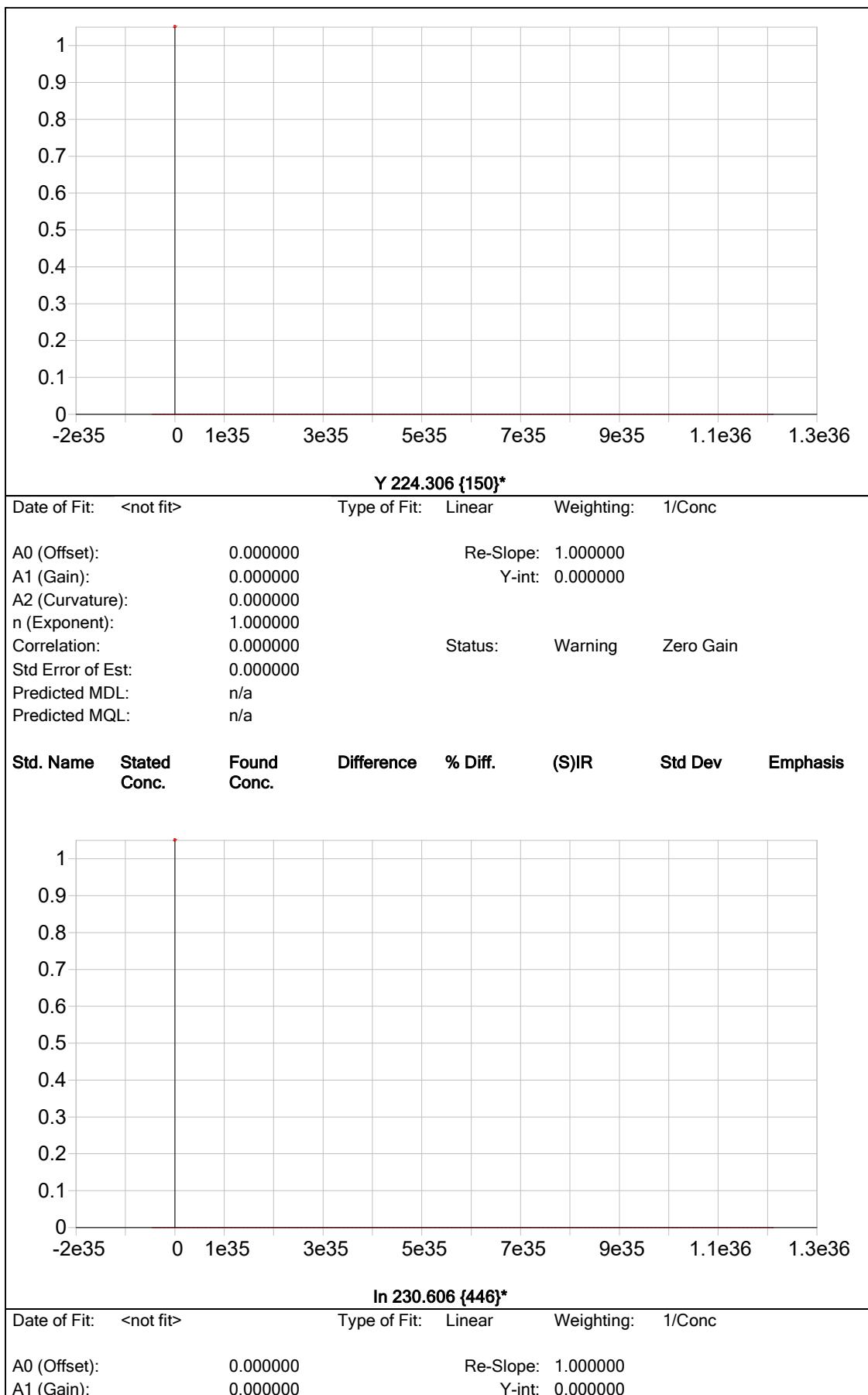












| A2 (Curvature): | 0.000000 | | | | | | |
|-------------------|--------------|-------------|------------|---------|-------|---------|----------|
| n (Exponent): | 1.000000 | | | | | | |
| Correlation: | 0.000000 | | | | | | |
| Std Error of Est: | 0.000000 | | | | | | |
| Predicted MDL: | n/a | | | | | | |
| Predicted MQL: | n/a | | | | | | |
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |

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Sample Name: S0 Acquired: 1/6/2025 12:34:48 Type: Cal
 Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|---------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | -0.00014 | -0.00016 | -0.00027 | .00047 | .00011 | .00002 | .02265 | -0.00013 |
| StdDev | .00002 | .00008 | .00003 | .00019 | .00012 | .00025 | .00112 | .00005 |
| %RSD | 17.320 | 49.287 | 12.206 | 39.744 | 103.89 | 1283.0 | 4.9343 | 70.004 |
| #1 | -0.00011 | -0.00007 | -0.00024 | .00029 | .00024 | .00024 | .02240 | -0.00024 |
| #2 | -0.00016 | -0.00022 | -0.00026 | .00066 | .00004 | .00007 | .02167 | -0.00007 |
| #3 | -0.00015 | -0.00018 | -0.00031 | .00046 | .00005 | -0.00025 | .02387 | -0.00010 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | -0.00022 | .00101 | .00002 | .00005 | .00002 | .00001 | .00074 | -0.00018 |
| StdDev | .00020 | .00033 | .00002 | .00011 | .00016 | .00002 | .00015 | .00003 |
| %RSD | 89.570 | 33.119 | 88.439 | 220.16 | 997.06 | 136.02 | 19.794 | 16.314 |
| #1 | -0.00038 | .00111 | .00003 | -0.00000 | .00013 | .00001 | .00091 | -0.00020 |
| #2 | -0.00027 | .00129 | .00000 | -0.00003 | -0.00017 | .00003 | .00063 | -0.00019 |
| #3 | -0.00000 | .00064 | .00003 | .00018 | .00009 | -0.00000 | .00068 | -0.00014 |
| #1 | -0.00035 | -0.00095 | .00203 | .00005 | .00357 | .00176 | .00135 | .00011 |
| #2 | -0.00028 | -0.00089 | .00196 | .00004 | .00342 | .00207 | .00140 | .00030 |
| #3 | -0.00019 | -0.00081 | .00222 | .00008 | .00440 | .00180 | .00119 | .00045 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | -0.00028 | -0.00088 | .00207 | .00005 | .00380 | .00188 | .00131 | .00029 |
| StdDev | .00008 | .00007 | .00013 | .00002 | .00052 | .00017 | .00011 | .00017 |
| %RSD | 29.518 | 8.0989 | 6.3171 | 39.089 | 13.817 | 8.7967 | 8.5470 | 59.153 |
| #1 | -0.00035 | -0.00095 | .00203 | .00005 | .00357 | .00176 | .00135 | .00011 |
| #2 | -0.00028 | -0.00089 | .00196 | .00004 | .00342 | .00207 | .00140 | .00030 |
| #3 | -0.00019 | -0.00081 | .00222 | .00008 | .00440 | .00180 | .00119 | .00045 |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | |
| Avg | .00027 | .00224 | .00019 | -.00123 | .00032 | .00074 | -.00079 | |
| StdDev | .00003 | .00017 | .00000 | .00006 | .00006 | .00090 | .00033 | |
| %RSD | 9.3717 | 7.6760 | 1.4162 | 4.8517 | 17.115 | 121.09 | 41.274 | |
| #1 | .00028 | .00215 | .00019 | -.00116 | .00026 | .00143 | -.00115 | |
| #2 | .00029 | .00213 | .00019 | -.00123 | .00037 | .00106 | -.00072 | |
| #3 | .00024 | .00244 | .00019 | -.00128 | .00033 | -.00027 | -.00050 | |

Sample Name: S0 Acquired: 1/6/2025 12:34:48 Type: Cal
Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2903.3 | 65011. | 12595. | 2134.5 | 4440.5 |
| Stddev | 20.8 | 432. | 72. | 21.0 | 29.7 |
| %RSD | .71801 | .66453 | .57010 | .98546 | .66790 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2927.3 | 65088. | 12671. | 2129.6 | 4474.1 |
| #2 | 2892.4 | 64545. | 12528. | 2116.3 | 4429.0 |
| #3 | 2890.1 | 65399. | 12586. | 2157.5 | 4418.2 |

Sample Name: S1 Acquired: 1/6/2025 12:39:09 Type: Cal
 Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00110 | .00250 | .00244 | .00210 | .01052 | .00748 | .29192 | .02220 |
| StdDev | .00008 | .00006 | .00008 | .00010 | .00017 | .00023 | .00097 | .00025 |
| %RSD | 7.2693 | 2.3734 | 3.4109 | 4.6015 | 1.6204 | 3.1333 | .33254 | .96036 |
| #1 | .00106 | .00243 | .00240 | .00200 | .01068 | .00769 | .29303 | .02197 |
| #2 | .00105 | .00254 | .00253 | .00219 | .01034 | .00752 | .29154 | .02234 |
| #3 | .00119 | .00252 | .00238 | .00211 | .01054 | .00722 | .29121 | .02229 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .01196 | .10300 | .00190 | .02428 | .01539 | .00050 | .01288 | .02937 |
| StdDev | .00011 | .00063 | .00008 | .00008 | .00039 | .00002 | .00017 | .00035 |
| %RSD | .89355 | .61274 | 4.3253 | .31415 | 2.5068 | 3.6321 | 1.2813 | 1.1860 |
| #1 | .01198 | .10316 | .00190 | .02419 | .01534 | .00052 | .01281 | .02898 |
| #2 | .01206 | .10354 | .00198 | .02429 | .01503 | .00049 | .01276 | .02965 |
| #3 | .01185 | .10230 | .00182 | .02434 | .01580 | .00050 | .01307 | .02948 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .02321 | .00119 | .03117 | .00459 | .13031 | .01416 | .03436 | .14194 |
| StdDev | .00026 | .00006 | .00022 | .00017 | .00078 | .00023 | .00005 | .00018 |
| %RSD | 1.1251 | 5.0206 | .69355 | 3.7132 | .60190 | 1.6111 | .15415 | .13032 |
| #1 | .02291 | .00125 | .03138 | .00471 | .13121 | .01435 | .03430 | .14173 |
| #2 | .02340 | .00119 | .03120 | .00440 | .12987 | .01423 | .03441 | .14205 |
| #3 | .02331 | .00113 | .03095 | .00467 | .12984 | .01391 | .03436 | .14205 |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | |
| Avg | .00496 | .02040 | .00205 | -.00046 | .00071 | .01753 | .23779 | |
| StdDev | .00014 | .00007 | .00001 | .00005 | .00008 | .00053 | .00074 | |
| %RSD | 2.7771 | .34055 | .40203 | 10.569 | 11.412 | 3.0445 | .31323 | |
| #1 | .00512 | .02045 | .00206 | -.00041 | .00070 | .01725 | .23849 | |
| #2 | .00486 | .02043 | .00205 | -.00047 | .00080 | .01720 | .23788 | |
| #3 | .00491 | .02032 | .00204 | -.00051 | .00064 | .01815 | .23701 | |

Sample Name: S1 Acquired: 1/6/2025 12:39:09 Type: Cal
Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2936.3 | 66077. | 12660. | 2159.5 | 4470.6 |
| Stddev | 7.0 | 391. | 17. | 4.6 | 9.4 |
| %RSD | .23919 | .59099 | .13107 | .21208 | .21011 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2944.0 | 65875. | 12672. | 2155.1 | 4481.4 |
| #2 | 2934.5 | 65828. | 12641. | 2164.3 | 4466.1 |
| #3 | 2930.3 | 66527. | 12668. | 2159.2 | 4464.3 |

Sample Name: S2 Acquired: 1/6/2025 12:43:28 Type: Cal
 Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .04575 | .05641 | .18511 | .06872 | .17126 | .11567 | 4.5413 | .16133 | 3 |
| StdDev | .00062 | .00038 | .00198 | .00080 | .00252 | .00122 | .0325 | .00149 | 4 |
| %RSD | 1.3630 | .67952 | 1.0713 | 1.1699 | 1.4690 | 1.0526 | .71542 | .92163 | 5 |
| #1 | .04549 | .05609 | .18488 | .06870 | .17071 | .11437 | 4.5213 | .15969 | 6 |
| #2 | .04529 | .05630 | .18325 | .06792 | .16907 | .11678 | 4.5788 | .16258 | 7 |
| #3 | .04646 | .05684 | .18720 | .06953 | .17401 | .11586 | 4.5237 | .16174 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | .83527 | .22202 | .03431 | .34126 | .14917 | .00416 | .25198 | .05715 | 11 |
| StdDev | .00847 | .00172 | .00028 | .00389 | .00226 | .00003 | .00200 | .00063 | 12 |
| %RSD | 1.0143 | .77361 | .82434 | 1.1413 | 1.5125 | .66880 | .79331 | 1.0960 | 13 |
| #1 | .83478 | .22096 | .03431 | .34115 | .14867 | .00414 | .25016 | .05661 | 14 |
| #2 | .82705 | .22400 | .03459 | .33742 | .14720 | .00419 | .25412 | .05784 | 15 |
| #3 | .84398 | .22111 | .03402 | .34521 | .15163 | .00415 | .25166 | .05701 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | .24696 | .04253 | .06258 | .04889 | 1.3605 | .02769 | .27365 | .59369 | |
| StdDev | .00258 | .00015 | .00042 | .00036 | .0047 | .00033 | .00174 | .00679 | |
| %RSD | 1.0467 | .34414 | .67460 | .73619 | .34811 | 1.1945 | .63634 | 1.1431 | |
| #1 | .24627 | .04257 | .06260 | .04848 | 1.3631 | .02765 | .27165 | .59296 | |
| #2 | .24480 | .04266 | .06298 | .04907 | 1.3633 | .02803 | .27482 | .58729 | |
| #3 | .24983 | .04237 | .06214 | .04913 | 1.3550 | .02737 | .27448 | .60081 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | .09921 | .38607 | .00461 | .02737 | .02095 | .69835 | 10.001 | | |
| StdDev | .00128 | .00346 | .00004 | .00022 | .00026 | .00621 | .077 | | |
| %RSD | 1.2868 | .89740 | .95834 | .80061 | 1.2633 | .88907 | .76731 | | |
| #1 | .09915 | .38352 | .00456 | .02742 | .02107 | .69372 | 9.9464 | | |
| #2 | .09796 | .39002 | .00465 | .02713 | .02065 | .70541 | 10.089 | | |
| #3 | .10051 | .38468 | .00463 | .02755 | .02114 | .69592 | 9.9682 | | |

Sample Name: S2 Acquired: 1/6/2025 12:43:28 Type: Cal
Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2925.6 | 64238. | 12462. | 2113.1 | 4423.2 |
| Stddev | 26.6 | 464. | 94. | 15.6 | 34.6 |
| %RSD | .90917 | .72276 | .75832 | .73774 | .78124 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2924.9 | 64400. | 12545. | 2106.9 | 4418.4 |
| #2 | 2952.5 | 63714. | 12359. | 2101.6 | 4459.9 |
| #3 | 2899.3 | 64599. | 12481. | 2130.9 | 4391.3 |

Sample Name: S3 Acquired: 1/6/2025 12:47:32 Type: Cal
 Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .14392 | .17688 | .57877 | .21449 | .53296 | .35893 | 14.221 | .49421 | 3 |
| StdDev | .00138 | .00133 | .00382 | .00162 | .00413 | .00304 | .133 | .00569 | 4 |
| %RSD | .96186 | .75376 | .65962 | .75688 | .77551 | .84698 | .93560 | 1.1515 | 5 |
| #1 | .14338 | .17535 | .57719 | .21350 | .53197 | .36048 | 14.339 | .49936 | 6 |
| #2 | .14289 | .17749 | .57600 | .21362 | .52942 | .36087 | 14.247 | .49518 | 7 |
| #3 | .14550 | .17781 | .58313 | .21637 | .53750 | .35542 | 14.077 | .48810 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | 2.6189 | .66162 | .10427 | 1.0667 | .45797 | .01238 | .77838 | .17918 | 11 |
| StdDev | .0162 | .00688 | .00033 | .0070 | .00324 | .00001 | .00740 | .00142 | 12 |
| %RSD | .61831 | 1.0399 | .31536 | .66050 | .70721 | .11050 | .95123 | .79301 | 13 |
| #1 | 2.6116 | .66664 | .10459 | 1.0645 | .45651 | .01238 | .78386 | .18012 | 14 |
| #2 | 2.6077 | .66443 | .10393 | 1.0610 | .45571 | .01236 | .78133 | .17987 | 15 |
| #3 | 2.6375 | .65377 | .10429 | 1.0746 | .46168 | .01239 | .76996 | .17754 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | .76814 | .13017 | .19324 | .15269 | 3.9995 | .08187 | .84330 | 1.8280 | |
| StdDev | .00497 | .00014 | .00098 | .00072 | .0163 | .00059 | .00885 | .0123 | |
| %RSD | .64700 | .11072 | .50590 | .47408 | .40731 | .71474 | 1.0497 | .67210 | |
| #1 | .76708 | .13033 | .19264 | .15317 | 4.0106 | .08138 | .84884 | 1.8226 | |
| #2 | .76379 | .13013 | .19272 | .15304 | 4.0070 | .08170 | .84797 | 1.8194 | |
| #3 | .77356 | .13006 | .19437 | .15185 | 3.9808 | .08252 | .83309 | 1.8421 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | .30745 | 1.1974 | .01399 | .08960 | .06666 | 2.1755 | 30.892 | | |
| StdDev | .00214 | .0088 | .00011 | .00043 | .00055 | .0135 | .260 | | |
| %RSD | .69560 | .73632 | .78531 | .48189 | .82911 | .62073 | .84075 | | |
| #1 | .30642 | 1.2035 | .01408 | .08925 | .06615 | 2.1783 | 31.181 | | |
| #2 | .30602 | 1.2013 | .01387 | .08947 | .06658 | 2.1874 | 30.818 | | |
| #3 | .30991 | 1.1873 | .01404 | .09009 | .06725 | 2.1609 | 30.678 | | |

Sample Name: S3 Acquired: 1/6/2025 12:47:32 Type: Cal
Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | ln2306 |
|-----------|--------|--------|--------|--------|--------|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2861.2 | 64585. | 12437. | 2081.9 | 4241.7 |
| Stddev | 15.9 | 184. | 137. | 6.5 | 22.6 |
| %RSD | .55602 | .28440 | 1.1026 | .31459 | .53285 |
| #1 | 2866.7 | 64490. | 12318. | 2076.0 | 4247.3 |
| #2 | 2873.6 | 64796. | 12406. | 2080.9 | 4260.9 |
| #3 | 2843.3 | 64467. | 12587. | 2088.9 | 4216.8 |

Sample Name: S4 Acquired: 1/6/2025 12:51:45 Type: Cal
 Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .27243 | .33217 | 1.0831 | .40571 | 1.0096 | .68726 | 27.040 | .92082 | 3 |
| StdDev | .00091 | .00194 | .0026 | .00089 | .0019 | .00532 | .219 | .00655 | 4 |
| %RSD | .33392 | .58491 | .23773 | .21980 | .18642 | .77387 | .80999 | .71113 | 5 |
| #1 | .27196 | .33134 | 1.0819 | .40624 | 1.0107 | .69228 | 26.926 | .92157 | 6 |
| #2 | .27185 | .33079 | 1.0813 | .40468 | 1.0075 | .68169 | 26.903 | .91393 | 7 |
| #3 | .27348 | .33439 | 1.0860 | .40622 | 1.0108 | .68781 | 27.293 | .92696 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | 4.9188 | 1.2439 | .18816 | 2.0004 | .85277 | .02258 | 1.4626 | .33928 | 11 |
| StdDev | .0063 | .0071 | .00303 | .0028 | .00101 | .00027 | .0073 | .00280 | 12 |
| %RSD | .12790 | .57287 | 1.6119 | .14051 | .11889 | 1.2148 | .49679 | .82574 | 13 |
| #1 | 4.9195 | 1.2490 | .19026 | 1.9994 | .85336 | .02285 | 1.4669 | .34152 | 14 |
| #2 | 4.9122 | 1.2357 | .18468 | 1.9983 | .85160 | .02230 | 1.4542 | .33614 | 15 |
| #3 | 4.9247 | 1.2470 | .18953 | 2.0036 | .85335 | .02260 | 1.4667 | .34018 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | 1.4368 | .23937 | .36202 | .29174 | 7.2768 | .14979 | 1.5978 | 3.4019 | |
| StdDev | .0011 | .00370 | .00548 | .00189 | .1141 | .00248 | .0146 | .0064 | |
| %RSD | .07463 | 1.5448 | 1.5128 | .64924 | 1.5674 | 1.6576 | .91117 | .18850 | |
| #1 | 1.4360 | .24143 | .36706 | .29351 | 7.3498 | .15206 | 1.5961 | 3.4032 | |
| #2 | 1.4365 | .23510 | .35619 | .28975 | 7.1454 | .14714 | 1.5842 | 3.3950 | |
| #3 | 1.4380 | .24158 | .36281 | .29195 | 7.3353 | .15018 | 1.6132 | 3.4076 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | .57588 | 2.2814 | .02596 | .17241 | .12861 | 4.1970 | 58.627 | | |
| StdDev | .00057 | .0151 | .00037 | .00028 | .00035 | .0281 | .137 | | |
| %RSD | .09829 | .66124 | 1.4087 | .16242 | .27303 | .66938 | .23435 | | |
| #1 | .57561 | 2.2933 | .02626 | .17240 | .12883 | 4.2233 | 58.598 | | |
| #2 | .57549 | 2.2645 | .02555 | .17213 | .12821 | 4.1674 | 58.507 | | |
| #3 | .57653 | 2.2865 | .02607 | .17269 | .12879 | 4.2004 | 58.777 | | |

Sample Name: S4 Acquired: 1/6/2025 12:51:45 Type: Cal
Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | | |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2809.2 | 65024. | 12149. | 2068.9 | 4109.1 |
| Stddev | 2.5 | 918. | 73. | 31.1 | 4.7 |
| %RSD | .08842 | 1.4118 | .59849 | 1.5010 | .11358 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2809.3 | 64388. | 12138. | 2043.5 | 4114.4 |
| #2 | 2811.7 | 66077. | 12227. | 2103.5 | 4107.4 |
| #3 | 2806.7 | 64608. | 12082. | 2059.8 | 4105.5 |

Sample Name: S5 Acquired: 1/6/2025 12:55:57 Type: Cal
 Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | 1 |
| UNITS | Cts/S | 2 |
| Avg | .57844 | .66771 | 2.2900 | .85647 | 2.1515 | 1.5202 | 59.942 | 1.9771 | 3 |
| StdDev | .00493 | .00474 | .0169 | .00543 | .0156 | .0054 | 1.017 | .0147 | 4 |
| %RSD | .85250 | .70978 | .73885 | .63408 | .72529 | .35646 | 1.6975 | .74579 | 5 |
| #1 | .57697 | .67176 | 2.2827 | .85611 | 2.1479 | 1.5216 | 60.601 | 1.9840 | 6 |
| #2 | .57441 | .66250 | 2.2779 | .85123 | 2.1381 | 1.5247 | 60.453 | 1.9871 | 7 |
| #3 | .58394 | .66888 | 2.3093 | .86207 | 2.1687 | 1.5142 | 58.770 | 1.9602 | 8 |
| ELEM | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | 9 |
| UNITS | Cts/S | 10 |
| Avg | 10.376 | 2.7120 | .39563 | 4.2667 | 1.7860 | .05018 | 3.2099 | .74167 | 11 |
| StdDev | .071 | .0090 | .00285 | .0301 | .0157 | .00018 | .0041 | .00408 | 12 |
| %RSD | .67954 | .33052 | .72074 | .70546 | .87654 | .36593 | .12887 | .54957 | 13 |
| #1 | 10.347 | 2.7194 | .39327 | 4.2536 | 1.7813 | .04998 | 3.2146 | .74583 | 14 |
| #2 | 10.324 | 2.7146 | .39880 | 4.2454 | 1.7732 | .05034 | 3.2082 | .74150 | 15 |
| #3 | 10.456 | 2.7020 | .39483 | 4.3012 | 1.8034 | .05024 | 3.2069 | .73768 | 16 |
| ELEM | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | 17 |
| UNITS | Cts/S | 18 |
| Avg | 3.0402 | .52118 | .83565 | .64015 | 15.770 | .33827 | 3.4691 | 7.1506 | |
| StdDev | .0223 | .00331 | .00657 | .00251 | .155 | .00292 | .0247 | .0504 | |
| %RSD | .73402 | .63452 | .78657 | .39146 | .98223 | .86269 | .71216 | .70532 | |
| #1 | 3.0317 | .51884 | .82806 | .64261 | 15.669 | .33490 | 3.4854 | 7.1307 | |
| #2 | 3.0233 | .52497 | .83918 | .64024 | 15.948 | .33997 | 3.4813 | 7.1132 | |
| #3 | 3.0655 | .51974 | .83970 | .63760 | 15.693 | .33993 | 3.4407 | 7.2080 | |
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 | | |
| UNITS | Cts/S | | |
| Avg | 1.2062 | 5.0465 | .05840 | .37280 | .27811 | 9.5248 | 127.14 | | |
| StdDev | .0092 | .0056 | .00042 | .00256 | .00199 | .0187 | 1.77 | | |
| %RSD | .76543 | .11066 | .72253 | .68596 | .71719 | .19576 | 1.3912 | | |
| #1 | 1.2034 | 5.0449 | .05792 | .37298 | .27821 | 9.5035 | 128.33 | | |
| #2 | 1.1988 | 5.0528 | .05864 | .37016 | .27606 | 9.5383 | 127.98 | | |
| #3 | 1.2166 | 5.0419 | .05866 | .37527 | .28005 | 9.5324 | 125.10 | | |

Sample Name: S5 Acquired: 1/6/2025 12:55:57 Type: Cal
Method: NON EPA-6010-200.7(v2578) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2709.6 | 61942. | 11720. | 1941.8 | 3910.7 |
| Stddev | 19.3 | 409. | 90. | 16.1 | 25.9 |
| %RSD | .71274 | .65968 | .76779 | .83091 | .66107 |

| | | | | | |
|----|--------|--------|--------|--------|--------|
| #1 | 2718.6 | 62163. | 11658. | 1953.9 | 3924.2 |
| #2 | 2722.7 | 61471. | 11678. | 1923.5 | 3927.0 |
| #3 | 2687.4 | 62193. | 11823. | 1947.9 | 3880.9 |

Sample Name: ICV01 Acquired: 1/6/2025 13:00:08 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|------------|------------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | 1.027169 | 1.050884 | 1.007119 | 1.030827 | 1.009993 | 2.404752 | 3 |
| StdDev | .001727 | .009093 | .001445 | .006313 | .006104 | .038192 | 4 |
| %RSD | .1681491 | .8652336 | .1435048 | .6123769 | .6043205 | 1.588203 | 5 |
| #1 | 1.028886 | 1.060931 | 1.008615 | 1.028068 | 1.006221 | 2.360931 | 6 |
| #2 | 1.025432 | 1.043222 | 1.005731 | 1.026363 | 1.006722 | 2.422362 | 7 |
| #3 | 1.027189 | 1.048499 | 1.007011 | 1.038049 | 1.017034 | 2.430962 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .4797260 | .5011021 | .5051570 | 9.635141 | .5382424 | .5086059 | 11 |
| StdDev | .0070658 | .0079584 | .0001458 | .166321 | .0028626 | .0007514 | 12 |
| %RSD | 1.472873 | 1.588172 | .0288548 | 1.726192 | .5318420 | .1477385 | 13 |
| #1 | .4715984 | .4921317 | .5051231 | 9.448274 | .5407907 | .5093861 | 14 |
| #2 | .4844078 | .5038597 | .5050312 | 9.690189 | .5387915 | .5078870 | 15 |
| #3 | .4831718 | .5073148 | .5053168 | 9.766959 | .5351451 | .5085446 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .5218707 | 10.05616 | .4916020 | 5.682967 | .5122219 | .2586308 | |
| StdDev | .0013346 | .07004 | .0073621 | .111215 | .0004970 | .0013660 | |
| %RSD | .2557360 | .6965278 | 1.497573 | 1.956993 | .0970205 | .5281734 | |
| #1 | .5211667 | 10.08582 | .4832133 | 5.561420 | .5120723 | .2601125 | |
| #2 | .5210355 | 10.10649 | .4946037 | 5.707841 | .5118170 | .2583584 | |
| #3 | .5234099 | 9.97617 | .4969890 | 5.779638 | .5127765 | .2574215 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 9.497262 | .4853320 | 1.026794 | 9.766036 | F -.012649 | F .0000723 | |
| StdDev | .093985 | .0066701 | .007213 | .093295 | .000666 | .0003218 | |
| %RSD | .9896014 | 1.374349 | .7024321 | .9552968 | 5.261511 | 445.0973 | |
| #1 | 9.570566 | .4784542 | 1.034188 | 9.824040 | -.011946 | .0004387 | |
| #2 | 9.529915 | .4857687 | 1.026416 | 9.815651 | -.012734 | -.000058 | |
| #3 | 9.391306 | .4917731 | 1.019778 | 9.658418 | -.013269 | -.000164 | |

Sample Name: ICV01 Acquired: 1/6/2025 13:00:08 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | F -.001680 | F -.000070 | F -.006820 | F .0053265 | F -.003452 | F -.000797 | 5 |
| Stddev | .000544 | .000465 | .001066 | .0022709 | .006380 | .000627 | 6 |
| %RSD | 32.40807 | 660.5379 | 15.63221 | 42.63369 | 184.8201 | 78.65136 | 7 |
| #1 | -.001346 | .000466 | -.006843 | .0077118 | -.009618 | -.001473 | 8 |
| #2 | -.002308 | -.000345 | -.007875 | .0050771 | .003122 | -.000235 | 9 |
| #3 | -.001386 | -.000333 | -.005743 | .0031906 | -.003861 | -.000683 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | F -.008333 | | | | | | 13 |
| Stddev | .000090 | | | | | | 14 |
| %RSD | 1.078275 | | | | | | 15 |
| #1 | -.008236 | | | | | | 16 |
| #2 | -.008414 | | | | | | 17 |
| #3 | -.008348 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2894.709 | 64380.95 | 12848.61 | 2079.851 | 4403.633 | | |
| Stddev | 5.572 | 361.82 | 187.01 | 18.340 | 1.923 | | |
| %RSD | .1924982 | .5619927 | 1.455522 | .8817869 | .0436604 | | |
| #1 | 2899.670 | 63994.01 | 13056.67 | 2061.988 | 4405.376 | | |
| #2 | 2895.775 | 64437.97 | 12794.62 | 2078.931 | 4401.571 | | |
| #3 | 2888.680 | 64710.87 | 12694.52 | 2098.633 | 4403.953 | | |

Sample Name: LLICV01 Acquired: 1/6/2025 13:13:14 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0225366 | .0393838 | .0125846 | .0172550 | .0505562 | .0958249 | .0910276 |
| StdDev | .0012162 | .0004707 | .0003903 | .0011365 | .0016737 | .0047979 | .0003536 |
| %RSD | 5.396711 | 1.195069 | 3.101324 | 6.586436 | 3.310484 | 5.006959 | .3883956 |
| #1 | .0212337 | .0394916 | .0127597 | .0185639 | .0516516 | .0948066 | .0906245 |
| #2 | .0236419 | .0397911 | .0128567 | .0165179 | .0486297 | .0916179 | .0911731 |
| #3 | .0227342 | .0388685 | .0121374 | .0166834 | .0513874 | .1010502 | .0912852 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0057677 | .0059573 | 1.907347 | .0097235 | .0288795 | .0216076 | .1056422 |
| StdDev | .0000761 | .0000535 | .003792 | .0002394 | .0000567 | .0003106 | .0050212 |
| %RSD | 1.318800 | .8984318 | .1988214 | 2.462423 | .1963460 | 1.437544 | 4.753031 |
| #1 | .0056799 | .0059210 | 1.903006 | .0097712 | .0288147 | .0213960 | .0999358 |
| #2 | .0058115 | .0060188 | 1.909022 | .0099355 | .0289041 | .0219642 | .1076067 |
| #3 | .0058118 | .0059322 | 1.910014 | .0094638 | .0289198 | .0214627 | .1093841 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .0193910 | 2.027877 | .0389801 | .0098853 | 1.841077 | .0379881 | .0417956 |
| StdDev | .0002215 | .008643 | .0004012 | .0002412 | .009752 | .0005407 | .0002333 |
| %RSD | 1.142207 | .4262129 | 1.029323 | 2.439568 | .5297093 | 1.423339 | .5582680 |
| #1 | .0193585 | 2.032494 | .0391237 | .0100383 | 1.832648 | .0373669 | .0415827 |
| #2 | .0191876 | 2.033230 | .0385268 | .0096073 | 1.838824 | .0382447 | .0420451 |
| #3 | .0196270 | 2.017905 | .0392897 | .0100102 | 1.851759 | .0383527 | .0417592 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 1.904787 | .1032410 | .2022249 | .0387391 | .0369502 | .3509045 | .0207775 |
| StdDev | .033124 | .0011098 | .0010655 | .0002543 | .0002986 | .0049233 | .0023416 |
| %RSD | 1.738988 | 1.075008 | .5268684 | .6563804 | .8079727 | 1.403033 | 11.26999 |
| #1 | 1.902201 | .1027024 | .2021335 | .0389723 | .0370391 | .3559111 | .0232318 |
| #2 | 1.873032 | .1045174 | .2012082 | .0384680 | .0371941 | .3460689 | .0205332 |
| #3 | 1.939128 | .1025032 | .2033332 | .0387771 | .0366172 | .3507335 | .0185677 |

Sample Name: LLICV01 Acquired: 1/6/2025 13:13:14 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: LLICV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | | 1 |
| Units | ppm | ppm | ppm | | | | 2 |
| Avg | .0174711 | .0180440 | .0190005 | | | | 3 |
| Stddev | .0014549 | .0007958 | .0000603 | | | | 4 |
| %RSD | 8.327327 | 4.410286 | .3172808 | | | | 5 |

| | | | | | | | |
|----|----------|----------|----------|--|--|--|---|
| #1 | .0173243 | .0186153 | .0189398 | | | | 6 |
| #2 | .0160952 | .0171351 | .0190014 | | | | 7 |
| #3 | .0189938 | .0183818 | .0190603 | | | | 8 |

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|--|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 10 |
| Avg | 2900.846 | 65206.01 | 12739.45 | 2107.330 | 4461.420 | | 11 |
| Stddev | 9.869 | 236.01 | 34.88 | 10.261 | 9.314 | | 12 |
| %RSD | .3402059 | .3619480 | .2737851 | .4869268 | .2087753 | | 13 |
| #1 | 2895.896 | 64942.15 | 12731.59 | 2095.972 | 4455.394 | | 14 |
| #2 | 2912.210 | 65278.90 | 12709.17 | 2115.931 | 4472.148 | | 15 |
| #3 | 2894.432 | 65396.97 | 12777.59 | 2110.088 | 4456.717 | | 16 |

Sample Name: ICB01 Acquired: 1/6/2025 13:17:33 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | - .000432 | - .001119 | - .000216 | - .000478 | .0009178 | - .002295 | - .001856 |
| StdDev | .002797 | .000222 | .000245 | .000988 | .0006449 | .003933 | .000479 |
| %RSD | 647.3171 | 19.86748 | 113.2849 | 206.7088 | 70.26439 | 171.3860 | 25.80936 |
| #1 | - .000947 | - .000867 | - .000463 | - .000713 | .0016591 | .001862 | - .001344 |
| #2 | .002587 | - .001288 | - .000213 | .000606 | .0004866 | - .002790 | - .001931 |
| #3 | - .002936 | - .001201 | .000027 | - .001327 | .0006076 | - .005957 | - .002294 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | - .000012 | .0000891 | - .007442 | - .000120 | - .000081 | - .000569 | - .002643 |
| StdDev | .000031 | .0000734 | .003680 | .000129 | .000230 | .000219 | .001563 |
| %RSD | 261.1417 | 82.33923 | 49.44917 | 107.6856 | 282.6563 | 38.57090 | 59.12526 |
| #1 | .000003 | .0001085 | - .003207 | - .000055 | - .000215 | - .000789 | - .002289 |
| #2 | - .000047 | .0000080 | - .009857 | - .000269 | .000184 | - .000569 | - .004353 |
| #3 | .000008 | .0001508 | - .009262 | - .000036 | - .000214 | - .000350 | - .001288 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | - .001170 | .0004006 | .0000743 | - .000005 | - .026649 | - .000169 | - .000644 |
| StdDev | .000230 | .0104776 | .0003037 | .000167 | .024009 | .000868 | .000175 |
| %RSD | 19.66007 | 2615.480 | 408.6588 | 3084.326 | 90.09421 | 512.5381 | 27.19183 |
| #1 | - .001418 | - .001081 | .0002379 | .000156 | - .046441 | - .000526 | - .000463 |
| #2 | - .000964 | - .009258 | - .000276 | - .000177 | - .033566 | - .000802 | - .000813 |
| #3 | - .001128 | .011540 | .000261 | .000005 | .000059 | .000820 | - .000656 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | - .031361 | .0035019 | - .000169 | - .000886 | - .000276 | - .008579 | .0029872 |
| StdDev | .016930 | .0001943 | .000166 | .000289 | .000487 | .002836 | .0018798 |
| %RSD | 53.98378 | 5.547681 | 98.01957 | 32.60803 | 176.4971 | 33.06221 | 62.92938 |
| #1 | - .045616 | .0037262 | - .000240 | - .000740 | - .000601 | - .008980 | .0017522 |
| #2 | - .035820 | .0033921 | - .000288 | - .001218 | .000284 | - .005563 | .0020588 |
| #3 | - .012648 | .0033873 | .000020 | - .000698 | - .000510 | - .011193 | .0051506 |

Sample Name: ICB01 Acquired: 1/6/2025 13:17:33 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|-----------------|-----------------|-----------------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | -.004206 | -.001239 | .0000137 | | | 3 |
| Stddev | .002529 | .000784 | .0000459 | | | 4 |
| %RSD | 60.12740 | 63.33676 | 334.5652 | | | 5 |

| | | | | | | |
|----|-----------------|-----------------|-----------------|--|--|---|
| #1 | -.001730 | -.001669 | .0000278 | | | 6 |
| #2 | -.006784 | -.001714 | .0000509 | | | 7 |
| #3 | -.004103 | -.000333 | -.000038 | | | 8 |

| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2882.985 | 65650.30 | 12869.46 | 2101.198 | 4442.286 | 11 |
| Stddev | 2.948 | 1863.17 | 70.08 | 57.970 | 4.126 | 12 |
| %RSD | .1022677 | 2.838027 | .5445205 | 2.758880 | .0928847 | 13 |
| #1 | 2885.466 | 65719.92 | 12805.80 | 2106.426 | 4445.043 | 14 |
| #2 | 2879.726 | 67477.69 | 12944.55 | 2156.376 | 4444.273 | 15 |
| #3 | 2883.763 | 63753.30 | 12858.03 | 2040.791 | 4437.543 | 16 |

Sample Name: CRI01 Acquired: 1/6/2025 13:21:54 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0200804 | .0412573 | .0119780 | .0186311 | .0503214 | .0975536 | .0905870 |
| StdDev | .0010950 | .0009027 | .0010501 | .0007724 | .0014092 | .0026302 | .0009074 |
| %RSD | 5.452928 | 2.187980 | 8.767034 | 4.145876 | 2.800402 | 2.696117 | 1.001732 |
| #1 | .0213390 | .0402157 | .0125164 | .0193454 | .0507498 | .1004926 | .0916140 |
| #2 | .0195556 | .0418127 | .0107679 | .0187366 | .0487477 | .0967473 | .0898933 |
| #3 | .0193466 | .0417435 | .0126498 | .0178114 | .0514667 | .0954211 | .0902537 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0056558 | .0059435 | 1.917327 | .0098018 | .0289358 | .0216846 | .1030979 |
| StdDev | .0000156 | .0002202 | .009445 | .0003974 | .0007368 | .0006999 | .0024971 |
| %RSD | .2760058 | 3.705479 | .4926308 | 4.054068 | 2.546221 | 3.227864 | 2.422074 |
| #1 | .0056393 | .0059469 | 1.926899 | .0093486 | .0288617 | .0213776 | .1014186 |
| #2 | .0056577 | .0057216 | 1.908014 | .0099659 | .0282388 | .0211906 | .1059674 |
| #3 | .0056704 | .0061620 | 1.917068 | .0100908 | .0297068 | .0224856 | .1019076 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .0195641 | 2.030683 | .0390662 | .0102273 | 1.857642 | .0375590 | .0421304 |
| StdDev | .0002365 | .003783 | .0008573 | .0003955 | .017623 | .0013620 | .0005598 |
| %RSD | 1.208766 | .1863000 | 2.194484 | 3.867121 | .9486804 | 3.626174 | 1.328619 |
| #1 | .0197210 | 2.032155 | .0386477 | .0105630 | 1.864271 | .0384502 | .0420725 |
| #2 | .0196792 | 2.026385 | .0384986 | .0097913 | 1.837665 | .0359912 | .0427169 |
| #3 | .0192921 | 2.033508 | .0400524 | .0103276 | 1.870989 | .0382355 | .0416019 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 1.912991 | .1009461 | .2037527 | .0382958 | .0379267 | .3517092 | .0212939 |
| StdDev | .017748 | .0007382 | .0053355 | .0010027 | .0006694 | .0035654 | .0007409 |
| %RSD | .9277387 | .7312959 | 2.618608 | 2.618250 | 1.765009 | 1.013744 | 3.479269 |
| #1 | 1.896225 | .1014236 | .2019187 | .0372760 | .0386954 | .3553220 | .0211488 |
| #2 | 1.911167 | .1013189 | .1995760 | .0383310 | .0374724 | .3481931 | .0220966 |
| #3 | 1.931579 | .1000959 | .2097632 | .0392805 | .0376123 | .3516126 | .0206363 |

Sample Name: CRI01 Acquired: 1/6/2025 13:21:54 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CRI01 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .0187774 | .0171715 | .0190845 | |
| Stddev | .0042528 | .0003838 | .0000627 | |
| %RSD | 22.64841 | 2.235054 | .3284772 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .0145159 | .0167355 | .0191416 | |
| #2 | .0187949 | .0174582 | .0190945 | |
| #3 | .0230214 | .0173207 | .0190174 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2912.365 | 65196.92 | 12854.46 | 2106.998 | 4499.363 |
| Stddev | 67.227 | 11.62 | 27.59 | 6.991 | 103.165 |
| %RSD | 2.308320 | .0178239 | .2146322 | .3318074 | 2.292881 |
| #1 | 2940.033 | 65197.25 | 12841.94 | 2104.311 | 4538.681 |
| #2 | 2961.342 | 65208.37 | 12835.35 | 2114.934 | 4577.088 |
| #3 | 2835.719 | 65185.13 | 12886.09 | 2101.749 | 4382.321 |

Sample Name: ICSA01 Acquired: 1/6/2025 13:26:13 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|------------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0049405 | .0072590 | .0078212 | -.010507 | -.000653 | 239.5345 | 3 |
| StdDev | .0027004 | .0026769 | .0013684 | .003520 | .000516 | 1.8958 | 4 |
| %RSD | 54.65736 | 36.87630 | 17.49653 | 33.50558 | 79.03743 | .7914557 | 5 |
| #1 | .0072270 | .0097242 | .0093255 | -.006868 | -.001127 | 241.5793 | 6 |
| #2 | .0056333 | .0076413 | .0074879 | -.010758 | -.000104 | 239.1890 | 7 |
| #3 | .0019613 | .0044116 | .0066501 | -.013895 | -.000727 | 237.8352 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .0028639 | .0023760 | .0014831 | 227.4130 | .0578149 | .0015976 | 11 |
| StdDev | .0004385 | .0000142 | .0002723 | .9769 | .0005916 | .0002161 | 12 |
| %RSD | 15.30974 | .5990816 | 18.35773 | .4295833 | 1.023302 | 13.52742 | 13 |
| #1 | .0033375 | .0023668 | .0013146 | 228.5388 | .0578840 | .0018031 | 14 |
| #2 | .0024722 | .0023924 | .0013374 | 226.9113 | .0583689 | .0016176 | 15 |
| #3 | .0027820 | .0023688 | .0017972 | 226.7888 | .0571917 | .0013722 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0184388 | 101.0737 | .0015758 | 246.4652 | .0029395 | -.001090 | |
| StdDev | .0013419 | .4110 | .0002481 | 1.5504 | .0002051 | .001187 | |
| %RSD | 7.277463 | .4066567 | 15.74636 | .6290652 | 6.975922 | 108.9291 | |
| #1 | .0177410 | 100.7370 | .0013137 | 248.1971 | .0031739 | -.001435 | |
| #2 | .0175896 | 101.5318 | .0018071 | 245.9921 | .0028516 | -.002065 | |
| #3 | .0199858 | 100.9525 | .0016064 | 245.2065 | .0027930 | .000232 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | .0467898 | .0081731 | .0035985 | .1529149 | F -.223047 | -.000365 | |
| StdDev | .0125875 | .0002909 | .0003276 | .0099241 | .002784 | .000326 | |
| %RSD | 26.90226 | 3.559349 | 9.104727 | 6.489956 | 1.248175 | 89.18207 | |
| #1 | .0359325 | .0080754 | .0033826 | .1608538 | -.226193 | -.000125 | |
| #2 | .0438498 | .0085003 | .0039755 | .1417888 | -.220901 | -.000736 | |
| #3 | .0605871 | .0079437 | .0034374 | .1561023 | -.222048 | -.000235 | |

Sample Name: ICSA01 Acquired: 1/6/2025 13:26:13 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICSA01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 1 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .003341 | -.001658 | .0081992 | .0075598 | -.019785 | F -.037098 | 3 |
| Stddev | .000031 | .000374 | .0034961 | .0008195 | .003848 | .000770 | 4 |
| %RSD | .9345179 | 22.53563 | 42.63973 | 10.83971 | 19.45073 | 2.074548 | 5 |
| #1 | -.003329 | -.001280 | .0089411 | .0081236 | -.020894 | -.037896 | 6 |
| #2 | -.003317 | -.001666 | .0112649 | .0066198 | -.022957 | -.037037 | 7 |
| #3 | -.003376 | -.002027 | .0043917 | .0079362 | -.015504 | -.036361 | 8 |
| Elem | Sr4077 | | | | | | 9 |
| Units | ppm | | | | | | 10 |
| Avg | -.005240 | | | | | | 11 |
| Stddev | .000560 | | | | | | 12 |
| %RSD | 10.67904 | | | | | | 13 |
| #1 | -.004699 | | | | | | 14 |
| #2 | -.005816 | | | | | | 15 |
| #3 | -.005206 | | | | | | 16 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 17 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 18 |
| Avg | 2639.593 | 57128.07 | 12325.28 | 1863.868 | 3748.567 | | |
| Stddev | 23.269 | 205.12 | 97.98 | 7.161 | 24.043 | | |
| %RSD | .8815540 | .3590598 | .7949728 | .3842151 | .6413887 | | |
| #1 | 2655.872 | 57043.52 | 12212.15 | 1863.017 | 3764.244 | | |
| #2 | 2649.967 | 56978.74 | 12383.32 | 1857.171 | 3760.572 | | |
| #3 | 2612.941 | 57361.96 | 12380.37 | 1871.417 | 3720.886 | | |

Sample Name: ICSAB01 Acquired: 1/6/2025 13:34:42 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|------------|------------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .1117518 | .0951236 | .0574949 | .0391750 | .6112394 | 241.7370 | 3 |
| StdDev | .0016826 | .0007605 | .0018095 | .0000231 | .0022130 | 1.5066 | 4 |
| %RSD | 1.505659 | .7994594 | 3.147252 | .0590500 | .3620426 | .6232530 | 5 |
| #1 | .1110600 | .0958564 | .0585463 | .0391525 | .6096751 | 240.5248 | 6 |
| #2 | .1136700 | .0951760 | .0585330 | .0391987 | .6102716 | 243.4238 | 7 |
| #3 | .1105253 | .0943382 | .0554055 | .0391738 | .6137713 | 241.2625 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .4770593 | .4839695 | 1.002081 | 228.5515 | .5846417 | .5074456 | 11 |
| StdDev | .0026711 | .0008162 | .001625 | 1.7205 | .0158794 | .0004024 | 12 |
| %RSD | .5599023 | .1686552 | .1622049 | .7528008 | 2.716089 | .0792945 | 13 |
| #1 | .4745405 | .4830970 | 1.000609 | 226.6106 | .6029729 | .5075153 | 14 |
| #2 | .4798603 | .4840972 | 1.001808 | 229.8892 | .5758351 | .5070129 | 15 |
| #3 | .4767771 | .4847144 | 1.003826 | 229.1548 | .5751169 | .5078086 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .5029005 | 103.5535 | .4666030 | 247.3076 | 1.001326 | .2252578 | |
| StdDev | .0023185 | 2.2301 | .0032709 | 2.3479 | .002103 | .0052955 | |
| %RSD | .4610260 | 2.153532 | .7009929 | .9493799 | .2100554 | 2.350880 | |
| #1 | .5007022 | 106.0718 | .4628402 | 244.6750 | .999514 | .2313681 | |
| #2 | .5026764 | 102.7597 | .4687668 | 249.1848 | 1.000831 | .2219992 | |
| #3 | .5053230 | 101.8289 | .4682019 | 248.0630 | 1.003632 | .2224061 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | .0246080 | .4733310 | 1.083978 | .0398298 | F -.225130 | F -.000783 | |
| StdDev | .0022416 | .0035562 | .026896 | .0239282 | .005120 | .000179 | |
| %RSD | 9.109098 | .7513237 | 2.481272 | 60.07612 | 2.274318 | 22.80910 | |
| #1 | .0220263 | .4694776 | 1.114353 | .0144740 | -.219868 | -.000579 | |
| #2 | .0257380 | .4764866 | 1.074396 | .0620141 | -.230095 | -.000854 | |
| #3 | .0260596 | .4740287 | 1.063185 | .0430014 | -.225428 | -.000914 | |

Sample Name: ICSAB01 Acquired: 1/6/2025 13:34:42 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: ICSAB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | F -.003628 | F -.002664 | F .0036534 | F .0083639 | F -.015561 | F -.037566 | 5 |
| Stddev | .000591 | .000250 | .0057397 | .0038534 | .004487 | .000258 | 6 |
| %RSD | 16.29813 | 9.394131 | 157.1043 | 46.07153 | 28.83536 | .6874122 | 7 |
| #1 | -.003498 | -.002584 | .0049732 | .0074541 | -.016240 | -.037413 | 8 |
| #2 | -.004273 | -.002944 | .0086183 | .0125908 | -.010774 | -.037865 | 9 |
| #3 | -.003112 | -.002464 | -.002631 | .0050469 | -.019671 | -.037422 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | F -.006970 | | | | | | 13 |
| Stddev | .002586 | | | | | | 14 |
| %RSD | 37.10280 | | | | | | 15 |
| #1 | -.009946 | | | | | | 16 |
| #2 | -.005685 | | | | | | 17 |
| #3 | -.005278 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2594.344 | 56398.37 | 12466.88 | 1815.913 | 3702.559 | | |
| Stddev | 5.182 | 1325.91 | 59.47 | 44.560 | 10.687 | | |
| %RSD | .1997258 | 2.350965 | .4769929 | 2.453847 | .2886435 | | |
| #1 | 2596.525 | 54894.09 | 12533.88 | 1767.403 | 3709.427 | | |
| #2 | 2598.080 | 56903.75 | 12420.38 | 1825.315 | 3708.005 | | |
| #3 | 2588.429 | 57397.26 | 12446.38 | 1855.022 | 3690.246 | | |

Sample Name: CCV01 Acquired: 1/6/2025 13:43:07 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | 4.939658 | 5.095677 | 4.916353 | 4.950416 | 4.941113 | 9.678552 | 9.792174 |
| StdDev | .034359 | .044168 | .020731 | .034693 | .024358 | .024104 | .097480 |
| %RSD | .6955753 | .8667719 | .4216841 | .7008167 | .4929687 | .2490488 | .9954861 |
| #1 | 4.908620 | 5.059060 | 4.906898 | 4.914027 | 4.919378 | 9.705364 | 9.834830 |
| #2 | 4.933776 | 5.083240 | 4.902033 | 4.954101 | 4.936522 | 9.658675 | 9.861054 |
| #3 | 4.976578 | 5.144730 | 4.940126 | 4.983119 | 4.967441 | 9.671618 | 9.680637 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .2399834 | 2.468921 | 24.23366 | 1.008520 | 2.454920 | 1.242609 | 4.995342 |
| StdDev | .0009633 | .012427 | .06831 | .004106 | .012513 | .006412 | .001752 |
| %RSD | .4014069 | .5033267 | .2818691 | .4071604 | .5097004 | .5160029 | .0350667 |
| #1 | .2405637 | 2.460225 | 24.31209 | 1.011456 | 2.446727 | 1.236625 | 4.994343 |
| #2 | .2405150 | 2.463385 | 24.20160 | 1.010277 | 2.448710 | 1.241825 | 4.997365 |
| #3 | .2388714 | 2.483154 | 24.18727 | 1.003828 | 2.469323 | 1.249377 | 4.994319 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.411101 | 24.26011 | 2.462097 | 1.244317 | 24.79616 | 2.439403 | 2.487589 |
| StdDev | .008529 | .04631 | .011440 | .001132 | .07718 | .005926 | .007870 |
| %RSD | .3537315 | .1908927 | .4646461 | .0910128 | .3112581 | .2429120 | .3163586 |
| #1 | 2.417297 | 24.27434 | 2.454336 | 1.245623 | 24.87782 | 2.443974 | 2.495456 |
| #2 | 2.414632 | 24.20835 | 2.456720 | 1.243722 | 24.78624 | 2.441527 | 2.487593 |
| #3 | 2.401374 | 24.29764 | 2.475235 | 1.243606 | 24.72441 | 2.432708 | 2.479717 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 24.88378 | 4.805480 | 5.017853 | 4.951316 | 4.846944 | 5.026104 | 4.722855 |
| StdDev | .03100 | .023032 | .024744 | .020816 | .011275 | .000740 | .036558 |
| %RSD | .1245977 | .4792807 | .4931274 | .4204117 | .2326267 | .0147158 | .7740647 |
| #1 | 24.91315 | 4.817475 | 4.993835 | 4.938866 | 4.859459 | 5.026467 | 4.697416 |
| #2 | 24.85137 | 4.820037 | 5.016460 | 4.939734 | 4.843795 | 5.026593 | 4.706400 |
| #3 | 24.88683 | 4.778926 | 5.043264 | 4.975347 | 4.837578 | 5.025253 | 4.764748 |

Sample Name: CCV01 Acquired: 1/6/2025 13:43:07 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV01 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 4.819061 | 4.812310 | 4.894293 | |
| Stddev | .030285 | .015388 | .040244 | |
| %RSD | .6284360 | .3197700 | .8222654 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 4.797383 | 4.824926 | 4.940403 | |
| #2 | 4.806136 | 4.816840 | 4.866241 | |
| #3 | 4.853663 | 4.795166 | 4.876234 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2794.373 | 62960.73 | 12360.75 | 1994.057 | 4116.634 |
| Stddev | 14.236 | 115.17 | 47.00 | 6.933 | 22.485 |
| %RSD | .5094669 | .1829307 | .3802505 | .3476675 | .5462001 |
| #1 | 2805.717 | 62827.85 | 12317.94 | 1987.340 | 4129.207 |
| #2 | 2799.004 | 63031.86 | 12353.25 | 1993.644 | 4130.020 |
| #3 | 2778.397 | 63022.49 | 12411.05 | 2001.187 | 4090.675 |

Sample Name: CCB01 Acquired: 1/6/2025 13:53:14 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | -0.001157 | -0.001413 | -0.000299 | 0.0004238 | -0.000015 | -0.001441 | 0.0000599 |
| StdDev | .001951 | .001631 | .000099 | .0029695 | .000426 | .004388 | .0004363 |
| %RSD | 1240.209 | 115.4844 | 33.20169 | 700.6338 | 2895.825 | 304.6235 | 728.0028 |
| #1 | -0.002266 | -0.002964 | -0.000215 | 0.0013215 | 0.000199 | 0.003626 | -0.000404 |
| #2 | 0.001584 | 0.000289 | -0.000275 | -0.002891 | 0.000262 | -0.003992 | 0.000121 |
| #3 | 0.000210 | -0.001564 | -0.000409 | 0.002841 | -0.000506 | -0.003957 | 0.000463 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | 0.0000488 | 0.0000775 | 0.0130480 | 0.0000747 | -0.000121 | -0.000829 | -0.005998 |
| StdDev | .00000119 | .0001580 | .0117367 | .0001619 | .000035 | .000039 | .005876 |
| %RSD | 24.39128 | 203.9950 | 89.95030 | 216.8887 | 28.86773 | 4.700674 | 97.96685 |
| #1 | 0.0000611 | 0.0000689 | 0.0262318 | 0.0002598 | -0.000154 | -0.000852 | -0.002346 |
| #2 | 0.0000480 | 0.0002396 | 0.0037375 | 0.0000046 | -0.000125 | -0.000784 | -0.012776 |
| #3 | 0.0000373 | -0.000076 | 0.0091747 | -0.000040 | -0.000084 | -0.000850 | -0.002872 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -0.001344 | 0.0056947 | -0.000031 | -0.000562 | -0.005425 | 0.0007253 | 0.0002947 |
| StdDev | .000048 | .0090244 | .000234 | .000407 | .009726 | .0013838 | .0001636 |
| %RSD | 3.583094 | 158.4704 | 758.0639 | 72.44501 | 179.2673 | 190.8064 | 55.50947 |
| #1 | -0.001364 | 0.0160436 | 0.000189 | -0.001023 | 0.003495 | -0.000838 | 0.0004433 |
| #2 | -0.001289 | -0.000536 | -0.000004 | -0.000256 | -0.015794 | 0.001793 | 0.0003214 |
| #3 | -0.001378 | 0.001576 | -0.000277 | -0.000405 | -0.003977 | 0.001221 | 0.0001194 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | -0.042293 | 0.0042496 | -0.000048 | -0.000585 | 0.0002014 | -0.004123 | 0.0011428 |
| StdDev | .009964 | .0004243 | .000354 | .000085 | .0001678 | .003175 | .0016236 |
| %RSD | 23.55923 | 9.983445 | 739.5048 | 14.47834 | 83.32026 | 76.99581 | 142.0703 |
| #1 | -0.052912 | 0.0046827 | -0.000074 | -0.000652 | 0.0002301 | -0.004212 | 0.0026102 |
| #2 | -0.040818 | 0.0038348 | 0.000319 | -0.000490 | 0.0003530 | -0.000905 | -0.000601 |
| #3 | -0.033149 | 0.0042313 | -0.000388 | -0.000612 | 0.0000211 | -0.007253 | 0.001420 |

Sample Name: CCB01 Acquired: 1/6/2025 13:53:14 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB01 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.005242 | -.000900 | .0000276 | |
| Stddev | .001495 | .001283 | .0000138 | |
| %RSD | 28.51785 | 142.6270 | 50.08094 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.005171 | .000568 | .0000119 | |
| #2 | -.003784 | -.001807 | .0000328 | |
| #3 | -.006771 | -.001460 | .0000381 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2802.873 | 64154.53 | 12707.84 | 2084.807 | 4258.926 |
| Stddev | 93.128 | 204.67 | 43.58 | 4.935 | 150.685 |
| %RSD | 3.322584 | .3190198 | .3429028 | .2366950 | 3.538099 |
| #1 | 2865.449 | 63934.52 | 12676.00 | 2079.118 | 4352.373 |
| #2 | 2695.849 | 64339.27 | 12757.50 | 2087.388 | 4085.094 |
| #3 | 2847.320 | 64189.78 | 12690.02 | 2087.917 | 4339.313 |

Sample Name: P5398-01 Acquired: 1/6/2025 13:57:35 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .2986454 | -.011695 | .8756735 | -.061128 | -.000146 | 200.5088 | 3 |
| StdDev | .0008393 | .003895 | .0028950 | .003043 | .000550 | .7537 | 4 |
| %RSD | .2810449 | 33.30839 | .3306042 | 4.978331 | 375.7832 | .3759018 | 5 |
| #1 | .2979812 | -.008519 | .8785601 | -.062575 | .000161 | 200.7601 | 6 |
| #2 | .2995888 | -.016041 | .8727701 | -.063176 | .000181 | 199.6615 | 7 |
| #3 | .2983663 | -.010525 | .8756903 | -.057631 | -.000781 | 201.1048 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 1.196525 | .0208721 | .0365745 | 71.56446 | .4720564 | .2626885 | 11 |
| StdDev | .003559 | .0001847 | .0008131 | .17751 | .0003304 | .0007505 | 12 |
| %RSD | .2974789 | .8848732 | 2.223090 | .2480404 | .0699834 | .2857020 | 13 |
| #1 | 1.200157 | .0207921 | .0373684 | 71.74340 | .4720893 | .2630309 | 14 |
| #2 | 1.193043 | .0210834 | .0366115 | 71.56158 | .4717108 | .2618279 | 15 |
| #3 | 1.196374 | .0207410 | .0357435 | 71.38842 | .4723691 | .2632068 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .6647731 | 476.1010 | 8.797109 | 79.69803 | .4718992 | -.002915 | |
| StdDev | .0047265 | 3.1969 | .026292 | .24637 | .0020707 | .000598 | |
| %RSD | .7109901 | .6714783 | .2988686 | .3091266 | .4388001 | 20.52470 | |
| #1 | .6702272 | 473.6406 | 8.827386 | 79.91899 | .4735893 | -.002911 | |
| #2 | .6622171 | 474.9478 | 8.783894 | 79.74272 | .4695894 | -.003516 | |
| #3 | .6618750 | 479.7145 | 8.780046 | 79.43237 | .4725189 | -.002319 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 5.247903 | .7305196 | 2.359179 | 15.01456 | ^ ***** | -.000108 | |
| StdDev | .041388 | .0003599 | .005666 | .08090 | ----- | .000210 | |
| %RSD | .7886544 | .0492628 | .2401519 | .5387841 | ----- | 193.7289 | |
| #1 | 5.231335 | .7301045 | 2.355998 | 14.97121 | ^ ----- | .000133 | |
| #2 | 5.217367 | .7307096 | 2.365720 | 14.96458 | ^ ----- | -.000246 | |
| #3 | 5.295009 | .7307446 | 2.355818 | 15.10789 | ^ ----- | -.000212 | |

Sample Name: P5398-01 Acquired: 1/6/2025 13:57:35 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0076118 | 6.229482 | F 12.09420 | 7.782626 | 2.298835 | .2782037 | 5 |
| Stddev | .0010439 | .016668 | .05873 | .022349 | .008553 | .0010333 | 6 |
| %RSD | 13.71414 | .2675695 | .4856225 | .2871639 | .3720640 | .3714086 | 7 |
| #1 | .0082421 | 6.248517 | 12.03820 | 7.805729 | 2.300068 | .2793952 | 8 |
| #2 | .0064069 | 6.217495 | 12.08907 | 7.761116 | 2.289732 | .2775542 | 9 |
| #3 | .0081866 | 6.222435 | 12.15532 | 7.781035 | 2.306704 | .2776618 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | -.179474 | | | | | | 13 |
| Stddev | .003216 | | | | | | 14 |
| %RSD | 1.791966 | | | | | | 15 |
| #1 | -.176586 | | | | | | 16 |
| #2 | -.178896 | | | | | | 17 |
| #3 | -.182940 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 3447.505 | 77364.42 | 16387.38 | 2454.991 | 3851.635 | | |
| Stddev | 5.155 | 254.08 | 57.88 | 14.203 | 8.143 | | |
| %RSD | .1495296 | .3284199 | .3532271 | .5785411 | .2114066 | | |
| #1 | 3446.149 | 77645.02 | 16359.68 | 2470.612 | 3848.675 | | |
| #2 | 3453.203 | 77298.33 | 16348.55 | 2442.855 | 3860.844 | | |
| #3 | 3443.164 | 77149.92 | 16453.91 | 2451.505 | 3845.387 | | |

Sample Name: P5398-03 Acquired: 1/6/2025 14:01:56 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0782479 | -.016826 | .1510890 | -.052722 | -.000822 | 146.9769 | 3 |
| StdDev | .0011169 | .002250 | .0024860 | .001984 | .001091 | .8970 | 4 |
| %RSD | 1.427422 | 13.37301 | 1.645407 | 3.763313 | 132.7102 | .6102995 | 5 |
| #1 | .0769630 | -.014732 | .1485030 | -.051546 | -.002047 | 147.2036 | 6 |
| #2 | .0789861 | -.016540 | .1513026 | -.055012 | .000045 | 145.9883 | 7 |
| #3 | .0787948 | -.019205 | .1534613 | -.051606 | -.000464 | 147.7389 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .6301195 | .0140605 | .0303189 | 1160.858 | .4135006 | .1133507 | 11 |
| StdDev | .0023996 | .0001179 | .0007274 | 12.661 | .0010505 | .0001846 | 12 |
| %RSD | .3808138 | .8381374 | 2.399120 | 1.090694 | .2540430 | .1628610 | 13 |
| #1 | .6302847 | .0141543 | .0302413 | 1169.975 | .4125057 | .1134405 | 14 |
| #2 | .6276417 | .0139282 | .0296334 | 1146.401 | .4145990 | .1134732 | 15 |
| #3 | .6324323 | .0140990 | .0310820 | 1166.197 | .4133970 | .1131384 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2341671 | 333.6395 | 3.264912 | 76.38787 | .2589263 | -.000915 | |
| StdDev | .0014761 | 1.8827 | .022181 | .69696 | .0002426 | .000683 | |
| %RSD | .6303603 | .5642808 | .6793739 | .9123947 | .0937104 | 74.72374 | |
| #1 | .2330292 | 334.6520 | 3.275607 | 76.86742 | .2586616 | -.000182 | |
| #2 | .2336370 | 334.7992 | 3.239410 | 75.58838 | .2591381 | -.001027 | |
| #3 | .2358350 | 331.4672 | 3.279719 | 76.70779 | .2589790 | -.001535 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 10.41921 | .3678861 | .8664787 | 41.63799 | -.603575 | .0089934 | |
| StdDev | .10104 | .0031604 | .0008865 | .30226 | .011456 | .0003343 | |
| %RSD | .9697895 | .8590582 | .1023162 | .7259326 | 1.897994 | 3.716791 | |
| #1 | 10.34004 | .3675749 | .8674867 | 41.35352 | -.607975 | .0087224 | |
| #2 | 10.53302 | .3648929 | .8661295 | 41.95536 | -.590571 | .0093669 | |
| #3 | 10.38458 | .3711906 | .8658200 | 41.60508 | -.612178 | .0088909 | |

Sample Name: P5398-03 Acquired: 1/6/2025 14:01:56 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|------------|------------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .0405261 | 4.929001 | F 12.73634 | F 24.88240 | F 50.54922 | .0263457 | 3 |
| StdDev | .0019907 | .028883 | .06808 | .08641 | .21024 | .0025933 | 4 |
| %RSD | 4.912215 | .5859739 | .5345536 | .3472578 | .4159149 | 9.843289 | 5 |
| #1 | .0384231 | 4.940932 | 12.66543 | 24.95363 | 50.72577 | .0233876 | 6 |
| #2 | .0423814 | 4.896065 | 12.80118 | 24.78628 | 50.31664 | .0282278 | 7 |
| #3 | .0407739 | 4.950007 | 12.74242 | 24.90730 | 50.60526 | .0274216 | 8 |
| ELEM | Sr4077 | | | | | | 9 |
| UNITS | ppm | | | | | | 10 |
| Avg | 6.235151 | | | | | | 11 |
| StdDev | .079449 | | | | | | 12 |
| %RSD | 1.274217 | | | | | | 13 |
| #1 | 6.308960 | | | | | | 14 |
| #2 | 6.151062 | | | | | | 15 |
| #3 | 6.245432 | | | | | | 16 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 17 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 18 |
| Avg | 3131.723 | 70324.18 | 15868.50 | 2239.213 | 3239.222 | | |
| StdDev | 3.699 | 199.58 | 128.15 | 7.610 | 6.722 | | |
| %RSD | .1181241 | .2838030 | .8075779 | .3398393 | .2075081 | | |
| #1 | 3130.820 | 70515.18 | 15807.39 | 2246.410 | 3235.045 | | |
| #2 | 3135.790 | 70117.00 | 16015.77 | 2231.249 | 3246.976 | | |
| #3 | 3128.559 | 70340.35 | 15782.35 | 2239.981 | 3235.645 | | |

Sample Name: P5398-05 Acquired: 1/6/2025 14:06:25 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .005219 | .009977 | .0003779 | .0016747 | .0006923 | .3895792 | .3321341 | 3 |
| StdDev | .004231 | .002301 | .0003144 | .0016405 | .0018707 | .0033590 | .0009829 | 4 |
| %RSD | 81.07466 | 23.06818 | 83.19155 | 97.95803 | 270.2057 | .8622153 | .2959277 | 5 |
| #1 | -.010060 | -.007347 | .0007290 | .0035250 | -.001437 | .3921735 | .3331593 | 6 |
| #2 | -.002229 | -.011625 | .0002823 | .0011005 | .001443 | .3857850 | .3320429 | 7 |
| #3 | -.003367 | -.010957 | .0001224 | .0003985 | .002071 | .3907790 | .3311999 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | -.000189 | -.000029 | 205.2268 | .0345571 | -.000712 | .0011175 | .0117101 | 11 |
| StdDev | .000081 | .000192 | .7201 | .0002557 | .000046 | .0004117 | .0035585 | 12 |
| %RSD | 42.79935 | 654.7684 | .3509003 | .7399988 | 6.487875 | 36.83800 | 30.38816 | 13 |
| #1 | -.000104 | .000128 | 205.9792 | .0346926 | -.000761 | .0007472 | .0150771 | 14 |
| #2 | -.000198 | -.000243 | 205.1573 | .0347165 | -.000705 | .0015607 | .0120661 | 15 |
| #3 | -.000265 | .000028 | 204.5439 | .0342621 | -.000670 | .0010445 | .0079869 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.000355 | .0180896 | -.000519 | -.000885 | 360.8371 | .0013715 | .0118026 | |
| StdDev | .000203 | .0100612 | .000566 | .000079 | 2.5293 | .0020743 | .0001155 | |
| %RSD | 57.12979 | 55.61850 | 109.0070 | 8.955112 | .7009468 | 151.2503 | .9783352 | |
| #1 | -.000223 | .0067048 | -.000598 | -.000795 | 358.0351 | .0007059 | .0116787 | |
| #2 | -.000253 | .0257863 | -.001041 | -.000946 | 361.5251 | .0036969 | .0119072 | |
| #3 | -.000588 | .0217778 | .000082 | -.000913 | 362.9513 | -.000288 | .0118217 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | 8.385635 | .0154113 | .0020754 | -.001809 | -.004370 | .3872895 | .0101782 | |
| StdDev | .053483 | .0006384 | .0001450 | .000521 | .000436 | .0090558 | .0027208 | |
| %RSD | .6377952 | 4.142405 | 6.986008 | 28.77027 | 9.971161 | 2.338241 | 26.73129 | |
| #1 | 8.357237 | .0159544 | .0021407 | -.002269 | -.004448 | .3774960 | .0074986 | |
| #2 | 8.352340 | .0147081 | .0019093 | -.001244 | -.003900 | .3890126 | .0100976 | |
| #3 | 8.447327 | .0155714 | .0021763 | -.001915 | -.004761 | .3953599 | .0129383 | |

Sample Name: P5398-05 Acquired: 1/6/2025 14:06:25 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 1.555213 | -.032081 | 2.159356 | | | 3 |
| Stddev | .004536 | .000338 | .022193 | | | 4 |
| %RSD | .2916366 | 1.053932 | 1.027763 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 1.560447 | -.032359 | 2.134329 | | | 6 |
| #2 | 1.552442 | -.031704 | 2.167096 | | | 7 |
| #3 | 1.552749 | -.032180 | 2.176642 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2550.113 | 57373.12 | 12429.39 | 1816.875 | 3723.032 | 11 |
| Stddev | 8.178 | 243.86 | 43.36 | 10.407 | 10.181 | 12 |
| %RSD | .3206887 | .4250443 | .3488222 | .5728161 | .2734468 | 13 |
| #1 | 2553.951 | 57496.63 | 12399.42 | 1822.865 | 3728.627 | 14 |
| #2 | 2555.667 | 57530.51 | 12409.65 | 1822.901 | 3729.188 | 15 |
| #3 | 2540.722 | 57092.21 | 12479.10 | 1804.857 | 3711.281 | 16 |

Sample Name: P5398-02 Acquired: 1/6/2025 14:11:01 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|-----------|-----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -0.002260 | -0.007571 | .0302292 | .0011555 | .0020497 | .0553181 | .1747228 |
| StdDev | .002323 | .001631 | .0013755 | .0003837 | .0002200 | .0013022 | .0002507 |
| %RSD | 102.8126 | 21.54221 | 4.550341 | 33.20680 | 10.73090 | 2.354067 | .1434683 |
| #1 | -0.001830 | -0.008237 | .0318095 | .0015863 | .0019975 | .0547750 | .1748520 |
| #2 | -0.004767 | -0.005713 | .0295771 | .0008506 | .0018606 | .0543753 | .1744338 |
| #3 | -0.000181 | -0.008764 | .0293009 | .0010295 | .0022911 | .0568040 | .1748824 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -0.000098 | .0012573 | 29.95629 | .0008390 | .0043933 | .0115128 | .0126026 |
| StdDev | .000008 | .0000568 | .09684 | .0004309 | .0001052 | .0002203 | .0046041 |
| %RSD | 7.790883 | 4.516241 | .3232688 | 51.35897 | 2.394285 | 1.913342 | 36.53262 |
| #1 | -0.000089 | .0013228 | 30.04494 | .0003782 | .0043079 | .0113971 | .0142800 |
| #2 | -0.00103 | .0012212 | 29.97099 | .0012320 | .0043611 | .0117668 | .0161328 |
| #3 | -0.00103 | .0012280 | 29.85294 | .0009068 | .0045108 | .0113745 | .0073950 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7041407 | 2.468859 | .0043012 | .0001778 | 315.1169 | -.000115 | .3025453 |
| StdDev | .0017908 | .029513 | .0002597 | .0006840 | 1.7903 | .000107 | .0008150 |
| %RSD | .2543225 | 1.195392 | 6.037418 | 384.7390 | .5681302 | 93.06306 | .2693788 |
| #1 | .7059197 | 2.494555 | .0041983 | -.000351 | 315.3227 | -.000069 | .3027310 |
| #2 | .7023383 | 2.475398 | .0041087 | -.000066 | 313.2326 | -.000238 | .3032514 |
| #3 | .7041640 | 2.436626 | .0045965 | .000950 | 316.7953 | -.000039 | .3016534 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.250795 | .0151034 | .0004772 | -.000194 | -.000203 | 1.770960 | .0134435 |
| StdDev | .020832 | .0007895 | .0001474 | .000263 | .000208 | .015619 | .0034886 |
| %RSD | 1.665489 | 5.227581 | 30.87889 | 135.7309 | 102.5604 | .8819549 | 25.95035 |
| #1 | 1.249870 | .0159299 | .0005810 | .000070 | -.000011 | 1.770526 | .0121603 |
| #2 | 1.272075 | .0143570 | .0005420 | -.000457 | -.000174 | 1.755562 | .0107782 |
| #3 | 1.230442 | .0150231 | .0003085 | -.000195 | -.000425 | 1.786792 | .0173920 |

Sample Name: P5398-02 Acquired: 1/6/2025 14:11:01 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .2447124 | -.007727 | .1444759 | | | 3 |
| Stddev | .0018096 | .000159 | .0009672 | | | 4 |
| %RSD | .7394763 | 2.053722 | .6694837 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .2455505 | -.007802 | .1452871 | | | 6 |
| #2 | .2426357 | -.007835 | .1434054 | | | 7 |
| #3 | .2459511 | -.007545 | .1447351 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2700.711 | 60067.99 | 12753.17 | 1916.600 | 3972.662 | 11 |
| Stddev | 7.451 | 9.69 | 44.05 | 3.592 | 8.456 | 12 |
| %RSD | .2759013 | .0161302 | .3453797 | .1873940 | .2128537 | 13 |

| | | | | | | |
|----|----------|----------|----------|----------|----------|----|
| #1 | 2699.417 | 60075.62 | 12750.25 | 1912.924 | 3975.988 | 14 |
| #2 | 2708.724 | 60057.09 | 12710.66 | 1916.776 | 3978.950 | 15 |
| #3 | 2693.991 | 60071.26 | 12798.61 | 1920.101 | 3963.049 | 16 |

Sample Name: CCV02 Acquired: 1/6/2025 14:15:26 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | 4.921489 | 5.089236 | 4.917950 | 4.929178 | 4.888692 | 9.626497 | 9.684633 |
| StdDev | .004368 | .028779 | .011459 | .003987 | .006734 | .011720 | .108947 |
| %RSD | .0887589 | .5654936 | .2330126 | .0808883 | .1377526 | .1217482 | 1.124944 |
| #1 | 4.924768 | 5.079329 | 4.928379 | 4.933769 | 4.895847 | 9.628297 | 9.699604 |
| #2 | 4.916530 | 5.121661 | 4.905683 | 4.926589 | 4.882478 | 9.637213 | 9.568975 |
| #3 | 4.923169 | 5.066720 | 4.919790 | 4.927175 | 4.887750 | 9.613981 | 9.785320 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .2423928 | 2.468748 | 24.19407 | 1.005501 | 2.452082 | 1.233205 | 4.935314 |
| StdDev | .0010272 | .004728 | .09991 | .002105 | .004339 | .001761 | .019227 |
| %RSD | .4237706 | .1915127 | .4129417 | .2092992 | .1769498 | .1428338 | .3895865 |
| #1 | .2421313 | 2.468389 | 24.17802 | 1.007842 | 2.454048 | 1.234480 | 4.942161 |
| #2 | .2415217 | 2.464210 | 24.10316 | 1.004898 | 2.447108 | 1.231195 | 4.950180 |
| #3 | .2435255 | 2.473645 | 24.30103 | 1.003764 | 2.455089 | 1.233940 | 4.913600 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.405926 | 24.27667 | 2.461770 | 1.227693 | 24.23641 | 2.428773 | 2.450333 |
| StdDev | .005223 | .17750 | .003055 | .004885 | .27101 | .005023 | .009138 |
| %RSD | .2170706 | .7311440 | .1240940 | .3978690 | 1.118186 | .2068151 | .3729132 |
| #1 | 2.402806 | 24.22171 | 2.464611 | 1.232111 | 24.37851 | 2.422974 | 2.457168 |
| #2 | 2.403017 | 24.13315 | 2.458539 | 1.228519 | 24.40681 | 2.431566 | 2.453877 |
| #3 | 2.411955 | 24.47515 | 2.462160 | 1.222448 | 23.92390 | 2.431779 | 2.439954 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 24.48819 | 4.784732 | 4.969062 | 4.954826 | 4.820963 | 4.920160 | 4.859174 |
| StdDev | .22335 | .029134 | .005435 | .004487 | .007208 | .017918 | .005075 |
| %RSD | .9120850 | .6088932 | .1093674 | .0905665 | .1495198 | .3641720 | .1044434 |
| #1 | 24.57475 | 4.777000 | 4.974053 | 4.955997 | 4.820664 | 4.919532 | 4.865027 |
| #2 | 24.65531 | 4.760244 | 4.963272 | 4.949869 | 4.828317 | 4.938383 | 4.856002 |
| #3 | 24.23452 | 4.816952 | 4.969859 | 4.958612 | 4.813909 | 4.902564 | 4.856492 |

Sample Name: CCV02 Acquired: 1/6/2025 14:15:26 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 4.842752 | 4.752384 | 4.867458 | | | 3 |
| Stddev | .011772 | .018576 | .038281 | | | 4 |
| %RSD | .2430879 | .3908772 | .7864729 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 4.853969 | 4.753531 | 4.826539 | | | 6 |
| #2 | 4.843794 | 4.770360 | 4.873437 | | | 7 |
| #3 | 4.830494 | 4.733261 | 4.902398 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2789.419 | 63084.54 | 12214.80 | 2013.356 | 4089.368 | 11 |
| Stddev | 2.715 | 118.73 | 63.66 | 4.420 | 2.067 | 12 |
| %RSD | .0973444 | .1882147 | .5211843 | .2195488 | .0505475 | 13 |
| #1 | 2786.577 | 63041.76 | 12239.26 | 2014.397 | 4088.212 | 14 |
| #2 | 2791.987 | 62993.13 | 12262.61 | 2008.508 | 4091.754 | 15 |
| #3 | 2789.693 | 63218.74 | 12142.54 | 2017.163 | 4088.137 | 16 |

Sample Name: CCB02 Acquired: 1/6/2025 14:19:38 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0004856 | .0014162 | .0001126 | -.001488 | .0008866 | .0015796 | .0012073 |
| StdDev | .0013094 | .0012140 | .0006217 | .000537 | .0002510 | .0031192 | .0004341 |
| %RSD | 269.6788 | 85.72203 | 552.3434 | 36.10115 | 28.30954 | 197.4631 | 35.95757 |
| #1 | -.000904 | .0026067 | .0001811 | -.001795 | .0010475 | .0012536 | .0015340 |
| #2 | .001696 | .0014619 | -.000541 | -.000867 | .0010150 | -.001364 | .0013733 |
| #3 | .000664 | .0001800 | .000697 | -.001800 | .0005974 | .004849 | .0007147 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000034 | .0000716 | -.008883 | -.000230 | .0000695 | -.000560 | -.002041 |
| StdDev | .0000604 | .0000742 | .004627 | .000356 | .0000617 | .000304 | .005365 |
| %RSD | 1795.943 | 103.6015 | 52.08152 | 154.7488 | 88.80974 | 54.36375 | 262.8760 |
| #1 | .0000209 | .0000391 | -.006987 | .000026 | .0000167 | -.000330 | -.007125 |
| #2 | .0000531 | .0001564 | -.014157 | -.000636 | .0000544 | -.000444 | .003567 |
| #3 | -.000064 | .0000192 | -.005506 | -.000080 | .0001374 | -.000905 | -.002565 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.001182 | -.000383 | -.000249 | -.000004 | .0471226 | -.001034 | -.000706 |
| StdDev | .000239 | .017369 | .000184 | .000168 | .0041380 | .001885 | .000066 |
| %RSD | 20.24228 | 4537.429 | 73.80206 | 3772.121 | 8.781290 | 182.2865 | 9.349744 |
| #1 | -.001033 | .019516 | -.000453 | .000188 | .0511762 | .001113 | -.000778 |
| #2 | -.001458 | -.012501 | -.000096 | -.000086 | .0429051 | -.002417 | -.000694 |
| #3 | -.001055 | -.008164 | -.000198 | -.000115 | .0472865 | -.001797 | -.000647 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .1297483 | .0064629 | .0002077 | -.000196 | .0001091 | -.004048 | .0021152 |
| StdDev | .0106409 | .0001047 | .0001365 | .000147 | .0004656 | .005974 | .0011076 |
| %RSD | 8.201205 | 1.619365 | 65.74234 | 74.92506 | 426.7808 | 147.5851 | 52.36487 |
| #1 | .1176786 | .0063796 | .0001758 | -.000031 | .0005829 | -.001706 | .0009807 |
| #2 | .1377759 | .0064286 | .0003573 | -.000311 | -.000348 | -.010839 | .0021710 |
| #3 | .1337903 | .0065803 | .0000899 | -.000247 | .000092 | .000400 | .0031939 |

Sample Name: CCB02 Acquired: 1/6/2025 14:19:38 Type: Unk
 Method: NON EPA-6010-200.7(v2578) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB02 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .002565 | .0007126 | .0000439 | | | 3 |
| Stddev | .000869 | .0005944 | .0000219 | | | 4 |
| %RSD | 33.87875 | 83.40437 | 49.88817 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | -.002948 | .0002457 | .0000430 | | | 6 |
| #2 | -.001570 | .0013817 | .0000225 | | | 7 |
| #3 | -.003176 | .0005105 | .0000663 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2845.494 | 66040.54 | 12400.83 | 2139.870 | 4304.800 | 11 |
| Stddev | 13.979 | 202.32 | 76.85 | 11.467 | 11.248 | 12 |
| %RSD | .4912663 | .3063526 | .6197325 | .5358537 | .2612942 | 13 |
| #1 | 2846.465 | 66106.59 | 12326.34 | 2127.672 | 4305.580 | 14 |
| #2 | 2858.962 | 66201.57 | 12396.29 | 2150.429 | 4315.638 | 15 |
| #3 | 2831.055 | 65813.45 | 12479.85 | 2141.507 | 4293.182 | 16 |

Sample Name: PB165946BL Acquired: 1/6/2025 14:23:47 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0012792 | -.000866 | .0005352 | -.001372 | .0010791 | -.001880 | .0011219 |
| StdDev | .0017738 | .000213 | .0001459 | .001786 | .0001439 | .005156 | .0002432 |
| %RSD | 138.6714 | 24.62374 | 27.26608 | 130.1157 | 13.33234 | 274.2598 | 21.67893 |
| #1 | -.000644 | -.001012 | .0004008 | .000156 | .0009149 | .004057 | .0008473 |
| #2 | .002852 | -.000965 | .0005145 | -.003335 | .0011827 | -.005235 | .0013101 |
| #3 | .001629 | -.000621 | .0006905 | -.000938 | .0011398 | -.004462 | .0012083 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000169 | .0000466 | -.004594 | -.000094 | -.000037 | -.000260 | -.004424 |
| StdDev | .0000567 | .0000087 | .002488 | .000167 | .000191 | .000440 | .000858 |
| %RSD | 336.5715 | 18.68591 | 54.16209 | 177.5150 | 511.9045 | 169.3620 | 19.39191 |
| #1 | .0000194 | .0000487 | -.006096 | -.000229 | -.000176 | .000166 | -.005348 |
| #2 | -.000041 | .0000540 | -.005963 | -.000145 | .000181 | -.000232 | -.003653 |
| #3 | .000072 | .0000370 | -.001722 | .000092 | -.000118 | -.000713 | -.004272 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.001347 | -.007020 | -.000016 | -.000365 | .0339173 | -.001170 | -.000784 |
| StdDev | .000222 | .005244 | .000261 | .000254 | .0036160 | .001506 | .000096 |
| %RSD | 16.45636 | 74.69870 | 1681.535 | 69.54580 | 10.66121 | 128.7134 | 12.23699 |
| #1 | -.001426 | -.007423 | .000258 | -.000570 | .0297420 | .000526 | -.000835 |
| #2 | -.001096 | -.001586 | -.000262 | -.000444 | .0359785 | -.002351 | -.000673 |
| #3 | -.001517 | -.012051 | -.000043 | -.000081 | .0360313 | -.001685 | -.000843 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .1506056 | .0033475 | -.000045 | -.000772 | .0001948 | -.001688 | .0012753 |
| StdDev | .0241222 | .0004340 | .000280 | .000725 | .0001931 | .004754 | .0022667 |
| %RSD | 16.01681 | 12.96514 | 627.9381 | 93.85271 | 99.10821 | 281.5899 | 177.7386 |
| #1 | .1242687 | .0038483 | -.000191 | -.000740 | .0004177 | .003251 | .0038911 |
| #2 | .1559220 | .0031130 | -.000222 | -.001512 | .0000797 | -.006232 | .0000464 |
| #3 | .1716262 | .0030813 | .000279 | -.000064 | .0000870 | -.002084 | -.000112 |

Sample Name: PB165946BL Acquired: 1/6/2025 14:23:47 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|--|--|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | -.004691 | -.000536 | .0000583 | | | 3 |
| Stddev | .000842 | .000442 | .0000231 | | | 4 |
| %RSD | 17.94874 | 82.33222 | 39.60971 | | | 5 |

| | | | | | | |
|----|--|--|--|--|--|---|
| #1 | -.005382 | -.000108 | .0000849 | | | 6 |
| #2 | -.003753 | -.000990 | .0000457 | | | 7 |
| #3 | -.004937 | -.000511 | .0000442 | | | 8 |

| | | | | | | |
|-----------|---|---|---|---|---|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2865.828 | 66056.00 | 12351.66 | 2126.802 | 4358.936 | 11 |
| Stddev | 10.742 | 194.71 | 55.87 | 6.229 | 22.759 | 12 |
| %RSD | .3748178 | .2947711 | .4523231 | .2928970 | .5221181 | 13 |
| #1 | 2869.890 | 65837.91 | 12412.95 | 2126.600 | 4360.887 | 14 |
| #2 | 2873.946 | 66117.68 | 12303.58 | 2120.675 | 4380.657 | 15 |
| #3 | 2853.648 | 66212.40 | 12338.43 | 2133.129 | 4335.265 | 16 |

Sample Name: PB165946BS Acquired: 1/6/2025 14:28:07 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7804293 | 1.994486 | .9672185 | 1.895381 | .7516682 | 1.882841 | 3 |
| StdDev | .0030861 | .016498 | .0019920 | .002125 | .0023177 | .006701 | 4 |
| %RSD | .3954354 | .8271867 | .2059480 | .1120957 | .3083398 | .3558803 | 5 |
| #1 | .7789675 | 1.994637 | .9695123 | 1.894006 | .7497830 | 1.875735 | 6 |
| #2 | .7839747 | 2.010909 | .9662192 | 1.894309 | .7542559 | 1.889045 | 7 |
| #3 | .7783457 | 1.977914 | .9659239 | 1.897828 | .7509659 | 1.883743 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1828351 | .2005396 | .1946978 | .9931593 | .4102521 | .1944066 | 11 |
| StdDev | .0008630 | .0008534 | .0008690 | .0074474 | .0007905 | .0003423 | 12 |
| %RSD | .4720222 | .4255435 | .4463449 | .7498735 | .1926866 | .1760580 | 13 |
| #1 | .1819620 | .2006178 | .1955296 | 1.001333 | .4094823 | .1946976 | 14 |
| #2 | .1836877 | .1996498 | .1947682 | .991385 | .4110618 | .1944927 | 15 |
| #3 | .1828555 | .2013512 | .1937958 | .986759 | .4102122 | .1940295 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2996008 | 2.893379 | .1928589 | 1.925027 | .4896581 | .0736098 | |
| StdDev | .0007687 | .015817 | .0004038 | .007015 | .0009501 | .0001546 | |
| %RSD | .2565780 | .5466759 | .2093674 | .3644083 | .1940331 | .2099735 | |
| #1 | .3004257 | 2.889210 | .1930968 | 1.922088 | .4905224 | .0736652 | |
| #2 | .2994720 | 2.910864 | .1930871 | 1.919959 | .4898111 | .0737289 | |
| #3 | .2989046 | 2.880064 | .1923927 | 1.933033 | .4886408 | .0734351 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.636989 | .2852061 | .2007444 | 9.148978 | .2840291 | .3955878 | |
| StdDev | .015825 | .0013269 | .0000362 | .076843 | .0007858 | .0010889 | |
| %RSD | .6001008 | .4652308 | .0180533 | .8399032 | .2766696 | .2752639 | |
| #1 | 2.623680 | .2838175 | .2007830 | 9.099445 | .2839776 | .3943792 | |
| #2 | 2.654487 | .2853398 | .2007110 | 9.237499 | .2832703 | .3964924 | |
| #3 | 2.632801 | .2864612 | .2007393 | 9.109989 | .2848394 | .3958917 | |

Sample Name: PB165946BS Acquired: 1/6/2025 14:28:07 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6764534 | .1865680 | F .7136045 | 5.526959 | F -.012303 | .1886499 | 5 |
| StdDev | .0022429 | .0003929 | .0140613 | .028366 | .003489 | .0018450 | 6 |
| %RSD | .3315718 | .2105797 | 1.970459 | .5132355 | 28.35727 | .9779951 | 7 |
| #1 | .6774060 | .1863879 | .7159982 | 5.531126 | -.008883 | .1871491 | 8 |
| #2 | .6780628 | .1870186 | .7263154 | 5.553012 | -.012168 | .1907098 | 9 |
| #3 | .6738914 | .1862975 | .6985001 | 5.496740 | -.015857 | .1880909 | 10 |
| ELEM | Sr4077 | | | | | | 11 |
| UNITS | ppm | | | | | | 12 |
| Avg | .1862400 | | | | | | 13 |
| StdDev | .0006406 | | | | | | 14 |
| %RSD | .3439700 | | | | | | 15 |
| #1 | .1856686 | | | | | | 16 |
| #2 | .1869326 | | | | | | 17 |
| #3 | .1861188 | | | | | | 18 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2900.494 | 64192.72 | 12095.17 | 2093.476 | 4395.958 | | |
| StdDev | 1.840 | 30.79 | 37.67 | 8.167 | 7.971 | | |
| %RSD | .0634296 | .0479686 | .3114610 | .3900958 | .1813334 | | |
| #1 | 2898.738 | 64190.75 | 12076.35 | 2091.142 | 4386.982 | | |
| #2 | 2902.407 | 64162.96 | 12138.55 | 2086.730 | 4398.680 | | |
| #3 | 2900.336 | 64224.45 | 12070.62 | 2102.555 | 4402.211 | | |

Sample Name: PB165887BL Acquired: 1/6/2025 14:32:08 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0000025 | -.000706 | .0004495 | -.001589 | .0004750 | -.003682 | .0012318 |
| StdDev | .0017236 | .002208 | .0007706 | .001034 | .0005599 | .005330 | .0007235 |
| %RSD | 69693.62 | 312.5897 | 171.4230 | 65.06425 | 117.8666 | 144.7448 | 58.73657 |
| #1 | -.001868 | -.000915 | .0009517 | -.002668 | .0000640 | -.008703 | .0020673 |
| #2 | .001526 | -.002803 | -.000438 | -.001489 | .0011127 | .001911 | .0008152 |
| #3 | .000350 | .001598 | .000835 | -.000608 | .0002483 | -.004256 | .0008130 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000229 | .0001201 | -.011114 | -.000048 | -.000105 | -.000552 | -.005395 |
| StdDev | .0000065 | .0000545 | .004637 | .000194 | .000199 | .000260 | .002732 |
| %RSD | 28.26630 | 45.41429 | 41.72074 | 404.1650 | 189.2242 | 47.11038 | 50.63512 |
| #1 | .0000155 | .0000802 | -.013363 | .000060 | -.000299 | -.000843 | -.007248 |
| #2 | .0000275 | .0001823 | -.014198 | -.000272 | .000098 | -.000471 | -.002258 |
| #3 | .0000256 | .0000978 | -.005782 | .000067 | -.000114 | -.000342 | -.006678 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.001196 | -.010478 | -.000097 | -.000271 | .0229021 | -.000842 | -.000705 |
| StdDev | .000339 | .003934 | .000296 | .000387 | .0055420 | .000504 | .000238 |
| %RSD | 28.38559 | 37.54384 | 304.7564 | 142.4792 | 24.19861 | 59.88783 | 33.75811 |
| #1 | -.001576 | -.008945 | -.000276 | -.000392 | .0168049 | -.001227 | -.000927 |
| #2 | -.000923 | -.007542 | .000244 | .000161 | .0242677 | -.000271 | -.000734 |
| #3 | -.001089 | -.014948 | -.000260 | -.000584 | .0276335 | -.001027 | -.000454 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0811590 | .0021604 | -.000085 | -.001152 | .0002845 | -.004565 | .0018630 |
| StdDev | .0238245 | .0006803 | .000120 | .000975 | .0001508 | .004314 | .0020104 |
| %RSD | 29.35541 | 31.49042 | 141.5637 | 84.63514 | 53.00073 | 94.51877 | 107.9101 |
| #1 | .0622543 | .0014520 | -.000111 | -.000321 | .0001141 | -.004924 | .0040431 |
| #2 | .1079193 | .0028086 | -.000189 | -.002226 | .0004008 | -.000082 | .0014638 |
| #3 | .0733033 | .0022206 | .000046 | -.000910 | .0003384 | -.008688 | .0000822 |

Sample Name: PB165887BL Acquired: 1/6/2025 14:32:08 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.004562 | .0002904 | .0000386 | |
| Stddev | .001535 | .0003334 | .0000438 | |
| %RSD | 33.65519 | 114.8157 | 113.4398 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.003394 | .0006747 | .0000782 | |
| #2 | -.006302 | .0000789 | -.000008 | |
| #3 | -.003992 | .0001175 | .000046 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2929.302 | 63969.19 | 12255.94 | 2101.933 | 4501.339 |
| Stddev | 6.911 | 226.75 | 71.00 | 4.567 | 3.586 |
| %RSD | .2359342 | .3544725 | .5792745 | .2172890 | .0796718 |
| #1 | 2926.955 | 64229.35 | 12218.23 | 2106.154 | 4503.371 |
| #2 | 2937.081 | 63813.51 | 12211.76 | 2102.561 | 4503.448 |
| #3 | 2923.870 | 63864.71 | 12337.83 | 2097.084 | 4497.198 |

Sample Name: PB165887BS Acquired: 1/6/2025 14:36:30 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7788831 | 2.002416 | .9731869 | 1.881958 | .7525929 | 1.883475 | 3 |
| StdDev | .0064423 | .018495 | .0054676 | .015546 | .0053281 | .005413 | 4 |
| %RSD | .8271201 | .9236189 | .5618280 | .8260281 | .7079637 | .2874091 | 5 |
| #1 | .7721561 | 1.984266 | .9686577 | 1.866068 | .7471300 | 1.887308 | 6 |
| #2 | .7794964 | 2.001745 | .9716422 | 1.882671 | .7528739 | 1.885834 | 7 |
| #3 | .7849968 | 2.021237 | .9792607 | 1.897135 | .7577750 | 1.877282 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1844753 | .2010847 | .1951920 | 1.003773 | .4134508 | .1953033 | 11 |
| StdDev | .0008285 | .0003952 | .0008827 | .007455 | .0007191 | .0008681 | 12 |
| %RSD | .4491077 | .1965504 | .4522024 | .7427312 | .1739227 | .4444921 | 13 |
| #1 | .1846125 | .2007787 | .1953423 | 1.008893 | .4142683 | .1952431 | 14 |
| #2 | .1852266 | .2015309 | .1942438 | 1.007206 | .4129163 | .1944668 | 15 |
| #3 | .1835867 | .2009445 | .1959899 | .995220 | .4131677 | .1961999 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .3004573 | 2.922049 | .1934462 | 1.961993 | .4920789 | .0742707 | |
| StdDev | .0013674 | .008887 | .0008927 | .015739 | .0017643 | .0005657 | |
| %RSD | .4551114 | .3041422 | .4614550 | .8021863 | .3585426 | .7616168 | |
| #1 | .2998675 | 2.919166 | .1938592 | 1.962981 | .4917665 | .0736964 | |
| #2 | .2994839 | 2.932020 | .1940575 | 1.977215 | .4904917 | .0748273 | |
| #3 | .3020207 | 2.914962 | .1924218 | 1.945784 | .4939786 | .0742885 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.665267 | .2863767 | .2022821 | 9.234247 | .2855184 | .4000871 | |
| StdDev | .015703 | .0038109 | .0001001 | .039305 | .0006365 | .0019833 | |
| %RSD | .5891850 | 1.330718 | .0495078 | .4256400 | .2229145 | .4957279 | |
| #1 | 2.675988 | .2826925 | .2023577 | 9.274940 | .2849927 | .3981314 | |
| #2 | 2.647242 | .2903027 | .2023200 | 9.196496 | .2862260 | .4000329 | |
| #3 | 2.672571 | .2861349 | .2021685 | 9.231306 | .2853366 | .4020970 | |

Sample Name: PB165887BS Acquired: 1/6/2025 14:36:30 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6789296 | .1873987 | F .7233393 | 5.453341 | F -.013286 | .1886977 | 5 |
| StdDev | .0016296 | .0005723 | .0082551 | .020509 | .001089 | .0012825 | 6 |
| %RSD | .2400245 | .3053940 | 1.141252 | .3760865 | 8.193061 | .6796741 | 7 |
| #1 | .6788850 | .1877960 | .7297797 | 5.435176 | -.012104 | .1872573 | 8 |
| #2 | .6773228 | .1867428 | .7140332 | 5.449264 | -.013506 | .1897160 | 9 |
| #3 | .6805811 | .1876574 | .7262050 | 5.475582 | -.014247 | .1891198 | 10 |
| ELEM | Sr4077 | | | | | | 11 |
| UNITS | ppm | | | | | | 12 |
| Avg | .1877929 | | | | | | 13 |
| StdDev | .0007619 | | | | | | 14 |
| %RSD | .4057352 | | | | | | 15 |
| #1 | .1885341 | | | | | | 16 |
| #2 | .1878329 | | | | | | 17 |
| #3 | .1870118 | | | | | | 18 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2925.257 | 64024.97 | 12149.76 | 2093.312 | 4454.741 | | |
| StdDev | 11.714 | 57.53 | 24.63 | 1.956 | 16.549 | | |
| %RSD | .4004413 | .0898501 | .2027200 | .0934399 | .3715010 | | |
| #1 | 2933.612 | 63982.95 | 12177.17 | 2095.532 | 4454.665 | | |
| #2 | 2930.293 | 64090.53 | 12129.49 | 2092.558 | 4471.328 | | |
| #3 | 2911.868 | 64001.42 | 12142.61 | 2091.845 | 4438.229 | | |

Sample Name: PB165940BL Acquired: 1/6/2025 14:40:29 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0016350 | .0004831 | .0002056 | -.000297 | .0020181 | .0020291 | .0006922 |
| StdDev | .0002519 | .0004924 | .0004496 | .001014 | .0001891 | .0016593 | .0003356 |
| %RSD | 15.40658 | 101.9137 | 218.6712 | 341.9140 | 9.368974 | 81.77293 | 48.48198 |
| #1 | .0013643 | .0010433 | .0001000 | .000539 | .0022013 | .0028948 | .0010498 |
| #2 | .0016783 | .0001189 | .0006986 | -.000005 | .0020292 | .0030766 | .0006426 |
| #3 | .0018625 | .0002872 | -.000182 | -.001424 | .0018237 | .0001160 | .0003842 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000033 | .0000613 | -.006963 | .0018105 | -.000059 | -.000698 | .0139581 |
| StdDev | .0000130 | .0000305 | .005735 | .0001828 | .000103 | .000359 | .0069744 |
| %RSD | 391.2180 | 49.79464 | 82.36543 | 10.09670 | 174.3202 | 51.37249 | 49.96685 |
| #1 | .0000082 | .0000588 | -.012785 | .0016869 | -.000077 | -.001089 | .0064272 |
| #2 | .0000132 | .0000321 | -.001318 | .0020205 | .000052 | -.000384 | .0201948 |
| #3 | -.000011 | .0000931 | -.006787 | .0017242 | -.000151 | -.000622 | .0152522 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.001097 | .0076205 | .0000152 | -.000421 | .0021433 | -.000523 | -.000689 |
| StdDev | .000394 | .0091426 | .0000505 | .000166 | .0066533 | .001008 | .000327 |
| %RSD | 35.91480 | 119.9748 | 332.2924 | 39.54145 | 310.4252 | 192.8672 | 47.40941 |
| #1 | -.001502 | .0130623 | -.000039 | -.000230 | -.004422 | .000624 | -.000330 |
| #2 | -.001073 | .0127339 | .000060 | -.000499 | .001971 | -.000924 | -.000768 |
| #3 | -.000716 | -.002935 | .000025 | -.000533 | .008881 | -.001268 | -.000970 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0627834 | .0016363 | -.000179 | -.001129 | .0004681 | -.004752 | .0030090 |
| StdDev | .0146151 | .0003750 | .000058 | .000531 | .0009313 | .006723 | .0001523 |
| %RSD | 23.27865 | 22.91789 | 32.14056 | 47.01465 | 198.9397 | 141.4926 | 5.062565 |
| #1 | .0459099 | .0020605 | -.000127 | -.001742 | .0015301 | .002848 | .0028331 |
| #2 | .0709608 | .0013489 | -.000241 | -.000814 | -.000210 | -.009923 | .0030956 |
| #3 | .0714793 | .0014995 | -.000170 | -.000832 | .000084 | -.007180 | .0030983 |

Sample Name: PB165940BL Acquired: 1/6/2025 14:40:29 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|-----------------|-----------------|-----------------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | -.001864 | -.001374 | -.000001 | | | 3 |
| Stddev | .001611 | .000129 | .000020 | | | 4 |
| %RSD | 86.46048 | 9.406951 | 1374.684 | | | 5 |

| | | | | | | |
|----|-----------------|-----------------|-----------------|--|--|---|
| #1 | -.002318 | -.001355 | .000010 | | | 6 |
| #2 | -.003200 | -.001256 | -.000025 | | | 7 |
| #3 | -.000074 | -.001512 | .000010 | | | 8 |

| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2890.258 | 64843.07 | 12319.31 | 2110.991 | 4423.151 | 11 |
| Stddev | 3.846 | 102.26 | 81.62 | 5.574 | 2.856 | 12 |
| %RSD | .1330539 | .1577017 | .6625419 | .2640541 | .0645624 | 13 |
| #1 | 2887.615 | 64733.22 | 12243.29 | 2114.630 | 4421.003 | 14 |
| #2 | 2888.490 | 64935.49 | 12405.57 | 2104.574 | 4426.392 | 15 |
| #3 | 2894.670 | 64860.52 | 12309.08 | 2113.769 | 4422.059 | 16 |

Sample Name: PB165940BS Acquired: 1/6/2025 14:44:50 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7650226 | 2.002717 | .9590585 | 1.855951 | .7477940 | 1.867891 | 3 |
| StdDev | .0055019 | .013358 | .0033989 | .009807 | .0050196 | .002942 | 4 |
| %RSD | .7191822 | .6669942 | .3543954 | .5284021 | .6712481 | .1575166 | 5 |
| #1 | .7614136 | 1.992468 | .9575669 | 1.852727 | .7471171 | 1.869833 | 6 |
| #2 | .7622991 | 1.997858 | .9566604 | 1.848162 | .7431471 | 1.869334 | 7 |
| #3 | .7713550 | 2.017824 | .9629481 | 1.866964 | .7531176 | 1.864506 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .1837136 | .1982086 | .1924232 | .9960294 | .4126556 | .1928087 | 11 |
| StdDev | .0002340 | .0011513 | .0007476 | .0075521 | .0014737 | .0006586 | 12 |
| %RSD | .1273566 | .5808745 | .3885226 | .7582231 | .3571336 | .3415597 | 13 |
| #1 | .1838630 | .1992267 | .1922457 | 1.004632 | .4143550 | .1926804 | 14 |
| #2 | .1838338 | .1984399 | .1917803 | .990491 | .4118828 | .1922238 | 15 |
| #3 | .1834439 | .1969591 | .1932436 | .992965 | .4117290 | .1935220 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .2971491 | 2.974507 | .1917254 | 1.922614 | .4847104 | .0751923 | |
| StdDev | .0021366 | .019995 | .0010770 | .024152 | .0019850 | .0003678 | |
| %RSD | .7190322 | .6722259 | .5617403 | 1.256215 | .4095200 | .4891077 | |
| #1 | .2959421 | 2.982673 | .1928749 | 1.927948 | .4843288 | .0748946 | |
| #2 | .2958893 | 2.989127 | .1915616 | 1.943653 | .4829440 | .0756034 | |
| #3 | .2996161 | 2.951721 | .1907397 | 1.896240 | .4868585 | .0750789 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 2.691303 | .2845312 | .2030097 | 9.371994 | .2788883 | .3987744 | |
| StdDev | .009094 | .0002143 | .0007406 | .045561 | .0021452 | .0020073 | |
| %RSD | .3379155 | .0753117 | .3647983 | .4861349 | .7692115 | .5033645 | |
| #1 | 2.701792 | .2844228 | .2037440 | 9.366026 | .2812004 | .3977484 | |
| #2 | 2.685611 | .2847781 | .2022630 | 9.329711 | .2785022 | .3974875 | |
| #3 | 2.686507 | .2843928 | .2030221 | 9.420244 | .2769624 | .4010873 | |

Sample Name: PB165940BS Acquired: 1/6/2025 14:44:50 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6725180 | .1874338 | F .7451748 | 5.351501 | F -.012882 | .1861459 | 5 |
| Stddev | .0021363 | .0015099 | .0026903 | .017653 | .003512 | .0005448 | 6 |
| %RSD | .3176542 | .8055537 | .3610287 | .3298781 | 27.25900 | .2926704 | 7 |
| #1 | .6725865 | .1890364 | .7480286 | 5.347410 | -.012773 | .1856461 | 8 |
| #2 | .6703483 | .1872271 | .7426851 | 5.336253 | -.016448 | .1860650 | 9 |
| #3 | .6746192 | .1860380 | .7448106 | 5.370841 | -.009427 | .1867266 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .1865965 | | | | | | 13 |
| Stddev | .0003686 | | | | | | 14 |
| %RSD | .1975406 | | | | | | 15 |
| #1 | .1870011 | | | | | | 16 |
| #2 | .1865086 | | | | | | 17 |
| #3 | .1862797 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2955.745 | 63236.54 | 12290.79 | 2087.486 | 4517.945 | | |
| Stddev | 12.920 | 108.86 | 50.26 | 5.546 | 15.946 | | |
| %RSD | .4371317 | .1721533 | .4089350 | .2656880 | .3529532 | | |
| #1 | 2962.921 | 63113.46 | 12244.95 | 2083.818 | 4523.942 | | |
| #2 | 2963.484 | 63275.95 | 12282.87 | 2093.866 | 4530.024 | | |
| #3 | 2940.829 | 63320.21 | 12344.54 | 2084.773 | 4499.870 | | |

Sample Name: PB165934TB Acquired: 1/6/2025 14:48:50 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|------------|-----------|-----------|-----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | -0.004679 | -0.008060 | -0.000840 | .0022373 | .0015825 | .0005990 | 3 |
| StdDev | .001949 | .001161 | .000733 | .0024303 | .0009729 | .0040996 | 4 |
| %RSD | 41.65594 | 14.39871 | 87.22650 | 108.6277 | 61.48177 | 684.3729 | 5 |
| #1 | -0.006351 | -0.007130 | -0.001046 | -0.000086 | .0007322 | .0053268 | 6 |
| #2 | -0.002538 | -0.009361 | -0.000026 | .004762 | .0026435 | -.001971 | 7 |
| #3 | -0.005149 | -0.007691 | -0.001448 | .002035 | .0013717 | -.001559 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | -.000800 | -0.000127 | .0000149 | -.004430 | .0008765 | -.000532 | 11 |
| StdDev | .000806 | .000091 | .0000943 | .002859 | .0005807 | .000124 | 12 |
| %RSD | 100.6665 | 71.12580 | 633.7020 | 64.52439 | 66.25470 | 23.39619 | 13 |
| #1 | -0.000224 | -.000099 | .0000808 | -.001278 | .0012285 | -.000463 | 14 |
| #2 | -0.001721 | -.000054 | .0000570 | -.005160 | .0011946 | -.000457 | 15 |
| #3 | -0.000457 | -.000229 | -.000093 | -.006853 | .0002062 | -.000676 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0005326 | .0009013 | .0000265 | .0049647 | .0003963 | -.000469 | |
| StdDev | .0003344 | .0023207 | .0000997 | .0106270 | .0002570 | .000445 | |
| %RSD | 62.79440 | 257.4650 | 376.8990 | 214.0528 | 64.83539 | 94.88126 | |
| #1 | .0001498 | .0030634 | .0000083 | -.006254 | .0006303 | -.000761 | |
| #2 | .0007680 | .0011913 | -.000063 | .014881 | .0001213 | -.000688 | |
| #3 | .0006798 | -.001551 | .000134 | .006267 | .0004373 | .000043 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | F 312.7644 | .0001424 | .0009534 | -.060444 | .0006777 | .0004616 | |
| StdDev | .7951 | .0002612 | .0001127 | .007229 | .0001822 | .0000681 | |
| %RSD | .2542270 | 183.4608 | 11.81814 | 11.95992 | 26.89132 | 14.74636 | |
| #1 | 312.2990 | .0003847 | .0010467 | -.064170 | .0007893 | .0005137 | |
| #2 | 313.6825 | -.000134 | .0009852 | -.052112 | .0007764 | .0004864 | |
| #3 | 312.3116 | .000177 | .0008282 | -.065050 | .0004674 | .0003846 | |

Sample Name: PB165934TB Acquired: 1/6/2025 14:48:50 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0011226 | -.000187 | .0072069 | .0097635 | .0130240 | -.003229 | 5 |
| Stddev | .0007229 | .000368 | .0047430 | .0022246 | .0019302 | .000275 | 6 |
| %RSD | 64.39198 | 196.9281 | 65.81196 | 22.78433 | 14.82005 | 8.516064 | 7 |
| #1 | .0013302 | -.000436 | .0043462 | .0122185 | .0117912 | -.003052 | 8 |
| #2 | .0017189 | -.000361 | .0045927 | .0091903 | .0120323 | -.003546 | 9 |
| #3 | .0003187 | .000236 | .0126817 | .0078816 | .0152484 | -.003090 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .0000309 | | | | | | 13 |
| Stddev | .0000324 | | | | | | 14 |
| %RSD | 104.6405 | | | | | | 15 |
| #1 | .0000051 | | | | | | 16 |
| #2 | .0000672 | | | | | | 17 |
| #3 | .0000204 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2654.535 | 58559.42 | 12243.21 | 1927.390 | 3874.861 | | |
| Stddev | 4.946 | 148.20 | 77.63 | 7.464 | 9.812 | | |
| %RSD | .1863183 | .2530793 | .6340738 | .3872676 | .2532282 | | |
| #1 | 2654.990 | 58388.34 | 12259.85 | 1920.618 | 3880.571 | | |
| #2 | 2659.238 | 58641.36 | 12311.18 | 1935.393 | 3880.480 | | |
| #3 | 2649.378 | 58648.56 | 12158.61 | 1926.159 | 3863.530 | | |

Sample Name: PB165858TB Acquired: 1/6/2025 14:53:20 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|------------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | -.004011 | -.006978 | -.000609 | .0043316 | .0017118 | .0048128 | 3 |
| StdDev | .000813 | .001133 | .000373 | .0024314 | .0008464 | .0043994 | 4 |
| %RSD | 20.27810 | 16.23070 | 61.23531 | 56.13102 | 49.44638 | 91.41062 | 5 |
| #1 | -.003656 | -.007448 | -.000415 | .0061347 | .0019969 | .0014133 | 6 |
| #2 | -.004942 | -.005686 | -.000372 | .0015664 | .0007596 | .0097817 | 7 |
| #3 | -.003437 | -.007800 | -.001038 | .0052937 | .0023788 | .0032435 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | .0014653 | -.000199 | .0000049 | -.005368 | .0007418 | -.000361 | 11 |
| StdDev | .0027848 | .000141 | .0001118 | .001015 | .0001389 | .000158 | 12 |
| %RSD | 190.0505 | 70.89497 | 2293.726 | 18.91621 | 18.73035 | 43.76707 | 13 |
| #1 | -.000799 | -.000136 | .0000658 | -.005169 | .0008424 | -.000182 | 14 |
| #2 | .004575 | -.000361 | .0000730 | -.004467 | .0005833 | -.000421 | 15 |
| #3 | .000620 | -.000101 | -.000124 | -.006469 | .0007996 | -.000480 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .0008165 | .0006119 | -.000028 | -.001925 | .0004284 | -.000497 | |
| StdDev | .0002577 | .0059078 | .000372 | .012895 | .0000879 | .000250 | |
| %RSD | 31.56140 | 965.4194 | 1312.495 | 669.8276 | 20.50901 | 50.33729 | |
| #1 | .0009451 | -.002599 | -.000106 | -.002349 | .0003285 | -.000300 | |
| #2 | .0005198 | .007430 | .000376 | -.014603 | .0004630 | -.000412 | |
| #3 | .0009846 | -.002995 | -.000356 | .011176 | .0004937 | -.000778 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | F 310.9641 | -.000564 | .0008148 | -.076189 | .0002304 | .0006224 | |
| StdDev | 6.0473 | .001726 | .0000994 | .029264 | .0014698 | .0001942 | |
| %RSD | 1.944679 | 305.8093 | 12.19853 | 38.40979 | 638.0724 | 31.20356 | |
| #1 | 317.3884 | -.001046 | .0009156 | -.108005 | -.000037 | .0008333 | |
| #2 | 310.1219 | .001351 | .0007169 | -.070136 | .001815 | .0005830 | |
| #3 | 305.3822 | -.001999 | .0008119 | -.050424 | -.001088 | .0004509 | |

Sample Name: PB165858TB Acquired: 1/6/2025 14:53:20 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|-----------|----------|----------|----------|----------|------------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0011160 | .0000142 | .0063932 | .0098630 | F .0147822 | -.004129 | 5 |
| Stddev | .0008065 | .0005450 | .0065350 | .0028399 | .0033987 | .000248 | 6 |
| %RSD | 72.26753 | 3850.546 | 102.2173 | 28.79340 | 22.99199 | 6.015926 | 7 |
| #1 | .0020078 | -.000344 | .0115751 | .0066804 | .0171560 | -.003977 | 8 |
| #2 | .0009026 | .000641 | .0085527 | .0107699 | .0163018 | -.004415 | 9 |
| #3 | .0004377 | -.000254 | -.000948 | .0121387 | .0108888 | -.003994 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | .0000373 | | | | | | 13 |
| Stddev | .0000174 | | | | | | 14 |
| %RSD | 46.79321 | | | | | | 15 |
| #1 | .0000172 | | | | | | 16 |
| #2 | .0000489 | | | | | | 17 |
| #3 | .0000457 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 2715.133 | 59785.94 | 11336.95 | 1937.574 | 3990.473 | | |
| Stddev | 7.822 | 135.64 | 2084.40 | 16.881 | 13.416 | | |
| %RSD | .2880949 | .2268828 | 18.38588 | .8712533 | .3361949 | | |
| #1 | 2716.418 | 59636.39 | 12454.62 | 1918.402 | 3999.926 | | |
| #2 | 2722.233 | 59820.40 | 8932.09 | 1950.209 | 3996.374 | | |
| #3 | 2706.748 | 59901.03 | 12624.15 | 1944.110 | 3975.118 | | |

Sample Name: P5398-01DUP Acquired: 1/6/2025 14:57:48 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .3020719 | -.013216 | .8856023 | -.106600 | .0009365 | 199.4367 | 3 |
| StdDev | .0026161 | .003094 | .0039966 | .001518 | .0022976 | 1.3357 | 4 |
| %RSD | .8660674 | 23.41425 | .4512818 | 1.424082 | 245.3316 | .6697493 | 5 |
| #1 | .2991344 | -.016683 | .8815285 | -.107527 | -.000096 | 200.1206 | 6 |
| #2 | .3029302 | -.012231 | .8857614 | -.104848 | -.000664 | 197.8976 | 7 |
| #3 | .3041511 | -.010734 | .8895169 | -.107425 | .003569 | 200.2921 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 1.175115 | .0215492 | .0345610 | 72.65605 | .4825543 | .2649718 | 11 |
| StdDev | .002892 | .0003518 | .0005917 | .26188 | .0013691 | .0001438 | 12 |
| %RSD | .2461120 | 1.632703 | 1.712040 | .3604428 | .2837225 | .0542705 | 13 |
| #1 | 1.174212 | .0214790 | .0340296 | 72.72800 | .4836350 | .2649994 | 14 |
| #2 | 1.172782 | .0212378 | .0344547 | 72.36572 | .4830131 | .2648162 | 15 |
| #3 | 1.178351 | .0219308 | .0351986 | 72.87444 | .4810147 | .2650998 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .6643329 | 480.1073 | 8.883486 | 81.31554 | .4776553 | -.001977 | |
| StdDev | .0033265 | 2.2528 | .032635 | .45578 | .0014644 | .000140 | |
| %RSD | .5007306 | .4692360 | .3673618 | .5605085 | .3065902 | 7.104045 | |
| #1 | .6623967 | 481.4210 | 8.885300 | 81.43233 | .4760726 | -.001849 | |
| #2 | .6624279 | 481.3950 | 8.849982 | 80.81272 | .4779312 | -.001955 | |
| #3 | .6681740 | 477.5060 | 8.915175 | 81.70155 | .4789622 | -.002127 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 5.156727 | .7334440 | 2.376195 | 14.79463 | ^ ***** | .0000519 | |
| StdDev | .030860 | .0044935 | .006392 | .04168 | ----- | .0000941 | |
| %RSD | .5984481 | .6126588 | .2689853 | .2817489 | ----- | 181.3083 | |
| #1 | 5.156553 | .7380116 | 2.383205 | 14.81664 | ^ ----- | .0001604 | |
| #2 | 5.187673 | .7290284 | 2.370690 | 14.82070 | ^ ----- | .0000032 | |
| #3 | 5.125953 | .7332920 | 2.374691 | 14.74656 | ^ ----- | -.000008 | |

Sample Name: P5398-01DUP Acquired: 1/6/2025 14:57:48 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|----------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .0081230 | 6.236308 | F 12.51140 | 7.893131 | 2.291259 | .2738418 | 5 |
| Stddev | .0020676 | .015370 | .04881 | .004607 | .002634 | .0001803 | 6 |
| %RSD | 25.45331 | .2464571 | .3901394 | .0583686 | .1149550 | .0658414 | 7 |
| #1 | .0103499 | 6.232551 | 12.45775 | 7.895279 | 2.288333 | .2736955 | 8 |
| #2 | .0062641 | 6.223165 | 12.55319 | 7.896271 | 2.293441 | .2737866 | 9 |
| #3 | .0077550 | 6.253208 | 12.52325 | 7.887842 | 2.292003 | .2740432 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | -.186519 | | | | | | 13 |
| Stddev | .002946 | | | | | | 14 |
| %RSD | 1.579353 | | | | | | 15 |
| #1 | -.188182 | | | | | | 16 |
| #2 | -.188257 | | | | | | 17 |
| #3 | -.183118 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 3465.400 | 75207.71 | 15818.55 | 2442.401 | 3847.535 | | |
| Stddev | .097 | 133.14 | 65.81 | 1.229 | 3.554 | | |
| %RSD | .0028069 | .1770280 | .4160440 | .0503282 | .0923775 | | |
| #1 | 3465.318 | 75145.57 | 15809.75 | 2441.030 | 3851.639 | | |
| #2 | 3465.507 | 75117.00 | 15888.32 | 2443.405 | 3845.455 | | |
| #3 | 3465.375 | 75360.56 | 15757.58 | 2442.768 | 3845.510 | | |

Sample Name: P5398-01LX5 Acquired: 1/6/2025 15:02:09 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0733079 | .0003144 | .1887266 | -.025424 | .0003836 | 50.43675 | .2974202 |
| StdDev | .0016510 | .0010749 | .0011354 | .002089 | .0006418 | .17991 | .0015730 |
| %RSD | 2.252177 | 341.9133 | .6016337 | 8.216631 | 167.3381 | .3566996 | .5288759 |
| #1 | .0738763 | .0001893 | .1881356 | -.023264 | .0011242 | 50.41915 | .2975504 |
| #2 | .0714478 | .0014463 | .1880085 | -.025576 | -.000010 | 50.62481 | .2989240 |
| #3 | .0745997 | -.000692 | .1900356 | -.027433 | .000037 | 50.26629 | .2957862 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0058278 | .0003812 | 19.13611 | .1246869 | .0535614 | .1706015 | 126.7479 |
| StdDev | .0000540 | .0000190 | .11741 | .0001112 | .0002765 | .0002656 | .6202 |
| %RSD | .9270325 | 4.986303 | .6135586 | .0891600 | .5161424 | .1556772 | .4892980 |
| #1 | .0058617 | .0003667 | 19.19725 | .1245865 | .0536663 | .1708799 | 127.4460 |
| #2 | .0057655 | .0004027 | 19.21034 | .1246677 | .0532479 | .1703509 | 126.5368 |
| #3 | .0058561 | .0003742 | 19.00075 | .1248064 | .0537702 | .1705739 | 126.2608 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.335572 | 21.21146 | .1003598 | .0004659 | 1.238618 | .1925799 | .6065498 |
| StdDev | .012046 | .06938 | .0005448 | .0003696 | .014163 | .0010517 | .0025975 |
| %RSD | .5157741 | .3270705 | .5428431 | 79.32463 | 1.143460 | .5461003 | .4282451 |
| #1 | 2.333755 | 21.23498 | .1008481 | .0008905 | 1.252152 | .1937622 | .6091306 |
| #2 | 2.348423 | 21.26601 | .1004591 | .0002908 | 1.223900 | .1922288 | .6065830 |
| #3 | 2.324537 | 21.13338 | .0997722 | .0002165 | 1.239800 | .1917486 | .6039359 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 3.475602 | -.295574 | -.000362 | -.000845 | 1.622835 | 3.116950 | 1.622711 |
| StdDev | .015682 | .004442 | .000158 | .001155 | .004412 | .003673 | .008549 |
| %RSD | .4512063 | 1.502886 | 43.56647 | 136.7422 | .2718792 | .1178315 | .5268242 |
| #1 | 3.491214 | -.296919 | -.000273 | -.000833 | 1.624833 | 3.119069 | 1.631799 |
| #2 | 3.459850 | -.299188 | -.000545 | .000304 | 1.625895 | 3.112709 | 1.614829 |
| #3 | 3.475741 | -.290615 | -.000270 | -.002007 | 1.617777 | 3.119071 | 1.621506 |

Sample Name: P5398-01LX5 Acquired: 1/6/2025 15:02:09 Type: Unk
Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: Custom ID2: Custom ID3:
Comment:

| | | | | |
|--------|----------|----------|----------|--|
| ELEM | S_1820 | Li6707 | Sr4077 | |
| UNITS | ppm | ppm | ppm | |
| Avg | .4522667 | .0681244 | -.051986 | |
| StdDev | .0037126 | .0010207 | .000545 | |
| %RSD | .8208814 | 1.498314 | 1.049083 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .4559210 | .0669485 | -.052612 | |
| #2 | .4484985 | .0686432 | -.051616 | |
| #3 | .4523806 | .0687815 | -.051729 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2998.725 | 64965.58 | 13016.03 | 2156.733 | 4167.890 |
| StdDev | 13.470 | 161.56 | 30.33 | 3.349 | 10.292 |
| %RSD | .4491942 | .2486887 | .2329842 | .1552669 | .2469446 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 3008.835 | 64837.50 | 13029.92 | 2154.555 | 4176.595 |
| #2 | 3003.905 | 65147.09 | 12981.25 | 2160.589 | 4170.545 |
| #3 | 2983.433 | 64912.16 | 13036.93 | 2155.054 | 4156.530 |

Sample Name: CCV03 Acquired: 1/6/2025 15:06:19 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | 4.846054 | 5.068469 | 4.943108 | 4.836199 | 4.875669 | 9.781218 | 9.667218 |
| StdDev | .024346 | .021734 | .014321 | .019474 | .019332 | .025106 | .134833 |
| %RSD | .5023972 | .4288005 | .2897193 | .4026698 | .3965002 | .2566716 | 1.394742 |
| #1 | 4.856294 | 5.092931 | 4.937670 | 4.840116 | 4.877151 | 9.792430 | 9.820695 |
| #2 | 4.818260 | 5.051383 | 4.932303 | 4.815065 | 4.855640 | 9.752461 | 9.567823 |
| #3 | 4.863608 | 5.061093 | 4.959352 | 4.853417 | 4.894218 | 9.798765 | 9.613135 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .2554378 | 2.481457 | 24.88915 | 1.040642 | 2.470779 | 1.231834 | 5.012032 |
| StdDev | .0003137 | .006169 | .04562 | .002704 | .005721 | .003704 | .007512 |
| %RSD | .1228149 | .2485891 | .1833127 | .2598452 | .2315284 | .3006667 | .1498835 |
| #1 | .2556291 | 2.478417 | 24.86552 | 1.040093 | 2.469487 | 1.232310 | 5.013658 |
| #2 | .2550757 | 2.477399 | 24.86018 | 1.043579 | 2.465815 | 1.227916 | 5.018599 |
| #3 | .2556084 | 2.488556 | 24.94174 | 1.038255 | 2.477035 | 1.235277 | 5.003840 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.453077 | 25.16043 | 2.471808 | 1.261972 | 23.95888 | 2.478547 | 2.521283 |
| StdDev | .004835 | .04377 | .006502 | .002462 | .10904 | .004659 | .014285 |
| %RSD | .1970846 | .1739627 | .2630265 | .1951239 | .4550980 | .1879918 | .5665849 |
| #1 | 2.454339 | 25.15508 | 2.472203 | 1.261774 | 24.07086 | 2.477531 | 2.509361 |
| #2 | 2.447737 | 25.20663 | 2.465119 | 1.264527 | 23.95272 | 2.474479 | 2.537116 |
| #3 | 2.457156 | 25.11958 | 2.478104 | 1.259614 | 23.85305 | 2.483630 | 2.517372 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 24.50575 | 4.971442 | 5.046474 | 4.972512 | 4.886888 | 5.012792 | 4.759513 |
| StdDev | .01997 | .017867 | .019287 | .011612 | .009237 | .018546 | .015114 |
| %RSD | .0814979 | .3594000 | .3821950 | .2335206 | .1890094 | .3699808 | .3175534 |
| #1 | 24.52529 | 4.966596 | 5.051173 | 4.972199 | 4.889005 | 4.996303 | 4.772437 |
| #2 | 24.50659 | 4.956498 | 5.025272 | 4.961060 | 4.876776 | 5.032871 | 4.742894 |
| #3 | 24.48537 | 4.991233 | 5.062978 | 4.984277 | 4.894882 | 5.009204 | 4.763206 |

Sample Name: CCV03 Acquired: 1/6/2025 15:06:19 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV03 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | 4.704638 | 4.741173 | 4.952875 | |
| Stddev | .017052 | .016019 | .030444 | |
| %RSD | .3624491 | .3378644 | .6146768 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | 4.717537 | 4.751324 | 4.987480 | |
| #2 | 4.685305 | 4.722707 | 4.930213 | |
| #3 | 4.711071 | 4.749489 | 4.940931 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2840.975 | 61132.53 | 11764.76 | 1990.468 | 4182.697 |
| Stddev | 9.916 | 218.25 | 6.09 | 13.202 | 6.055 |
| %RSD | .3490400 | .3570136 | .0518009 | .6632566 | .1447566 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 2836.012 | 61070.52 | 11761.96 | 1994.547 | 4179.145 |
| #2 | 2852.392 | 60951.99 | 11771.76 | 1975.708 | 4189.689 |
| #3 | 2834.520 | 61375.08 | 11760.57 | 2001.149 | 4179.259 |

Sample Name: CCB03 Acquired: 1/6/2025 15:10:31 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | 1 |
| UNITS | ppm | 2 |
| Avg | .0015720 | -.000647 | -.000610 | -.002223 | -.000367 | .0036174 | .0007780 | 3 |
| StdDev | .0018596 | .001735 | .000987 | .002380 | .000242 | .0059144 | .0003181 | 4 |
| %RSD | 118.2892 | 268.3394 | 161.8170 | 107.0431 | 65.87083 | 163.4995 | 40.88330 | 5 |
| #1 | -.000349 | .001186 | -.001486 | -.000020 | -.000249 | .0010043 | .0011253 | 6 |
| #2 | .001703 | -.002264 | .000459 | -.001903 | -.000207 | .0103883 | .0007081 | 7 |
| #3 | .003363 | -.000862 | -.000803 | -.004747 | -.000645 | -.000540 | .0005008 | 8 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | 9 |
| UNITS | ppm | 10 |
| Avg | .0000479 | .0001641 | -.001543 | .0000283 | -.000089 | -.000428 | -.004489 | 11 |
| StdDev | .0000329 | .0000473 | .004971 | .0002136 | .000158 | .000192 | .003621 | 12 |
| %RSD | 68.71286 | 28.84228 | 322.1228 | 755.8151 | 176.2581 | 44.87344 | 80.65780 | 13 |
| #1 | .0000666 | .0002185 | .003134 | .0001580 | -.000023 | -.000420 | -.002911 | 14 |
| #2 | .0000672 | .0001327 | -.001000 | .0001450 | -.000269 | -.000625 | -.001925 | 15 |
| #3 | .0000099 | .0001410 | -.006764 | -.000218 | .000024 | -.000241 | -.008631 | 16 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | 17 |
| UNITS | ppm | 18 |
| Avg | -.001344 | -.003547 | -.000012 | -.000225 | .0161459 | -.000276 | -.000497 | |
| StdDev | .000080 | .000537 | .000234 | .000337 | .0026241 | .001106 | .000271 | |
| %RSD | 5.985642 | 15.13177 | 1943.712 | 149.6556 | 16.25243 | 400.1137 | 54.58163 | |
| #1 | -.001270 | -.003234 | .000042 | .000068 | .0136181 | .000149 | -.000340 | |
| #2 | -.001430 | -.003240 | -.000268 | -.000592 | .0188567 | -.001532 | -.000341 | |
| #3 | -.001333 | -.004166 | .000190 | -.000150 | .0159629 | .000554 | -.000810 | |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 | |
| UNITS | ppm | |
| Avg | .0833947 | .0059592 | .0000526 | .0002960 | .0000255 | -.000256 | .0023937 | |
| StdDev | .0078743 | .0007699 | .0000536 | .0002910 | .0004697 | .002781 | .0007474 | |
| %RSD | 9.442220 | 12.91948 | 101.8231 | 98.29951 | 1841.631 | 1086.328 | 31.22304 | |
| #1 | .0924794 | .0065091 | .0001132 | .0006210 | .0003858 | -.003439 | .0030978 | |
| #2 | .0791778 | .0062893 | .0000335 | .0002073 | -.000506 | .001704 | .0024737 | |
| #3 | .0785268 | .0050793 | .0000112 | .0000597 | .000196 | .000967 | .0016095 | |

Sample Name: CCB03 Acquired: 1/6/2025 15:10:31 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB03 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.002718 | -.000281 | .0000796 | |
| Stddev | .001550 | .001812 | .0000476 | |
| %RSD | 57.02481 | 645.5769 | 59.80016 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.001414 | .000276 | .0001047 | |
| #2 | -.004432 | .001187 | .0001094 | |
| #3 | -.002308 | -.002305 | .0000247 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2928.723 | 63953.28 | 12288.03 | 2095.948 | 4511.138 |
| Stddev | 6.887 | 286.33 | 25.22 | 8.865 | 5.915 |
| %RSD | .2351413 | .4477206 | .2052108 | .4229529 | .1311096 |
| #1 | 2928.671 | 64262.94 | 12314.27 | 2104.386 | 4511.153 |
| #2 | 2935.635 | 63698.10 | 12263.98 | 2086.710 | 4517.045 |
| #3 | 2921.862 | 63898.80 | 12285.84 | 2096.749 | 4505.216 |

Sample Name: P5398-01MS Acquired: 1/6/2025 15:14:52 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7329030 | 1.597873 | 1.549389 | 1.090386 | .2058243 | 220.9127 | 3 |
| StdDev | .0047319 | .013061 | .006086 | .000866 | .0015231 | 1.0560 | 4 |
| %RSD | .6456402 | .8174123 | .3927684 | .0794106 | .7399892 | .4780109 | 5 |
| #1 | .7282731 | 1.583550 | 1.547936 | 1.089923 | .2048912 | 221.7389 | 6 |
| #2 | .7377307 | 1.600944 | 1.544162 | 1.091385 | .2075819 | 221.2762 | 7 |
| #3 | .7327052 | 1.609125 | 1.556069 | 1.089850 | .2049999 | 219.7230 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 1.339113 | .1448096 | .2041639 | 79.37493 | .7333549 | .4611691 | 11 |
| StdDev | .008639 | .0006393 | .0010142 | .46865 | .0024450 | .0017087 | 12 |
| %RSD | .6451269 | .4414779 | .4967359 | .5904271 | .3334053 | .3705077 | 13 |
| #1 | 1.345861 | .1455017 | .2041779 | 79.80013 | .7341498 | .4604950 | 14 |
| #2 | 1.342101 | .1442411 | .2031428 | 79.45223 | .7353037 | .4599003 | 15 |
| #3 | 1.329377 | .1446862 | .2051710 | 78.87243 | .7306114 | .4631120 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .8315570 | 476.1961 | 8.625792 | 86.54778 | .9295589 | .0493149 | |
| StdDev | .0037273 | 2.6922 | .050542 | .38537 | .0032793 | .0007902 | |
| %RSD | .4482295 | .5653523 | .5859398 | .4452645 | .3527784 | 1.602300 | |
| #1 | .8333501 | 475.1866 | 8.673684 | 86.92512 | .9273129 | .0501927 | |
| #2 | .8272721 | 479.2472 | 8.630730 | 86.56338 | .9280418 | .0490914 | |
| #3 | .8340489 | 474.1547 | 8.572962 | 86.15486 | .9333221 | .0486605 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 7.599205 | .9737912 | 1.790517 | 22.92357 | ^ ***** | .2563908 | |
| StdDev | .047360 | .0039382 | .006276 | .15196 | ----- | .0005032 | |
| %RSD | .6232256 | .4044246 | .3505000 | .6629061 | ----- | .1962726 | |
| #1 | 7.622602 | .9777011 | 1.787069 | 22.98916 | ^ ----- | .2564511 | |
| #2 | 7.630313 | .9738473 | 1.797761 | 23.03172 | ^ ----- | .2568611 | |
| #3 | 7.544699 | .9698252 | 1.786722 | 22.74983 | ^ ----- | .2558601 | |

Sample Name: P5398-01MS Acquired: 1/6/2025 15:14:52 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|------------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6195741 | 6.923894 | F 12.66842 | F 13.91224 | 1.817487 | .4369251 | 5 |
| Stddev | .0009342 | .040970 | .07788 | .03293 | .002326 | .0030116 | 6 |
| %RSD | .1507878 | .5917154 | .6147841 | .2367331 | .1279885 | .6892749 | 7 |
| #1 | .6204958 | 6.959047 | 12.70207 | 13.88641 | 1.814827 | .4397232 | 8 |
| #2 | .6195985 | 6.933737 | 12.72382 | 13.90098 | 1.819143 | .4373143 | 9 |
| #3 | .6186278 | 6.878900 | 12.57937 | 13.94933 | 1.818490 | .4337378 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | -.042763 | | | | | | 13 |
| Stddev | .003211 | | | | | | 14 |
| %RSD | 7.508165 | | | | | | 15 |
| #1 | -.039181 | | | | | | 16 |
| #2 | -.045382 | | | | | | 17 |
| #3 | -.043727 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 3393.449 | 77052.11 | 16067.93 | 2450.808 | 3718.706 | | |
| Stddev | 3.322 | 328.34 | 40.83 | 21.612 | 13.943 | | |
| %RSD | .0978872 | .4261317 | .2541126 | .8818134 | .3749307 | | |
| #1 | 3391.988 | 77163.04 | 16025.07 | 2452.048 | 3721.048 | | |
| #2 | 3397.251 | 76682.67 | 16072.34 | 2428.604 | 3731.330 | | |
| #3 | 3391.108 | 77310.61 | 16106.37 | 2471.773 | 3703.741 | | |

Sample Name: P5398-01MSD Acquired: 1/6/2025 15:19:07 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .7487114 | 1.611887 | 1.553575 | 1.117098 | .2065973 | 221.6807 | 3 |
| StdDev | .0022783 | .012017 | .002616 | .003290 | .0005583 | 1.7953 | 4 |
| %RSD | .3042909 | .7455110 | .1683809 | .2944783 | .2702372 | .8098370 | 5 |
| #1 | .7493760 | 1.598742 | 1.553325 | 1.113541 | .2061597 | 221.5718 | 6 |
| #2 | .7505834 | 1.622307 | 1.556308 | 1.120031 | .2064060 | 223.5280 | 7 |
| #3 | .7461747 | 1.614613 | 1.551094 | 1.117721 | .2072261 | 219.9424 | 8 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | 9 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 10 |
| Avg | 1.351063 | .1460814 | .2036352 | 79.53017 | .7383999 | .4624540 | 11 |
| StdDev | .007481 | .0001817 | .0002855 | .35666 | .0020764 | .0006561 | 12 |
| %RSD | .5536788 | .1243552 | .1402204 | .4484592 | .2811973 | .1418761 | 13 |
| #1 | 1.356068 | .1458747 | .2038810 | 79.56078 | .7371745 | .4631872 | 14 |
| #2 | 1.354656 | .1462155 | .2037027 | 79.87054 | .7372279 | .4619221 | 15 |
| #3 | 1.342463 | .1461541 | .2033220 | 79.15919 | .7407973 | .4622528 | 16 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 | 17 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 18 |
| Avg | .8318209 | 485.4728 | 8.687863 | 86.42128 | .9323880 | .0496975 | |
| StdDev | .0019694 | 1.5827 | .051602 | .15647 | .0005224 | .0008682 | |
| %RSD | .2367624 | .3260036 | .5939518 | .1810495 | .0560319 | 1.747003 | |
| #1 | .8326213 | 483.7108 | 8.700220 | 86.32967 | .9324657 | .0491392 | |
| #2 | .8332641 | 486.7736 | 8.732165 | 86.60195 | .9328673 | .0492555 | |
| #3 | .8295773 | 485.9340 | 8.631205 | 86.33223 | .9318311 | .0506978 | |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | |
| Avg | 7.829651 | .9783318 | 1.822880 | 23.46456 | ^ ***** | .2569027 | |
| StdDev | .049866 | .0025749 | .007887 | .12426 | ----- | .0004984 | |
| %RSD | .6368804 | .2631967 | .4326413 | .5295435 | ----- | .1940156 | |
| #1 | 7.879186 | .9789194 | 1.817065 | 23.59644 | ^ ----- | .2564788 | |
| #2 | 7.830307 | .9805621 | 1.819718 | 23.44753 | ^ ----- | .2574518 | |
| #3 | 7.779461 | .9755138 | 1.831857 | 23.34969 | ^ ----- | .2567775 | |

Sample Name: P5398-01MSD Acquired: 1/6/2025 15:19:07 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|------------|----------|----------|----|
| ELEM | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 1 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | 2 |
| Avg | .6213483 | 6.977989 | F 13.14249 | F 14.07417 | 1.849145 | .4397258 | 3 |
| StdDev | .0018118 | .031491 | .01624 | .01784 | .002531 | .0021865 | 4 |
| %RSD | .2915931 | .4512895 | .1235978 | .1267755 | .1368603 | .4972374 | 5 |
| #1 | .6192906 | 6.994862 | 13.13321 | 14.05443 | 1.846262 | .4416535 | 6 |
| #2 | .6220501 | 6.997449 | 13.16125 | 14.08915 | 1.850173 | .4401740 | 7 |
| #3 | .6227043 | 6.941657 | 13.13302 | 14.07892 | 1.851000 | .4373499 | 8 |
| ELEM | Sr4077 | | | | | | 9 |
| UNITS | ppm | | | | | | 10 |
| Avg | -.048806 | | | | | | 11 |
| StdDev | .002942 | | | | | | 12 |
| %RSD | 6.028159 | | | | | | 13 |
| #1 | -.046032 | | | | | | 14 |
| #2 | -.048494 | | | | | | 15 |
| #3 | -.051891 | | | | | | 16 |
| INT. STD. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 17 |
| UNITS | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 18 |
| Avg | 3346.565 | 75532.35 | 16029.32 | 2415.780 | 3677.766 | | |
| StdDev | .545 | 98.19 | 52.28 | 11.715 | 1.746 | | |
| %RSD | .0162898 | .1300028 | .3261501 | .4849453 | .0474863 | | |
| #1 | 3346.668 | 75645.64 | 16063.87 | 2428.814 | 3675.865 | | |
| #2 | 3347.051 | 75479.62 | 15969.17 | 2412.400 | 3679.298 | | |
| #3 | 3345.975 | 75471.79 | 16054.91 | 2406.127 | 3678.137 | | |

| | | | | | | |
|--------------|---------------------------|-------------|-------------------|---------------|----------|----------|
| Sample Name: | P5398-01A | Acquired: | 1/6/2025 15:23:21 | Type: | Unk | |
| Method: | NON EPA-6010-200.7(v2498) | Mode: | CONC | Corr. Factor: | 1.000000 | |
| User: | Kareem | Custom ID1: | Custom ID2: | Custom ID3: | | |
| Comment: | | | | | | |
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7411543 | 1.587242 | 1.539831 | 1.098155 | .2058494 | 218.9006 |
| StdDev | .0066457 | .009283 | .003774 | .009155 | .0029247 | .5583 |
| %RSD | .8966682 | .5848267 | .2451092 | .8336685 | 1.420792 | .2550581 |
| #1 | .7459065 | 1.579361 | 1.542783 | 1.106346 | .2080255 | 219.4329 |
| #2 | .7335602 | 1.584890 | 1.535578 | 1.088272 | .2025248 | 218.9494 |
| #3 | .7439963 | 1.597474 | 1.541131 | 1.099847 | .2069979 | 218.3194 |
| ELEM | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.341097 | .1427301 | .2035449 | 78.66003 | .7276052 | .4588764 |
| StdDev | .004965 | .0010507 | .0003737 | .34933 | .0013424 | .0007631 |
| %RSD | .3702168 | .7361311 | .1835782 | .4441055 | .1844947 | .1663005 |
| #1 | 1.336074 | .1425417 | .2039721 | 78.32948 | .7261344 | .4596942 |
| #2 | 1.346002 | .1417864 | .2033836 | 78.62510 | .7279170 | .4581833 |
| #3 | 1.341215 | .1438623 | .2032790 | 79.02552 | .7287643 | .4587518 |
| ELEM | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8334979 | 475.3892 | 8.559322 | 85.44788 | .9235065 | .0489128 |
| StdDev | .0025226 | 2.7930 | .031965 | .43590 | .0021934 | .0001181 |
| %RSD | .3026503 | .5875260 | .3734546 | .5101383 | .2375040 | .2413963 |
| #1 | .8362523 | 474.8516 | 8.532083 | 85.10904 | .9259042 | .0489923 |
| #2 | .8313000 | 472.9040 | 8.551370 | 85.29498 | .9216012 | .0487771 |
| #3 | .8329415 | 478.4120 | 8.594512 | 85.93964 | .9230142 | .0489690 |
| ELEM | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.684294 | .9679327 | 1.794431 | 23.11632 | ^ ***** | .2571934 |
| StdDev | .044515 | .0024586 | .005288 | .12646 | ----- | .0007729 |
| %RSD | .5793001 | .2540028 | .2947102 | .5470451 | ----- | .3005210 |
| #1 | 7.676790 | .9652346 | 1.793125 | 23.03476 | ^ ----- | .2579690 |
| #2 | 7.732085 | .9685170 | 1.800250 | 23.26199 | ^ ----- | .2564231 |
| #3 | 7.644008 | .9700465 | 1.789918 | 23.05221 | ^ ----- | .2571880 |

Sample Name: P5398-01A Acquired: 1/6/2025 15:23:21 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|-----------|----------|----------|------------|------------|----------|----------|----|
| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | 3 |
| Units | ppm | ppm | ppm | ppm | ppm | ppm | 4 |
| Avg | .6119095 | 6.925082 | F 12.99521 | F 13.75373 | 1.800116 | .4376705 | 5 |
| Stddev | .0022153 | .025730 | .07503 | .03559 | .005071 | .0017383 | 6 |
| %RSD | .3620291 | .3715519 | .5773462 | .2587700 | .2817019 | .3971766 | 7 |
| #1 | .6137054 | 6.896113 | 12.94031 | 13.76133 | 1.804316 | .4358913 | 8 |
| #2 | .6094340 | 6.933850 | 13.08070 | 13.71495 | 1.794483 | .4393648 | 9 |
| #3 | .6125892 | 6.945282 | 12.96462 | 13.78491 | 1.801550 | .4377553 | 10 |
| Elem | Sr4077 | | | | | | 11 |
| Units | ppm | | | | | | 12 |
| Avg | -.041003 | | | | | | 13 |
| Stddev | .002669 | | | | | | 14 |
| %RSD | 6.509603 | | | | | | 15 |
| #1 | -.042091 | | | | | | 16 |
| #2 | -.037962 | | | | | | 17 |
| #3 | -.042957 | | | | | | 18 |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | |
| Avg | 3374.267 | 77166.27 | 16273.78 | 2424.775 | 3723.843 | | |
| Stddev | 10.559 | 77.11 | 73.96 | 4.646 | 10.384 | | |
| %RSD | .3129199 | .0999255 | .4544668 | .1915943 | .2788547 | | |
| #1 | 3367.567 | 77212.19 | 16297.62 | 2426.614 | 3717.181 | | |
| #2 | 3386.439 | 77077.25 | 16332.88 | 2419.491 | 3735.808 | | |
| #3 | 3368.796 | 77209.37 | 16190.84 | 2428.219 | 3718.540 | | |

Sample Name: P5398-02DUP Acquired: 1/6/2025 15:27:37 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .002235 | .007622 | .0309976 | .0031498 | .0023640 | .0626368 | .1722894 |
| StdDev | .001950 | .002578 | .0006819 | .0008115 | .0001185 | .0095839 | .0010494 |
| %RSD | 87.23991 | 33.82611 | 2.199686 | 25.76457 | 5.015003 | 15.30078 | .6091045 |
| #1 | -.000145 | -.005995 | .0312940 | .0033930 | .0024716 | .0697966 | .1712464 |
| #2 | -.002554 | -.006276 | .0314810 | .0038118 | .0023833 | .0517490 | .1733451 |
| #3 | -.004006 | -.010594 | .0302177 | .0022444 | .0022369 | .0663646 | .1722767 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | -.000068 | .0013869 | 29.96996 | .0008247 | .0044044 | .0113115 | .0393170 |
| StdDev | .000042 | .0000468 | .18623 | .0002870 | .0002111 | .0003200 | .0110092 |
| %RSD | 61.18241 | 3.371397 | .6213867 | 34.79761 | 4.792196 | 2.829186 | 28.00106 |
| #1 | -.000112 | .0014402 | 29.77602 | .0010855 | .0042040 | .0116427 | .0518775 |
| #2 | -.000065 | .0013528 | 30.14737 | .0008713 | .0043846 | .0112877 | .0347331 |
| #3 | -.000028 | .0013678 | 29.98649 | .0005173 | .0046248 | .0110040 | .0313404 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .7017542 | 2.505111 | .0040894 | -.000171 | 315.6651 | .0001113 | .3059020 |
| StdDev | .0022224 | .008301 | .0003851 | .000096 | 4.5106 | .0007167 | .0019708 |
| %RSD | .3166969 | .3313733 | 9.417532 | 55.76676 | 1.428927 | 643.9745 | .6442520 |
| #1 | .6991917 | 2.496449 | .0036680 | -.000175 | 320.4198 | -.000505 | .3060191 |
| #2 | .7031541 | 2.512998 | .0044233 | -.000265 | 311.4464 | -.000060 | .3038753 |
| #3 | .7029169 | 2.505886 | .0041768 | -.000074 | 315.1292 | .000898 | .3078116 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 1.212312 | .0160104 | .0005400 | -.000109 | .0000070 | 1.825642 | .0142000 |
| StdDev | .009423 | .0001443 | .0001973 | .000702 | .0002488 | .009798 | .0038833 |
| %RSD | .7772798 | .9010434 | 36.53858 | 641.6084 | 3545.985 | .5366690 | 27.34712 |
| #1 | 1.223082 | .0160430 | .0004338 | -.000818 | .0002938 | 1.836950 | .0185617 |
| #2 | 1.205587 | .0158526 | .0007677 | .000587 | -.000152 | 1.820275 | .0129202 |
| #3 | 1.208267 | .0161355 | .0004186 | -.000097 | -.000121 | 1.819700 | .0111182 |

Sample Name: P5398-02DUP Acquired: 1/6/2025 15:27:37 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .2562659 | -.007676 | .1426483 | | | 3 |
| Stddev | .0014027 | .000398 | .0004804 | | | 4 |
| %RSD | .5473586 | 5.180736 | .3367508 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .2566655 | -.007850 | .1421342 | | | 6 |
| #2 | .2547068 | -.007958 | .1430858 | | | 7 |
| #3 | .2574255 | -.007221 | .1427250 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2629.282 | 58145.80 | 12591.83 | 1879.182 | 3848.279 | 11 |
| Stddev | 4.265 | 211.86 | 73.92 | 7.113 | 4.457 | 12 |
| %RSD | .1622037 | .3643565 | .5870559 | .3785336 | .1158205 | 13 |
| #1 | 2634.176 | 57938.67 | 12665.14 | 1875.843 | 3852.174 | 14 |
| #2 | 2626.361 | 58362.09 | 12517.32 | 1887.350 | 3843.418 | 15 |
| #3 | 2627.309 | 58136.64 | 12593.02 | 1874.352 | 3849.244 | 16 |

Sample Name: P5398-02LX5 Acquired: 1/6/2025 15:32:02 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0003643 | -.001832 | .0070132 | -.000893 | .0010861 | .0082307 | .0337034 |
| StdDev | .0009711 | .000405 | .0005416 | .002810 | .0007176 | .0059506 | .0007616 |
| %RSD | 266.5842 | 22.10402 | 7.722739 | 314.7895 | 66.07392 | 72.29694 | 2.259736 |
| #1 | -.000481 | -.001703 | .0072178 | .000964 | .0004206 | .0135891 | .0330119 |
| #2 | .000149 | -.001507 | .0063991 | -.004126 | .0018464 | .0092765 | .0345197 |
| #3 | .001425 | -.002286 | .0074227 | .000484 | .0009912 | .0018266 | .0335784 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | -.000046 | .0003316 | 6.182864 | .0000491 | .0008911 | .0019948 | .0000456 |
| StdDev | .000029 | .0000612 | .004021 | .0002292 | .0001799 | .0004593 | .0012394 |
| %RSD | 63.60051 | 18.47130 | .0650415 | 466.9542 | 20.18350 | 23.02479 | 2716.283 |
| #1 | -.000016 | .0003776 | 6.181956 | .0000673 | .0008526 | .0021290 | .0014765 |
| #2 | -.000074 | .0002621 | 6.187262 | -.000189 | .0007336 | .0014833 | -.000693 |
| #3 | -.000048 | .0003550 | 6.179374 | .000269 | .0010871 | .0023720 | -.000646 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .1435044 | .5242825 | .0010428 | -.000306 | 61.46113 | -.000819 | .0604609 |
| StdDev | .0005386 | .0082925 | .0003375 | .000629 | .31660 | .000092 | .0001360 |
| %RSD | .3752968 | 1.581679 | 32.36070 | 205.4390 | .5151276 | 11.19564 | .2248627 |
| #1 | .1435664 | .5163638 | .0006559 | -.000118 | 61.82669 | -.000723 | .0605910 |
| #2 | .1429376 | .5235796 | .0012764 | .000207 | 61.28197 | -.000906 | .0604719 |
| #3 | .1440094 | .5329040 | .0011962 | -.001008 | 61.27472 | -.000828 | .0603198 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .2535021 | .0034343 | .0000196 | -.001233 | -.000086 | .3414388 | .0048949 |
| StdDev | .0138241 | .0004242 | .0001819 | .000724 | .000035 | .0129117 | .0011512 |
| %RSD | 5.453256 | 12.35098 | 929.5688 | 58.75527 | 40.34797 | 3.781550 | 23.51841 |
| #1 | .2579413 | .0038220 | -.000151 | -.001979 | -.000122 | .3496158 | .0046410 |
| #2 | .2645613 | .0029813 | -.000002 | -.001188 | -.000052 | .3265538 | .0038919 |
| #3 | .2380037 | .0034996 | .000211 | -.000532 | -.000086 | .3481467 | .0061519 |

Sample Name: P5398-02LX5 Acquired: 1/6/2025 15:32:02 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|--|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | | 1 |
| Units | ppm | ppm | ppm | | | | 2 |
| Avg | .0464348 | -.001139 | .0298829 | | | | 3 |
| Stddev | .0025698 | .000397 | .0000301 | | | | 4 |
| %RSD | 5.534315 | 34.82881 | .1007468 | | | | 5 |

| | | | | | | | |
|----|----------|----------|----------|--|--|--|---|
| #1 | .0440629 | -.001319 | .0299174 | | | | 6 |
| #2 | .0491650 | -.001414 | .0298698 | | | | 7 |
| #3 | .0460764 | -.000684 | .0298617 | | | | 8 |

| | | | | | | | |
|-----------|----------|----------|----------|----------|----------|--|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | | 10 |
| Avg | 2797.296 | 63501.58 | 12968.93 | 2012.613 | 4239.231 | | 11 |
| Stddev | 11.895 | 79.50 | 25.16 | 7.063 | 9.344 | | 12 |
| %RSD | .4252476 | .1251964 | .1940185 | .3509497 | .2204230 | | 13 |
| #1 | 2807.999 | 63437.99 | 12991.87 | 2008.604 | 4248.497 | | 14 |
| #2 | 2799.401 | 63476.03 | 12972.91 | 2008.466 | 4239.385 | | 15 |
| #3 | 2784.489 | 63590.71 | 12942.02 | 2020.769 | 4229.810 | | 16 |

Sample Name: P5398-02MS Acquired: 1/6/2025 15:36:21 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7737707 | 1.755274 | .9082004 | 1.837515 | .7479505 | 1.822530 | .3445455 |
| StdDev | .0010770 | .011480 | .0027657 | .008939 | .0047555 | .009251 | .0014716 |
| %RSD | .1391885 | .6540399 | .3045285 | .4864971 | .6357985 | .5076072 | .4271036 |
| #1 | .7743242 | 1.746590 | .9104010 | 1.844885 | .7516131 | 1.819361 | .3460986 |
| #2 | .7725295 | 1.750942 | .9050958 | 1.827571 | .7425761 | 1.815279 | .3431720 |
| #3 | .7744584 | 1.768290 | .9091044 | 1.840090 | .7496623 | 1.832949 | .3443658 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1694055 | .1841316 | 29.94125 | .3842184 | .1890997 | .2850806 | 2.925002 |
| StdDev | .0009272 | .0003164 | .21018 | .0026176 | .0007430 | .0008452 | .027578 |
| %RSD | .5473274 | .1718067 | .7019740 | .6812805 | .3928889 | .2964938 | .9428267 |
| #1 | .1704335 | .1841855 | 30.18129 | .3822211 | .1895274 | .2856881 | 2.910664 |
| #2 | .1686325 | .1837918 | 29.79021 | .3832524 | .1882418 | .2841153 | 2.907546 |
| #3 | .1691506 | .1844175 | 29.85226 | .3871817 | .1895299 | .2854385 | 2.956795 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .8608641 | 4.070298 | .4636396 | .0706983 | 311.2153 | .2692844 | .4900052 |
| StdDev | .0032244 | .036855 | .0011560 | .0005168 | .5810 | .0023432 | .0009769 |
| %RSD | .3745498 | .9054511 | .2493224 | .7309935 | .1866878 | .8701534 | .1993627 |
| #1 | .8644190 | 4.104506 | .4633808 | .0706714 | 311.8802 | .2712700 | .4892552 |
| #2 | .8581282 | 4.031271 | .4626350 | .0701954 | 310.8056 | .2698834 | .4911099 |
| #3 | .8600452 | 4.075118 | .4649030 | .0712279 | 310.9601 | .2666999 | .4896506 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 11.34935 | .2383645 | .3992752 | .6459321 | .1775772 | 2.493617 | 5.567830 |
| StdDev | .07068 | .0010823 | .0015346 | .0025000 | .0004014 | .013135 | .034220 |
| %RSD | .6227822 | .4540347 | .3843561 | .3870414 | .2260321 | .5267277 | .6145986 |
| #1 | 11.29565 | .2396135 | .4000814 | .6433329 | .1779397 | 2.479458 | 5.548953 |
| #2 | 11.32297 | .2377760 | .3975055 | .6461439 | .1771458 | 2.495990 | 5.547207 |
| #3 | 11.42943 | .2377041 | .4002388 | .6483195 | .1776460 | 2.505403 | 5.607331 |

Sample Name: P5398-02MS Acquired: 1/6/2025 15:36:21 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .2649090 | .1735341 | .3209019 | | | 3 |
| Stddev | .0045158 | .0010028 | .0008599 | | | 4 |
| %RSD | 1.704675 | .5778750 | .2679753 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .2644315 | .1740950 | .3218621 | | | 6 |
| #2 | .2606509 | .1723764 | .3202027 | | | 7 |
| #3 | .2696446 | .1741310 | .3206409 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2623.365 | 59724.93 | 12673.26 | 1879.340 | 3871.714 | 11 |
| Stddev | 9.272 | 213.48 | 85.17 | 6.327 | 12.316 | 12 |
| %RSD | .3534314 | .3574332 | .6720569 | .3366667 | .3181065 | 13 |
| #1 | 2620.207 | 59768.31 | 12574.92 | 1884.677 | 3871.105 | 14 |
| #2 | 2633.803 | 59913.38 | 12723.66 | 1880.992 | 3884.323 | 15 |
| #3 | 2616.085 | 59493.09 | 12721.19 | 1872.351 | 3859.713 | 16 |

Sample Name: P5398-02MSD Acquired: 1/6/2025 15:40:30 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7469624 | 1.735152 | .8993999 | 1.773301 | .7270427 | 1.822126 | .3469507 |
| StdDev | .0035901 | .003792 | .0034858 | .007827 | .0016876 | .013260 | .0007992 |
| %RSD | .4806313 | .2185673 | .3875703 | .4413569 | .2321213 | .7277104 | .2303574 |
| #1 | .7430825 | 1.732481 | .9020210 | 1.764467 | .7251857 | 1.820458 | .3477381 |
| #2 | .7501669 | 1.739492 | .8954440 | 1.779370 | .7274598 | 1.836140 | .3469739 |
| #3 | .7476379 | 1.733481 | .9007348 | 1.776066 | .7284827 | 1.809779 | .3461402 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1709247 | .1828086 | 30.43266 | .3873761 | .1878483 | .2788708 | 2.925751 |
| StdDev | .0003106 | .0003488 | .03605 | .0024190 | .0002881 | .0003888 | .015374 |
| %RSD | .1817492 | .1908007 | .1184534 | .6244456 | .1533903 | .1394073 | .5254604 |
| #1 | .1706190 | .1828656 | 30.47429 | .3847282 | .1880487 | .2788786 | 2.910479 |
| #2 | .1712401 | .1824348 | 30.41177 | .3894700 | .1875181 | .2784782 | 2.925551 |
| #3 | .1709152 | .1831254 | 30.41193 | .3879300 | .1879781 | .2792556 | 2.941224 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .8696480 | 4.144458 | .4598159 | .0699966 | 309.0818 | .2723492 | .4861866 |
| StdDev | .0004180 | .015291 | .0014267 | .0006491 | 3.0515 | .0022908 | .0029298 |
| %RSD | .0480697 | .3689432 | .3102847 | .9273751 | .9872669 | .8411229 | .6026150 |
| #1 | .8699730 | 4.154098 | .4612363 | .0694116 | 305.5601 | .2743596 | .4851768 |
| #2 | .8697945 | 4.126827 | .4583829 | .0706949 | 310.7449 | .2728328 | .4894877 |
| #3 | .8691764 | 4.152447 | .4598286 | .0698833 | 310.9405 | .2698552 | .4838952 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 11.28034 | .2395382 | .3976059 | .6398854 | .1789798 | 2.488700 | 5.414614 |
| StdDev | .07746 | .0010176 | .0006502 | .0008395 | .0004133 | .016739 | .010309 |
| %RSD | .6867154 | .4248359 | .1635349 | .1311881 | .2309253 | .6725970 | .1903898 |
| #1 | 11.20132 | .2406862 | .3969209 | .6397653 | .1785759 | 2.473637 | 5.403019 |
| #2 | 11.35615 | .2387470 | .3976823 | .6391124 | .1794019 | 2.485741 | 5.422744 |
| #3 | 11.28353 | .2391814 | .3982146 | .6407784 | .1789615 | 2.506721 | 5.418079 |

Sample Name: P5398-02MSD Acquired: 1/6/2025 15:40:30 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .2517149 | .1731580 | .3219832 | |
| Stddev | .0013153 | .0008881 | .0003896 | |
| %RSD | .5225226 | .5128643 | .1209965 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .2502794 | .1727499 | .3216511 | |
| #2 | .2520035 | .1725473 | .3224121 | |
| #3 | .2528620 | .1741768 | .3218866 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2699.557 | 59716.93 | 12542.23 | 1899.984 | 3981.837 |
| Stddev | 1.702 | 91.04 | 44.84 | 6.362 | 8.560 |
| %RSD | .0630421 | .1524565 | .3575316 | .3348333 | .2149866 |
| #1 | 2701.429 | 59818.14 | 12494.41 | 1903.717 | 3975.450 |
| #2 | 2699.138 | 59641.72 | 12548.96 | 1892.638 | 3991.564 |
| #3 | 2698.104 | 59690.92 | 12583.33 | 1903.596 | 3978.498 |

Sample Name: P5398-02A Acquired: 1/6/2025 15:44:39 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .7500605 | 1.744567 | .9083704 | 1.772262 | .7285628 | 1.834018 | .3470273 |
| StdDev | .0024163 | .010904 | .0037500 | .002399 | .0029628 | .010794 | .0008887 |
| %RSD | .3221524 | .6250072 | .4128309 | .1353564 | .4066654 | .5885593 | .2560903 |
| #1 | .7473729 | 1.734237 | .9054450 | 1.771063 | .7254504 | 1.846168 | .3465886 |
| #2 | .7507552 | 1.743499 | .9070681 | 1.770699 | .7288891 | 1.825536 | .3480500 |
| #3 | .7520533 | 1.755966 | .9125979 | 1.775024 | .7313490 | 1.830349 | .3464431 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .1759557 | .1847837 | 30.64940 | .3915557 | .1893481 | .2792194 | 2.941699 |
| StdDev | .0007813 | .0007735 | .14124 | .0003275 | .0007961 | .0021737 | .008998 |
| %RSD | .4440401 | .4185795 | .4608253 | .0836394 | .4204627 | .7784844 | .3058925 |
| #1 | .1759553 | .1840023 | 30.69390 | .3913371 | .1886658 | .2772228 | 2.932762 |
| #2 | .1767373 | .1847998 | 30.76302 | .3913977 | .1891558 | .2789007 | 2.941576 |
| #3 | .1751746 | .1855489 | 30.49127 | .3919322 | .1902229 | .2815349 | 2.950758 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .8791388 | 4.194730 | .4627559 | .0703788 | 307.9529 | .2731051 | .4898186 |
| StdDev | .0027482 | .023960 | .0020017 | .0005753 | .8846 | .0019935 | .0024410 |
| %RSD | .3125988 | .5711916 | .4325540 | .8173860 | .2872465 | .7299241 | .4983487 |
| #1 | .8808340 | 4.186336 | .4608669 | .0710269 | 307.0391 | .2736166 | .4875255 |
| #2 | .8806143 | 4.221758 | .4625468 | .0701808 | 308.0146 | .2747929 | .4895457 |
| #3 | .8759680 | 4.176097 | .4648539 | .0699286 | 308.8050 | .2709057 | .4923846 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 11.19343 | .2457601 | .3966170 | .6472369 | .1798757 | 2.477880 | 5.470196 |
| StdDev | .06165 | .0007926 | .0022656 | .0012068 | .0003766 | .006941 | .045415 |
| %RSD | .5507416 | .3225247 | .5712227 | .1864499 | .2093873 | .2801112 | .8302286 |
| #1 | 11.15791 | .2459783 | .3952554 | .6466831 | .1794443 | 2.472564 | 5.435263 |
| #2 | 11.15777 | .2464207 | .3953634 | .6464065 | .1801389 | 2.475342 | 5.453792 |
| #3 | 11.26461 | .2448812 | .3992324 | .6486212 | .1800440 | 2.485732 | 5.521535 |

Sample Name: P5398-02A Acquired: 1/6/2025 15:44:39 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | .2547351 | .1730074 | .3211078 | | | 3 |
| Stddev | .0077249 | .0007345 | .0009628 | | | 4 |
| %RSD | 3.032534 | .4245436 | .2998352 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | .2479233 | .1723990 | .3210071 | | | 6 |
| #2 | .2531535 | .1727998 | .3221170 | | | 7 |
| #3 | .2631284 | .1738233 | .3201993 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2685.145 | 58770.00 | 12215.54 | 1890.774 | 3940.083 | 11 |
| Stddev | 11.997 | 135.34 | 64.18 | 9.300 | 13.552 | 12 |
| %RSD | .4467894 | .2302798 | .5253833 | .4918473 | .3439573 | 13 |
| #1 | 2692.842 | 58866.56 | 12176.78 | 1899.241 | 3951.005 | 14 |
| #2 | 2691.271 | 58828.13 | 12180.21 | 1892.260 | 3944.326 | 15 |
| #3 | 2671.322 | 58615.31 | 12289.62 | 1880.820 | 3924.916 | 16 |

Sample Name: CCV04 Acquired: 1/6/2025 15:48:47 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | 4.863361 | 5.084961 | 4.914062 | 4.852297 | 4.869758 | 9.660711 | 9.491188 |
| StdDev | .022110 | .018917 | .019071 | .023847 | .018758 | .017486 | .038078 |
| %RSD | .4546243 | .3720226 | .3880968 | .4914647 | .3851925 | .1809991 | .4011916 |
| #1 | 4.859198 | 5.093405 | 4.907689 | 4.857529 | 4.861295 | 9.648672 | 9.525306 |
| #2 | 4.843629 | 5.063292 | 4.898994 | 4.826268 | 4.856723 | 9.652694 | 9.450110 |
| #3 | 4.887257 | 5.098186 | 4.935504 | 4.873094 | 4.891257 | 9.680768 | 9.498148 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .2497588 | 2.473996 | 24.38027 | 1.028656 | 2.456634 | 1.227267 | 4.980861 |
| StdDev | .0018958 | .009378 | .07082 | .002137 | .009063 | .006320 | .029459 |
| %RSD | .7590576 | .3790717 | .2904732 | .2077730 | .3689066 | .5149782 | .5914518 |
| #1 | .2489373 | 2.468683 | 24.33407 | 1.031006 | 2.450157 | 1.226607 | 5.001930 |
| #2 | .2484123 | 2.468481 | 24.34493 | 1.026828 | 2.452756 | 1.221302 | 4.993455 |
| #3 | .2519268 | 2.484824 | 24.46180 | 1.028134 | 2.466991 | 1.233891 | 4.947198 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.406587 | 24.62291 | 2.462146 | 1.259415 | 24.15630 | 2.441411 | 2.505636 |
| StdDev | .003118 | .12532 | .009096 | .002501 | .27870 | .006209 | .010045 |
| %RSD | .1295609 | .5089641 | .3694294 | .1985986 | 1.153756 | .2543207 | .4008763 |
| #1 | 2.403191 | 24.52194 | 2.458137 | 1.258892 | 24.36085 | 2.441765 | 2.506860 |
| #2 | 2.409320 | 24.58362 | 2.455743 | 1.262136 | 24.26919 | 2.447436 | 2.515012 |
| #3 | 2.407250 | 24.76317 | 2.472558 | 1.257217 | 23.83886 | 2.435033 | 2.495036 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 24.54879 | 4.906081 | 5.014983 | 4.956477 | 4.814186 | 5.034922 | 4.774238 |
| StdDev | .23945 | .035059 | .016040 | .015497 | .008121 | .006574 | .021618 |
| %RSD | .9754184 | .7146008 | .3198334 | .3126617 | .1686868 | .1305660 | .4528070 |
| #1 | 24.68851 | 4.877277 | 5.010886 | 4.951664 | 4.809975 | 5.035495 | 4.759180 |
| #2 | 24.68557 | 4.895849 | 5.001388 | 4.943958 | 4.823547 | 5.041190 | 4.764525 |
| #3 | 24.27230 | 4.945118 | 5.032673 | 4.973810 | 4.809035 | 5.028080 | 4.799009 |

Sample Name: CCV04 Acquired: 1/6/2025 15:48:47 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV04 Custom ID2: Custom ID3:
 Comment:

| | | | | | |
|--------|----------|----------|----------|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | 1 |
| Units | ppm | ppm | ppm | | 2 |
| Avg | 4.733528 | 4.675424 | 4.854003 | | 3 |
| Stddev | .019498 | .020320 | .057594 | | 4 |
| %RSD | .4119100 | .4346201 | 1.186528 | | 5 |

| | | | | | |
|----|----------|----------|----------|--|---|
| #1 | 4.727023 | 4.675685 | 4.787507 | | 6 |
| #2 | 4.718114 | 4.695612 | 4.888112 | | 7 |
| #3 | 4.755446 | 4.654974 | 4.886390 | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2814.418 | 61112.46 | 11949.20 | 1974.100 | 4138.461 | 11 |
| Stddev | 10.623 | 190.58 | 50.33 | 16.651 | 14.636 | 12 |
| %RSD | .3774625 | .3118497 | .4211711 | .8434865 | .3536549 | 13 |
| #1 | 2816.105 | 60952.21 | 11989.36 | 1973.232 | 4144.729 | 14 |
| #2 | 2824.097 | 61061.96 | 11965.49 | 1957.900 | 4148.919 | 15 |
| #3 | 2803.052 | 61323.20 | 11892.74 | 1991.169 | 4121.735 | 16 |

Sample Name: CCB04 Acquired: 1/6/2025 15:58:11 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0005131 | -.001017 | .0004558 | -.000081 | .0008955 | .0009055 | -.003621 |
| StdDev | .0010077 | .000638 | .0010876 | .001633 | .0010520 | .0065591 | .000600 |
| %RSD | 196.3788 | 62.70922 | 238.5902 | 2005.177 | 117.4777 | 724.3990 | 16.55423 |
| #1 | .0011491 | -.001638 | .0009528 | -.001093 | .0005308 | -.005479 | -.003675 |
| #2 | .0010390 | -.000363 | .0012062 | .001803 | .0020814 | .000569 | -.004193 |
| #3 | -.000649 | -.001051 | -.000791 | -.000954 | .0000744 | .007626 | -.002997 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0000231 | .0000894 | .0157392 | .0000728 | .0000129 | -.000714 | -.005630 |
| StdDev | .0000381 | .0000905 | .0028300 | .0003661 | .0002661 | .000259 | .004416 |
| %RSD | 164.9202 | 101.2592 | 17.98031 | 502.6916 | 2066.658 | 36.26955 | 78.43381 |
| #1 | -.000019 | .0001898 | .0126739 | -.000328 | -.000044 | -.000994 | -.010319 |
| #2 | .000056 | .0000141 | .0182524 | .000389 | -.000220 | -.000667 | -.005020 |
| #3 | .000032 | .0000642 | .0162914 | .000158 | .000303 | -.000482 | -.001551 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | -.001310 | -.000929 | -.000177 | -.000075 | .0377673 | -.000718 | .0000998 |
| StdDev | .000059 | .013511 | .000226 | .000335 | .0101614 | .001522 | .0000711 |
| %RSD | 4.522552 | 1455.093 | 128.2019 | 449.0402 | 26.90536 | 211.9567 | 71.18368 |
| #1 | -.001332 | -.007848 | -.000436 | .000310 | .0265239 | .000337 | .0001099 |
| #2 | -.001356 | .014641 | -.000020 | -.000304 | .0462950 | -.002463 | .0000243 |
| #3 | -.001243 | -.009578 | -.000074 | -.000230 | .0404829 | -.000029 | .0001654 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .0683392 | .0030072 | .0000733 | -.000809 | -.000071 | -.007207 | .0030642 |
| StdDev | .0076353 | .0004094 | .0001676 | .000235 | .000204 | .001413 | .0016680 |
| %RSD | 11.17269 | 13.61407 | 228.8055 | 29.06779 | 285.9473 | 19.60235 | 54.43583 |
| #1 | .0608950 | .0030291 | -.000107 | -.000567 | .000005 | -.005917 | .0019598 |
| #2 | .0679703 | .0025873 | .000225 | -.000823 | .000083 | -.006987 | .0022498 |
| #3 | .0761523 | .0034053 | .000102 | -.001037 | -.000303 | -.008717 | .0049830 |

Sample Name: CCB04 Acquired: 1/6/2025 15:58:11 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB04 Custom ID2: Custom ID3:
 Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.003734 | .0021740 | .0000664 | |
| Stddev | .002586 | .0005545 | .0000087 | |
| %RSD | 69.24200 | 25.50687 | 13.09684 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.001187 | .0017992 | .0000672 | |
| #2 | -.003659 | .0019119 | .0000747 | |
| #3 | -.006357 | .0028110 | .0000574 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2847.065 | 65415.61 | 12877.57 | 2078.293 | 4431.656 |
| Stddev | 7.913 | 99.30 | 18.57 | 1.778 | 11.602 |
| %RSD | .2779452 | .1517917 | .1442122 | .0855585 | .2617957 |
| #1 | 2851.847 | 65312.64 | 12886.65 | 2080.100 | 4436.850 |
| #2 | 2851.416 | 65423.43 | 12889.85 | 2078.234 | 4439.754 |
| #3 | 2837.931 | 65510.77 | 12856.21 | 2076.545 | 4418.365 |

Sample Name: LR1 Acquired: 1/6/2025 16:14:39 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0509210 | .0966654 | .0541393 | -.277737 | -.004129 | 2088.187 | .0100554 |
| StdDev | .0050332 | .0041662 | .0030568 | .011866 | .005247 | 7.290 | .0015636 |
| %RSD | 9.884263 | 4.309914 | 5.646144 | 4.272377 | 127.0569 | .3490950 | 15.54969 |
| #1 | .0558961 | .1011302 | .0539792 | -.283512 | -.003515 | 2096.589 | .0117925 |
| #2 | .0510351 | .0928817 | .0572730 | -.264089 | .000783 | 2084.431 | .0096131 |
| #3 | .0458318 | .0959843 | .0511657 | -.285610 | -.009656 | 2083.541 | .0087606 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .0187812 | .0646535 | 1913.316 | .0000332 | .0357885 | .4488229 | 1050.786 |
| StdDev | .0001262 | .0020122 | 7.179 | .0000813 | .0004473 | .0107864 | 2.095 |
| %RSD | .6721043 | 3.112293 | .3752339 | 244.6559 | 1.249716 | 2.403265 | .1994009 |
| #1 | .0189269 | .0631921 | 1921.253 | .0000171 | .0354557 | .4402522 | 1052.957 |
| #2 | .0187064 | .0638197 | 1907.273 | -.000039 | .0356128 | .4452817 | 1050.625 |
| #3 | .0187102 | .0669485 | 1911.424 | .000121 | .0362969 | .4609347 | 1048.776 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | .0087058 | 1809.514 | .0181691 | -.029161 | 1889.961 | .0846118 | .2690597 |
| StdDev | .0002017 | 6.548 | .0006834 | .000644 | 5.472 | .0001040 | .0015192 |
| %RSD | 2.317345 | .3618904 | 3.761464 | 2.207777 | .2895531 | .1228738 | .5646330 |
| #1 | .0085429 | 1816.942 | .0188455 | -.029899 | 1884.987 | .0847096 | .2676222 |
| #2 | .0086431 | 1807.026 | .0181829 | -.028867 | 1889.072 | .0846231 | .2689077 |
| #3 | .0089315 | 1804.574 | .0174789 | -.028717 | 1895.823 | .0845026 | .2706492 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 1474.971 | ^ ***** | -.012952 | .0191691 | -.036578 | .1323461 | .0920985 |
| StdDev | 8.204 | ----- | .000961 | .0010686 | .000699 | .0032971 | .0085305 |
| %RSD | .5561850 | ----- | 7.416555 | 5.574576 | 1.911324 | 2.491239 | 9.262329 |
| #1 | 1478.427 | ^ ----- | -.013029 | .0200095 | -.037263 | .1345882 | .0844732 |
| #2 | 1480.882 | ^ ----- | -.013871 | .0179665 | -.036606 | .1285604 | .1013111 |
| #3 | 1465.605 | ^ ----- | -.011955 | .0195313 | -.035866 | .1338898 | .0905112 |

Sample Name: LR1 Acquired: 1/6/2025 16:14:39 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | |
|--------|-----------------|-----------------|-----------------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | -.245805 | -.311292 | -1.04020 | |
| Stddev | .009477 | .000740 | .00212 | |
| %RSD | 3.855313 | .2377106 | .2033332 | |

| | | | | |
|----|-----------------|-----------------|-----------------|--|
| #1 | -.252124 | -.311826 | -1.04237 | |
| #2 | -.234909 | -.310447 | -1.04007 | |
| #3 | -.250383 | -.311602 | -1.03815 | |

| | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1855.908 | 41311.76 | 10353.08 | 1270.220 | 2469.307 |
| Stddev | 13.112 | 64.93 | 25.69 | 2.952 | 12.093 |
| %RSD | .7065245 | .1571697 | .2481445 | .2324307 | .4897402 |

| | | | | | |
|----|----------|----------|----------|----------|----------|
| #1 | 1863.608 | 41249.63 | 10327.27 | 1268.445 | 2478.802 |
| #2 | 1863.348 | 41379.17 | 10378.65 | 1273.628 | 2473.426 |
| #3 | 1840.768 | 41306.50 | 10353.32 | 1268.588 | 2455.692 |

Sample Name: LR2 Acquired: 1/6/2025 16:19:36 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | .0107850 | -.018418 | 230.4533 | .0078799 | .0036604 | .0607923 | ^F ***** |
| StdDev | .0063241 | .001033 | 1.6656 | .0023517 | .0009490 | .0045322 | ----- |
| %RSD | 58.63771 | 5.611244 | .7227662 | 29.84386 | 25.92557 | 7.455294 | ----- |
| #1 | .0071379 | -.017250 | 229.3932 | .0055894 | .0036970 | .0626042 | ^ ----- |
| #2 | .0180875 | -.018790 | 232.3731 | .0102883 | .0026937 | .0556344 | ^ ----- |
| #3 | .0071297 | -.019214 | 229.5935 | .0077619 | .0045905 | .0641383 | ^ ----- |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | -.003989 | -.006397 | .6036400 | .0237405 | -.007456 | 245.5588 | -.002288 |
| StdDev | .000063 | .000127 | .0121952 | .0005847 | .000060 | 1.8190 | .005058 |
| %RSD | 1.570897 | 1.981752 | 2.020268 | 2.462754 | .8056443 | .7407398 | 221.1123 |
| #1 | -.003917 | -.006434 | .6172952 | .0231389 | -.007514 | 247.3484 | .002279 |
| #2 | -.004034 | -.006501 | .5997915 | .0237761 | -.007459 | 245.6163 | -.007724 |
| #3 | -.004015 | -.006256 | .5938334 | .0243066 | -.007394 | 243.7118 | -.001417 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 42.84221 | -.053566 | 45.32033 | .0048043 | .4425137 | -.015068 | 35.98051 |
| StdDev | .33526 | .012548 | .31420 | .0004964 | .0177504 | .001094 | .22983 |
| %RSD | .7825444 | 23.42607 | .6932925 | 10.33164 | 4.011270 | 7.258926 | .6387567 |
| #1 | 43.22207 | -.058294 | 45.14617 | .0043333 | .4553158 | -.014165 | 36.23972 |
| #2 | 42.71693 | -.063063 | 45.68305 | .0053227 | .4499747 | -.014755 | 35.90015 |
| #3 | 42.58764 | -.039340 | 45.13178 | .0047569 | .4222506 | -.016284 | 35.80164 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | .5635856 | .0024226 | -.006930 | -.004140 | -.034401 | -.008688 | .2253056 |
| StdDev | .0521490 | .0004615 | .000430 | .000718 | .000295 | .001462 | .0122290 |
| %RSD | 9.253081 | 19.05136 | 6.203633 | 17.33498 | .8564710 | 16.82789 | 5.427744 |
| #1 | .6236105 | .0023514 | -.006658 | -.004937 | -.034062 | -.010340 | .2136431 |
| #2 | .5377299 | .0029157 | -.007425 | -.003938 | -.034548 | -.007561 | .2380316 |
| #3 | .5294164 | .0020008 | -.006706 | -.003545 | -.034593 | -.008164 | .2242421 |

Sample Name: LR2 Acquired: 1/6/2025 16:19:36 Type: Unk

Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000

User: Kareem Custom ID1: Custom ID2: Custom ID3:

Comment:

| | | | | |
|--------|----------|----------|----------|--|
| Elem | S_1820 | Li6707 | Sr4077 | |
| Units | ppm | ppm | ppm | |
| Avg | .0267931 | .0026352 | .0022287 | |
| Stddev | .0047995 | .0006333 | .0000233 | |
| %RSD | 17.91312 | 24.03028 | 1.045341 | |

| | | | | |
|----|----------|----------|----------|--|
| #1 | .0213465 | .0025421 | .0022059 | |
| #2 | .0286301 | .0020537 | .0022525 | |
| #3 | .0304028 | .0033099 | .0022276 | |

| | | | | | |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2368.040 | 61735.87 | 12330.42 | 1929.373 | 4024.862 |
| Stddev | 15.041 | 114.25 | 45.29 | 8.836 | 33.712 |
| %RSD | .6351486 | .1850577 | .3673000 | .4579676 | .8376056 |
| #1 | 2372.969 | 61791.31 | 12343.72 | 1919.895 | 4046.941 |
| #2 | 2351.153 | 61604.48 | 12279.97 | 1930.842 | 3986.057 |
| #3 | 2379.997 | 61811.82 | 12367.57 | 1937.383 | 4041.589 |

Sample Name: CCV05 Acquired: 1/6/2025 16:24:37 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm |
| Avg | 5.043292 | 5.202100 | 5.115423 | 5.040556 | 4.945088 | 9.733865 | 9.423146 |
| StdDev | .009445 | .056722 | .014716 | .015695 | .005977 | .014937 | .090993 |
| %RSD | .1872862 | 1.090370 | .2876877 | .3113806 | .1208613 | .1534502 | .9656335 |
| #1 | 5.039530 | 5.153849 | 5.120834 | 5.023931 | 4.943707 | 9.716971 | 9.328217 |
| #2 | 5.036308 | 5.187867 | 5.098768 | 5.042619 | 4.939922 | 9.745318 | 9.509612 |
| #3 | 5.054039 | 5.264583 | 5.126669 | 5.055118 | 4.951634 | 9.739307 | 9.431608 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm |
| Avg | .2632635 | 2.583479 | 25.04456 | 1.053503 | 2.537754 | 1.266739 | 5.008340 |
| StdDev | .0012191 | .007159 | .04905 | .001398 | .007748 | .004726 | .003458 |
| %RSD | .4630691 | .2771163 | .1958571 | .1327107 | .3053072 | .3730698 | .0690417 |
| #1 | .2629242 | 2.580992 | 25.09161 | 1.052077 | 2.537321 | 1.272163 | 5.010067 |
| #2 | .2646163 | 2.577896 | 25.04835 | 1.054872 | 2.530232 | 1.263512 | 5.010594 |
| #3 | .2622500 | 2.591551 | 24.99373 | 1.053560 | 2.545709 | 1.264540 | 5.004359 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm |
| Avg | 2.455655 | 25.62210 | 2.557186 | 1.276554 | 23.25988 | 2.478385 | 2.497858 |
| StdDev | .003270 | .05517 | .006451 | .003579 | .09069 | .006045 | .007194 |
| %RSD | .1331699 | .2153026 | .2522590 | .2803513 | .3899118 | .2438895 | .2880108 |
| #1 | 2.456707 | 25.59055 | 2.558727 | 1.272451 | 23.31843 | 2.472336 | 2.492150 |
| #2 | 2.458270 | 25.68579 | 2.550105 | 1.279034 | 23.15541 | 2.478394 | 2.505939 |
| #3 | 2.451988 | 25.58994 | 2.562728 | 1.278177 | 23.30579 | 2.484425 | 2.495485 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm |
| Avg | 24.05953 | 5.107860 | 5.028833 | 5.162940 | 4.849756 | 4.969306 | 5.132989 |
| StdDev | .07213 | .029046 | .014772 | .017235 | .009260 | .036756 | .022008 |
| %RSD | .2998020 | .5686454 | .2937390 | .3338241 | .1909362 | .7396662 | .4287507 |
| #1 | 24.02972 | 5.091075 | 5.019493 | 5.155525 | 4.846698 | 4.974559 | 5.121645 |
| #2 | 24.00707 | 5.141399 | 5.021144 | 5.150655 | 4.842412 | 4.930206 | 5.118968 |
| #3 | 24.14178 | 5.091107 | 5.045864 | 5.182642 | 4.860158 | 5.003153 | 5.158354 |

Sample Name: CCV05 Acquired: 1/6/2025 16:24:37 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCV05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|----------|----------|----------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | 5.070589 | 4.598228 | 4.831484 | | | 3 |
| Stddev | .020722 | .004175 | .009954 | | | 4 |
| %RSD | .4086762 | .0907987 | .2060141 | | | 5 |

| | | | | | | |
|----|----------|----------|----------|--|--|---|
| #1 | 5.057078 | 4.598875 | 4.834799 | | | 6 |
| #2 | 5.060242 | 4.593767 | 4.839356 | | | 7 |
| #3 | 5.094448 | 4.602041 | 4.820295 | | | 8 |

| | | | | | | |
|-----------|----------|----------|----------|----------|----------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2684.256 | 58826.96 | 11194.95 | 1951.378 | 3876.100 | 11 |
| Stddev | 3.498 | 79.66 | 51.81 | 3.422 | 1.607 | 12 |
| %RSD | .1303314 | .1354152 | .4628411 | .1753745 | .0414522 | 13 |

| | | | | | | |
|----|----------|----------|----------|----------|----------|----|
| #1 | 2686.789 | 58889.26 | 11192.68 | 1952.862 | 3877.769 | 14 |
| #2 | 2680.265 | 58737.20 | 11144.30 | 1947.465 | 3874.564 | 15 |
| #3 | 2685.715 | 58854.41 | 11247.86 | 1953.808 | 3875.967 | 16 |

Sample Name: CCB05 Acquired: 1/6/2025 16:28:48 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | | |
|--------|-----------|-----------|----------|----------|----------|----------|----------|
| ELEM | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000507 | -.000789 | .0012680 | -.000715 | .0004020 | -.002664 | .0019548 |
| StdDev | .0005240 | .000553 | .0011644 | .000182 | .0001862 | .001274 | .0001828 |
| %RSD | 1033.433 | 70.09077 | 91.82842 | 25.48890 | 46.32547 | 47.81960 | 9.350214 |
| #1 | .0005831 | -.000184 | .0010508 | -.000507 | .0004995 | -.003897 | .0021226 |
| #2 | .0000335 | -.000915 | .0002275 | -.000790 | .0001873 | -.001353 | .0019818 |
| #3 | -.000464 | -.001268 | .0025258 | -.000848 | .0005192 | -.002741 | .0017600 |
| ELEM | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000126 | .0000549 | .0098104 | -.000021 | -.000247 | .0000956 | -.002909 |
| StdDev | .00000420 | .00000671 | .0018418 | .0000203 | .0000029 | .0002258 | .003330 |
| %RSD | 332.6841 | 122.1642 | 18.77445 | 962.4472 | 11.91879 | 236.1605 | 114.4703 |
| #1 | -.0000031 | .0000551 | .0077757 | -.000236 | -.000217 | .0003035 | -.001070 |
| #2 | .0000053 | .0001219 | .0113639 | .000006 | -.000276 | .0001278 | -.000904 |
| #3 | .0000017 | -.000012 | .0102916 | .000167 | -.000248 | -.000145 | -.006753 |
| ELEM | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001075 | .0005754 | -.000002 | -.000309 | .2527097 | -.001332 | .0020481 |
| StdDev | .000126 | .0040039 | .000295 | .000092 | .0074131 | .001143 | .0003878 |
| %RSD | 11.76453 | 695.8262 | 19286.70 | 29.81394 | 2.933425 | 85.82135 | 18.93260 |
| #1 | -.001105 | .0045268 | -.000228 | -.000378 | .2519907 | -.001535 | .0016139 |
| #2 | -.000936 | -.003479 | -.000109 | -.000345 | .2604560 | -.000101 | .0021705 |
| #3 | -.001184 | .000679 | .000333 | -.000205 | .2456823 | -.002359 | .0023599 |
| ELEM | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
| UNITS | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2376128 | .0057815 | .0001476 | -.000623 | .0003168 | -.006809 | .0008088 |
| StdDev | .0252180 | .0007173 | .0003871 | .000099 | .0004727 | .003241 | .0023436 |
| %RSD | 10.61309 | 12.40764 | 262.2541 | 15.87382 | 149.2025 | 47.59062 | 289.7591 |
| #1 | .2411804 | .0059451 | .0002604 | -.000696 | -.000107 | -.006080 | .0002747 |
| #2 | .2108010 | .0064029 | -.000283 | -.000511 | .000231 | -.003996 | .0033734 |
| #3 | .2608571 | .0049965 | .000466 | -.000663 | .000826 | -.010353 | -.001222 |

Sample Name: CCB05 Acquired: 1/6/2025 16:28:48 Type: Unk
 Method: NON EPA-6010-200.7(v2498) Mode: CONC Corr. Factor: 1.000000
 User: Kareem Custom ID1: CCB05 Custom ID2: Custom ID3:
 Comment:

| | | | | | | |
|--------|-----------------|-----------------|-----------------|--|--|---|
| Elem | S_1820 | Li6707 | Sr4077 | | | 1 |
| Units | ppm | ppm | ppm | | | 2 |
| Avg | -.001291 | .0035211 | .0000514 | | | 3 |
| Stddev | .002341 | .0007529 | .0000081 | | | 4 |
| %RSD | 181.3432 | 21.38232 | 15.71614 | | | 5 |

| | | | | | | |
|----|-----------------|-----------------|-----------------|--|--|---|
| #1 | -.001034 | .0029134 | .0000545 | | | 6 |
| #2 | .000911 | .0032865 | .0000574 | | | 7 |
| #3 | -.003749 | .0043633 | .0000422 | | | 8 |

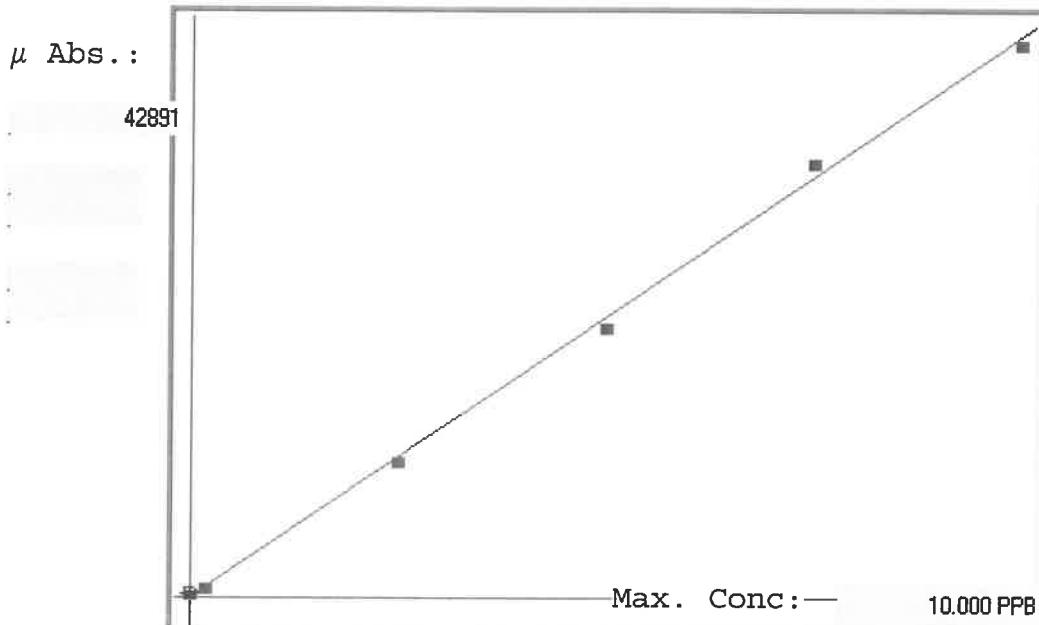
| | | | | | | |
|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|----|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 | 9 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | 10 |
| Avg | 2785.703 | 61365.90 | 11872.36 | 2045.626 | 4176.923 | 11 |
| Stddev | 3.413 | 239.53 | 48.89 | 1.789 | 6.791 | 12 |
| %RSD | .1225258 | .3903257 | .4117555 | .0874719 | .1625941 | 13 |
| #1 | 2783.784 | 61154.49 | 11860.45 | 2047.348 | 4174.353 | 14 |
| #2 | 2789.644 | 61317.17 | 11926.09 | 2043.776 | 4184.624 | 15 |
| #3 | 2783.681 | 61626.05 | 11830.52 | 2045.754 | 4171.791 | 16 |

LB134125

7470A

MEASUREMENT ID: CV1

Linear ▾



| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | %D |
|--------|--------|-------|--------|-------|------------|-------|-------|-------|-------|-------|----|
| 0.0 | 0.000 | 0.068 | 0.068 | 311 | 0.000 | 311 | 0 | | | | -1 |
| 0.2 | 0.200 | 0.194 | -0.006 | 862 | 0.0 % | 862 | | | | | -3 |
| 2.5 | 2.500 | 2.455 | -0.045 | 10682 | 0.0 % | 10682 | | | | | -2 |
| 5.0 | 5.000 | 4.828 | -0.172 | 20984 | 0.0 % | 20984 | | | | | -3 |
| 7.5 | 7.500 | 7.783 | 0.283 | 33822 | 0.0 % | 33822 | | | | | -4 |
| 10.0 | 10.000 | 9.872 | -0.128 | 42891 | 0.0 % | 42891 | | | | | -1 |

LB134125 INSTRUMENT ID : CV1

Method: 7470A Operator: Admin

Date of Analysis: 30 Dec 2024 13:49:42

| Sample ID | Extended ID | μ Abs | Conc. | Stnd Conc/Method | Units | Date | Type | Type |
|-----------------|----------------------------|-----------|---------|------------------|-------|----------------------|------|------|
| 0.0 - 1 | | 311 | - | 0.00007470A | PPB | 30 Dec 2024 13:56:35 | S | Std |
| 0.2 - 1 | 5002 | 862 | - | 0.20007470A | PPB | 30 Dec 2024 13:58:52 | S | Std |
| 2.5 - 1 | 5252 | 10682 | - | 2.50007470A | PPB | 30 Dec 2024 14:01:09 | S | Std |
| 5.0 - 1 | 555 | 20984 | - | 5.00007470A | PPB | 30 Dec 2024 14:06:03 | S | Std |
| 7.5 - 1 | 575 | 33822 | - | 7.50007470A | PPB | 30 Dec 2024 14:16:30 | S | Std |
| 10.0 - 1 | 510 | 42891 | - | 10.00007470A | PPB | 30 Dec 2024 14:25:31 | S | Std |
| ICV38 - 1 | ICV38 | 16249 | 3.7373 | 7470A | PPB | 30 Dec 2024 14:28:17 | U | SMPL |
| ICB38 - 1 | ICB38 | -213 | -0.0531 | 7470A | PPB | 30 Dec 2024 14:30:33 | U | SMPL |
| CCV88 - 1 | CCV88 | 21163 | 4.8687 | 7470A | PPB | 30 Dec 2024 14:32:50 | U | SMPL |
| CCB88 - 1 | CCB88 | -397 | -0.0955 | 7470A | PPB | 30 Dec 2024 14:35:05 | U | SMPL |
| CRA - 1 | CRA | 857 | 0.1933 | 7470A | PPB | 30 Dec 2024 14:37:22 | U | SMPL |
| HighStd - 1 | HighStd | 43142 | 9.9294 | 7470A | PPB | 30 Dec 2024 14:39:37 | U | SMPL |
| ChkStd - 1 | ChkStd | 30668 | 7.0572 | 7470A | PPB | 30 Dec 2024 14:41:52 | U | SMPL |
| PB165912BL - 1 | PBW | -1 | -0.0043 | 7470A | PPB | 30 Dec 2024 14:44:11 | U | SMPL |
| P5362-02 - 1 | WC-SOIL-20241219 | -148 | -0.0381 | 7470A | PPB | 30 Dec 2024 14:48:45 | U | SMPL |
| P5380-02 - 1 | TAPIAL3-IDW-SOIL-122024-T1 | 85 | 0.0165 | 7470A | PPB | 30 Dec 2024 14:51:04 | U | SMPL |
| P5386-02 - 1 | MOO-24-00398 | 80 | 0.0144 | 7470A | PPB | 30 Dec 2024 14:53:21 | U | SMPL |
| P5386-04 - 1 | MOO-24-00395-96 | 485 | 0.1076 | 7470A | PPB | 30 Dec 2024 15:00:46 | U | SMPL |
| P5386-04DUP - 1 | MOO-24-00395-96DUP | 459 | 0.1016 | 7470A | PPB | 30 Dec 2024 15:03:00 | U | SMPL |
| CCV89 - 1 | CCV89 | 21149 | 4.8655 | 7470A | PPB | 30 Dec 2024 15:05:15 | U | SMPL |
| CCB89 - 1 | CCB89 | -185 | -0.0466 | 7470A | PPB | 30 Dec 2024 15:07:30 | U | SMPL |
| P5386-04MS - 1 | MOO-24-00395-96MS | 17663 | 4.0628 | 7470A | PPB | 30 Dec 2024 15:09:47 | U | SMPL |
| P5386-04MSD - 1 | MOO-24-00395-96MSD | 18459 | 4.2461 | 7470A | PPB | 30 Dec 2024 15:12:02 | U | SMPL |
| PB165858TB - 1 | PB165858TB | -66 | -0.0192 | 7470A | PPB | 30 Dec 2024 15:14:19 | U | SMPL |
| P5386-04LX5 - 1 | | 193 | 0.0404 | 7470A | PPB | 30 Dec 2024 15:16:36 | U | SMPL |
| P5386-04A - 1 | | 19290 | 4.4375 | 7470A | PPB | 30 Dec 2024 15:18:52 | U | SMPL |
| PB165912BS - 1 | LCSW | 16357 | 3.7621 | 7470A | PPB | 30 Dec 2024 15:22:26 | U | SMPL |
| CCV90 - 1 | CCV90 | 21325 | 4.9060 | 7470A | PPB | 30 Dec 2024 15:24:59 | U | SMPL |
| CCB90 - 1 | CCB90 | 181 | 0.0376 | 7470A | PPB | 30 Dec 2024 15:27:14 | U | SMPL |

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|-------------------|---------------------|---------------------------|--------------------|
| SOP ID : | M3010A-Digestion-17 | | |
| SDG No : | N/A | Start Digest Date: | 12/27/2024 |
| Matrix : | WATER | End Digest Date: | 12/27/2024 |
| Pipette ID: | ICP A | Digestion tube ID: | M5595 |
| Balance ID : | N/A | Block thermometer ID: | MET-DIG. # 1 |
| Filter paper ID : | N/A | Dig Technician Signature: | <i>SL20</i> |
| pH Strip ID : | M6069 | Supervisor Signature: | <i>[Signature]</i> |
| Hood ID : | #3 | Temp : | 1. 96°C 2. N/A |
| Block ID: | 1. HOT BLOCK #1 | 2. N/A | |

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| LFS-1 | 0.25 | M6000 |
| LFS-2 | 0.25 | M6009 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---------------|----------------|------------|
| Conc. HNO3 | 3.00 | M6126 |
| 1:1 HCL | 5.00 | MP83499 |
| N/A | N/A | N/A |

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL #33 Temp: 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|----------------|---|----------------------------|
| 12/27/24 12:40 | <i>SL20. met digestion</i> | <i>SL20. met digestion</i> |

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---------------|----------------------------|----|------------------|----------------|--------------|-------------|----------------|---------------|-------------|----------|
| P5342-08 | CHRT26634 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 15 |
| P5342-09 | HT2651 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 16 |
| P5362-02 | WC-SOIL-20241219 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 17 |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 18 |
| P5386-02 | MOO-24-00398 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 19 |
| P5386-04 | MOO-24-00395-96 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 20 |
| P5386-04MS | MOO-24-00395-96MS | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6000,M6009 | 22 |
| P5386-04MSD | MOO-24-00395-96MSD | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6000,M6009 | 23 |
| P5386-04DUP | MOO-24-00395-96DUP | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 21 |
| PB165858TB | PB165858TB | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 24 |
| PB165887BL | PBW887 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | N/A | 25 |
| PB165887BS | LCS887 | <2 | 5 | 25 | Colorless | Colorless | Clear | Clear | M6000,M6009 | 26 |

| Sample ID | ClientID | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|------------|----------------------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| P5342-08 | CHRT26634 | 01 | 100.02 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P5342-09 | HT2651 | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.5 | 1.5 | T-1 |
| P5362-02 | WC-SOIL-20241219 | 03 | 100.02 | 2000 | N/A | N/A | N/A | 5.5 | 1.0 | T-1 |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| P5386-02 | MOO-24-00398 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| P5386-04 | MOO-24-00395-96 | 06 | 100.01 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| PB165858TB | LEB858 | 07 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.0 | T-1 |

| | | | | | | | |
|-------------------|-----------------------------|---------------------------|------------|--------|-------|--------|-------|
| SOP ID : | M7470A-Mercury-19 | | | | | | |
| SDG No : | NA | Start Digest Date: | 12/30/2024 | Time : | 13:50 | Temp : | 95 °C |
| Matrix : | WATER | End Digest Date: | 12/30/2024 | Time : | 12:50 | Temp : | 96 °C |
| Pipette ID: | HG A | Digestion tube ID: | M5595 | | | | |
| Balance ID : | N/A | Block thermometer ID: | HG-DIG#3 | | | | |
| Filter paper ID : | NA | Dig Technician Signature: | <i>AB</i> | | | | |
| pH Strip ID : | M6069 | Supervisor Signature: | <i>12</i> | | | | |
| Hood ID : | #1 | Temp : | 1. | 95°C | 2. | N/A | |
| Block ID: | 1. HG HOT BLOCK#3 2. N/A | | | | | | |

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| ICV | 30mL | MP83810 |
| CCV | 30mL | MP83812 |
| CRA | 30mL | MP83814 |
| Blank Spike | 0.48mL | MP83803 |
| Matrix Spike | 0.48mL | MP83803 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|-------------------------|----------------|------------|
| HNO3/H2SO4(1:2) | 2.5mL | MP83691 |
| KMnO4 (5%) | 4.5mL | MP83692 |
| K2S2O8 (5%) | 2.5mL | MP83693 |
| Hydroxylamine HCL (12%) | 2.mL | MP83694 |
| N/A | N/A | N/A |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---------------|------------------|---------------|---------|
| 0.0 ppb | S0 | 30mL | MP83804 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP83805 |
| 2.5 ppb | S2.5 | 30mL | MP83806 |
| 5.0 ppb | S5.0 | 30mL | MP83807 |
| 7.5 ppb | S7.5 | 30mL | MP83808 |
| 10.0 ppb | S10.0 | 30mL | MP83809 |
| ICV | ICV | 30mL | MP83810 |
| ICB | ICB | 30mL | MP83811 |
| CCV | CCV | 30mL | MP83812 |
| CCB | CCB | 30mL | MP83813 |
| CRI | CRI | 30mL | MP83814 |
| CHK STD | CHK STD | 30mL | MP83815 |

Extraction Conformance/Non-Conformance Comments:

| | | |
|-----------------|---|----------------------|
| N/A | Prepped Sample Relinquished By/Location | Received By/Location |
| 12/30/24 13:000 | mg - Sng + Lab | asg - osctal lab |
| 13:00 | Preparation Group | Analysis Group |

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---------------|----------------------------|------------------|----------------|----|---------|----------|
| P5362-02 | WC-SOIL-20241219 | 3 | 30 | <2 | N/A | 3-1 |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | 3 | 30 | <2 | N/A | 2 |
| P5386-02 | MOO-24-00398 | 3 | 30 | <2 | N/A | 3 |
| P5386-04 | MOO-24-00395-96 | 3 | 30 | <2 | N/A | 4 |
| P5386-04DUP | MOO-24-00395-96DUP | 3 | 30 | <2 | N/A | 5 |
| P5386-04MS | MOO-24-00395-96MS | 3 | 30 | <2 | MP83803 | 6 |
| P5386-04MSD | MOO-24-00395-96MSD | 3 | 30 | <2 | MP83803 | 7 |
| PB165858TB | PB165858TB | 3 | 30 | <2 | N/A | 8 |
| PB165912BL | PBW912 | 30 | 30 | <2 | N/A | 9 |
| PB165912BS | LCS912 | 30 | 30 | <2 | MP83803 | 10 |



TCLP EXTRACTION LOGPAGE

PB165858

SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : T-1
TCLP Filter ID : 114771

Start Prep Date : 12/26/2024 **Time :** 16:00
End Prep Date : 12/27/2024 **Time :** 10:15
Combination Ratio : 20
ZHE Cleaning Batch : N/A
Initial Room Temperature: 22 °C
Final Room Temperature: 21 °C
TCLP Technician Signature : *JP*
Supervisor By : *12*

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|----------------------|-------------|-------------------------------------|
| TCLP-FLUID-1 | N/A | WP110801 |
| HCL-TCLP,1N | N/A | WP110803 |
| HNO3-TCLP,1N | N/A | WP110804 |
| pH Strips | N/A | W1931,W1934,W2350,W2755 |
| pH Strips | N/A | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber | N/A | 90424-08 |
| 120ml Plastic bottle | N/A | 405130101 |
| 1:1 HNO3 | N/A | MP83122 |

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. Tumbler T-1 checked, 30 rpm. p5386-04 is used for MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---------------------------|---|---|
| 12/26/2024 10:00 10:30 | JP Preparation Group | SRG. 15-X-1 Analysis Group Metals 14 |

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134125

| | | | |
|------------------|---|--------------|------------------------|
| Review By | jaswal | Review On | 12/30/2024 10:38:51 PM |
| Supervise By | mohan | Supervise On | 12/30/2024 10:39:44 PM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83804,MP83805,MP83806,MP83807,MP83808,MP83809 | | |
| ICV Standard | MP83810 | | |
| CCV Standard | MP83812 | | |
| ICSA Standard | MP83814 | | |
| CRI Standard | MP83811,MP83813,MP83815,MP83817 | | |
| LCS Standard | | | |
| Chk Standard | | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|------------|--------------------|----------|----------------|---------|----------|--------|
| 1 | S0 | S0 | CAL1 | 12/30/24 13:56 | | Mohan | OK |
| 2 | S0.2 | S0.2 | CAL2 | 12/30/24 13:58 | | Mohan | OK |
| 3 | S2.5 | S2.5 | CAL3 | 12/30/24 14:01 | | Mohan | OK |
| 4 | S5 | S5 | CAL4 | 12/30/24 14:06 | | Mohan | OK |
| 5 | S7.5 | S7.5 | CAL5 | 12/30/24 14:16 | | Mohan | OK |
| 6 | S10 | S10 | CAL6 | 12/30/24 14:25 | | Mohan | OK |
| 7 | ICV38 | ICV38 | ICV | 12/30/24 14:28 | | Mohan | OK |
| 8 | ICB38 | ICB38 | ICB | 12/30/24 14:30 | | Mohan | OK |
| 9 | CCV88 | CCV88 | CCV | 12/30/24 14:32 | | Mohan | OK |
| 10 | CCB88 | CCB88 | CCB | 12/30/24 14:35 | | Mohan | OK |
| 11 | CRA | CRA | CRDL | 12/30/24 14:37 | | Mohan | OK |
| 12 | HighStd | HighStd | HIGH STD | 12/30/24 14:39 | | Mohan | OK |
| 13 | ChkStd | ChkStd | SAM | 12/30/24 14:41 | | Mohan | OK |
| 14 | PB165912BL | PB165912BL | MB | 12/30/24 14:44 | | Mohan | OK |
| 15 | P5362-02 | WC-SOIL-20241219 | SAM | 12/30/24 14:48 | | Mohan | OK |
| 16 | P5380-02 | TAPIAL3-IDW-SOIL-1 | SAM | 12/30/24 14:51 | | Mohan | OK |
| 17 | P5386-02 | MOO-24-00398 | SAM | 12/30/24 14:53 | | Mohan | OK |
| 18 | P5386-04 | MOO-24-00395-96 | SAM | 12/30/24 15:00 | | Mohan | OK |

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134125

| | | | |
|--------------|--------|--------------|------------------------|
| Review By | jaswal | Review On | 12/30/2024 10:38:51 PM |
| Supervise By | mohan | Supervise On | 12/30/2024 10:39:44 PM |

| STD. NAME | STD REF.# |
|---------------|---|
| ICAL Standard | MP83804,MP83805,MP83806,MP83807,MP83808,MP83809 |
| ICV Standard | MP83810 |
| CCV Standard | MP83812 |
| ICSA Standard | |
| CRI Standard | MP83814 |
| LCS Standard | |
| Chk Standard | MP83811,MP83813,MP83815,MP83817 |

| | | | | | | | |
|----|-------------|--------------------|-----|----------------|--|-------|----|
| 19 | P5386-04DUP | MOO-24-00395-96DU | DUP | 12/30/24 15:03 | | Mohan | OK |
| 20 | CCV89 | CCV89 | CCV | 12/30/24 15:05 | | Mohan | OK |
| 21 | CCB89 | CCB89 | CCB | 12/30/24 15:07 | | Mohan | OK |
| 22 | P5386-04MS | MOO-24-00395-96MS | MS | 12/30/24 15:09 | | Mohan | OK |
| 23 | P5386-04MSD | MOO-24-00395-96MSD | MSD | 12/30/24 15:12 | | Mohan | OK |
| 24 | PB165858TB | PB165858TB | MB | 12/30/24 15:14 | | Mohan | OK |
| 25 | P5386-04L | MOO-24-00395-96L | SD | 12/30/24 15:16 | | Mohan | OK |
| 26 | P5386-04A | MOO-24-00395-96A | PS | 12/30/24 15:18 | | Mohan | OK |
| 27 | PB165912BS | PB165912BS | LCS | 12/30/24 15:22 | | Mohan | OK |
| 28 | CCV90 | CCV90 | CCV | 12/30/24 15:24 | | Mohan | OK |
| 29 | CCB90 | CCB90 | CCB | 12/30/24 15:27 | | Mohan | OK |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134129

| | | | |
|---------------|---|--------------|------------------------|
| Review By | kareem | Review On | 12/31/2024 7:20:20 PM |
| Supervise By | mohan | Supervise On | 12/31/2024 11:26:17 PM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552,MP83553,MP83554,MP83555,MP83556,MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560,MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565,MP83566 | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|----------|-----------|--------|----------------|---------|----------|--------|
| 1 | S0 | S0 | CAL1 | 12/30/24 13:54 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 12/30/24 13:58 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 12/30/24 14:03 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 12/30/24 14:07 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 12/30/24 14:11 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 12/30/24 14:15 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 12/30/24 14:20 | | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 12/30/24 14:24 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 12/30/24 14:28 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 12/30/24 14:32 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 12/30/24 14:37 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 12/30/24 14:45 | | Kareem | OK |
| 13 | CCV01 | CCV01 | CCV | 12/30/24 14:49 | | Kareem | OK |
| 14 | CCB01 | CCB01 | CCB | 12/30/24 14:53 | | Kareem | OK |
| 15 | P5342-08 | CHRT26634 | SAM | 12/30/24 14:58 | | Kareem | OK |
| 16 | P5342-09 | HT2651 | SAM | 12/30/24 15:02 | | Kareem | OK |
| 17 | P5382-01 | COMP-1 | SAM | 12/30/24 15:06 | | Kareem | OK |
| 18 | P5382-02 | COMP-2 | SAM | 12/30/24 15:11 | | Kareem | OK |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134129

| | | | |
|------------------|---|--------------|------------------------|
| Review By | kareem | Review On | 12/31/2024 7:20:20 PM |
| Supervise By | mohan | Supervise On | 12/31/2024 11:26:17 PM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552,MP83553,MP83554,MP83555,MP83556,MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560,MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565,MP83566 | | |

| | | | | | | | |
|----|-------------|-------------------|-----|----------------|---|--------|----|
| 19 | P5382-03 | COMP-3 | SAM | 12/30/24 15:15 | | Kareem | OK |
| 20 | CCV02 | CCV02 | CCV | 12/30/24 15:19 | | Kareem | OK |
| 21 | CCB02 | CCB02 | CCB | 12/30/24 15:23 | | Kareem | OK |
| 22 | P5362-01 | WC-SOIL-20241219 | SAM | 12/30/24 15:28 | | Kareem | OK |
| 23 | P5362-01DUP | WC-SOIL-20241219D | DUP | 12/30/24 15:35 | | Kareem | OK |
| 24 | P5362-01L | WC-SOIL-20241219L | SD | 12/30/24 15:39 | | Kareem | OK |
| 25 | P5362-01MS | WC-SOIL-20241219M | MS | 12/30/24 15:43 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 26 | P5362-01MSD | WC-SOIL-20241219M | MSD | 12/30/24 15:47 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 27 | P5362-01A | WC-SOIL-20241219A | PS | 12/30/24 15:51 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 28 | P5386-01 | MOO-24-00398 | SAM | 12/30/24 15:55 | | Kareem | OK |
| 29 | P5386-03 | MOO-24-00395-96 | SAM | 12/30/24 15:59 | | Kareem | OK |
| 30 | P5318-01 | AU-06-122024 | SAM | 12/30/24 16:03 | | Kareem | OK |
| 31 | P5387-01 | TR-05-122624 | SAM | 12/30/24 16:08 | | Kareem | OK |
| 32 | CCV03 | CCV03 | CCV | 12/30/24 16:12 | | Kareem | OK |
| 33 | CCB03 | CCB03 | CCB | 12/30/24 16:16 | | Kareem | OK |
| 34 | PB165863BL | PB165863BL | MB | 12/30/24 16:20 | | Kareem | OK |
| | | | | | | | |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134129

| | | | |
|------------------|---|--------------|------------------------|
| Review By | kareem | Review On | 12/31/2024 7:20:20 PM |
| Supervise By | mohan | Supervise On | 12/31/2024 11:26:17 PM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552,MP83553,MP83554,MP83555,MP83556,MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560,MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565,MP83566 | | |

| | | | | | | | |
|----|-------------|--------------------|-----|----------------|---|--------|--------|
| 35 | PB165863BS | PB165863BS | LCS | 12/30/24 16:25 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 36 | P5362-02 | WC-SOIL-20241219 | SAM | 12/30/24 16:29 | | Kareem | OK |
| 37 | P5380-02 | TAPIAL3-IDW-SOIL-1 | SAM | 12/30/24 16:33 | | Kareem | OK |
| 38 | P5386-02 | MOO-24-00398 | SAM | 12/30/24 16:38 | | Kareem | OK |
| 39 | P5386-04 | MOO-24-00395-96 | SAM | 12/30/24 16:42 | | Kareem | OK |
| 40 | P5386-04DUP | MOO-24-00395-96DU | DUP | 12/30/24 16:47 | | Kareem | OK |
| 41 | P5386-04L | MOO-24-00395-96L | SD | 12/30/24 16:51 | | Kareem | OK |
| 42 | P5386-04MS | MOO-24-00395-96MS | MS | 12/30/24 16:55 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 43 | P5386-04MSD | MOO-24-00395-96MSD | MSD | 12/30/24 16:59 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 44 | CCV04 | CCV04 | CCV | 12/30/24 17:04 | | Kareem | OK |
| 45 | CCB04 | CCB04 | CCB | 12/30/24 17:08 | | Kareem | OK |
| 46 | P5386-04A | MOO-24-00395-96A | PS | 12/30/24 17:12 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 47 | PB165858TB | PB165858TB | MB | 12/30/24 17:16 | NOT USE | Kareem | Not Ok |
| 48 | PB165887BL | PB165887BL | MB | 12/30/24 17:21 | NOT USE | Kareem | Not Ok |
| 49 | PB165887BS | PB165887BS | LCS | 12/30/24 17:25 | NOT USE | Kareem | Not Ok |
| 50 | P5356-01 | STAND-PIPE | SAM | 12/30/24 17:29 | | Kareem | OK |
| 51 | P5356-01DUP | STAND-PIPEDUP | DUP | 12/30/24 17:33 | | Kareem | OK |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134129

| | | | |
|------------------|---|--------------|------------------------|
| Review By | kareem | Review On | 12/31/2024 7:20:20 PM |
| Supervise By | mohan | Supervise On | 12/31/2024 11:26:17 PM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552,MP83553,MP83554,MP83555,MP83556,MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560,MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565,MP83566 | | |

| | | | | | | | |
|----|-------------|-------------------|-----|----------------|---|--------|----|
| 52 | P5356-01L | STAND-PIPEL | SD | 12/30/24 17:38 | | Kareem | OK |
| 53 | P5356-01MS | STAND-PIPEMS | MS | 12/30/24 17:42 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 54 | P5356-01MSD | STAND-PIPEMSD | MSD | 12/30/24 17:46 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 55 | P5356-01A | STAND-PIPEA | PS | 12/30/24 17:50 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 56 | CCV05 | CCV05 | CCV | 12/30/24 17:54 | | Kareem | OK |
| 57 | CCB05 | CCB05 | CCB | 12/30/24 17:58 | | Kareem | OK |
| 58 | P5377-02DL | GAS-TRE-1114DL | SAM | 12/30/24 18:02 | Confirm wt/vol | Kareem | OK |
| 59 | P5386-05 | MOO-24-00397 | SAM | 12/30/24 18:07 | | Kareem | OK |
| 60 | PB165879BL | PB165879BL | MB | 12/30/24 18:11 | | Kareem | OK |
| 61 | PB165879BS | PB165879BS | LCS | 12/30/24 18:15 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 62 | P5390-01 | EO-01-12272024 | SAM | 12/30/24 18:19 | | Kareem | OK |
| 63 | P5391-01 | NB-07-12272024 | SAM | 12/30/24 18:23 | | Kareem | OK |
| 64 | P5391-01DUP | NB-07-12272024DUP | DUP | 12/30/24 18:28 | | Kareem | OK |
| 65 | P5391-01L | NB-07-12272024L | SD | 12/30/24 18:32 | | Kareem | OK |
| 66 | P5391-01MS | NB-07-12272024MS | MS | 12/30/24 18:36 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| | | | | | | | |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134129

| | | | |
|------------------|---|--------------|------------------------|
| Review By | kareem | Review On | 12/31/2024 7:20:20 PM |
| Supervise By | mohan | Supervise On | 12/31/2024 11:26:17 PM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552,MP83553,MP83554,MP83555,MP83556,MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560,MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565,MP83566 | | |

| | | | | | | | |
|----|-------------|-------------------|----------|----------------|---|--------|----|
| 67 | P5391-01MSD | NB-07-12272024MSD | MSD | 12/30/24 18:40 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 68 | CCV06 | CCV06 | CCV | 12/30/24 18:44 | | Kareem | OK |
| 69 | CCB06 | CCB06 | CCB | 12/30/24 18:48 | | Kareem | OK |
| 70 | P5391-01A | NB-07-12272024A | PS | 12/30/24 18:53 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 71 | PB165917BL | PB165917BL | MB | 12/30/24 18:57 | | Kareem | OK |
| 72 | PB165917BS | PB165917BS | LCS | 12/30/24 19:01 | 0.1ml of m6010 and m6001 were added to 10ml of the sample | Kareem | OK |
| 73 | LR1 | LR1 | HIGH STD | 12/30/24 19:14 | | Kareem | OK |
| 74 | LR2 | LR2 | HIGH STD | 12/30/24 19:19 | | Kareem | OK |
| 75 | CCV07 | CCV07 | CCV | 12/30/24 19:24 | | Kareem | OK |
| 76 | CCB07 | CCB07 | CCB | 12/30/24 19:31 | | Kareem | OK |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134166

| | | | |
|------------------|---|--------------|---------------------|
| Review By | kareem | Review On | 1/8/2025 3:32:20 PM |
| Supervise By | jaswal | Supervise On | 1/9/2025 1:56:20 AM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552 MP83553 MP83554 MP83555 MP83556 MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560 MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565 MP8366 | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|----------|----------|--------|----------------|---------|----------|--------|
| 1 | S0 | S0 | CAL1 | 01/06/25 12:34 | | Kareem | OK |
| 2 | S1 | S1 | CAL2 | 01/06/25 12:39 | | Kareem | OK |
| 3 | S2 | S2 | CAL3 | 01/06/25 12:43 | | Kareem | OK |
| 4 | S3 | S3 | CAL4 | 01/06/25 12:47 | | Kareem | OK |
| 5 | S4 | S4 | CAL5 | 01/06/25 12:51 | | Kareem | OK |
| 6 | S5 | S5 | CAL6 | 01/06/25 12:55 | | Kareem | OK |
| 7 | ICV01 | ICV01 | ICV | 01/06/25 13:00 | | Kareem | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 01/06/25 13:13 | | Kareem | OK |
| 9 | ICB01 | ICB01 | ICB | 01/06/25 13:17 | | Kareem | OK |
| 10 | CRI01 | CRI01 | CRDL | 01/06/25 13:21 | | Kareem | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 01/06/25 13:26 | | Kareem | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 01/06/25 13:34 | | Kareem | OK |
| 13 | CCV01 | CCV01 | CCV | 01/06/25 13:43 | | Kareem | OK |
| 14 | CCB01 | CCB01 | CCB | 01/06/25 13:53 | | Kareem | OK |
| 15 | P5398-01 | 341-349 | SAM | 01/06/25 13:57 | | Kareem | OK |
| 16 | P5398-03 | 352 | SAM | 01/06/25 14:01 | | Kareem | OK |
| 17 | P5398-05 | 352 | SAM | 01/06/25 14:06 | | Kareem | OK |
| 18 | P5398-02 | 341-349 | SAM | 01/06/25 14:11 | | Kareem | OK |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134166

| | | | |
|------------------|---|--------------|---------------------|
| Review By | Kareem | Review On | 1/8/2025 3:32:20 PM |
| Supervise By | Jaswal | Supervise On | 1/9/2025 1:56:20 AM |
| STD. NAME | STD REF.# | | |
| ICAL Standard | MP83552 MP83553 MP83554 MP83555 MP83556 MP83558 | | |
| ICV Standard | MP83559 | | |
| CCV Standard | MP83562 | | |
| ICSA Standard | MP83560 MP83561 | | |
| CRI Standard | MP83558 | | |
| LCS Standard | | | |
| Chk Standard | MP83565 MP8366 | | |

| | | | | | | | |
|----|-------------|------------|-----|----------------|---|--------|----|
| 19 | CCV02 | CCV02 | CCV | 01/06/25 14:15 | | Kareem | OK |
| 20 | CCB02 | CCB02 | CCB | 01/06/25 14:19 | | Kareem | OK |
| 21 | PB165946BL | PB165946BL | MB | 01/06/25 14:23 | | Kareem | OK |
| 22 | PB165946BS | PB165946BS | LCS | 01/06/25 14:28 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 23 | PB165887BL | PB165887BL | MB | 01/06/25 14:32 | | Kareem | OK |
| 24 | PB165887BS | PB165887BS | LCS | 01/06/25 14:36 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 25 | PB165940BL | PB165940BL | MB | 01/06/25 14:40 | | Kareem | OK |
| 26 | PB165940BS | PB165940BS | LCS | 01/06/25 14:44 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 27 | PB165934TB | PB165934TB | MB | 01/06/25 14:48 | | Kareem | OK |
| 28 | PB165858TB | PB165858TB | MB | 01/06/25 14:53 | | Kareem | OK |
| 29 | P5398-01DUP | 341-349DUP | DUP | 01/06/25 14:57 | | Kareem | OK |
| 30 | P5398-01L | 341-349L | SD | 01/06/25 15:02 | | Kareem | OK |
| 31 | CCV03 | CCV03 | CCV | 01/06/25 15:06 | | Kareem | OK |
| 32 | CCB03 | CCB03 | CCB | 01/06/25 15:10 | | Kareem | OK |
| 33 | P5398-01MS | 341-349MS | MS | 01/06/25 15:14 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 34 | P5398-01MSD | 341-349MSD | MSD | 01/06/25 15:19 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134166

| | | | |
|--------------|--------|--------------|---------------------|
| Review By | kareem | Review On | 1/8/2025 3:32:20 PM |
| Supervise By | jaswal | Supervise On | 1/9/2025 1:56:20 AM |

| STD. NAME | STD REF.# |
|---------------|---|
| ICAL Standard | MP83552 MP83553 MP83554 MP83555 MP83556 MP83558 |
| ICV Standard | MP83559 |
| CCV Standard | MP83562 |
| ICSA Standard | MP83560 MP83561 |
| CRI Standard | MP83558 |
| LCS Standard | |
| Chk Standard | MP83565 MP8366 |

| | | | | | | | |
|----|-------------|------------|----------|----------------|---|--------|----|
| 35 | P5398-01A | 341-349A | PS | 01/06/25 15:23 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 36 | P5398-02DUP | 341-349DUP | DUP | 01/06/25 15:27 | | Kareem | OK |
| 37 | P5398-02L | 341-349L | SD | 01/06/25 15:32 | | Kareem | OK |
| 38 | P5398-02MS | 341-349MS | MS | 01/06/25 15:36 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 39 | P5398-02MSD | 341-349MSD | MSD | 01/06/25 15:40 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 40 | P5398-02A | 341-349A | PS | 01/06/25 15:44 | 01ml of m6001 and m6010 were added to 10 ml of sample | Kareem | OK |
| 41 | CCV04 | CCV04 | CCV | 01/06/25 15:48 | | Kareem | OK |
| 42 | CCB04 | CCB04 | CCB | 01/06/25 15:58 | | Kareem | OK |
| 43 | LR1 | LR1 | HIGH STD | 01/06/25 16:14 | | Kareem | OK |
| 44 | LR2 | LR2 | HIGH STD | 01/06/25 16:19 | | Kareem | OK |
| 45 | CCV05 | CCV05 | CCV | 01/06/25 16:24 | | Kareem | OK |
| 46 | CCB05 | CCB05 | CCB | 01/06/25 16:28 | | Kareem | OK |

SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : T-1
TCLP Filter ID : 114771

Start Prep Date : 12/26/2024 **Time :** 16:00
End Prep Date : 12/27/2024 **Time :** 10:15
Combination Ratio : 20
ZHE Cleaning Batch : N/A
Initial Room Temperature: 22 °C
Final Room Temperature: 21 °C
TCLP Technician Signature : *16*
Supervisor By : *12*

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE U | Lot Number |
|----------------------|-------------|-------------------------------------|
| TCLP-FLUID-1 | N/A | WP110801 |
| HCL-TCLP,1N | N/A | WP110803 |
| HNO3-TCLP,1N | N/A | WP110804 |
| pH Strips | N/A | W1931,W1934,W2350,W2755 |
| pH Strips | N/A | W1937,W1938,W1939,W1940,W1941,W1942 |
| 1 Liter Amber | N/A | 90424-08 |
| 120ml Plastic bottle | N/A | 405130101 |
| 1:1 HNO3 | N/A | MP83122 |

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. Tumbler T-1 checked, 30 rpm. p5386-04 is used for MS-MSD.

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|------------------|---|----------------------|
| 12/26/2024 10:00 | JP Rep Room | S129. 1C-X1 |
| 10:30 | Preparation Group | Analysis Group |

| Sample ID | ClientID | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|------------|----------------------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| P5342-08 | CHRT26634 | 01 | 100.02 | 2000 | N/A | N/A | N/A | 4.0 | 1.0 | T-1 |
| P5342-09 | HT2651 | 02 | 100.03 | 2000 | N/A | N/A | N/A | 3.5 | 1.5 | T-1 |
| P5362-02 | WC-SOIL-20241219 | 03 | 100.02 | 2000 | N/A | N/A | N/A | 5.5 | 1.0 | T-1 |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | 04 | 100.03 | 2000 | N/A | N/A | N/A | 7.2 | 1.5 | T-1 |
| P5386-02 | MOO-24-00398 | 05 | 100.02 | 2000 | N/A | N/A | N/A | 4.5 | 1.0 | T-1 |
| P5386-04 | MOO-24-00395-96 | 06 | 100.01 | 2000 | N/A | N/A | N/A | 4.5 | 1.5 | T-1 |
| PB165858TB | LEB858 | 07 | N/A | 2000 | N/A | N/A | N/A | 4.93 | 1.0 | T-1 |

| SampleID | ClientID | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|-----------------|----------------------------|--------------------------|--------------------------|----------------------|-------------------------------------|-----------------|---------------------|
| P5342-08 | CHRT26634 | N/A | N/A | N/A | N/A | 100 | N/A |
| P5342-09 | HT2651 | N/A | N/A | N/A | N/A | 100 | N/A |
| P5362-02 | WC-SOIL-20241219 | N/A | N/A | N/A | N/A | 100 | N/A |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | N/A | N/A | N/A | N/A | 100 | N/A |
| P5386-02 | MOO-24-00398 | N/A | N/A | N/A | N/A | 100 | N/A |
| P5386-04 | MOO-24-00395-96 | N/A | N/A | N/A | N/A | 100 | N/A |
| PB165858TB | LEB858 | N/A | N/A | N/A | N/A | N/A | N/A |

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Hot Block ID : WC S-1 /WC S-2
Thermometer ID : FLASHPOINT

| SampleID | ClientID | Sample Weight (g) | Volume DI Water (mL) | pH after 5 min stir | pH after 10 min stir | Extraction Fluid 1 or 2 | pH Extraction Fluid |
|-----------------|----------------------------|--------------------------|-----------------------------|----------------------------|-----------------------------|--------------------------------|----------------------------|
| P5342-08 | CHRT26634 | 5.02 | 96.5 | 6.6 | 2.5 | #1 | 4.93 |
| P5342-09 | HT2651 | 5.03 | 96.5 | 6.2 | 2.5 | #1 | 4.93 |
| P5362-02 | WC-SOIL-20241219 | 5.02 | 96.5 | 7.6 | 3.0 | #1 | 4.93 |
| P5380-02 | TAPIAL3-IDW-SOIL-122024-T1 | 5.01 | 96.5 | 10.5 | 4.0 | #1 | 4.93 |
| P5386-02 | MOO-24-00398 | 5.02 | 96.5 | 6.8 | 2.5 | #1 | 4.93 |
| P5386-04 | MOO-24-00395-96 | 5.00 | 96.5 | 7.0 | 2.5 | #1 | 4.93 |
| PB165858TB | LEB858 | N/A | N/A | N/A | N/A | #1 | 4.93 |

Prep Standard - Chemical Standard Summary

Order ID : P5380

Test : TCLP ICP Metals,TCLP Mercury

Prepbatch ID : PB165887,PB165912,

Sequence ID/Qc Batch ID: LB134125,LB134129,LB134129,LB134129,LB134166,

Standard ID :

MP83499,MP83500,MP83552,MP83552 MP83553 MP83554 MP83555 MP83556
MP83558,MP83557,MP83559,MP83560,MP83560 MP83561,MP83562,MP83565,MP83565
MP8366,MP83566,MP83691,MP83692,MP83693,MP83694,MP83803,MP83804,MP83805,MP83806,MP83807,MP8380
8,MP83809,MP83810,MP83811,MP83812,MP83813,MP83814,MP83815,MP83817,

Chemical ID :

M4371,M4465,M4916,M5062,M5130,M5192,M5218,M5223,M5288,M5295,M5296,M5390,M5393,M5429,M5466,M5467
,M5497,M5515,M5658,M5697,M5698,M5747,M5748,M5768,M5798,M5799,M5800,M5801,M5802,M5806,M5814,M581
5,M5816,M5817,M5818,M5819,M5820,M5875,M5882,M5884,M5953,M5959,M5962,M5970,M5978,M5982,M5985,M60
00,M6009,M6021,M6023,M6028,M6030,M6033,M6041,M6121,M6126,W3112,

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 170 | 1:1HCL | MP83499 | 12/09/2024 | 01/17/2025 | Eman Mughal | None | None | Sarabjit Jaswal 12/09/2024 |

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

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 902 | ICP AES CAL BLK (SO/ICB/CCB) | MP83500 | 12/06/2024 | 01/14/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

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

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 514 | CAL BLK (S0/ICB/CCB) | MP83552 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

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

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 2950 | ICP AES S1/CRI STOCK STD | MP83557 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

FROM 0.00600ml of M5816 + 0.03000ml of M5798 + 0.03000ml of M6028 + 0.05000ml of M5515 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6033 + 0.06000ml of M5747 + 0.10000ml of M5697 + 0.10000ml of M5698 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M5982 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M5819 + 0.20000ml of M5978 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.25000ml of M5467 + 0.25000ml of M5802 + 0.50000ml of M5390 + 0.50000ml of M5814 + 1.00000ml of M5192 + 1.00000ml of M5288 + 1.00000ml of M5497 + 1.00000ml of M5768 + 1.00000ml of M5806 + 2.00000ml of M5818 + 77.68000ml of MP83500 = Final Quantity: 100.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 912 | ICP AES ICV SOLN | MP83559 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

FROM 0.02500ml of M5429 + 0.02500ml of M5815 + 0.02500ml of M5817 + 0.10000ml of M5466 + 0.25000ml of M5218 + 0.25000ml of M5982 + 10.00000ml of M5295 + 89.77500ml of MP83500 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 904 | ICP AES ICSA SOLN | MP83560 | 12/06/2024 | 12/28/2024 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

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

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 911 | ICP AES CCV SOLN | MP83562 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

FROM 50.00000ml of MP83500 + 50.00000ml of MP83553 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 919 | ICP AES INTERNAL STD | MP83565 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

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

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 903 | ICP AES RINSE SOLN | MP83566 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/11/2024 |

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

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 3965 | 2:1 H2SO4 : HNO3 | MP83691 | 12/18/2024 | 06/03/2025 | Mohan Bera | None | None | Sarabjit Jaswal 12/18/2024 |

FROM 1600.00000ml of M6041 + 800.00000ml of M6126 = Final Quantity: 3200.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|-------------------------|------------------|-------------------------------|
| 65 | POTASSIUM PERMANGANATE SOLUTION 5 % | MP83692 | 12/18/2024 | 06/18/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 12/18/2024 |

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------|-------------------------|------------------|------------------------|--------------------|-------------------------|------------------|-------------------------------|
| 66 | POTASSIUM PERSULFATE SOLUTION 5 % | MP83693 | 12/18/2024 | 06/18/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 12/18/2024 |

FROM 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|---|-------------------------|------------------|------------------------|--------------------|-------------------------|------------------|-------------------------------|
| 67 | SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION | MP83694 | 12/18/2024 | 06/18/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 12/18/2024 |
| <u>FROM</u> 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml | | | | | | | | |
| | | | | | | | | |

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|--|--|-------------------------|------------------|------------------------|--------------------|----------------|-------------------------|-------------------------------|
| 871 | MERCURY INTERMEDIATE B 250PPB WORKING STD. | MP83803 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HG A) | Sarabjit Jaswal 12/30/2024 |
| <u>FROM</u> 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml | | | | | | | | |
| | | | | | | | | |

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------------|-------------------------------------|
| 1340 | Hg 0.00 PPB STD | MP83804 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------------|-------------------------------------|
| 1341 | Hg 0.2 PPB STD | MP83805 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83803 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------------|-------------------------------------|
| 1342 | Hg 2.5 PPB STD | MP83806 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP83803 = Final Quantity: 250.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------------|-------------------------------------|
| 1343 | Hg 5.0 PPB STD | MP83807 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP83803 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------|-------------------------|------------------|------------------------|--------------------|----------------|---------------------------|-------------------------------------|
| 1344 | Hg 7.5 PPB STD | MP83808 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP83803 = Final Quantity: 250.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------|-------------------------|------------------|------------------------|--------------------|----------------|---------------------------|-------------------------------------|
| 1345 | Hg 10.0 PPB STD | MP83809 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP83803 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------|-------------------------|------------------|------------------------|--------------------|----------------|---------------------------|-------------------------------------|
| 1346 | Hg ICV SOLUTION | MP83810 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M5953 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|---------------------------|-------------------------------------|
| 1351 | ICB (Hg 0.00 PPB SOLUTION) | MP83811 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG) | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|-------------------------|------------------|------------------------|--------------------|----------------|--------------------------------|-------------------------------|
| 1358 | CCV (Hg 5.0 PPB SOLUTION) | MP83812 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG A) | Sarabjit Jaswal 12/30/2024 |

FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP83803 = Final Quantity: 500.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|--------------------------------|-------------------------------|
| 1352 | CCB (Hg 0.00 PPB SOLUTION) | MP83813 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG A) | Sarabjit Jaswal 12/30/2024 |

FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|-----------------------|-------------------------------------|
| 1349 | CRA/CRI (Hg 0.2 PPB SOLUTION) | MP83814 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83803 = Final Quantity: 250.000 ml

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|-----------------------|-------------------------------------|
| 1350 | CHK STD (Hg 7.0 PPB SOLUTION) | MP83815 | 12/30/2024 | 12/31/2024 | Mohan Bera | None | METALS_PIP ETTE_5 (HG | Sarabjit Jaswal 12/30/2024 A) |

FROM 2.50000ml of M6126 + 240.50000ml of W3112 + 7.00000ml of MP83803 = Final Quantity: 250.000 ml

Metals STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|-------------------------|------------------|------------------------|--------------------|-------------------------|------------------|-------------------------------|
| 68 | STANNOUS CHLORIDE SOLUTION | MP83817 | 12/30/2024 | 12/31/2024 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 12/30/2024 |

FROM 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---|-------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g) | 0000215387 | 06/25/2025 | 07/01/2019 / RICHARD | 06/07/2019 / RICHARD | M4371 |
| Seidler Chemical | BA-3238-05 / Potassium Persulfate (2.5kg) | 0000234156 | 08/06/2025 | 07/23/2019 / mohan | 07/25/2019 / manojkumar | M4465 |
| Seidler Chemical | BA-3227-05 / Potassium Permanganate (2.5kg) | 210800 | 03/31/2026 | 11/30/2022 / mohan | 07/28/2021 / mohan | M4916 |
| Inorganic Ventures | MSHG-10PPM / MERCURY HCl 125mL 10ug/mL | S2-HG709270 | 09/22/2026 | 05/28/2022 / mohan | 01/27/2022 / mohan | M5062 |
| EPA | PART A / ICSA (ICP) STOCK SOLN | ICSA-1211 | 01/31/2025 | 05/20/2024 / mohan | 04/20/2021 / bin | M5130 |
| Absolute Standards, Inc. | 57042 / Mo, 1000 PPM, 125 ml | 051722 | 05/17/2025 | 07/01/2022 / bin | 06/17/2022 / jaswal | M5192 |

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| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---|--------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti | S2-MEB711674 | 11/02/2026 | 07/01/2022 / bin | 09/10/2021 / bin | M5218 |
| EPA | PART B / ICSAB (ICP) STOCK SOLN | ICSB-0710 | 01/31/2025 | 05/20/2024 / jaswal | 04/20/2021 / bin | M5223 |
| Absolute Standards, Inc. | 58119 / K, 10000 PPM, 500 ml | 071122 | 07/11/2025 | 09/01/2022 / jaswal | 07/21/2022 / jaswal | M5288 |
| EPA | ICV-1 / ICV (ICP/ICPMS) STOCK SOLN | ICV-1014 | 02/05/2025 | 08/07/2024 / jaswal | 04/20/2021 / bin | M5295 |
| Inorganic Ventures | Z9651Q / CHEM-CLP-4/.25L | S2-MEB711673 | 11/02/2026 | 09/19/2022 / jaswal | 08/20/2022 / jaswal | M5296 |
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 072122 | 07/21/2025 | 08/07/2024 / jaswal | 09/18/2022 / bin | M5390 |

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| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---|--------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL | T2-MEB714159 | 01/13/2027 | 10/12/2022 / bin | 09/19/2022 / bin | M5393 |
| Absolute Standards, Inc. | 57103 / Li, 10000 PPM, 125 ml | 070622 | 07/06/2025 | 01/30/2023 / bin | 01/26/2023 / bin | M5429 |
| Absolute Standards, Inc. | 57058 / Cerium, 1000PPM, 100ML | 061322 | 06/13/2025 | 03/06/2023 / bin | 03/01/2023 / bin | M5466 |
| Absolute Standards, Inc. | 57058 / Cerium, 1000PPM, 100ML | 020623 | 02/06/2026 | 03/06/2023 / bin | 03/01/2023 / bin | M5467 |
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 03/18/2023 / bin | 03/17/2023 / bin | M5497 |
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 092122 | 09/21/2025 | 08/01/2024 / Jaswal | 03/17/2023 / bin | M5515 |

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| 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 |
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 102523 | 10/25/2026 | 04/03/2024 / jaswal | 10/27/2023 / jaswal | M5697 |
| Absolute Standards, Inc. | 58025 / Mn, 1000 PPM, 500 ml | 102623 | 10/26/2026 | 04/18/2024 / jaswal | 10/27/2023 / jaswal | M5698 |
| Absolute Standards, Inc. | / Lead (Pb) 1000PPM | 100923 | 10/09/2026 | 05/20/2024 / Jaswal | 12/20/2023 / jaswal | M5747 |
| Absolute Standards, Inc. | / Nickel (Ni) 1000PPM | 091223 | 09/12/2026 | 01/02/2024 / bin | 12/20/2023 / jaswal | M5748 |
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 091823 | 09/18/2026 | 01/08/2024 / bin | 01/03/2024 / bin | M5768 |

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| 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 |
| Absolute Standards, Inc. | 57050 / Sn, 1000 PPM, 125 ml | 071123 | 07/11/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5799 |
| Absolute Standards, Inc. | 57027 / CO, 1000 PPM, 125 ml | 091923 | 09/19/2026 | 05/31/2024 / bin | 02/09/2024 / bin | M5800 |
| Absolute Standards, Inc. | 57033 / As, 1000 PPM, 125 ml | 111323 | 11/13/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5801 |
| Absolute Standards, Inc. | 57051 / Sb, 1000 PPM, 125 ml | 120523 | 12/05/2026 | 08/07/2024 / jaswal | 01/03/2024 / jaswal | M5802 |
| Absolute Standards, Inc. | 58111 / Na, 10000 PPM, 500 ml | 122223 | 12/22/2026 | 08/01/2024 / Jaswal | 01/03/2024 / jaswal | M5806 |

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| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------------|--------------|------------------------|--------------------------------|------------------------------------|-----------------------|
| Absolute Standards, Inc. | 57005 / B, 1000 PPM, 125 ml | 071123 | 07/11/2026 | 03/26/2024 / Sohil | 01/03/2024 / jaswal | M5814 |
| Absolute Standards, Inc. | 57115 / P, 10000 PPM, 125 ml | 041723 | 04/17/2026 | 05/21/2024 / Jaswal | 02/09/2024 / jaswal | M5815 |
| Absolute Standards, Inc. | 57016 / S, 1000 PPM, 125 ml | 122923 | 12/29/2026 | 05/20/2024 / Jaswal | 02/09/2024 / jaswal | M5816 |
| Absolute Standards, Inc. | 57116 / S, 10000 PPM, 125 ml | 071123 | 07/11/2026 | 03/01/2024 / jaswal | 02/09/2024 / jaswal | M5817 |
| Absolute Standards, Inc. | 57014 / Si, 1000 PPM, 125 ml | 122023 | 12/20/2026 | 03/06/2024 / jaswal | 02/09/2024 / jaswal | M5818 |
| Absolute Standards, Inc. | 58030 / Zinc, Zn, 500 ml, 1000 PPM | 111623 | 11/16/2026 | 03/20/2024 / jaswal | 02/09/2024 / jaswal | M5819 |

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| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|--|--------------|------------------------|--------------------------------|------------------------------------|-----------------------|
| Absolute Standards, Inc. | 57015 / P, 1000 PPM, 125 ml | 091123 | 09/11/2026 | 05/01/2024 / jaswal | 02/09/2024 / jaswal | M5820 |
| Inorganic Ventures | CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL | T2-MEB714417 | 01/27/2027 | 04/19/2024 / jaswal | 02/22/2024 / jaswal | M5875 |
| Seidler Chemical | BA-3980-01 / Stannous Chloride (cs/4x500g) | 232820 | 08/31/2028 | 04/30/2024 / mohan | 04/25/2024 / mohan | M5882 |
| Seidler Chemical | BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg) | 0000281938 | 07/06/2026 | 04/30/2024 / mohan | 04/25/2024 / mohan | M5884 |
| EPA | ICV-5 / ICV (HG) STOCK SOLN | ICV5-0415 | 01/01/2025 | 07/01/2024 / mohan | 03/30/2023 / mohan | M5953 |
| Inorganic Ventures | CGY10-1 / YTTRIUM 125mL 10,000ug/mL | V2-Y740548 | 02/20/2029 | 07/01/2024 / Jaswal | 06/14/2024 / Jaswal | M5959 |

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| 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 |
| Absolute Standards, Inc. | 57003 / Li, 1000 PPM, 125 ml | 061224 | 06/21/2027 | 07/01/2024 / Jaswal | 07/01/2024 / Jaswal | M5970 |
| Inorganic Ventures | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5978 |
| Absolute Standards, Inc. | 57038 / Sr, 1000 PPM, 125 ml | 031524 | 03/15/2027 | 07/01/2024 / Jaswal | 06/11/2024 / Jaswal | M5982 |
| Inorganic Ventures | CGIN10-5 / INDIUM 1 x 500 ml | U2-IN729349 | 02/21/2028 | 10/08/2024 / Jaswal | 06/14/2024 / Jaswal | M5985 |
| Inorganic Ventures | WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml | T2-MEB723367 | 08/30/2026 | 08/13/2024 / Jaswal | 05/14/2024 / Jaswal | M6000 |

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| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|--|--------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml | U2-MEB731108 | 03/17/2028 | 08/13/2024 / Jaswal | 05/14/2024 / Jaswal | M6009 |
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |
| Absolute Standards, Inc. | 57081 / TI, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6028 |
| Absolute Standards, Inc. | 57047 / Ag, 1000 PPM, 125 ml | 122823 | 12/28/2026 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6030 |
| Absolute Standards, Inc. | 58113 / Al, 10000 PPM, 500 ml | 011623 | 01/16/2026 | 08/07/2024 / Jaswal | 01/03/2024 / Jaswal | M6033 |

CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6x2.5L) | 23D2462010 | 03/20/2028 | 08/16/2024 / mohan | 08/16/2024 / mohan | M6041 |
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025 | 11/13/2024 / Eman | 10/13/2024 / Eman | M6121 |
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24D1062002 | 06/03/2025 | 12/03/2024 / Janvi | 11/12/2024 / Janvi | M6126 |
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

M5882
MS

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| | | | |
|-------------------|---|-----------------------------|------------|
| Catalog Number | T142 | Quality Test / Release Date | 08/17/2023 |
| Lot Number | 232820 | | |
| Description | STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination) | | |
| Country of Origin | United States | Suggested Retest Date | Aug/2028 |
| Chemical Origin | Inorganic-non animal | | |
| BSE/TSE Comment | No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product. | | |

N/A

| Result Name | Units | Specifications | Test Value |
|-------------------|-----------|----------------------------|---------------------|
| APPEARANCE | | REPORT | Clear crystals |
| ASSAY | % | Inclusive Between 98 - 103 | 100.65 |
| CALCIUM | % | <= 0.005 | 0.0017 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST |
| IRON (Fe) | % | <= 0.003 | 0.0011 |
| LEAD (Pb) | % | <= 0.01 | 0.0006 |
| MERCURY (Hg) | ppm | <= 0.05 | <0.05 |
| POTASSIUM (K) | % | <= 0.005 | 0.0001 |
| SODIUM (Na) | % | <= 0.01 | <0.01 |
| SOLUBILITY IN HCL | PASS/FAIL | = PASS TEST | PASS TEST |
| SULFATE (SO4) | PASS/FAIL | = P.T. (ABOUT 0.003%) | P.T. (ABOUT 0.003%) |

Harout Sahagian - Quality Control Supervisor - Fair Lawn

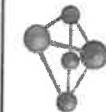
Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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

CERTIFIED WEIGHT REPORT:

R1815/24

Certified Reference Material CRM

M6028



Part Number:
Lot Number:

57048
070124
Cadmium (Cd)

Solvent: 24002546 **Nitric Acid**
2% **40.0** **Nitric Acid**
(mL)

Expiration Date: 070127

Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.07 **0.100** **Flask Uncertainty**

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay Weight (g) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | SDS Information | | |
|--------------------------------------|------------|-------------------|------------------------------|-------------------|------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|------------------------|---|-------------------------------------|
| | | | | | | | | | | CAS# | (Solvent Safety Info. On Attached pg.) | NIST OSHA PEL (TWA) |
| 1. Cadmium nitrate tetrahydrate (Cd) | IN024 | C0002021A1 | 1000 | 99.999 | 0.10 | 36.5 | 5.4797 | 5.4804 | 1000.1 | 2.0 | 10022-68-1 | 0.01 mg/m3 or-rat 60.2mg/kg 3108 |

| [1] Spectrum No. 1 [12.514 sec]:68148.D#[Count] [Linear] | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| m/z--> | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | | |
| 5.0E4 | | | | | | | | | | | | |
| 2.5E4 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| m/z--> | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | | |
| 2.0E7 | | | | | | | | | | | | |
| 1.0E7 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| m/z--> | 210 | 220 | 230 | 240 | 250 | 260 | | | | | | |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



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

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

300 Technology Drive
 Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
 F: 540-585-3012
info@inorganicventures.com

Certificate of Analysis

1.0 ACCREDITATION / REGISTRATION

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



2.0 PRODUCT DESCRIPTION

| | | | |
|---------------------|--|--|--|
| Product Code: | Multi Analyte Custom Grade Solution | | |
| Catalog Number: | CHEM-CLP-4 | | |
| Lot Number: | S2-MEB711673 | | |
| Matrix: | 3% (v/v) HNO ₃ 3% (v/v) HF | | |
| Value / Analyte(s): | 1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium | | |

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-----------------|----------------|-----------------|
| Boron, B | 1 000 ± 6 µg/mL | Molybdenum, Mo | 1 000 ± 6 µg/mL |
| Silicon, Si | 1 000 ± 7 µg/mL | Tin, Sn | 1 000 ± 6 µg/mL |
| Titanium, Ti | 1 000 ± 7 µg/mL | | |

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

Assay Information:

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

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

| Characterization of CRM/RM by Two or More Methods | |
|---|--|
| Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results: | |
| $X_{CRM/RM} = \sum(w_i)(X_i)$ | |
| 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: | |
| $w_i = (1/u_{char\ i})^2 / (\sum(1/u_{char\ i})^2)$ | |
| CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$ | |
| k = coverage factor = 2 | |
| $u_{char} = [\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method | |
| u_{bb} = bottle to bottle homogeneity standard uncertainty | |
| u_{ts} = 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) = $U_{CRM/RM} = k(u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$ | |
| k = coverage factor = 2 | |
| $u_{char\ a}$ = the errors from characterization | |
| u_{bb} = bottle to bottle homogeneity standard uncertainty | |
| u_{ts} = long term stability standard uncertainty (storage) | |
| u_{ts} = transport stability standard uncertainty | |

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

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

11.2 Lot Expiration Date

- November 02, 2026

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Certificate of Analysis

300 Technology Drive
 Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
 F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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



2.0 PRODUCT DESCRIPTION

| | | |
|---------------------|--|--|
| Product Code: | Multi Analyte Custom Grade Solution | |
| Catalog Number: | CLPP-CAL-1 | |
| Lot Number: | T2-MEB714417 | |
| Matrix: | 5% (v/v) HNO ₃ | |
| Value / Analyte(s): | 5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium | |

3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

Density: 1.118 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-----------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cr | Calculated | | See Sec. 4.2 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

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

| | |
|---|---|
| <p>Characterization of CRM/RM by Two or More Methods</p> <p>Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:</p> $X_{CRM/RM} = \sum w_i (X_i)$ <p>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: $w_i = (1/u_{char\ i})^2 / (\sum (1/u_{char\ i})^2)$</p> <p>CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$</p> <p>$k$ = coverage factor = 2 $u_{char} = [\sum (w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method u_{bb} = bottle to bottle homogeneity standard uncertainty u_{ts} = long term stability standard uncertainty (storage) u_{ts} = transport stability standard uncertainty</p> | <p>Characterization of CRM/RM by One Method</p> <p>Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:</p> $X_{CRM/RM} = (X_a) (u_{char\ a})$ <p>X_a = mean of Assay Method A with $u_{char\ a}$ = the standard uncertainty of characterization Method A</p> <p>CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$</p> <p>$k$ = coverage factor = 2 $u_{char\ a}$ = the errors from characterization u_{bb} = bottle to bottle homogeneity standard uncertainty u_{ts} = long term stability standard uncertainty (storage) u_{ts} = transport stability standard uncertainty</p> |
|---|---|

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

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

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

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

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

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

11.2 Lot Expiration Date

- January 27, 2027

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Refine your results. Redefine your industry.

300 Technology Drive
 Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: CLPP-CAL-3

Lot Number: T2-MEB714159

Matrix: 7% (v/v) HNO₃

Value / Analyte(s): 1 000 µg/mL ea:

Arsenic, Lead,
 Selenium, Thallium,

500 µg/mL ea:

Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

Assay Information:

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

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

Characterization of CRM/RM by Two or More Methods

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

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

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

CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$

k = coverage factor = 2
 $u_{char} = [\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{ts} = 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) = $U_{CRM/RM} = k(u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$

k = coverage factor = 2
 $u_{char\ a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{ts} = 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 ($\mu\text{g/mL}$)

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

January 13, 2022

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

11.2 Lot Expiration Date

- January 13, 2027

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





M6000,M6001,M6002,M6003,M6004,M6005,M6006,M6007,M6008

Refine your results. Redefine your industry.

RD:05/14/2024

Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

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2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: WW-LFS-1
Lot Number: T2-MEB723367
Matrix: 5% (v/v) HNO₃

| | | |
|---------------------|-----------------|----|
| Value / Analyte(s): | 1 000 µg/mL ea: | |
| | Potassium, | 1 |
| | 600 µg/mL ea: | 2 |
| | Phosphorus, | 3 |
| | 300 µg/mL ea: | 4 |
| | Sodium, | 5 |
| | Iron, | 6 |
| | 200 µg/mL ea: | 7 |
| | Magnesium, | 8 |
| | Cerium, | 9 |
| | Thallium, | 10 |
| | 100 µg/mL ea: | 11 |
| | Lead, | 12 |
| | Calcium, | 13 |
| | 80 µg/mL ea: | 14 |
| | Arsenic, | 15 |
| | 70 µg/mL ea: | 16 |
| | Mercury, | 17 |
| | 50 µg/mL ea: | 18 |
| | Nickel, | |
| | 40 µg/mL ea: | |
| | Chromium, | |
| | 30 µg/mL ea: | |
| | Copper, | |
| | Boron, | |
| | Vanadium, | |
| | 20 µg/mL ea: | |
| | Zinc, | |
| | Strontium, | |
| | Barium, | |
| | Beryllium, | |
| | Cadmium, | |
| | Cobalt, | |
| | Manganese, | |
| | Lithium, | |
| | 7.5 µg/mL ea: | |
| | Silver | |

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|--------------------|---------------|--------------------|
| Aluminum, Al | 200.0 ± 0.7 µg/mL | Arsenic, As | 80.0 ± 0.7 µg/mL |
| Barium, Ba | 20.00 ± 0.09 µg/mL | Beryllium, Be | 20.00 ± 0.13 µg/mL |
| Boron, B | 30.00 ± 0.18 µg/mL | Cadmium, Cd | 20.00 ± 0.09 µg/mL |
| Calcium, Ca | 100.0 ± 0.4 µg/mL | Cerium, Ce | 200.0 ± 0.8 µg/mL |
| Chromium, Cr | 40.00 ± 0.30 µg/mL | Cobalt, Co | 20.00 ± 0.10 µg/mL |
| Copper, Cu | 30.00 ± 0.13 µg/mL | Iron, Fe | 300.0 ± 1.3 µg/mL |
| Lead, Pb | 100.0 ± 0.4 µg/mL | Lithium, Li | 20.00 ± 0.08 µg/mL |
| Magnesium, Mg | 200.0 ± 0.8 µg/mL | Manganese, Mn | 20.00 ± 0.08 µg/mL |
| Mercury, Hg | 70.0 ± 0.3 µg/mL | Nickel, Ni | 50.00 ± 0.22 µg/mL |
| Phosphorus, P | 600.0 ± 2.7 µg/mL | Potassium, K | 1 000 ± 4 µg/mL |
| Selenium, Se | 200.0 ± 1.3 µg/mL | Silver, Ag | 7.50 ± 0.03 µg/mL |
| Sodium, Na | 300.0 ± 1.4 µg/mL | Strontium, Sr | 20.01 ± 0.08 µg/mL |
| Thallium, Tl | 200.0 ± 1.4 µg/mL | Vanadium, V | 30.00 ± 0.13 µg/mL |
| Zinc, Zn | 20.00 ± 0.09 µg/mL | | |

Density: 1.034 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|--------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Ag | Calculated | | See Sec. 4.2 |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 190605 |
| 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 |
| Ce | ICP Assay | 3110 | 090504 |
| Ce | 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 |
| Hg | ICP Assay | 3133 | 160921 |
| Hg | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | 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 | Traceable to 3152A | S2-NA700842 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Tl | ICP Assay | 3158 | 151215 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

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

Characterization of CRM/RM by Two or More Methods

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

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

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:

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

$$CRM/RM Expanded Uncertainty (\pm) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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

$$CRM/RM Expanded Uncertainty (\pm) = U_{CRM/RM} = k(u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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 ($\mu\text{g/mL}$)

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 $4^\circ - 30^\circ\text{ C}$ 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 $4^\circ - 24^\circ\text{ C}$ to minimize the effects of transpiration. Use at $20^\circ \pm 4^\circ\text{ C}$ 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

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 30, 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

- August 30, 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:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Refine your results. Redefine your industry.

RD:05/14/2024

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: WW-LFS-2
 Lot Number: U2-MEB731108
 Matrix: 5% (v/v) HNO₃
 tr. HF
 Value / Analyte(s): 200 µg/mL ea:
 Silica,
 80 µg/mL ea:
 Antimony,
 70 µg/mL ea:
 Tin,
 40 µg/mL ea:
 Molybdenum,
 20 µg/mL ea:
 Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------------------|--------------------|----------------|--------------------|
| Antimony, Sb | 80.1 ± 0.6 µg/mL | Molybdenum, Mo | 40.03 ± 0.18 µg/mL |
| Silica, SiO ₂ | 200.2 ± 1.3 µg/mL | Tin, Sn | 70.0 ± 0.4 µg/mL |
| Titanium, Ti | 20.01 ± 0.13 µg/mL | | |

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

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|------------------|------------|-----------|--------------|
| Mo | ICP Assay | 3134 | 130418 |
| Mo | Calculated | | See Sec. 4.2 |
| Sb | ICP Assay | 3102a | 140911 |
| SiO ₂ | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |
| Ti | 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:

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

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:

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

$$CRM/RM Expanded Uncertainty (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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

$$CRM/RM Expanded Uncertainty (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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 ($\mu\text{g/mL}$)

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"

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- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 17, 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 17, 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



M4371

Hydroxylamine Hydrochloride, Crystal
 BAKER ANALYZED® A.C.S. Reagent
 Suitable for Mercury Determination
 (hydroxylammonium chloride)

Rec - 06.07.19



Material No.: 2196-01
 Batch No.: 0000215387
 Manufactured Date: 2018/06/27
 Retest Date: 2025/06/25
 Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|--|--------------------------|---------|
| Assay ($\text{NH}_2\text{OH} \cdot \text{HCl}$) (by KMnO_4 titrn) | $\geq 96.0\%$ | 99.1 |
| Clarity of Alcohol Solution | Passes Test | PT |
| Residue after Ignition | $\leq 0.050\%$ | 0.017 |
| Titrable Free Acid (meq/g) | ≤ 0.25 | 0.19 |
| Ammonium (NH_4^+) | Passes Test | PT |
| Sulfur Compounds (as SO_4^{2-}) | $\leq 0.005\%$ | < 0.003 |
| Trace Impurities - ACS - Heavy Metals (as Pb) | $\leq 5 \text{ ppm}$ | 4 |
| Trace Impurities - Iron (Fe) | $\leq 5 \text{ ppm}$ | < 3 |
| Trace Impurities - Mercury (Hg) | $\leq 0.050 \text{ ppm}$ | < 0.005 |

For Laboratory, Research or Manufacturing Use

Country of Origin: CN

Packaging Site: Paris Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2015, FSSC22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Gliwice, Poland 9001:2015, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2015, 17025:2005
 Panoli, India 9001:2015

Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone: 610.386.1700

M 4913-16

MB

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

3 Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 4 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| | | | |
|-------------------|--------------------------------|-----------------------------|------------|
| Catalog Number | P279 | Quality Test / Release Date | 01/12/2021 |
| Lot Number | 210306 | | |
| Description | POTASSIUM PERMANGANATE, A.C.S. | | |
| Country of Origin | United States | Suggested Retest Date | Jan/2026 |

| N/A | | | |
|---------------------|-----------|----------------|--------------------------------------|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | Dark purple to purple green crystals |
| ASSAY | % | >= 99 | 99.3 |
| CHLORIDE & CHLORATE | % | <= 0.005 | <0.005 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | pass test |
| INSOLUBLE MATTER | % | <= 0.2 | <0.2 |
| MERCURY (Hg) | ppm | <= 0.05 | <0.004 |
| SULFATE (SO4) | % | <= 0.02 | <0.02 |

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

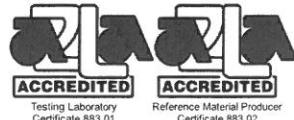
300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

M5062
M5063
MB

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).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Mass Spec Solution
Catalog Number: MSHG-10PPM
Lot Number: S2-HG709270
Matrix: 10% (v/v) HCl
Value / Analyte(s): 10 µg/mL ea:
Mercury
Starting Material: Hg metal
Starting Material Lot#: 1959
Starting Material Purity: 99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: $10.001 \pm 0.053 \mu\text{g/mL}$
Density: 1.020 g/mL (measured at $20 \pm 4^\circ\text{C}$)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-----------|--------------|
| Hg | ICP Assay | 3133 | 160921 |
| Hg | EDTA | 928 | 928 |
| Hg | Calculated | | See Sec. 4.2 |

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

Characterization of CRM/RM by Two or More Methods

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

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

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{\text{char } i})^2 / (\sum(1/u_{\text{char } i})^2)$

$$\text{CRM/RM Expanded Uncertainty} (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

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

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

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

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

X_a = mean of Assay Method A with

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

$$\text{CRM/RM Expanded Uncertainty} (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ts}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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 ($\mu\text{g/mL}$)

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

| | | | | | | | | | | | | | | | | | | | |
|---|----|----------|----------|----|----|----------|----------|----|----------|----------|----------|----|----------|----------|----------|----|----------|----------|--|
| O | Ag | 0.000011 | M | Eu | < | 0.000201 | O | Na | 0.000004 | M | Se | < | 0.015915 | O | Zn | < | 0.001510 | | |
| O | Al | 0.000001 | O | Fe | | 0.000001 | M | Nb | < | 0.000201 | O | Si | | 0.000005 | M | Zr | < | 0.000201 | |
| M | As | < | 0.000402 | M | Ga | < | 0.000201 | M | Nd | < | 0.000201 | M | Sm | < | 0.000201 | | | | |
| M | Au | < | 0.003631 | M | Gd | < | 0.000201 | M | Ni | < | 0.000402 | M | Sn | < | 0.001007 | | | | |
| M | B | < | 0.001208 | M | Ge | < | 0.000201 | M | Os | < | 0.000605 | M | Sr | < | 0.000201 | | | | |
| M | Ba | < | 0.000201 | M | Hf | < | 0.000201 | O | P | < | 0.032370 | M | Ta | < | 0.000201 | | | | |
| M | Be | < | 0.000201 | s | Hg | < | | M | Pb | < | 0.000201 | M | Tb | < | 0.000201 | | | | |
| M | Bi | < | 0.000201 | M | Ho | < | 0.000201 | M | Pd | < | 0.000403 | M | Te | < | 0.002216 | | | | |
| O | Ca | 0.000007 | M | In | < | 0.000201 | M | Pr | < | 0.000201 | M | Th | < | 0.000201 | | | | | |
| M | Cd | < | 0.000201 | M | Ir | < | 0.000201 | M | Pt | < | 0.000402 | M | Ti | < | 0.000402 | | | | |
| M | Ce | < | 0.000201 | O | K | | 0.000020 | M | Rb | < | 0.000201 | O | Tl | < | 0.016508 | | | | |
| M | Co | < | 0.000201 | M | La | < | 0.000201 | M | Re | < | 0.000201 | M | Tm | < | 0.000201 | | | | |
| O | Cr | < | 0.003021 | O | Li | < | 0.000107 | M | Rh | < | 0.000201 | M | U | < | 0.008058 | | | | |
| M | Cs | < | 0.001208 | M | Lu | < | 0.000201 | M | Ru | < | 0.000201 | M | V | < | 0.000201 | | | | |
| M | Cu | < | 0.000402 | O | Mg | | 0.000001 | O | S | < | 0.053950 | M | W | < | 0.000604 | | | | |
| M | Dy | < | 0.000201 | M | Mn | < | 0.000604 | M | Sb | < | 0.001208 | M | Y | < | 0.000201 | | | | |
| M | Er | < | 0.000201 | M | Mo | | 0.000009 | M | Sc | < | 0.000201 | M | Yb | < | 0.000201 | | | | |

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

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO₃. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO₃ / LDPE container, stable in 10% HNO₃ packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO₃ packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO₃ / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxide (Soluble in HNO₃); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

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

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 202 amu | 9 ppt | n/a | 186W16O |
| ICP-OES 184.950 nm | 0.03 / 0.005 µg/mL | 1 | |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1 | V |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL | 1 | Ta, Co, Th ,Rh , Fe, U |

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

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

11.2 Lot Expiration Date

- September 22, 2026

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





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

R : 04/20/21

Instructions for QATS Reference Material: ICP-AES ICS

**QATS LABORATORY INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

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

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

(C) ANALYSIS OF SAMPLES

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,



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

Cd, Co, Cr, Cu, Mn, Ni, Pb, Ti, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

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

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSAB solution by ICP-AES.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

| Element | CRQL | Part A ($\mu\text{g/L}$) | Low Limit ($\mu\text{g/L}$) | High Limit ($\mu\text{g/L}$) | Part A +Part B ($\mu\text{g/L}$) | Low Limit ($\mu\text{g/L}$) | High Limit ($\mu\text{g/L}$) | |
|---------|------|-------------------------------|-------------------------------------|--------------------------------------|--|-------------------------------------|--------------------------------------|--------|
| ICSA | AI | 200 | 255000 | 216000 | 294000 | 247000 | 209000 | 285000 |
| M5126 | Sb | 60 | (0.0) | -60.0 | 60.0 | 618 | 525 | 711 |
| M5127 | As | 10 | (0.0) | -10.0 | 10.0 | 104 | 88.4 | 120 |
| M5128 | Ba | 200 | (6.0) | -194 | 206 | (537) | 337 | 737 |
| M5129 | Be | 5.0 | (0.0) | -5.0 | 5.0 | 495 | 420 | 570 |
| M5130 | Cd | 5.0 | (1.0) | -4.0 | 6.0 | 972 | 826 | 1120 |
| | Ca | 5000 | 245000 | 208000 | 282000 | 235000 | 199000 | 271000 |
| | Cr | 10 | (52.0) | 42.0 | 62.0 | 542 | 460 | 624 |
| | Co | 50 | (0.0) | -50.0 | 50.0 | 476 | 404 | 548 |
| | Cu | 25 | (2.0) | -23.0 | 27.0 | 511 | 434 | 588 |
| | Fe | 100 | 101000 | 85600 | 116500 | 99300 | 84400 | 114500 |
| | Pb | 10 | (0.0) | -10.0 | 10.0 | (49.0) | 39.0 | 59.0 |
| | Mg | 5000 | 255000 | 216000 | 294000 | 248000 | 210000 | 286000 |
| | Mn | 15 | (7.0) | -8.0 | 22.0 | 507 | 430 | 584 |
| | Ni | 40 | (2.0) | -38.0 | 42.0 | 954 | 810 | 1100 |
| | Se | 35 | (0.0) | -35.0 | 35.0 | (46.0) | 11.0 | 81.0 |
| | Ag | 10 | (0.0) | -10.0 | 10.0 | 201 | 170 | 232 |
| | Tl | 25 | (0.0) | -25.0 | 25.0 | (108) | 83.0 | 133 |
| | V | 50 | (0.0) | -50.0 | 50.0 | 491 | 417 | 565 |
| | Zn | 60 | (0.0) | -60.0 | 60.0 | 952 | 809 | 1095 |

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value \pm 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value \pm 15 percent of the listed certified value.

Certified Reference Material CRM



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

CERTIFIED WEIGHT REPORT:

Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)

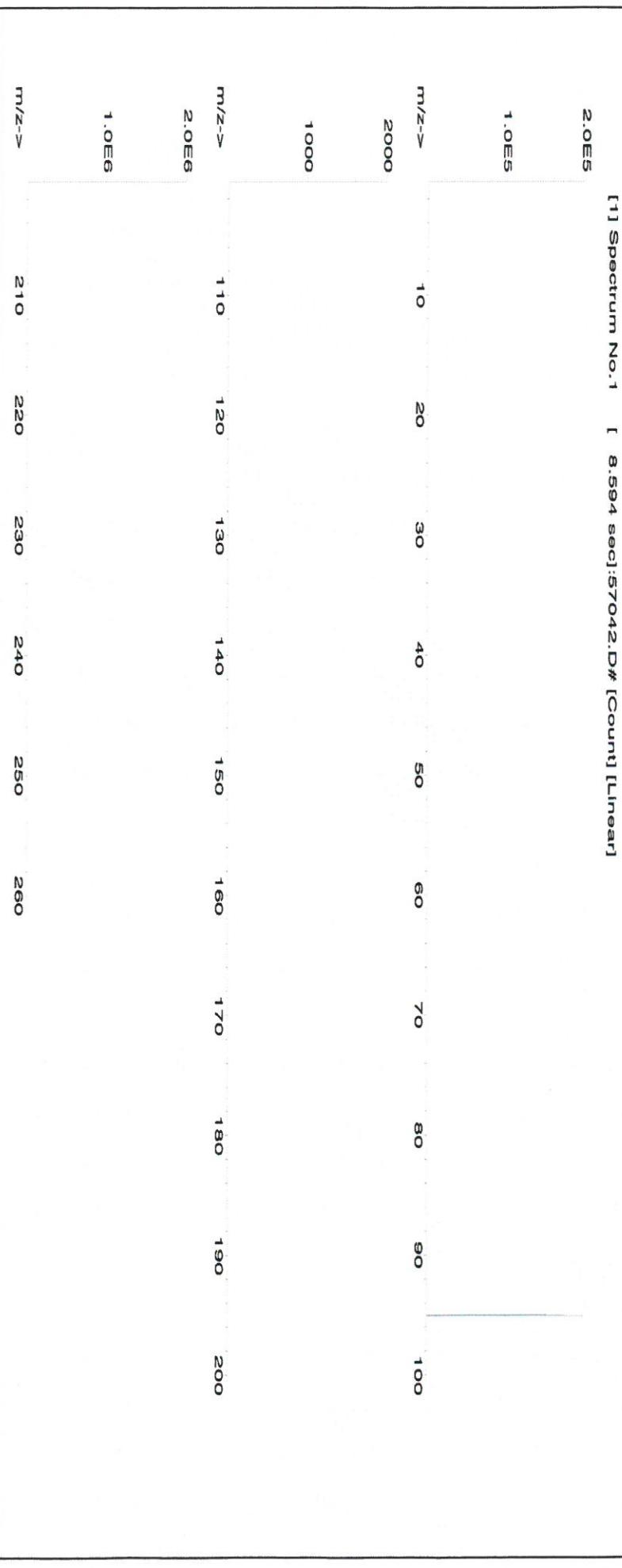
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41
Part **Lot** **Dilution** **Initial** **Uncertainty** **Nominal** **Initial** **Final**
Number **Number** **Factor** **Vol. (mL)** **Pipette (mL)** **Conc. (µg/mL)** **Conc. (µg/mL)** **Conc. (µg/mL)**

0.5% 15.0 Ammonium hydroxide
(mL) Ammonium hydroxide

| Formulated By: | Reviewed By: |
|--------------------------|---------------------------|
| Lawrence Barry 051722 | Pedro L. Rentas 051722 |

1. Ammonium molybdate (Mo) 58142 022222 0.1000 300.0 0.084 1000 10001.0 1000.0 2.1 13106-76-8 5 mg(Mo)/m3 orl-rat 333 mg/kg 3134

[1] Spectrum No. 1 [8.594 sec]:57042.D# [Count] [Linear]



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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 ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | T | <0.02 | Sm | <0.02 | S | <0.02 | Ta | <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).
- * All Standards are certified (+/-) 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).

Certificate of Analysis

300 Technology Drive
 Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
 F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

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



2.0 PRODUCT DESCRIPTION

| | | | |
|---------------------|--|--|--|
| Product Code: | Multi Analyte Custom Grade Solution | | |
| Catalog Number: | CHEM-QC-4 | | |
| Lot Number: | S2-MEB711674 | | |
| Matrix: | 3% (v/v) HNO ₃ 3% (v/v) HF | | |
| Value / Analyte(s): | 1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium | | |

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

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-----------------|----------------|-----------------|
| Boron, B | 1 000 ± 7 µg/mL | Molybdenum, Mo | 1 000 ± 5 µg/mL |
| Silicon, Si | 1 000 ± 7 µg/mL | Tin, Sn | 1 000 ± 5 µg/mL |
| Titanium, Ti | 1 001 ± 6 µg/mL | | |

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

Assay Information:

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

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

| Characterization of CRM/RM by Two or More Methods | |
|---|--|
| Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results: | |
| $X_{CRM/RM} = \sum w_i (X_i)$ | |
| $X_i = \text{mean of Assay Method } i \text{ with standard uncertainty } u_{\text{char}}^i$ | |
| $w_i = \text{the weighting factors for each method calculated using the inverse square of the variance:}$ | |
| $w_i = (1/u_{\text{char}}^i)^2 / (\sum (1/u_{\text{char}}^i)^2)$ | |
| CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k (u_{\text{char}}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$ | |
| $k = \text{coverage factor} = 2$ | |
| $u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char}}^i)^2]^{1/2}$ where u_{char}^i are the errors from each characterization method | |
| $u_{bb} = \text{bottle to bottle homogeneity standard uncertainty}$ | |
| $u_{ts} = \text{long term stability standard uncertainty (storage)}$ | |
| $u_{ts} = \text{transport stability standard uncertainty}$ | |

| 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: | |
| $X_{CRM/RM} = (X_a) (u_{\text{char}} a)$ | |
| $X_a = \text{mean of Assay Method A with}$ | |
| $u_{\text{char}} a = \text{the standard uncertainty of characterization Method A}$ | |
| CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k (u_{\text{char}}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$ | |
| $k = \text{coverage factor} = 2$ | |
| $u_{\text{char}} a = \text{the errors from characterization}$ | |
| $u_{bb} = \text{bottle to bottle homogeneity standard uncertainty}$ | |
| $u_{ts} = \text{long term stability standard uncertainty (storage)}$ | |
| $u_{ts} = \text{transport stability standard uncertainty}$ | |

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 ($\mu\text{g/mL}$)

N/A

6.0 INTENDED USE

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

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

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

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

11.2 Lot Expiration Date

- November 02, 2026

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





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

R : 04/20/21

Instructions for QATS Reference Material: ICP-AES ICS

**QATS LABORATORY INORGANIC REFERENCE MATERIAL
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)**

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.



(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) BREAKAGE OR MISSING ITEMS

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

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

(C) ANALYSIS OF SAMPLES

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

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

Cd, Co, Cr, Cu, Mn, Ni, Pb, Ti, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

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

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO₃. Analyze this ICSAB solution by ICP-AES.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

| Element | CRQL | Part A ($\mu\text{g/L}$) | Low Limit ($\mu\text{g/L}$) | High Limit ($\mu\text{g/L}$) | Part A +Part B ($\mu\text{g/L}$) | Low Limit ($\mu\text{g/L}$) | High Limit ($\mu\text{g/L}$) | |
|---------|------|-------------------------------|-------------------------------------|--------------------------------------|--|-------------------------------------|--------------------------------------|--------|
| ICSA | AI | 200 | 255000 | 216000 | 294000 | 247000 | 209000 | 285000 |
| M5126 | Sb | 60 | (0.0) | -60.0 | 60.0 | 618 | 525 | 711 |
| M5127 | As | 10 | (0.0) | -10.0 | 10.0 | 104 | 88.4 | 120 |
| M5128 | Ba | 200 | (6.0) | -194 | 206 | (537) | 337 | 737 |
| M5129 | Be | 5.0 | (0.0) | -5.0 | 5.0 | 495 | 420 | 570 |
| M5130 | Cd | 5.0 | (1.0) | -4.0 | 6.0 | 972 | 826 | 1120 |
| | Ca | 5000 | 245000 | 208000 | 282000 | 235000 | 199000 | 271000 |
| | Cr | 10 | (52.0) | 42.0 | 62.0 | 542 | 460 | 624 |
| | Co | 50 | (0.0) | -50.0 | 50.0 | 476 | 404 | 548 |
| | Cu | 25 | (2.0) | -23.0 | 27.0 | 511 | 434 | 588 |
| | Fe | 100 | 101000 | 85600 | 116500 | 99300 | 84400 | 114500 |
| | Pb | 10 | (0.0) | -10.0 | 10.0 | (49.0) | 39.0 | 59.0 |
| | Mg | 5000 | 255000 | 216000 | 294000 | 248000 | 210000 | 286000 |
| | Mn | 15 | (7.0) | -8.0 | 22.0 | 507 | 430 | 584 |
| | Ni | 40 | (2.0) | -38.0 | 42.0 | 954 | 810 | 1100 |
| | Se | 35 | (0.0) | -35.0 | 35.0 | (46.0) | 11.0 | 81.0 |
| | Ag | 10 | (0.0) | -10.0 | 10.0 | 201 | 170 | 232 |
| | Tl | 25 | (0.0) | -25.0 | 25.0 | (108) | 83.0 | 133 |
| | V | 50 | (0.0) | -50.0 | 50.0 | 491 | 417 | 565 |
| | Zn | 60 | (0.0) | -60.0 | 60.0 | 952 | 809 | 1095 |

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value \pm 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value \pm 15 percent of the listed certified value.

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

CERTIFIED WEIGHT REPORT:



Certified Reference Material CRM

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



Lot #

55

Part Number:
58119
Lot Number:
071122

Description:
Potassium (K)

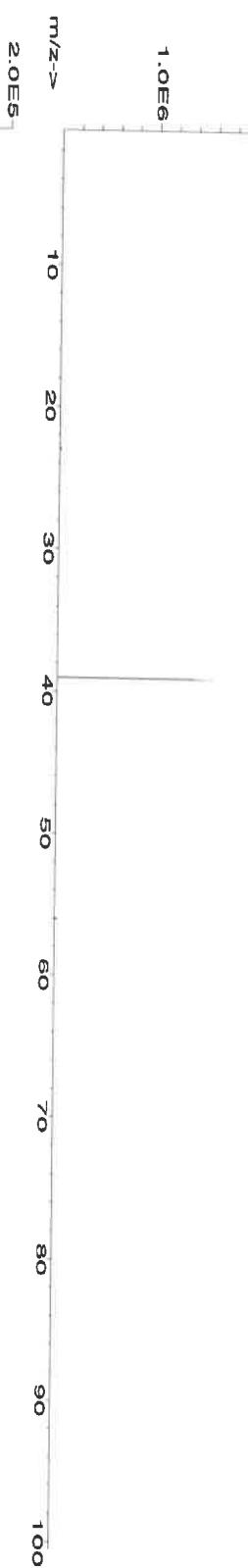
Solvent: 20510011 Nitric Acid
2% 40.0 Nitric Acid
(mL)

Reviewed By:
Pedro L. Rentas
071122

Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

| 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) | (Solvent Safety Info. On Attached pg.) CAS# OSHA PEL (TWA) | NIST SRM LD50 |
|--------------------------|------------------|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|--|---------------------------|
| 1. Potassium nitrate (K) | IN034 KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 53.1925 | 53.1934 | 10000.2 | 20.0 | 7757.79-1 | 5 mg/m3 | osha-tat 3015 mg/kg 3141a |

[1] Spectrum No. 1 [35.763 sec]:58119.D#[Count] [Linear]



m/z-->

5000

1.0E4

210

220

230

240

250

260

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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 ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|--|--|--|--|--|--|--|--|
| Al | <0.02 | Ca | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <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 | Ca | <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 | Ta | <0.02 | Zn | <0.02 | | | | | | | | |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | Nd | <0.02 | T | <0.02 | | | | | | | | | | | | | | | | | | |

(T)= Target analyte

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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - * Standards are certified (+/-) 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).



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

R : 4/20/21

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

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

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) SAMPLE DESCRIPTION

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

(B) BREAKAGE OR MISSING ITEMS

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

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

(C) ANALYSIS OF SAMPLES

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

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





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

APTIM

ICV1-1014

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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

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

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

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

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

| ICV1-1014 | | |
|-----------|---|---|
| Element | Concentration ($\mu\text{g/L}$) (after 10-fold dilution) | Concentration ($\mu\text{g/L}$) (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 ($\mu\text{g/L}$) (after 100-fold dilution) | Analyte | Concentration ($\mu\text{g/L}$) (after 100-fold dilution) |
| Hg | 4.0 | CN ⁻ | 99 |



Riviera CRM
(B)P
M5387 - M5389 / M5390 / M5391 / M5392

Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Lot #

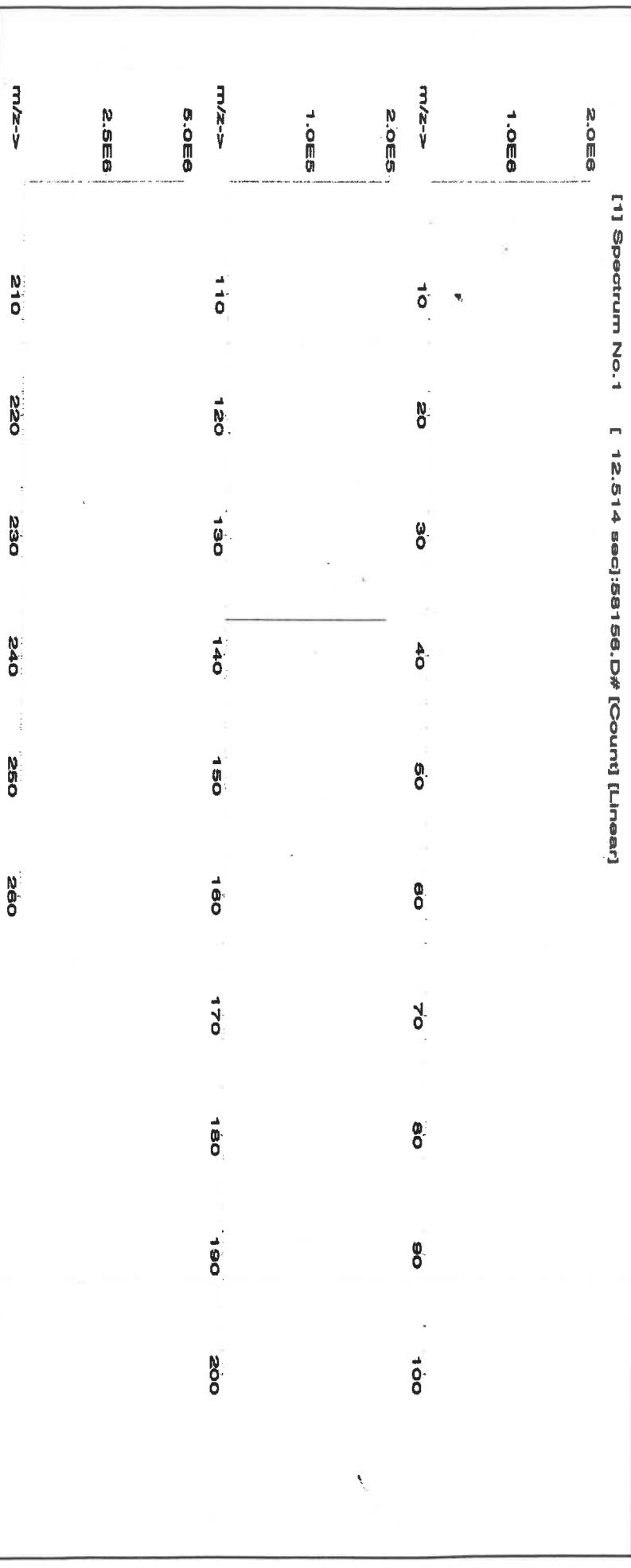
Part Number: **57056**
Lot Number: **072122**
Description: **Barium (Ba)**

Expiration Date: 07/21/25
Recommended Storage: Ambient (20 °C)
Nominal Concentration ($\mu\text{g/mL}$): 1000
NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty (%) | Assay Purity (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. ($\mu\text{g/mL}$) | Expanded Uncertainty +/- ($\mu\text{g/mL}$) | (Solvent Safety Info. On Attached pg.) | SDS Information | NIST OSHA PEL (TWA) | LD50 | SRM |
|------------------------|-------|------------|------------------------------------|------------|-----------------|------------------|-------------------|-------------------|-----------------------------------|---|--|-----------------|---------------------|-------|-----|
| 1. Barium nitrate (Ba) | IN023 | BA022019A1 | 1000 | 99.999 | 0.10 | 52.3 | 3.82417 | 3.82426 | 1000.0 | 2.0 | 10022-31-9 | 0.5 mg/m3 | or-lar 355 mg/kg | 310da | |

[1] Spectrum No. 1 [12.514 sec]:58158.D# [Count] [Linear]



| | |
|----------------------------------|------------------------|
| <i>Giovanni Esposito</i> | <i>Pedro L. Rentas</i> |
| Formulated By: Giovanni Esposito | 072122 |
| Reviewed By: Pedro L. Rentas | 072122 |



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <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 | 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 | Os | <0.01 | 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 | 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 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.2 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

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 certified (+/-) 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 Number: 57103
 Lot Number: 070622
 Description: Lithium (Li)

Expiration Date: 070625
 Recommended Storage: Ambient (20 °C)

Nominal Concentration ($\mu\text{g/mL}$): 10000
 NIST Test Number: 6UTB

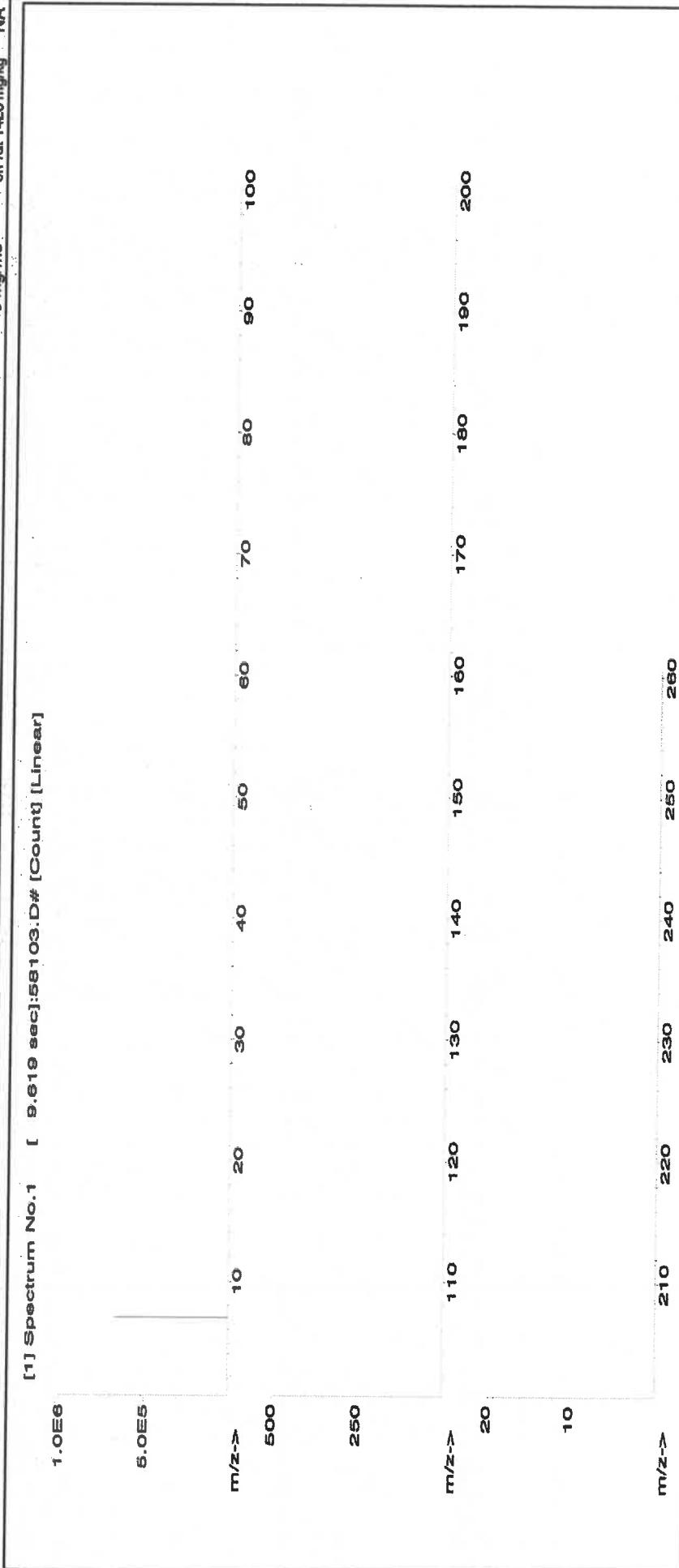
Weight shown below was diluted to (mL): 1000.12 Balance Uncertainty 5E-05
 Weight (g) 0.058 Flask Uncertainty 5E-05

Compound

| RM# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. ($\mu\text{g/mL}$) | Expanded Uncertainty +/- ($\mu\text{g/mL}$) | SDS Information | NIST SRM |
|-------|------------|------------------------------------|------------|-----------------|-----------|-------------------|-------------------|-----------------------------------|---|---|----------|
| IN019 | UZ04018A1 | 10000 | 99.999 | 0.10 | 10.0 | 100.0134 | 100.0173 | 10000.4 | 20.0 | (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA) CAS# LD50 | 070622 |

[1] Spectrum No.: 1 [9.619 sec]:58103.D# [Count] [Linear]

1.0E6





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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | T | Ni | <0.02 | Pt | <0.02 | Se | <0.2 | Tb | <0.02 | W |
| 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 |
| 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 |
| 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 |
| 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 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | Sn | <0.02 | Zn | <0.02 | Zr |
| 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 | |

(T)= Target analyte

Certified by:

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

Physical Characterization:

- * 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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Lot #

Part Number: 57058
Lot Number: 061322
Description: Cerium (Ce)

Expiration Date: 061325
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

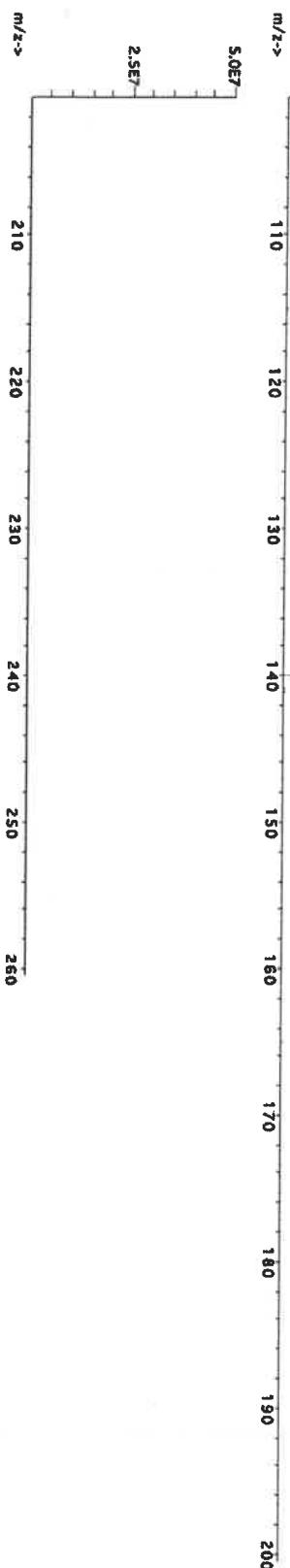
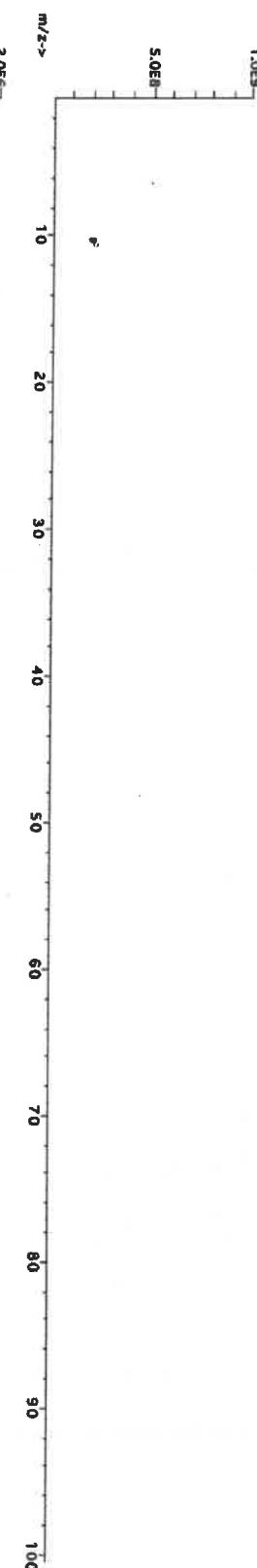
2% Balance Uncertainty
5E-05 Flask Uncertainty

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

1. Cerium nitrate hexahydrate (Ce) IN148 2512CEB1 1000 99.999 0.10 32.9 3.04919 3.04923 1000.0 2.0 10294-41-4 NA NA NA

Expanded Uncertainty (Solvent Safety Info. On Attached pg.) NIST
(µg/mL) +/- (µg/mL) CAS# OSHA PEL (TWA) LD50 SRM

[1] Spectrum No.1 [43472 sec]:5158.D# [Count] [Linear]



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

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

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

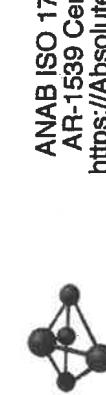
(T)= Target analyte

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 certified (+/-) 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).



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

Part Number: 57058
Lot Number: 020623
Description: Cerium (Ce)

Expiration Date:

020626
Ambient (20 °C)

Recommended Storage:

1000

NIST Test Number:

6UTB

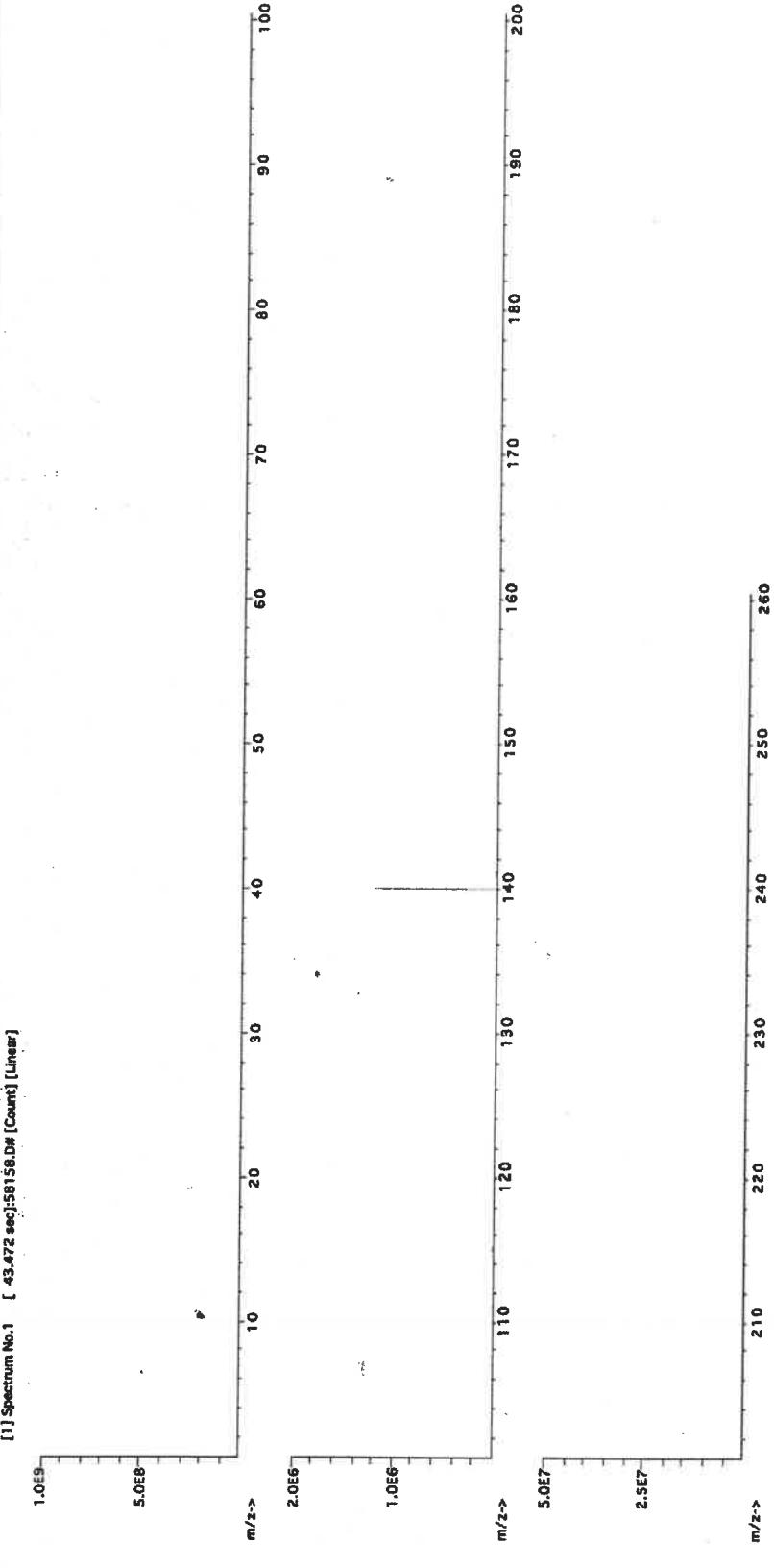
Weight shown below was diluted to (mL):

1000.12 0.058 Flask Uncertainty

Compound

| RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information | NIST SRM |
|-----|----------------|-----------------------|------------|-----------------------|-------------------|-------------------|----------------------|----------------------------------|---|----------|
| 1. | IN146 Z512CEB1 | 1000 | 99.999 | 0.10 | 32.8 | 3.04919 | 3.04921 | 1000.0 | (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA) CAS# LD50 | 020623 |

[1] Spectrum No.1 [43.472 sec] 58.04 [Count] [Linear]





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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|--|--|--|--|--|
| Al <0.02 | Cd <0.02 | Cr <0.2 | 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 | Tc <0.02 | Tl <0.02 | U <0.02 | | | | | | | |
| As <0.2 | Ce T | Eu <0.02 | In <0.02 | Mg <0.01 | Os <0.01 | 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 <0.2 | 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 | | Ta <0.02 | Zn <0.02 | | | | | | | |
| B <0.02 | Cu <0.02 | | Pb <0.02 | Nd <0.02 | K <0.2 | Sc <0.2 | | | Tl <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 certified (+/-) 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).



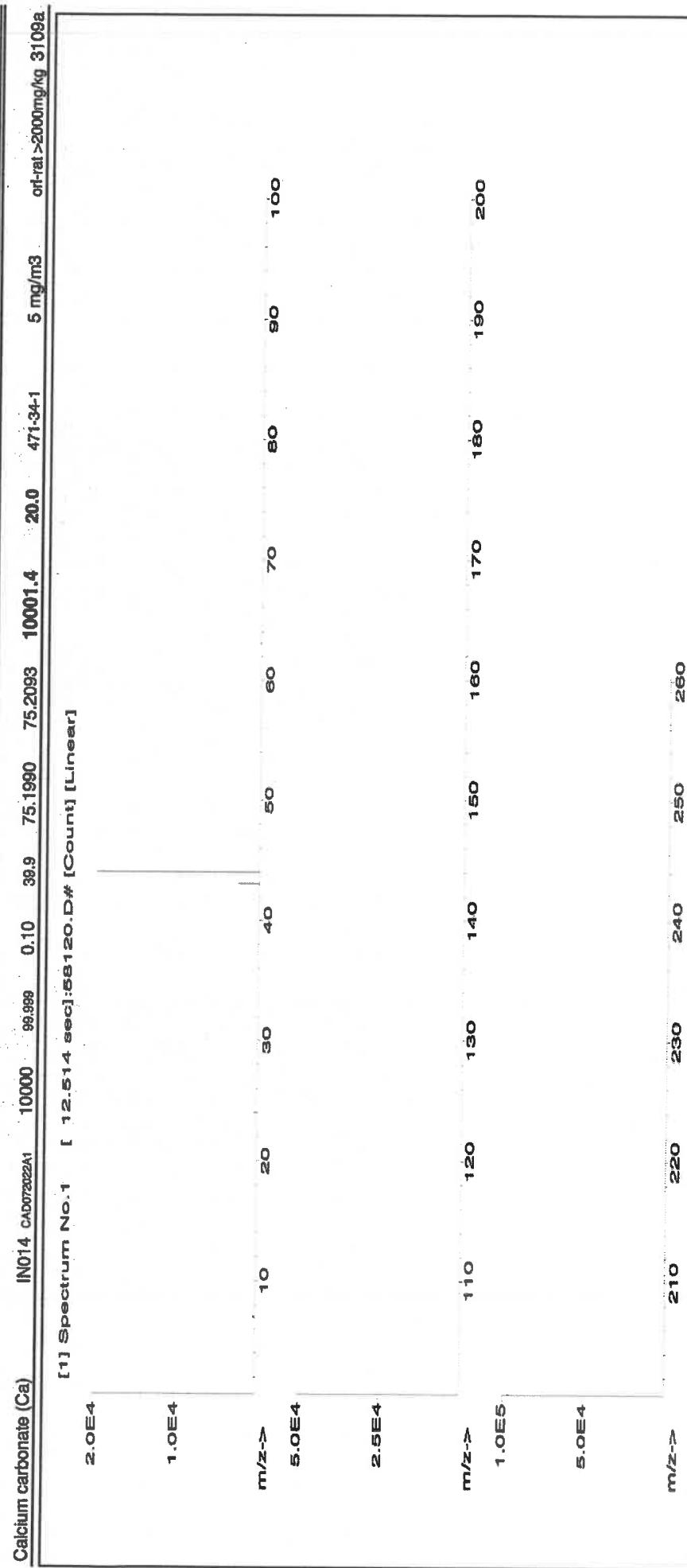
Certified Reference Material CRM

M5497 - M5498
R 203/17/23 (D)

CERTIFIED WEIGHT REPORT:

| | | | | | |
|--|---------------------|---------------|-------------------|-----------------|-------------|
| Part Number: | <u>58120</u> | Lot #: | 21110221 | Solvent: | Nitric Acid |
| Lot Number: | <u>031523</u> | | | | |
| Description: | <u>Calcium (Ca)</u> | | | | |
| Expiration Date: | 03/15/26 | | | | |
| Recommended Storage: | Ambient (20 °C) | | | | |
| Nominal Concentration (µg/mL): | 10000 | | | | |
| NIST Test Number: | 6UTB | | | | |
| Weight shown below was diluted to (mL): | 3000.41 | 0.058 | Flask Uncertainty | | |

| Compound | Lot | Nominal | Purity | Assay | Target | Actual | Actual | Expanded | SDS Information |
|---------------------------|------------|----------------|---------------|--------------|---------------|---------------|---------------|-----------------|--|
| | R# | Number | Conc. (µg/mL) | (%) | Purity (%) | (%) | Weight (g) | Weight (g) | (Solvent Safety Info. On Attached pg.) |
| 1. Calcium carbonate (Ca) | IN014 | CAD072022A1 | 10000 | 99.999 | 0.10 | 39.9 | 75.1990 | 75.2093 | 10001.4 |





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www.absolutestandards.com

33-368-1131

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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 ($\mu\text{g/mL}$)

□ = Target audience

Physical Characterization:

Heterogeneity: No heterogeneity was observed in the generation of this strand.

Certified by:

John
D.

* 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

* All standards are cleaned prior to use.
 * All standards are calibrated gravimetrically using balances that are calibrated with weights traceable to NIST (see above) before the preparation of all standards.

Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

* 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).

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Absolute Standards, Inc.800-368-1131
www.absolutestandards.com**Certified Reference Material CRM**

M5514, M5515 R: 03/13/23

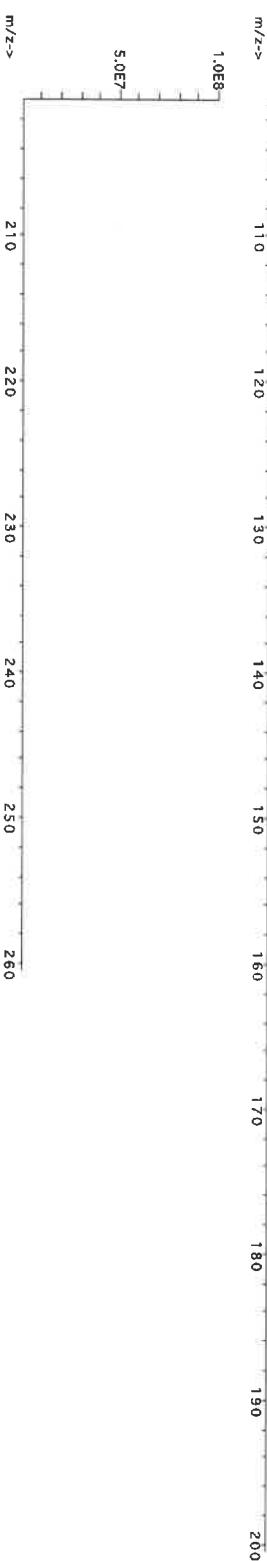
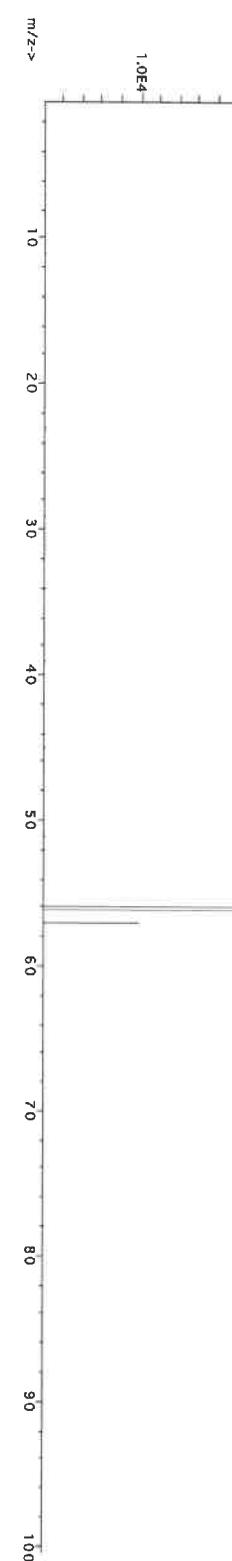
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>**CERTIFIED WEIGHT REPORT:**

| Part Number: | 58126 | Lot # |
|---|------------------|-------|
| Lot Number: | 092122 | |
| Description: | Iron (Fe) | |
| Expiration Date: | 092125 | |
| Recommended Storage: | Ambient (20 °C) | |
| Nominal Concentration ($\mu\text{g/mL}$): | 10000 | |
| NIST Test Number: | 6UTB | |

Weight shown below was diluted to (mL): 5000.1 0.12 Flask Uncertainty

| Compound | Rm# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. ($\mu\text{g/mL}$) | Expanded Uncertainty +/- ($\mu\text{g/mL}$) | (Solvent Safety Info. On Attached pg.) | NIST CAS# |
|--------------|-----|-------------------|------------------------------------|------------|------------------------|-----------|-------------------|-------------------|-----------------------------------|---|--|---------------------------------|
| 1. Iron (Fe) | | IN346 2224912-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | 10001.5 | 20.0 | 7439-89-6 | 5 mg/m3 orl-rat 7500mg/kg 3126a |

[1] Spectrum No.: 1 [30.763 sec]; 58126.D# [Count] [Linear]



| | |
|--------------------------|------------------------|
| <i>Giovanni Esposito</i> | <i>Pedro L. Rentas</i> |
| Reviewed By: | Pedro L. Rentas |
| 092122 | 092122 |

SDS Information

(Solvent Safety Info. On Attached pg.)

OSHA PEL (TWA)

LD50

SRM



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.10 | Pt | <0.02 | Se | <0.2 | Tb | <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 | |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | As | <0.02 | Tl | <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 | |
| 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 | |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sa | <0.02 | |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Tb | <0.02 | Zn | <0.05 | |
| | | | | | | | | | | | | | | | | | Zr | <0.02 |

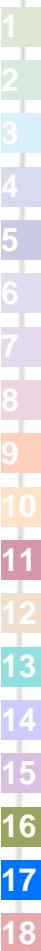
(T)= Target analyte

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 certified (+/-) 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).





CERTIFIED WEIGHT REPORT:

Part Number: 58024
Lot Number: 060523
Description: Chromium (Cr)

Lot #: 2110221
Solvent: Nitric Acid

Expiration Date: 060526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/ml): 1000
NIST Test Number: 6UTB

Volume shown below was diluted to (mL): 2000.02

2.0% Balance Uncertainty

40.0 (mL)

Nitric Acid

Initial

Final

+/- (µg/ml)

Conc. (µg/ml)

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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 |
| Si | <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 | O | <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 | Ta | <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.

- * 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 certified (+/-) 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).

Certified by:



Certified Reference Material CRM

M5697 R 10/27/23



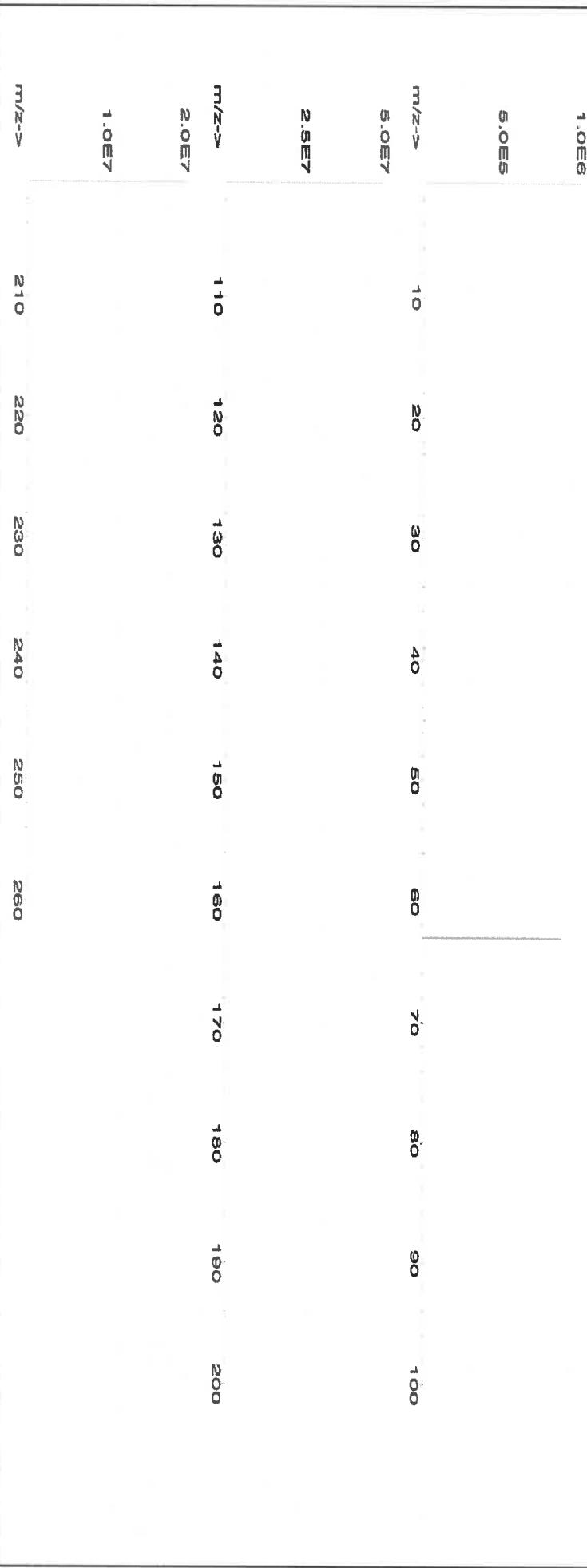
CERTIFIED WEIGHT REPORT:

Part Number: 58029
Lot Number: 102523
Description: Copper (Cu)

Expiration Date: 102526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UJB
Volume shown below was diluted to (mL): 2000.02 5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| 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) | (Solvent Safety Info. On Attached pg.) CAS# | NIST OSHA PEL (TWA) LD50 | SDS Information |
|---------------------------------------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|---|--------------------------|-------------------------|
| 1. Copper(II) nitrate trihydrate (Cu) | 58129 | 100223 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | 1000.0 | 2.2 | 10031-43-3 | 1 mg/m3 | oral-rat 794 mg/kg 3114 |

[1] Spectrum No.1 [33.422 sec]:58029.D# [Count] [Linear]



| | | |
|--------------|-----------------|--------|
| Reviewed By: | Pedro L. Rentas | 102523 |
| Benson Chan | | |


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

| | | Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|----|-------|--|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| 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 | Pt | <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 | Pr | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 | | |
| B | <0.02 | Cu | T | <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 certified (+/-) 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).



Certified Reference Material CRM



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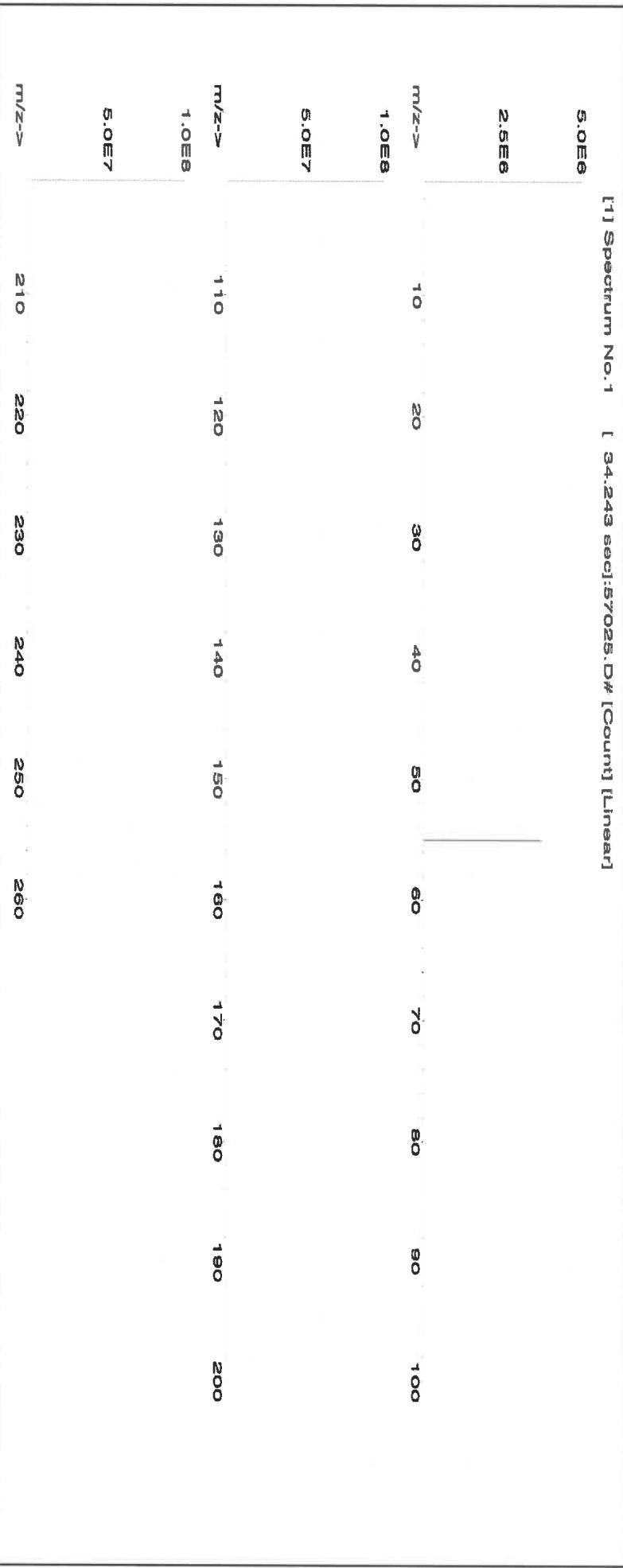
CERTIFIED WEIGHT REPORT:

| Part Number: | 58025 | Lot # | 2402546 | Solvent: | Nitric Acid |
|----------------------|-----------------------|-------|----------------|-------------|-------------|
| Lot Number: | 102623 | | | | |
| Description: | Manganese (Mn) | | | | |
| Expiration Date: | 102626 | 2.0% | 60.0 | Nitric Acid | |
| Recommended Storage: | Ambient (20 °C) | (mL) | | | |

| | | |
|----------------|-----------------|--------|
| Formulated By: | Benson Chan | 102623 |
| Reviewed By: | Pedro L. Rentas | 102623 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty (+/- µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) | NIST CAS# OSHA PEL (TWA) LD50 SRM |
|--|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|--|-----------------------------------|
| 1. Manganese(II) nitrate tetrahydrate (Mn) | 58125 | 071123 | 0.1000 | 300.0 | 0.084 | 1000 | 10000.1 | 1000.0 | 2.1 | 20694-39-7 5 mg/m3 oral-rat >300mg/kg | 3132 |

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



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

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

| | | | | | | | | | | | | | | | | | | | |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | Tc | <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 | <0.01 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Vb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | Pd | <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 | Ta | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

Physical Characterization:

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

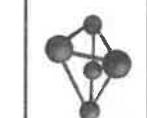
Certified by:

- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

R:12/20/23 M57417
Certified Reference Material CRM



Part Number:
57082
Lot Number:
100923
Description:
Lead (Pb)

Expiration Date:
100926
Recommended Storage:
Ambient (20 °C)
Nominal Concentration (µg/mL):
1000
NIST Test Number:
6JTB

Weight shown below was diluted to (mL):

3000.41

5E-05 Balance Uncertainty

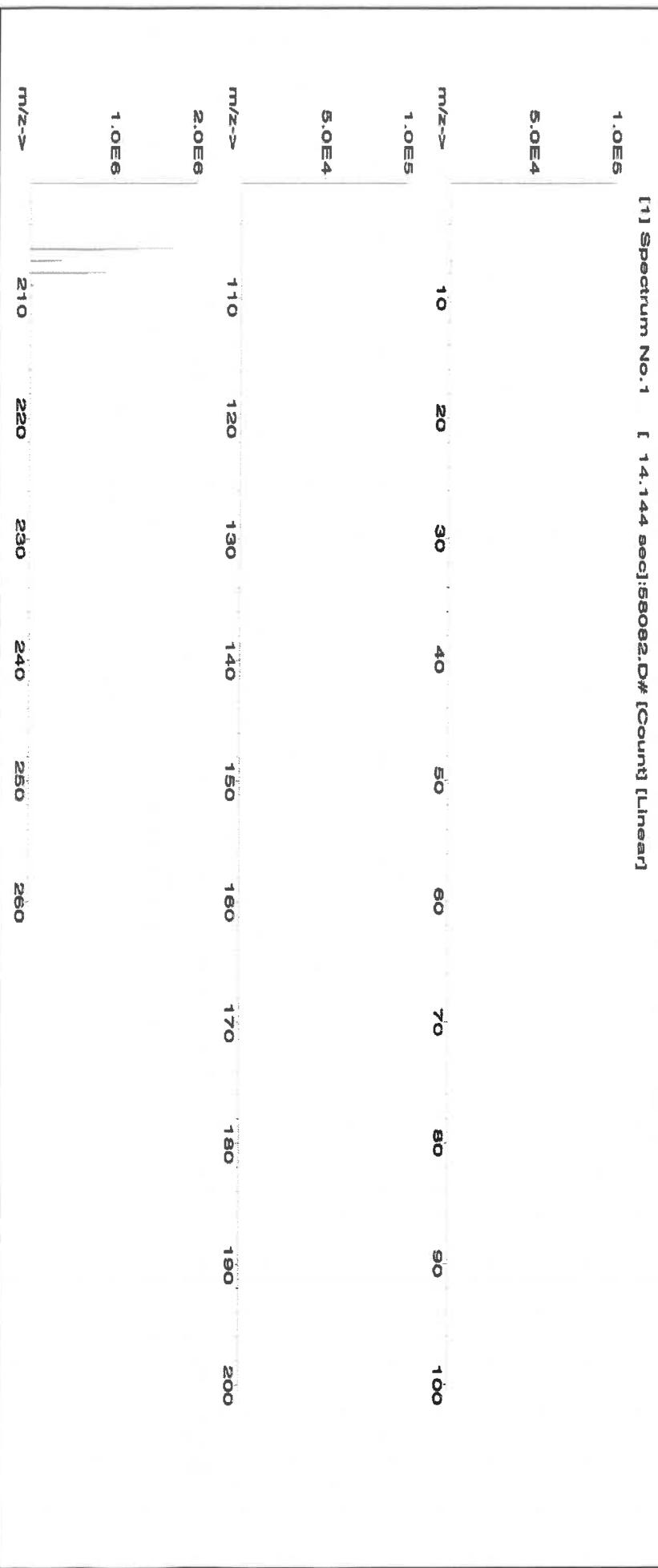
0.06 Flask Uncertainty

Solvent: 24002546 Nitric Acid
Lot #: **57082**
Formulated By: Lawrence Barry
Reviewed By: Pedro L. Rentas
100923

| | | SDS Information | | | |
|--|--|--|-------------|---------------------|----------------|
| | | (Solvent Safety Info. On Attached pg.) | | NIST | SRM |
| | | Expanded Uncertainty | +/- (µg/mL) | CAS# | OSHA PEL (TWA) |
| | | 10092-74-8 | 0.05 mg/m3 | Intnrs-rat 83 mg/kg | 3128 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay Target | Actual Weight (g) | Actual Weight (g) | Conc. (µg/mL) | +/-(µg/mL) | CAS# | OSHA PEL (TWA) | LD50 |
|--------------------------|-------|-------------|-----------------------|------------|-----------------|--------------|-------------------|-------------------|---------------|------------|------------|----------------|---------------------|
| 1. Lead(II) nitrate (Pb) | I0029 | Pb0122016A1 | 1000 | 99.999 | 0.10 | 62.5 | 4.80071 | 4.80077 | 1000.0 | 2.0 | 10092-74-8 | 0.05 mg/m3 | Intnrs-rat 83 mg/kg |

[1] Spectrum No. 1 [14.144 sec]:58082.D# [Count] [Linear]



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<https://Absolutestandards.com>

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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | Hg | <0.2 | Pt | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 | Zr | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Pr | <0.02 | Sm | <0.02 | S | <0.02 | Ta | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | T | <0.02 | Nd | <0.02 | K | <0.2 | Ta | <0.02 | Ti | <0.02 | | | | |

(T)= Target analyte

Certified by:

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

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

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www.absolutestandards.com



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

| | | | |
|--------------|-------------|---------|-------------|
| Part Number: | 57028 | Lot # | Solvent: |
| Lot Number: | 091223 | 2402546 | Nitric Acid |
| Description: | Nickel (Ni) | | |

Expiry Date: 091228
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

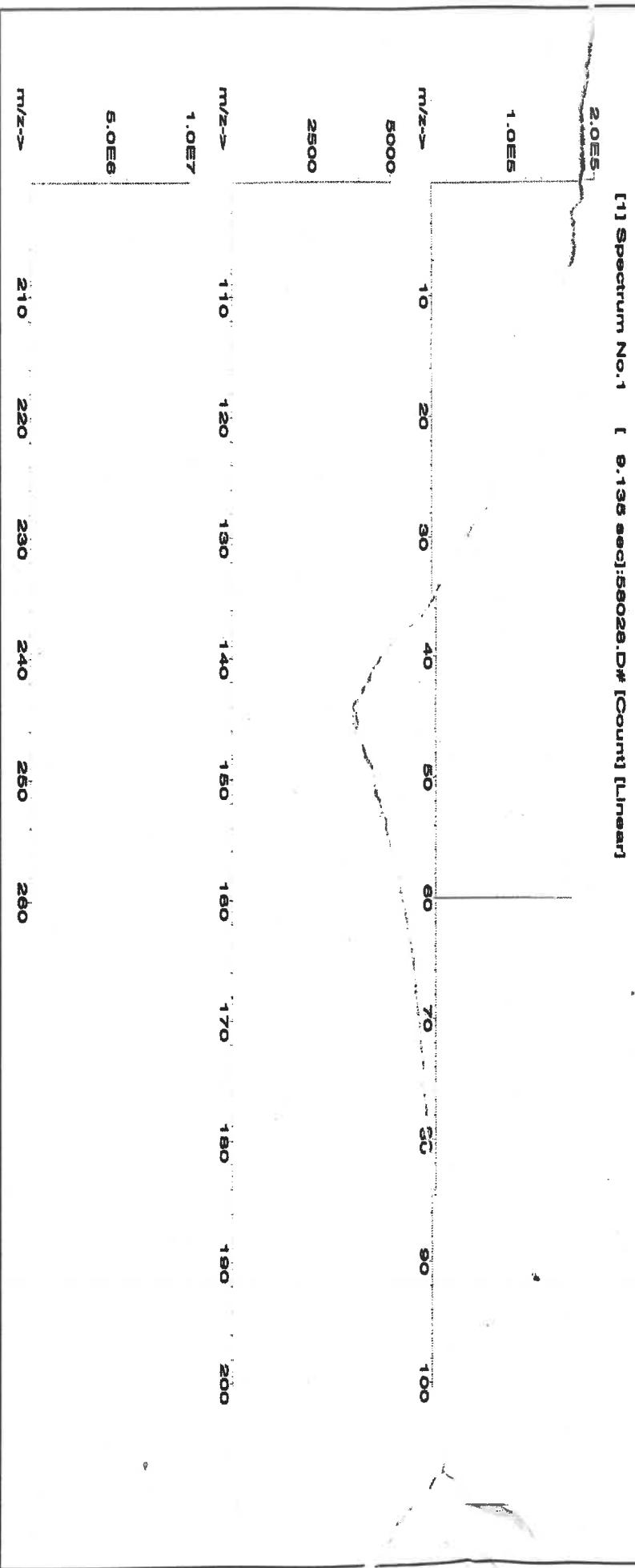
| | | |
|-------|---------------------|-------------|
| 2.0% | 40.0 | Nitric Acid |
| (mL) | | |
| 5E-05 | Balance Uncertainty | |
| 0.058 | Flask Uncertainty | |

| | | |
|-----------------|----------------|--------|
| Reviewed By: | Lawrence Barry | 091223 |
| Pedro L. Rentas | | |

| | | |
|-----------------|----------------|--------|
| Reviewed By: | Lawrence Barry | 091223 |
| Pedro L. Rentas | | |

| | | |
|-----------------|--|--------|
| SDS Information | (Solvent Safety Info. On Attached pg.) | NIST |
| CAS# | OSHA PEL (TWA) | LD50 |
| Reviewed By: | Lawrence Barry | 091223 |
| Pedro L. Rentas | | |

| 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) | (Solvent Safety Info. On Attached pg.) | NIST |
|--|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|--|----------------------------------|
| 1. Nickel(II) nitrate hexahydrate (Ni) | 58128 | 082023 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.4 | 1000.0 | 2.2 | 13476-00-7 | 1 mg/m3 oral-rat 1620 mg/kg 3136 |



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|------|-------|----|-------|----|-------|----|-------|-------|-------|---|-------|--|--|--|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | T | <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 | Tc | <0.02 | U | <0.02 | V | <0.02 | | | |
| As | <0.2 | Cr | <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 | Pd | <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 | Ta | <0.02 | Zn | <0.02 | | | | | |
| | <0.02 | | <0.02 | | <0.02 | | <0.02 | | | <0.2 | | | <0.02 | | <0.02 | | | <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.
- * ^{Percent} Purity: 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).
- * All Standards are certified (+/-) 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).



M5768 M5769 R:V3/24 Certified Reference Material CRM 11 12 13 14 15 16 17 18

CERTIFIED WEIGHT REPORT:

| Part Number: | 58112 | Solvent: | 24002546 | Nitric Acid |
|--|-----------------|--------------|-----------------------|--|
| Lot Number: | 091823 | Lot # | | |
| Description: | Magnesium (Mg) | | | |
| Expiration Date: | 091826 | 2% | 40.0 (mL) | Nitric Acid |
| Recommended Storage: | Ambient (20 °C) | M5768, M5769 | (BP) | R: V3/24 |
| Nominal Concentration (ug/mL): | 10000 | 5E-05 | Balance Uncertainty | |
| NIST Test Number: | 6UTB | 0.058 | Flask Uncertainty | |
| Weight shown below was diluted to (mL): | 2000.02 | | | |
| Compound | RM# | Lot Number | Nominal Conc. (ug/mL) | Purity (%) |
| | | | | Uncertainty (%) |
| 1. Magnesium nitrate hexahydrate (Mg) IN030 wad0220201 | 10000 | 98.999 | 0.10 | 8.51 |
| | | | | Assay Target |
| | | | | Actual Weight (g) |
| | | | | Actual Weight (g) |
| | | | | Actual Conc. (ug/ml) |
| | | | | +/- (ug/ml) |
| | | | | Expanded Uncertainty |
| | | | | (Solvent Safety Info. On Attached pg.) |
| | | | | CAS# OSHA PEL (TWA) |
| | | | | LD50 |
| | | | | NIST SRM |
| | | | | on-rat 5440 mg/kg 3131a |

[1] Spectrum No. 1 [19.923 sec]:58112-D# [Count] [Linear]

m/z-->

1.0E6

5.0E5

1.0E5

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1.0E4

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1.0E2

1.0E1

1.0E0

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

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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 ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | Tc | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.02 | Os | <0.02 | Rb | <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 | Tn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <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:

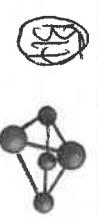
- * The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- * Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- * All standard 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 certified (+/-) 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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AR-1539 Certificate Number
<https://Absolutestandards.com>

CERTIFIED WEIGHT REPORT:

| | | | |
|--------------|----------------|----------|-------------|
| Part Number: | 57004 | Lot #: | Solvent: |
| Lot Number: | 102523 | 24002546 | Nitric Acid |
| Description: | Beryllium (Be) | | |

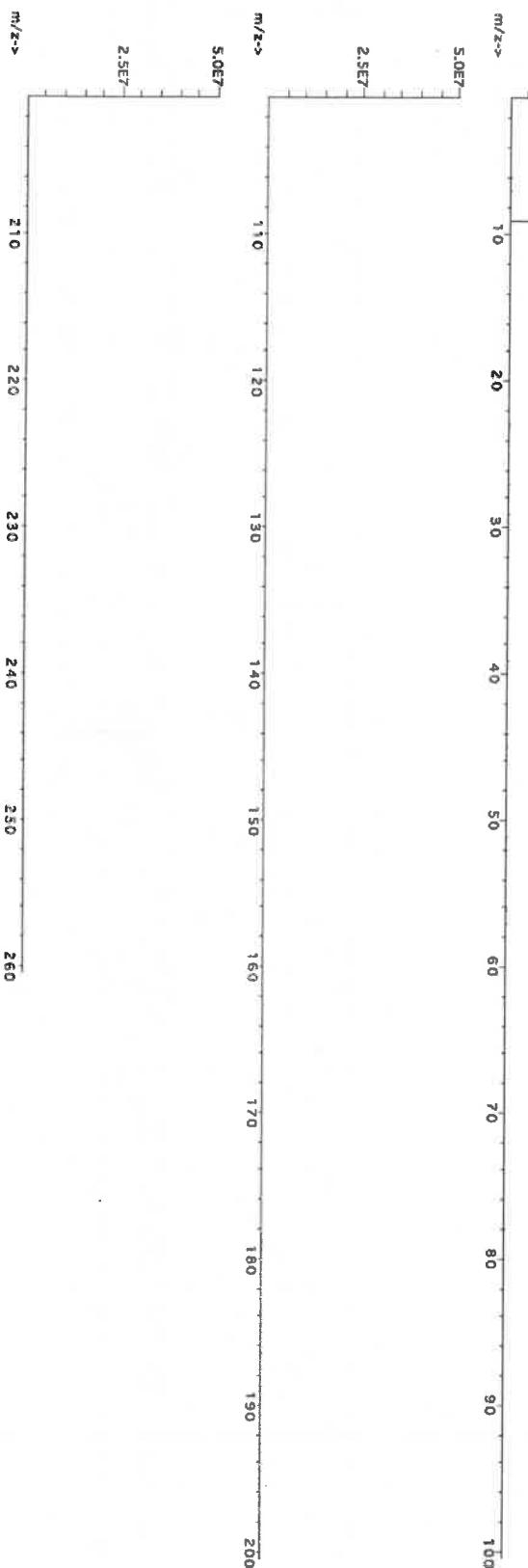
| | | | | |
|---|-----------------|-------|---------------------|-------------|
| Expiration Date: | 102526 | 2.0% | 40.0 | Nitric Acid |
| Recommended Storage: | Ambient (20 °C) | (mL) | | |
| Nominal Concentration (µg/mL): | 1000 | | | |
| NIST Test Number: | 6UTB | | | |
| Volume shown below was diluted to (mL): | 2000.02 | 5E-05 | Balance Uncertainty | |
| | | 0.058 | Flask Uncertainty | |

| | | | | |
|--------------|-----------------|--|-----------------------|----------------|
| Reviewed By: | | Expanded Uncertainty | SDS Information | NIST |
| | | (Solvent Safety Info. On Attached pg.) | (Attached pg.) | |
| Reviewed By: | Pedro L. Rentas | +/-(µg/mL) | CAS# | OSHA PEL (TWA) |
| | 102523 | ±0.0001.5 | 13597-99-4 | LD50 |
| | | 1000.0 | 0.2µg/m3 | NA |
| | | 2.2 | int/nvs-rel 3.16mg/kg | SRM |

1. Beryllium nitrate (Be)

| 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) | +/-(µg/mL) | CAS# | (Attached pg.) | NIST |
|---------------------------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|------------|------------|----------------|-----------------------|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | 1000.0 | 2.2 | 13597-99-4 | 0.2µg/m3 | int/nvs-rel 3.16mg/kg |
| | | | | | | | | | | | | NA |

[1] Spectrum No. 1 [29.233 sec] :5800-AR.D# [Count] [Linear]



m/z-->

2.5E7

5.0E7

110 120 130 140 150 160 170 180 190 200

210 220 230 240 250 260



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Tc | <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 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Tb | <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 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sa | <0.02 |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ta | <0.02 | Tl | <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 certified (+/-) 0.5% of the stated value, unless otherwise stated.

All Standards should be stored with caps tight and under appropriate laboratory conditions.

- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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<https://Absolutestandards.com>

CERTIFIED WEIGHT REPORT:

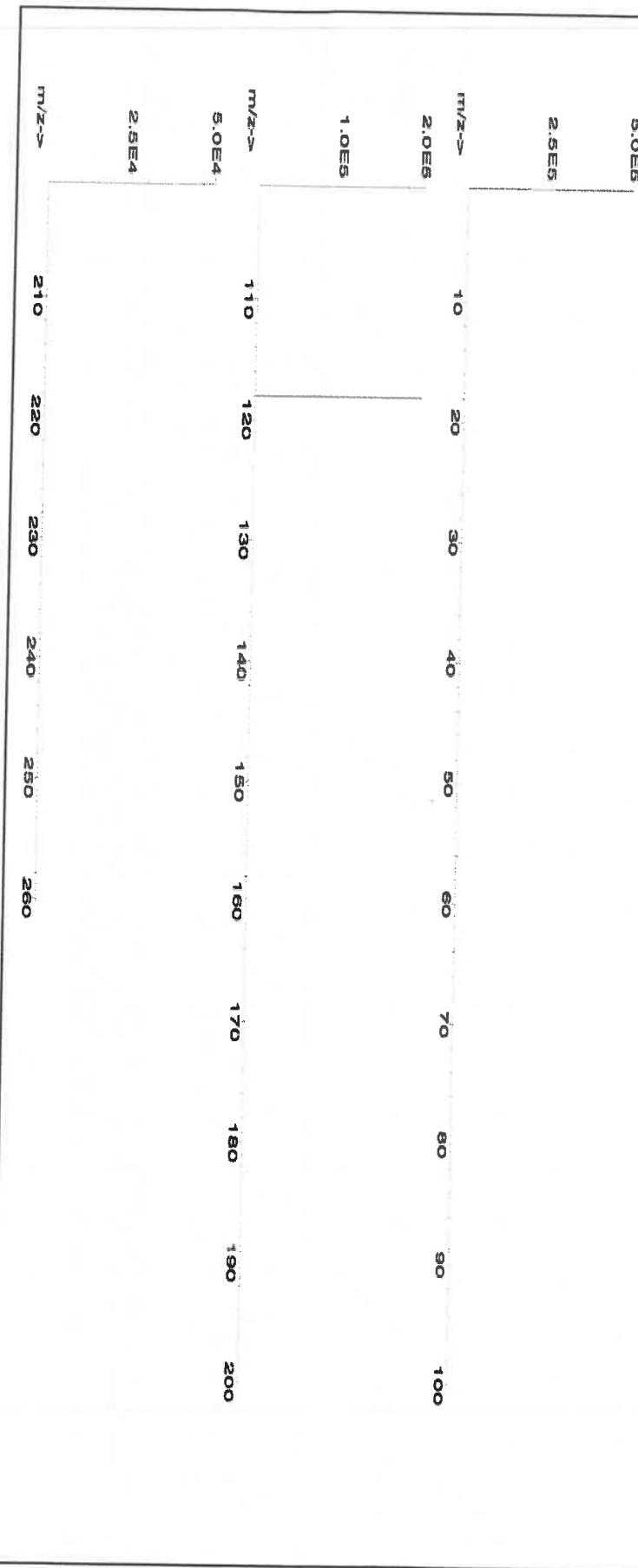
Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

Expiration Date: 07/1128
Recommended Storage: Ambient (20 °C)
Nominal Concentration ($\mu\text{g/mL}$): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93
5E-05 balance Uncertainty
0.058 Flask Uncertainty

| | |
|----------------|-----------------|
| Reviewed By: | Pedro L. Rentas |
| Formulated By: | Benson Chan |
| Lot # | M15999 |

| Compound | RMP# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty (%) | Assay Purity (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. ($\mu\text{g/mL}$) | Expanded Uncertainty (+/-) ($\mu\text{g/mL}$) | (Solvent Safety Info. On Attached pg.) CAS# OSHA PEL (TWA) | NIST LD50 | SRM | |
|---|--------|-------------|------------------------------------|------------|-----------------|------------------|-------------------|-------------------|-----------------------------------|---|--|-----------|-----|-------|
| 1. Ammonium hexafluorostannate(IV) (Sn) | ING010 | SND042023A1 | 1000 | 99.999 | 0.10 | 44.2 | 1.13107 | 1.13286 | 1001.6 | 2.0 | 16919-24-7 | 7 mg/m3 | NA | 3161a |

[1] Spectrum No.1 [15.034 sec]:58150.D# [Count] [Linear]





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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <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 | Sn | <0.02 | S | <0.02 | Tn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Ph | <0.02 | Nd | <0.02 | K | <0.02 | 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).
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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



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

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

| | Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | |
|----|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | Al | Cd | Dy | Hf | Li | Ni | Pt | Se | Tb | Tc | Tl | W | Y | Zr | | | | |
| Sn | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| As | <0.2 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | U | <0.02 | | | |
| Ba | <0.02 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Ag | <0.02 | V | <0.02 | | | |
| Be | <0.01 | Cr | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Na | <0.2 | Yb | <0.02 | | | |
| Bi | <0.02 | Co | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Y | <0.02 | | | |
| B | <0.02 | Cu | <0.02 | T | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | S | <0.02 | Zn | <0.02 | | | |
| | | | | Pb | <0.02 | Nd | <0.02 | Pa | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr |

(T)= Target analyte

Physical Characterization:

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.

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CERTIFIED WEIGHT REPORT:

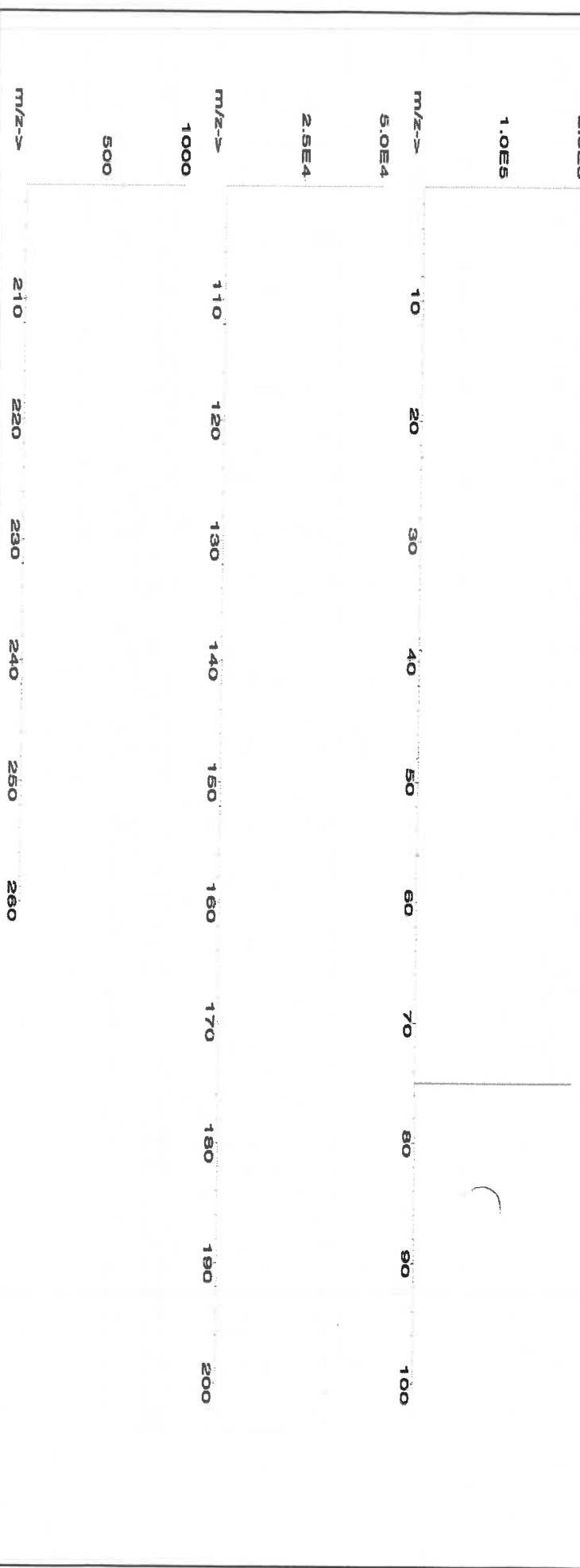
Part Number: 57033
Lot Number: 111323
Description: Arsenic (As)

Expiration Date: 111326
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UJB
Volume shown below was diluted to (mL): 4000.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.06
Part Number: 24002546
Solvent: Nitric Acid
Conc. (µg/mL): 2.0%
(mL): 80.0
Nitric Acid:

| | | | |
|---|-----------------------|---|------------------------|
| Reviewed By: | <i>Lawrence Barry</i> | Formulated By: | <i>Pedro L. Rentas</i> |
| Reviewed By: | <i>Lawrence Barry</i> | Formulated By: | <i>Pedro L. Rentas</i> |
| SDS Information | | SDS Information | |
| Expanded Uncertainty (Solvent Safety Info. On Attached pg.) | | Expanded Uncertainty (Solvent Safety Info. On Attached pg.) | |
| +/- (µg/mL) | | +/- (µg/mL) | |
| CAS# | | OSHA PEL (TWA) | |
| LD50 | | LD50 | |
| NIST SRM | | NIST SRM | |

| 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) | Reviewed By: |
|-----------------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|-----------------------|
| 1. Arsenic (As) | 58133 | 020522 | 0.1000 | 400.0 | 0.084 | 1000 | 10001.0 | 1000.0 | <i>Lawrence Barry</i> |

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]



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

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

| | | | | | | | | | | | | | | | | | | | |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | Ca | <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 | Ta | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

Physical Characterization:

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

Certified by:

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- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



CERTIFIED WEIGHT REPORT:

Part Number:

57005

071123

Boron (B)

Description:

Expiration Date:

071126

Recommended Storage:

1000

Nominal Concentration ($\mu\text{g/mL}$):

6UTB

NIST Test Number:

Weight shown below was diluted to (mL):

1999.48

5E-05 Balance Uncertainty

Flask Uncertainty

Ammonium hydroxide

2.0% (mL)

Lot #

A1 02/09/24 M.5814

Solvent: MKBC8597V Ammonium hydroxide

Formulated By:

Benson Chan

071123

Reviewed By:

Pedro L. Rentas

071123

SDS Information

(Solvent Safety Info. On Attached pg.)

NIST

OSHA PEL (TWA)

LD50

SRM

on-rat 2660 mg/kg 3107

Expanded Uncertainty

(\pm (ug/mL))

CAS#

071123

1. Boric acid (B)

IN018 BN092016A1

1000

99.9999

0.10

17.3

11.55772

11.56201

1000.4

2.0

10043-35-3

2 mg/m3

1.0E4

2.0E4

m/z-->

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2.5E6

5.0E6

m/z-->

110

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

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

| | | | | | | | | | | | | | | | | | | | |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | Tc | <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 | Pr | <0.02 | Sm | <0.02 | S | <0.02 | Tn | <0.02 | Zn | <0.02 |
| B | T | Cu | <0.02 | Pt | <0.02 | Pa | <0.02 | Na | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

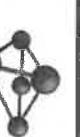
(T) = Target analyte

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

R 1 0 2 1 0 9 / 2 4 M 5 8 1 5

Part Number: 57115
Lot Number: 041723
Description: Phosphorous (P)

Solvent: 2110221 Nitric Acid

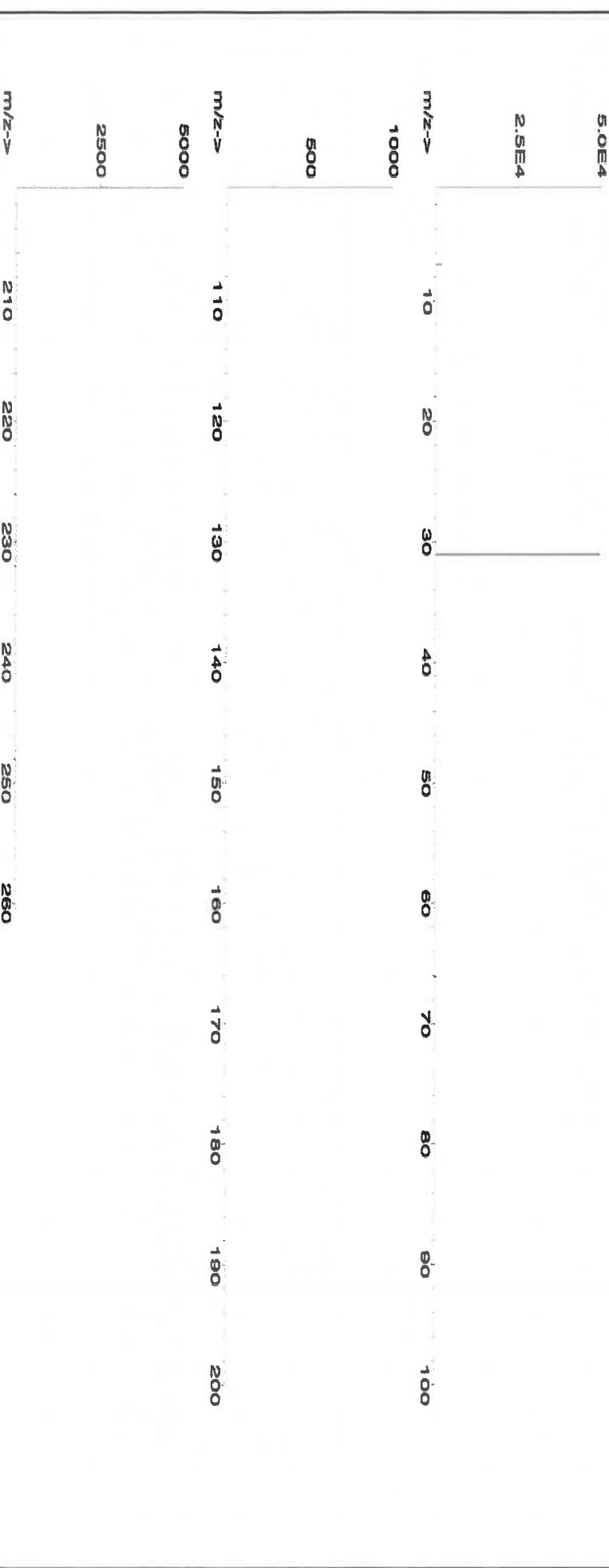
Lot #: 20.0
R# 5.0E-4
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UJB

Reviewed By: Lawrence Barry
Signature:
Pedro L. Rentas
Signature:
041723

Weight shown below was diluted to (mL): 2000.02
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UJB
Weight shown below was diluted to (mL): 2000.02
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UJB

| Compound | R# | Lot | Nominal Number | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty (+/- µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) | NIST CAS# | OSHA PEL (TWA) | LD50 | 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 | on-rat>2000mg/kg | 3186 | |

[1] Spectrum No. 1 [12.074 sec]:58-115.D# [Count] [Linear]



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|--|--|--|--|
| 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 | Rb | <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 | Pt | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 | | | | |
| Be | <0.01 | Cr | <0.02 | Fe | <0.02 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | T | <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 | Ta | <0.02 | Zn | <0.02 | | | | |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | | | K | <0.2 | Sc | <0.02 | Ta | <0.02 | | | Tl | <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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

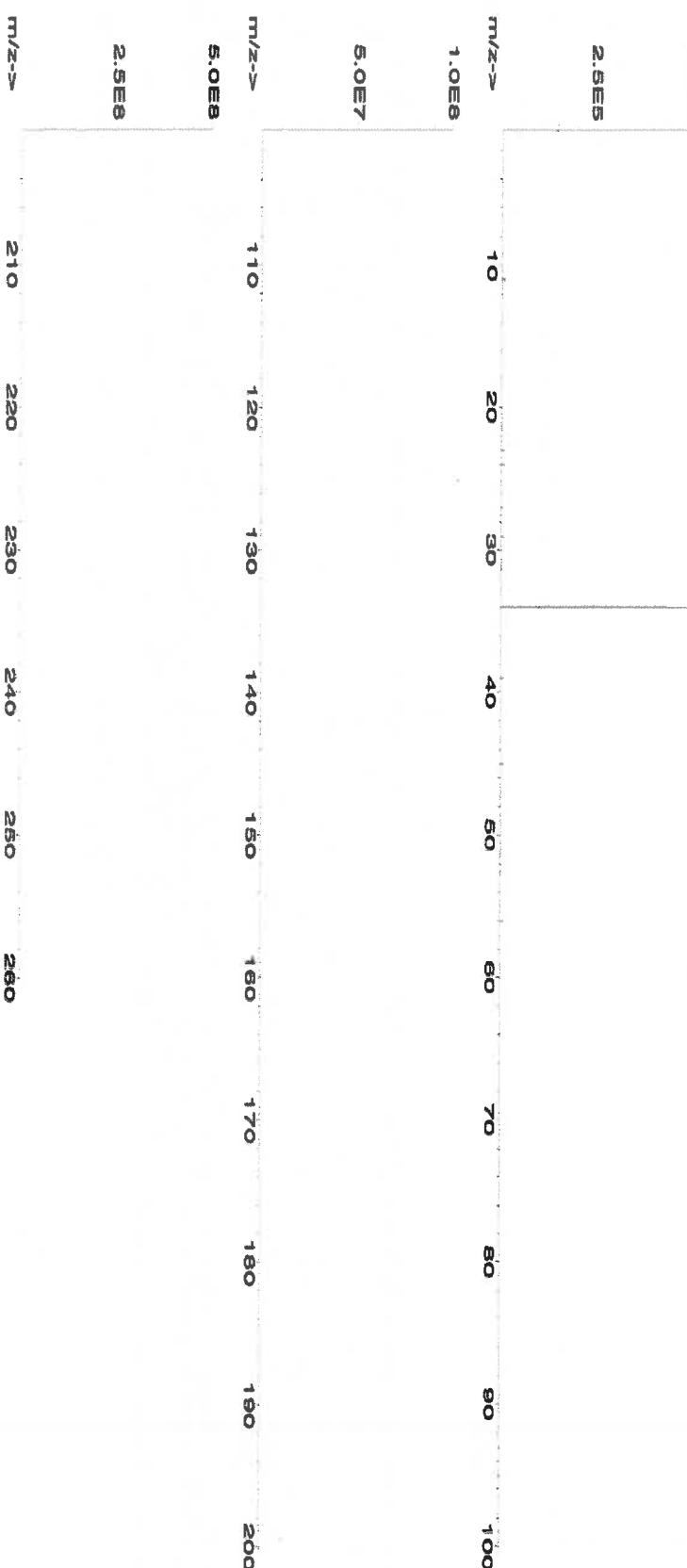
Part Number: 57016
Lot Number: 122923
Description: Sulfur (S)

Lot #: R102109124 M65816
Solvent: 122923 ASTM Type 1 Water

Expiration Date: 122926
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: GUTB
Weight shown below was diluted to (mL): 4000.0
5E-05 Balance Uncertainty

| 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) | (Solvent Safety Info. On Attached pg.) | SDS Information | NIST SRM |
|-------------------------|-------|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|--|-----------------|-----------------------|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 1000 | 99.9 | 0.10 | 24.3 | 16.4979 | 16.4980 | 1000.0 | 2.0 | 7783-20-2 | NA | ot-rat 4250mg/kg 3181 |

[1] Spectrum No. 1 [33.603 sec]:57016.D# [Count] [Linear]



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|----------------|-----------------|--------|
| Reviewed By: | Pedro L. Rentas | 122923 |
| Formulated By: | Benson Chan | 122923 |

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

| | | Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|----|-------|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|--|--|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <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 | Tc | <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 | <0.1 | 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 | Sm | <0.02 | T | <0.02 | Sa | <0.02 | Zn | <0.02 | Zr | <0.02 | | |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Ta | <0.02 | Sc | <0.02 | Ti | <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 certified (+/-) 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),



Certified Reference Material CRM

CERTIFIED WEIGHT REPORT:

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

071126

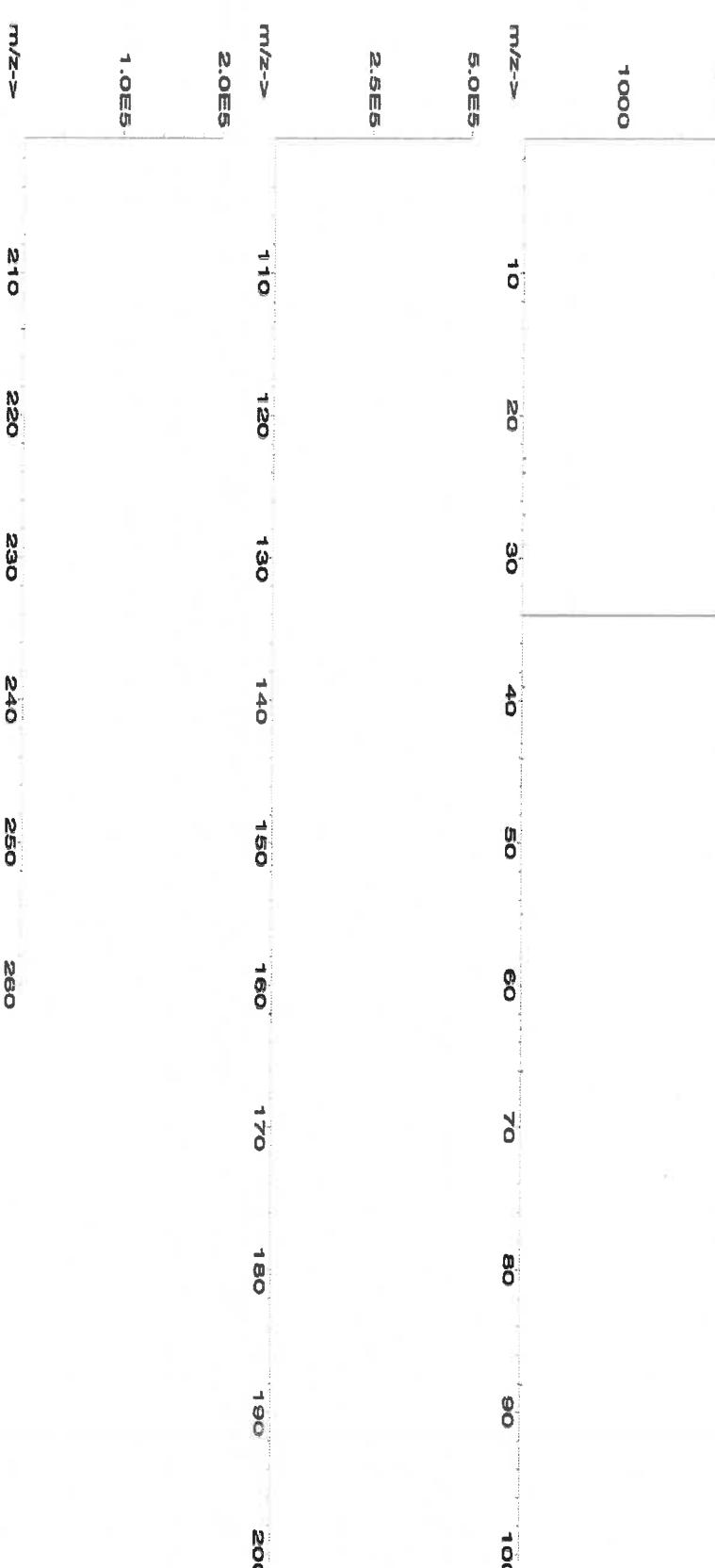
Expiration Date: 071126
Nominal Concentration ($\mu\text{g/mL}$): Ambient (20 °C)
NIST Test Number: 10000
Weight shown below was diluted to (mL): 1999.48

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Compound

| Compound | RM# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty (%) | Assay Target | Actual Weight (g) | Actual Weight (g) | Actual Conc. ($\mu\text{g/mL}$) | Expanded Uncertainty +/- ($\mu\text{g/mL}$) | (Solvent Safety Info. On Attached pg.) CAS# OSHA PEL (TWA) | NIST LD50 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 |

[1] Spectrum No. 1 [24.004 sec]:58116.D# [Count] [Linear]



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|-----------------------|------------------------|
| <i>Lawrence Barry</i> | <i>Pedro L. Rentas</i> |
| Reviewed By: | Pedro L. Rentas |
| 071123 | |



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AR-1539 Certificate Number
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Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <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 | Tc | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rn | <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 | Tn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | Nd | <0.02 | Pr | <0.02 | K | <0.2 | Sn | <0.02 | Ta | <0.02 | Tl | <0.02 | Zr | <0.02 |

Physical Characterization:

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

(T)= Target analyte

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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

R · 02/09/24 M5818

Part Number:
57014
Lot Number:
122023
Description:
Silicon (Si)

Solvent: 24002546 Nitric Acid
Lot #

Expiration Date: 12/2026
Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):
1000

NIST Test Number: 6UTB

Weight shown below was diluted to (mL):
1999.48

(mL)

2% Nitric Acid

Formulated By: Aleah O'Brady
122023

Reviewed By: Pedro L. Rentas
122023

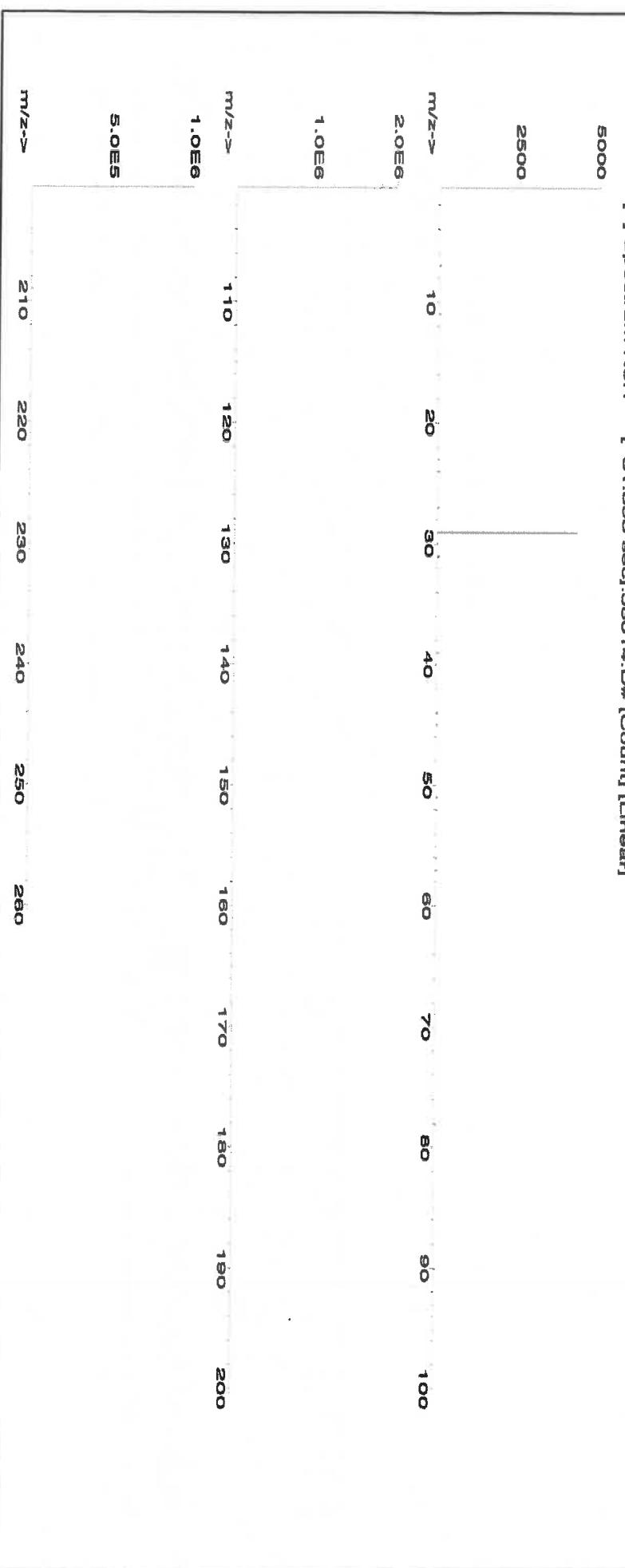
Aleah O'Brady

Pedro L. Rentas

122023

1. Ammonium hexafluorosilicate (Si) IN009 sd082022A1 1000 99.999 0.10 14.4 13.8854 13.8855 1000.0 2.0 16919-19-0 2.5mg/m3 oral-mus 70mg/kg NA

[1] Spectrum No. 1 [31.393 sec]:58014.D# [Count] [Linear]



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----------------|-------|----|-------|-------|-------|-------|-------|
| 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 | R _e | <0.02 | Si | T | <0.02 | U | <0.02 | |
| As | <0.2 | Ca | <0.02 | Eu | <0.02 | Hn | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | 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 | Pr | <0.02 | Sm | <0.02 | S | <0.02 | Ta | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | Pa | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Sn | <0.02 | Tl | <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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: **58030**
Lot Number: **111623**
Description: **Zinc (Zn)**

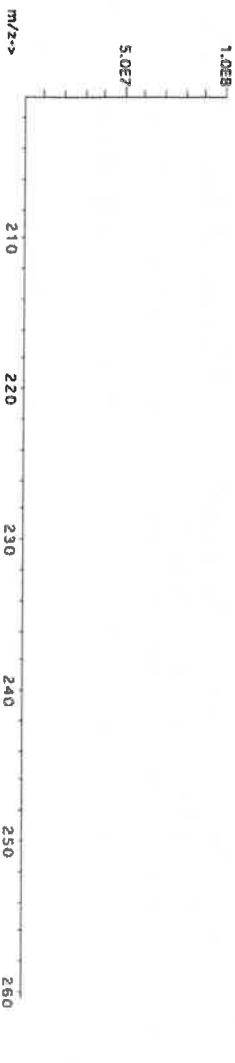
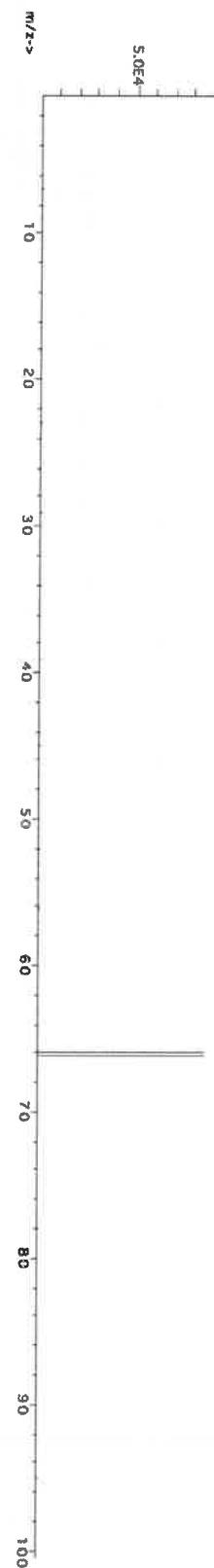
Expiration Date: **111626**
Recommended Storage: **Ambient (20 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test Number: **6UJTB**
Weight shown below was diluted to (mL): **3000.4** 5E-05 Balance Uncertainty
0.06 Flask Uncertainty

| | | |
|---------------------------------|-----------------|--------|
| Reviewed By: | Pedro L. Rentas | 111623 |
| Formulated By: | Benson Chan | 111623 |
| <i>[Handwritten signatures]</i> | | |

1. Zinc nitrate hexahydrate (Zn)

| Compound | R# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay Purity (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | (Solvent Safety Info. On Attached pg.) CAS# | SDS Information | NIST OSHA PEL (TWA) | LD50 | SRM |
|---|--------------------------|-------------|-----------------------|-------------|-----------------|------------------|-------------------|-------------------|----------------------|------------------------------------|---|-------------------------|---------------------|------|-----|
| 1. Zinc nitrate hexahydrate (Zn) | IN016_ZNE032021A1 | 1000 | 99.999 | 0.10 | 24.3 | 12.3475 | 12.3502 | 1000.2 | 2.0 | 10198-18-6 | 1 mg/m3 | or-rat 1180mg/kg | 3168 | | |

[1] Spectrum No. 1 [31.103 sec] 58130.D# [Count] [Linear]




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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|--|--|--|--|--|--|--|--|
| 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 | Tc | <0.02 | U | <0.02 | | | | | | | | |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rb | <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 | Pr | <0.02 | Sm | <0.02 | Sc | <0.02 | Ta | <0.02 | Zn | <0.02 | | | | | | | | |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Tm | <0.02 | Tl | <0.02 | Ta | <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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

R: 02/09/24 M:5820

Lot #

| Part Number: | <u>57015</u> |
|----------------------|------------------------|
| Lot Number: | <u>091123</u> |
| Description: | Phosphorous (P) |
| Expiration Date: | 091126 |
| Recommended Storage: | Ambient (20 °C) |

Nominal Concentration ($\mu\text{g/mL}$):
1000

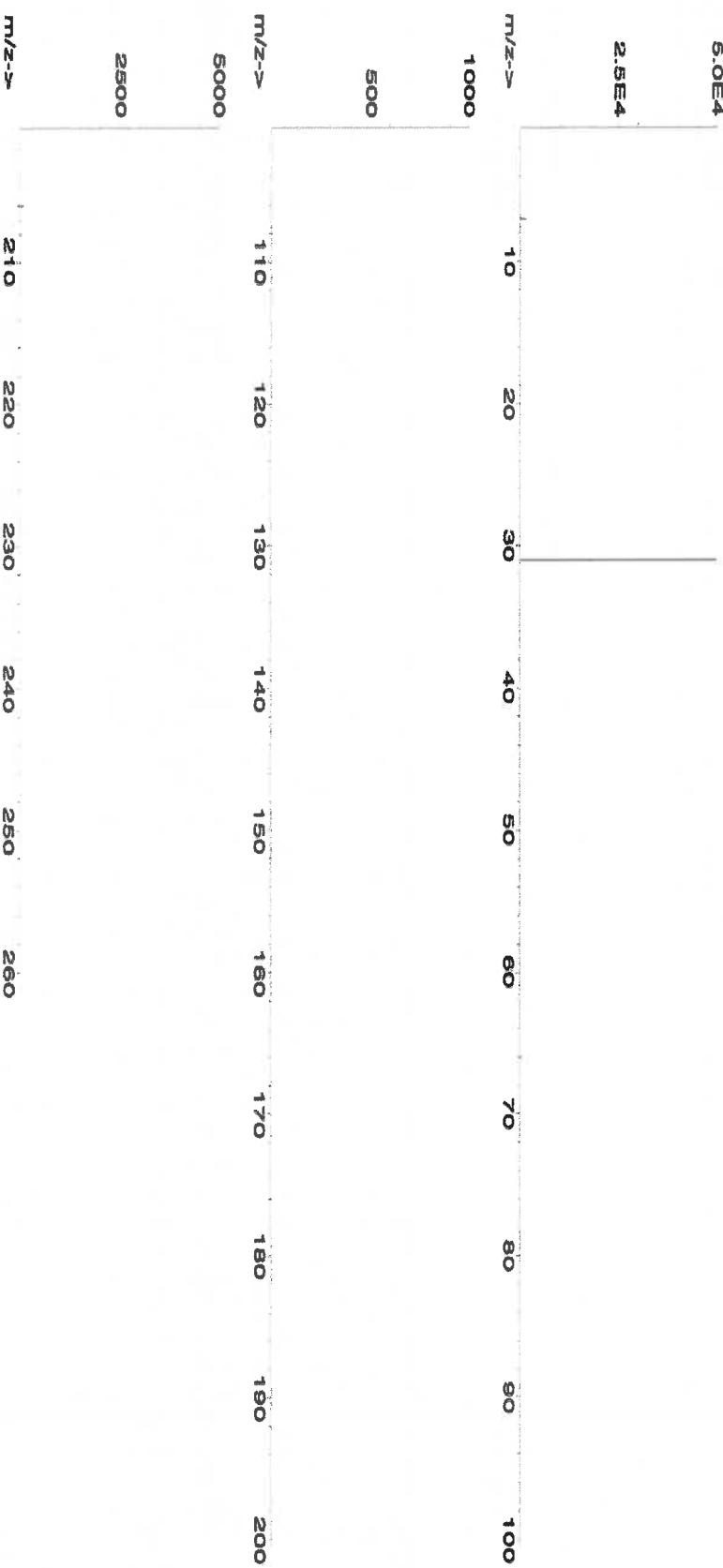
NIST Test Number:
6UTB

Weight shown below was diluted to (mL):
2000.02

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty (%) | Assay Purity (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. ($\mu\text{g/mL}$) | Expanded Uncertainty (+/- ($\mu\text{g/mL}$)) | (Solvent Safety Info. On Attached pg.) | SDS Information | Reviewed By: | Lot # |
|--------------------------------------|-------|------------|------------------------------------|------------|-----------------|------------------|-------------------|-------------------|-----------------------------------|---|--|-----------------|-----------------|--------|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 1000 | 99.999 | 0.10 | 27.5 | 7.2729 | 7.2730 | 1000.0 | 2.0 | 7722-76-1 | 5 mg/m3 | Pedro L. Renias | 091123 |

- [1] Spectrum No. 1 [12.074 sec]:58115.D#[Count] [Linear]
- m/z-->



| | | | |
|--|----------------|-----------------|--------|
| | Formulated By: | Lawrence Barry | 091123 |
| | Reviewed By: | Pedro L. Renias | 091123 |

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Absolute Standards, Inc.
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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 ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 | Br | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Tc | <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 | Pr | <0.02 | Sc | <0.02 | Ta | <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 | Tl | <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 certified (+/-) 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).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5884
MS



Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

Retest Date: 2026-06-07

Revision No.: 1

Certificate of Analysis

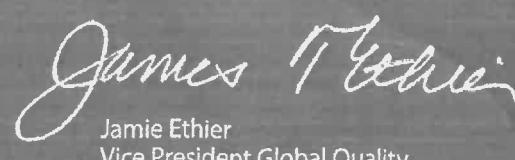
| Test | Specification | Result |
|--|---------------|-------------|
| Assay (NaCl) (by Ag titrn) | ≥ 99.0 % | 100.0 % |
| pH of 5% Solution at 25°C | 5.0 - 9.0 | 6.3 |
| Insoluble Matter | ≤ 0.005 % | 0.003 % |
| Iodide (I) | ≤ 0.002 % | < 0.002 % |
| Bromide (Br) | ≤ 0.01 % | < 0.01 % |
| Chlorate and Nitrate (as NO ₃) | ≤ 0.003 % | < 0.001 % |
| ACS - Phosphate (PO ₄) | ≤ 5 ppm | < 5 ppm |
| Sulfate (SO ₄) | ≤ 0.004 % | < 0.004 % |
| Barium (Ba) | Passes Test | Passes Test |
| ACS - Heavy Metals (as Pb) | ≤ 5 ppm | < 5 ppm |
| Iron (Fe) | ≤ 2 ppm | < 1 ppm |
| Calcium (Ca) | ≤ 0.002 % | < 0.001 % |
| Magnesium (Mg) | ≤ 0.001 % | < 0.001 % |
| Potassium (K) | ≤ 0.005 % | 0.001 % |

For Laboratory, Research, or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



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

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

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

Safety Data Sheets
Available Upon Request

M5528-3
M5553
3130123

(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.



APTIM

ICV1-1014

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

Instructions for QATS Reference Material: Inorganic ICV Solutions

- ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.
- ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.
- ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

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

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

| ICV1-1014 | | |
|-----------|---|---|
| Element | Concentration ($\mu\text{g/L}$) (after 10-fold dilution) | Concentration ($\mu\text{g/L}$) (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 |

| Element | Concentration ($\mu\text{g/L}$) (after 100-fold dilution) | ICV6-0400 | |
|---------|--|-----------------|--|
| | | Analyte | Concentration ($\mu\text{g/L}$) (after 100-fold dilution) |
| Hg | 4.0 | CN ⁻ | 99 |

Certificate of Analysis

M5959 R: 6/14/24

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).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGY10
Lot Number: V2-Y740548
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Yttrium
Starting Material: Yttrium Oxide
Starting Material Lot#: 2661 and 06230520YL
Starting Material Purity: 99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL
Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 10011 ± 25 µg/mL
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 9997 ± 50 µg/mL
ICP Assay NIST SRM 3167a Lot Number: 190730

Assay Method #3 9984 ± 31 µg/mL
Calculated NIST SRM Lot Number: See Sec. 4.2

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

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

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

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

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

$$CRM/RM Expanded Uncertainty (k) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char} = [\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{ts} = 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

$$CRM/RM Expanded Uncertainty (k) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char\ a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{ts} = 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 ($\mu\text{g/mL}$)

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

| | | | | | | | | | | | | | | | | | | |
|---|----|---|----------|---|----|----------|----------|----|----------|----------|----------|----|----------|----------|----------|----------|---|----------|
| M | Ag | < | 0.004600 | M | Eu | 0.009037 | M | Na | 0.086360 | M | Se | < | 0.005200 | M | Zn | 0.030125 | | |
| M | Al | | 0.014862 | O | Fe | 0.002410 | M | Nb | < | 0.000570 | O | Si | | 0.024100 | O | Zr | < | 0.002600 |
| M | As | < | 0.003500 | M | Ga | < | 0.000570 | M | Nd | 0.000923 | M | Sm | | 0.000461 | | | | |
| M | Au | < | 0.001700 | M | Gd | < | 0.003500 | M | Ni | < | 0.005700 | M | Sn | < | 0.002300 | | | |
| O | B | | 0.002209 | M | Ge | < | 0.005200 | M | Os | < | 0.001200 | M | Sr | < | 0.004600 | | | |
| O | Ba | < | 0.002500 | M | Hf | < | 0.000570 | n | P | < | | M | Ta | < | 0.000570 | | | |
| O | Be | < | 0.001400 | M | Hg | < | 0.000570 | M | Pb | | 0.005020 | M | Tb | | 0.001044 | | | |
| M | Bi | < | 0.003500 | M | Ho | | 0.009037 | M | Pd | < | 0.005100 | M | Te | < | 0.002300 | | | |
| O | Ca | | 0.009841 | M | In | < | 0.002300 | M | Pr | < | 0.002300 | M | Th | < | 0.000570 | | | |
| M | Cd | < | 0.000570 | M | Ir | < | 0.000570 | M | Pt | < | 0.000570 | M | Ti | < | 0.003500 | | | |
| M | Ce | < | 0.002300 | O | K | | 0.018677 | M | Rb | < | 0.000570 | M | Tl | < | 0.000570 | | | |
| M | Co | < | 0.000570 | M | La | | 0.000461 | M | Re | < | 0.000570 | M | Tm | < | 0.003500 | | | |
| M | Cr | < | 0.004000 | O | Li | < | 0.009300 | M | Rh | < | 0.008000 | M | U | < | 0.000570 | | | |
| M | Cs | < | 0.000570 | M | Lu | | 0.000582 | M | Ru | < | 0.000570 | M | V | | 0.001265 | | | |
| M | Cu | | 0.002610 | O | Mg | | 0.001486 | n | S | < | | M | W | < | 0.002300 | | | |
| M | Dy | | 0.003815 | M | Mn | | 0.000582 | M | Sb | | 0.005422 | s | Y | < | | | | |
| M | Er | | 0.003615 | M | Mo | < | 0.005700 | M | Sc | < | 0.001200 | M | Yb | | 0.001827 | | | |

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

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT
Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H₂O)_{x+2}
Chemical Compatibility -Soluble in HCl, H₂SO₄ and HNO₃. Avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.
Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.
Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H₂O/ HNO₃); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H₂O / HCl or HNO₃).

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

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---|
| ICP-MS 89 amu | 0.8 ppt | N/A | 73Ge16O, 178Hf+2 |
| ICP-OES 360.073 nm | 0.005 / 0.000036 µg/mL | 1 | Ce, Th |
| ICP-OES 371.030 nm | 0.004 / 0.00007 µg/mL | 1 | Ce |
| ICP-OES 377.433 nm | 0.005 / 0.0009 µg/mL | 1 | Ta, Th |

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

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

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzamil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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

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



Certified Reference Material CRM
M5962 R10E114]24

CERTIFIED WEIGHT REPORT:

| | | | | | |
|--------------|---------------|-------|----------|----------|-------------|
| Part Number: | 57034 | Lot # | 24002546 | Solvent: | Nitric Acid |
| Lot Number: | 060624 | | | | |
| Description: | Selenium (Se) | | | | |

| | | | | |
|--------------------------------|-----------------|------|------|-------------|
| Expiration Date: | 060627 | 2.0% | 40.0 | Nitric Acid |
| Recommended Storage: | Ambient (20 °C) | | | |
| Nominal Concentration (µg/mL): | 1000 | | | |
| NIST Test Number: | 6JTB | | | |

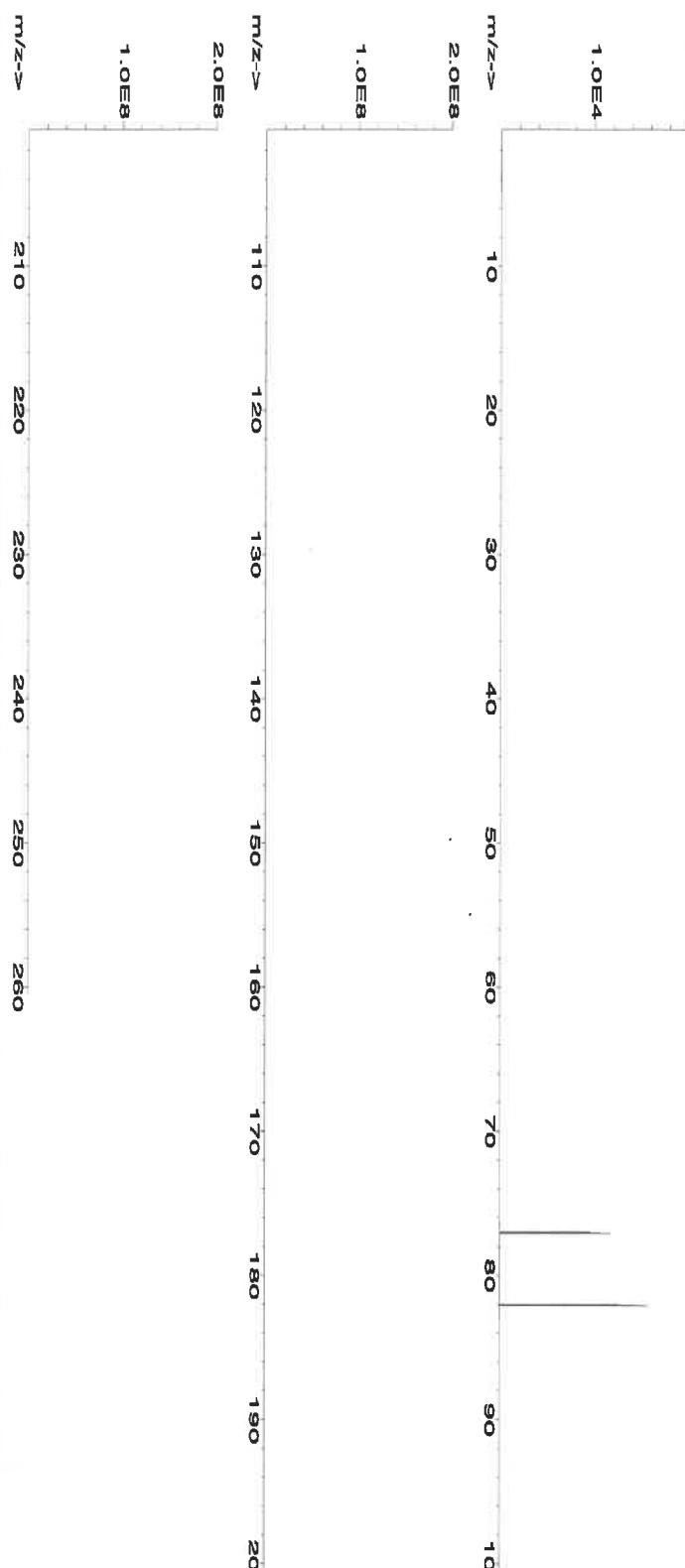
| | | | | |
|---|---------|-------|---------------------|--|
| Volume shown below was diluted to (mL): | 2000.07 | 5E-05 | Balance Uncertainty | |
| | 0.100 | | Flask Uncertainty | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-------|------------|--------|-----------------|--------|-------------------|-------|--------------|-------|-----------------------|------|-----------------------|---------|---------------------|--------|----------------------------------|-----|--|-----------|-----------------|----------------|-----------|----------|
| Part Number | 58134 | Lot Number | 071223 | Dilution Factor | 0.1000 | Initial Vol. (mL) | 200.0 | Pipette (mL) | 0.084 | Nominal Conc. (µg/mL) | 1000 | Initial Conc. (µg/mL) | 10002.5 | Final Conc. (µg/mL) | 1000.0 | Expanded Uncertainty +/- (µg/mL) | 2.2 | (Solvent Safety Info. On Attached pg.) | 7782-49-2 | SDS Information | OSHA PEL (TWA) | CAS# 1050 | NIST SRM |
|-------------|-------|------------|--------|-----------------|--------|-------------------|-------|--------------|-------|-----------------------|------|-----------------------|---------|---------------------|--------|----------------------------------|-----|--|-----------|-----------------|----------------|-----------|----------|

| | | | |
|--------------|-----------------|-------|--------|
| Reviewed By: | Pedro L. Rentas | Date: | 060624 |
|--------------|-----------------|-------|--------|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | (Solvent Safety Info. On Attached pg.) | SDS Information | OSHA PEL (TWA) | CAS# 1050 | 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 | |

[1] Spectrum No.1 [33.702 sec]:58034.D# [Count] [Linear]



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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

| | | Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|----|-------|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|--|--|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.02 | 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 | Ge | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Ru | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 | | |
| Ba | <0.02 | Ga | <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 | Ta | <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 certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * All standards should be stored with caps tight and under appropriate laboratory conditions.
- * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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

Certified Reference Material CRM
M5970, M5971, R, 7101124

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>

CERTIFIED WEIGHT REPORT:

Part Number: 59703
Lot Number: 062124
Description: Lithium (L)

Lot #: 24002546
Solvent: Nitric Acid

Expiration Date: 06/21/27
Recommended Storage: Ambient (20 °C)

Formulated By: Giovanni Esposito
06/21/24

Nominal Concentration (ug/mL): 1000
NIST Test Number: 617TB

Reviewed By: Pedro J. Remes
06/21/24

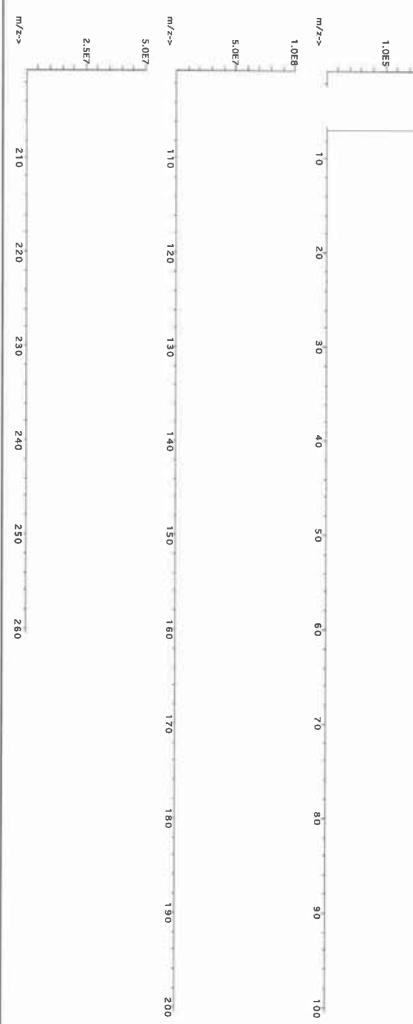
Volume shown below was diluted to (mL): 250.11
Final Uncertainty: Balance Uncertainty

Expanded Uncertainty: +/- (ug/mL)

(Solvent Safety Info. On Attached pg.)
CAS#: OSHA PEL (TWA)
LD50: N/A
NIST SRM: N/A

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Pipette (mL) | Nominal Conc. (ug/mL) | Initial Conc. (ug/mL) | Final Conc. (ug/mL) | SDS Information |
|------------------------|-------------|------------|-----------------|-------------------|--------------|-----------------------|-----------------------|---------------------|---|
| 1. Lithium Nitrate (L) | 59703 | 062124 | 0.1000 | 25.0 | 0.004 | 1000.0 | 10000.4 | 1000.0 | 2.0 7700-69-4 5 mg/m3 oral/r 1426 mg/kg N/A |

[1] Spectrum No. 1 [32,093 sec] \$49003.DAT [Count] [Unadj]



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www.absolutestandards.com



Certified Reference Material CRM
<https://absolutestandards.com>



ANAB ISO 17034 Accredited
AR-1569 Certificate Number
<https://absolutestandards.com>

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

| | | Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|----|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| | | Al | Cd | Ce | Dy | Hf | Lu | T | Ni | Pt | Sc | Tb | W | | | | | | | | |
| A | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| Sb | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| As | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | |
| Ba | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| Be | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Bi | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| B | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | |

(T) = Target analyte

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.
- * All standard containers are calibrated with weights traceable to NIST (see above).
- * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- * Standards are certified (+/-) 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 Kuyatt, 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).

- 4.0 TRACABILITY TO NIST**
- All analytical balances are calibrated by an accredited laboratory through the measurement 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 used for testing.
 - All analytical balances are annually compared to master weights and are traceable to NIST.
 - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.
 - An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.
 - 4.1 Thermometer Calibration**
 - All thermometers that are calibrated by an accredited laboratory are traceable to NIST.
 - 4.2 Balance Calibration**
 - All analytical balances are traceable through the measurement 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 used for testing.
 - 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 TRACEABLE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (μg/mL)**
 - CRM/RMs are tested for three 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.
 - CRM/RMs are tested for three 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.
 - 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**
 - To store and handle according to recommendations.

| | |
|--|---|
| 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers" | |
| Reference Material Producer - Accredited / A2LA Certificate Number 883.02 | |
| Bragg's Materials 200 Technology Drive, Chelmsford, MA 01824, USA. Telephone: 800 869 6789, 978 240 2071; Fax: 978 240 6565; Email: info@braggs.com; Web: www.braggs.com | |
| 11.1 Certification Issue Date | June 17, 2022 |
| 11.2 Lot Expiration Date | |
| The certification is valid within the measurement uncertainty specified provided the CRM 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 is damaged, contaminated, or otherwise modified. | |
| 11.3 Period of Validity | |
| <ul style="list-style-type: none"> - The date after which this CRM should not be used. - The date of preparation date reflects the period of time that the stability of a CRM can be supported by long term stability studies conducted on property stored and handled CRMs. Lot expiration is limited primarily by transportation (loss of water from the solution) and inherently by chemical stability. | |
| 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS | |
| <p>- This CRM 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 aluminum bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM being stored in Sec. 11.2.</p> <p>- This CRM 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 aluminum bag or after the date given in Sec. 7.1. This is contingent upon the CRM being stored in Sec. 7.1.</p> | |
| 12.1 Certificate Approved By: | Thomas Kozlowski Manager, Quality Control |
| 12.2 Certifying Officer: | Paul Gaines Chairmain / Senior Technical Director |
| 12.3 Seal/Signature | |

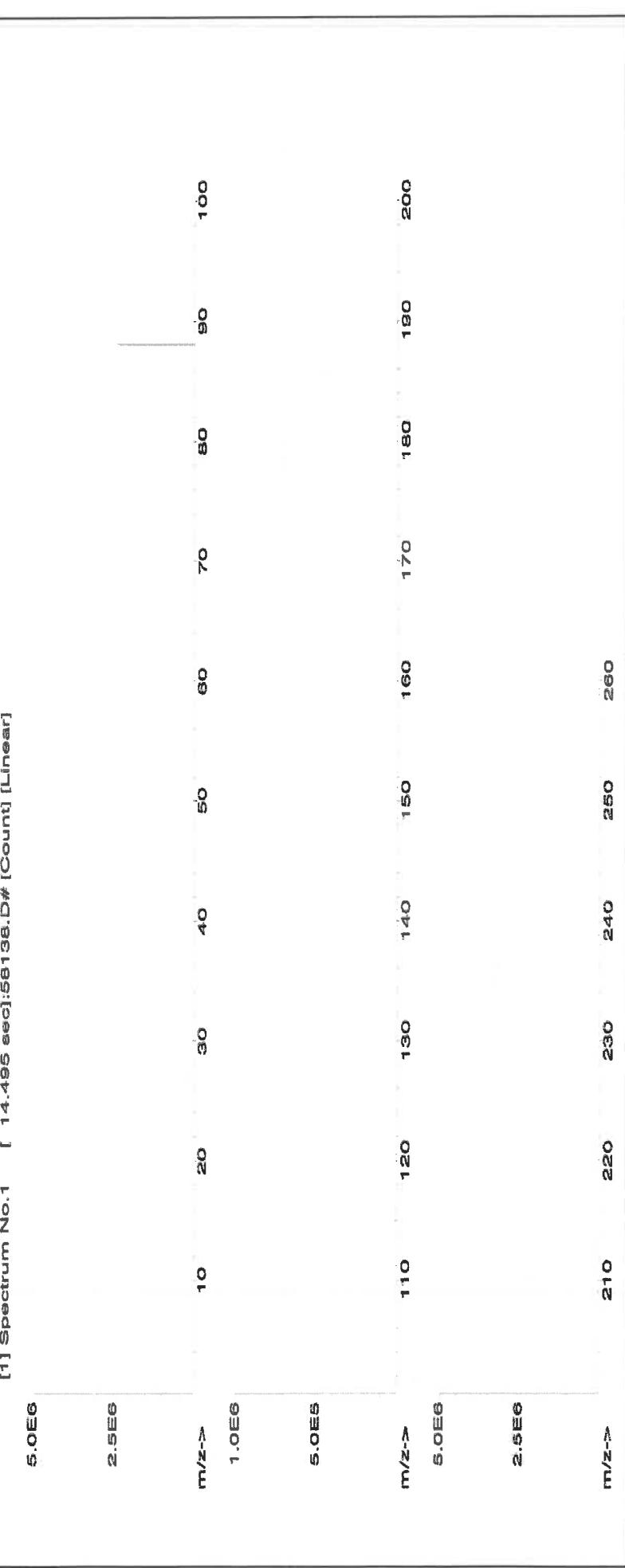
U5982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

| | | | | |
|---|-----------------|--------|-------------------|-------------|
| Part Number: | 57038 | Lot #: | 24002546 | Nitric Acid |
| Lot Number: | 031524 | | | |
| Description: | Strontium (Sr) | | | |
| Expiration Date: | 031527 | | | |
| Recommended Storage: | Ambient (20 °C) | | | |
| Nominal Concentration (µg/mL): | 1000 | | | |
| NIST Test Number: | 6UTB | | | |
| Weight shown below was diluted to (mL): | 2000.07 | 0.100 | Flask Uncertainty | |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information | (Solvent Safety Info. On Attached pg.) | NIST SRM |
|---------------------------|-------------------|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|-----------------|--|----------|
| 1. Strontium nitrate (Sr) | IN017 SFZ02201BA1 | 1000 | 99.997 | 0.10 | 41.2 | 4.85470 | 4.85502 | 1000.1 | 2.0 | 10042.76.9 | NA | orl-rat >2000mg/kg | 3153a |

[1] Spectrum No.1 [14.495 sec]:5813B.D# [Count] [Linear]





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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 |
| 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 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | U | <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 | V | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.2 | Yb | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | T | <0.02 | Y | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | S | <0.02 | Zn | <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 certified (+/-) 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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300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

Certificate of Analysis

MS-985
R: 6/14/24

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).

2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGIN10
Lot Number: U2-IN729349
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Indium
Starting Material: Indium Metal
Starting Material Lot#: 2511
Starting Material Purity: 99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL
Density: 1.044 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|-----------------|--|
| Assay Method #1 | 10021 ± 56 µg/mL ICP Assay NIST SRM 3124a Lot Number: 110516 |
| Assay Method #2 | 10035 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10001 ± 33 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

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

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

Characterization of CRM/RM by Two or More Methods

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

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

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:

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

$$CRM/RM Expanded Uncertainty (\Delta) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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

$$CRM/RM Expanded Uncertainty (\Delta) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ts} = 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 ($\mu\text{g/mL}$)

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

| | | | | | | | | | | | | | | | | | | | |
|---|----|---|----------|---|----|---|----------|---|----|---|----------|---|----|---|----------|---|----|---|----------|
| M | Ag | < | 0.000760 | M | Eu | < | 0.000760 | O | Na | | 0.012771 | M | Se | < | 0.023000 | M | Zn | < | 0.006100 |
| M | Al | | 0.003385 | O | Fe | | 0.004462 | M | Nb | < | 0.000760 | O | Si | | 0.024619 | M | Zr | < | 0.000760 |
| M | As | < | 0.004600 | M | Ga | < | 0.000760 | M | Nd | < | 0.000760 | M | Sm | < | 0.000760 | | | | |
| M | Au | < | 0.002300 | M | Gd | < | 0.000760 | O | Ni | < | 0.005100 | M | Sn | < | 0.000760 | | | | |
| O | B | | 0.003692 | M | Ge | < | 0.001600 | M | Os | < | 0.000760 | O | Sr | < | 0.000610 | | | | |
| M | Ba | < | 0.001600 | M | Hf | < | 0.000760 | n | P | < | | M | Ta | < | 0.000760 | | | | |
| O | Be | < | 0.000130 | M | Hg | < | 0.003100 | M | Pb | | 0.001400 | M | Tb | < | 0.000760 | | | | |
| M | Bi | < | 0.000760 | M | Ho | < | 0.000760 | M | Pd | < | 0.001600 | M | Te | < | 0.000760 | | | | |
| O | Ca | | 0.004616 | s | In | < | | M | Pr | < | 0.000760 | M | Th | < | 0.000760 | | | | |
| M | Cd | < | 0.000760 | M | Ir | < | 0.000760 | M | Pt | < | 0.000760 | O | Ti | < | 0.001100 | | | | |
| M | Ce | < | 0.000760 | O | K | | 0.007078 | M | Rb | < | 0.000760 | M | Tl | < | 0.000760 | | | | |
| M | Co | < | 0.000760 | M | La | < | 0.000760 | M | Re | < | 0.000760 | M | Tm | < | 0.000760 | | | | |
| O | Cr | < | 0.001300 | O | Li | < | 0.000130 | M | Rh | < | 0.000760 | M | U | < | 0.000760 | | | | |
| M | Cs | < | 0.000760 | M | Lu | < | 0.000760 | M | Ru | < | 0.000760 | M | V | < | 0.001600 | | | | |
| M | Cu | < | 0.003800 | O | Mg | | 0.000707 | n | S | < | | M | W | < | 0.001600 | | | | |
| M | Dy | < | 0.000760 | O | Mn | | 0.000149 | M | Sb | < | 0.000760 | M | Y | < | 0.000760 | | | | |
| M | Er | < | 0.000760 | M | Mo | < | 0.002300 | M | Sc | < | 0.000760 | M | Yb | < | 0.000760 | | | | |

M - Checked by ICP-MS

O - Checked by ICP-OES

i - Spectral Interference

n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

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

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

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
 - While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
 - After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.
- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 114.82 +3 6 In(H₂O)₆+3
Chemical Compatibility -Soluble in HCl, HNO₃, and H₂SO₄. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO₃); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

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

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 115 amu | 1 ppt | n/a | 115Sn, 99Ru16O |
| ICP-OES 158.583 nm | 0.05 / 0.002 µg/mL | 1 | |
| ICP-OES 230.606 nm | 0.1 / 0.03 µg/mL | 1 | Ni, Os |
| ICP-OES 325.609 nm | 0.2 / 0.05 µg/mL | 1 | Mn, Mo, Th |

8.0 HAZARDOUS INFORMATION

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

9.0 HOMOGENEITY

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

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 21, 2023

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

11.2 Lot Expiration Date

- February 21, 2028

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-#b
M



Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| ACS - Assay (H ₂ SO ₄) | 95.0 – 98.0 % | 96.1 % |
| Appearance | Passes Test | Passes Test |
| ACS - Color (APHA) | ≤ 10 | 5 |
| ACS - Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS - Substances Reducing Permanganate (as SO ₂) | ≤ 2 ppm | < 2 ppm |
| Ammonium (NH ₄) | ≤ 1 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate (NO ₃) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate (PO ₄) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 30.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | 8.5 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities - Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities - Gold (Au) | ≤ 10.0 ppb | 0.5 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities - Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb |
| Trace Impurities - Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities - Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb |
| Trace Impurities - Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities - Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb |
| Trace Impurities - Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities - Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb |
| Trace Impurities - Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb |
| Trace Impurities - Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium



Material No.: 9673-33
Batch No.: 23D2462010

| Test | Specification | Result |
|-----------------------------------|---------------|-----------|
| Trace Impurities – Sodium (Na) | ≤ 500.0 ppb | 5.4 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | 0.4 ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in black ink, appearing to read "James T. Ethier".
Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



R → 16|13|25

Method

M 6|21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|---------|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 – 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 – 1.192 | 1.190 |
| ACS - Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as Cl ₂) | <= 0.5 ppm | < 0.5 |
| Phosphate (PO ₄) | <= 0.05 ppm | < 0.03 |
| Sulfate (SO ₄) | <= 0.5 ppm | < 0.3 |
| Sulfite (SO ₃) | <= 0.8 ppm | 0.3 |
| Ammonium (NH ₄) | <= 3 ppm | < 1 |
| Trace Impurities - Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities - Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 29.7 |
| Trace Impurities - Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 1.0 ppb | < 0.2 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

| Test | Specification | Result |
|--|---------------|--------|
| Trace Impurities – Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities – Gold (Au) | <= 4.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities – Iron (Fe) | <= 15.0 ppb | < 1 |
| Trace Impurities – Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities – Lithium (Li) | <= 1.0 ppb | 0.2 |
| Trace Impurities – Magnesium (Mg) | <= 10.0 ppb | 0.4 |
| Trace Impurities – Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities – Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities – Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities – Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities – Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Potassium (K) | <= 9.0 ppb | < 2.0 |
| Trace Impurities – Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities – Silicon (Si) | <= 100.0 ppb | < 10.0 |
| Trace Impurities – Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities – Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Trace Impurities – Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| Trace Impurities – Thallium (Tl) | <= 5.0 ppb | < 2.0 |
| Trace Impurities – Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities – Titanium (Ti) | <= 1.0 ppb | 0.2 |
| Trace Impurities – Vanadium (V) | <= 1.0 ppb | < 0.2 |
| Trace Impurities – Zinc (Zn) | <= 5.0 ppb | 0.3 |
| Trace Impurities – Zirconium (Zr) | <= 1.0 ppb | < 0.1 |

For Laboratory, Research or Manufacturing Use

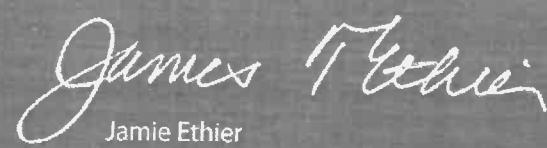
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

R → 11/12/24

M6/26

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 | $\leq 2 \text{ ppm}$ | 1 ppm |
| Chloride (Cl) | $\leq 0.08 \text{ ppm}$ | < 0.03 ppm |
| Phosphate (PO_4) | $\leq 0.10 \text{ ppm}$ | < 0.03 ppm |
| Sulfate (SO_4) | $\leq 0.2 \text{ ppm}$ | < 0.2 ppm |
| Trace Impurities – Aluminum (Al) | $\leq 40.0 \text{ ppb}$ | < 1.0 ppb |
| Arsenic and Antimony (as As) | $\leq 5.0 \text{ ppb}$ | < 2.0 ppb |
| Trace Impurities – Barium (Ba) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Beryllium (Be) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Bismuth (Bi) | $\leq 20.0 \text{ ppb}$ | < 10.0 ppb |
| Trace Impurities – Boron (B) | $\leq 10.0 \text{ ppb}$ | < 5.0 ppb |
| Trace Impurities – Cadmium (Cd) | $\leq 50 \text{ ppb}$ | < 1 ppb |
| Trace Impurities – Calcium (Ca) | $\leq 50.0 \text{ ppb}$ | 2.3 ppb |
| Trace Impurities – Chromium (Cr) | $\leq 30.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Cobalt (Co) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Copper (Cu) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Gallium (Ga) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Germanium (Ge) | $\leq 20 \text{ ppb}$ | < 10 ppb |
| Trace Impurities – Gold (Au) | $\leq 20 \text{ ppb}$ | < 5 ppb |
| Heavy Metals (as Pb) | $\leq 100 \text{ ppb}$ | 100 ppb |
| Trace Impurities – Iron (Fe) | $\leq 40.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Lead (Pb) | $\leq 20.0 \text{ ppb}$ | < 10.0 ppb |
| Trace Impurities – Lithium (Li) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Magnesium (Mg) | $\leq 20 \text{ ppb}$ | < 1 ppb |
| Trace Impurities – Manganese (Mn) | $\leq 10.0 \text{ ppb}$ | < 1.0 ppb |
| Trace Impurities – Nickel (Ni) | $\leq 20.0 \text{ ppb}$ | < 5.0 ppb |

>>> Continued on page 2 >>>

Nitric Acid 69%

CMOS



Material No.: 9606-03
Batch No.: 24D1062002

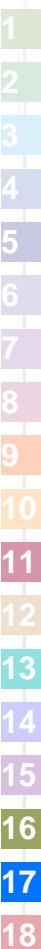
For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

J. Coak

Jamie Croak

Director Quality Operations, Bioscience Production



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

Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$)

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | Sb | As | Ba | Be | Bi | B | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <0.02 | Se | <0.02 | Tb | <0.02 | W | <0.02 |
| <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Tb | <0.02 | W | <0.02 |
| <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | U | <0.02 |
| <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | Gd | <0.02 | If | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Rh | <0.02 | Na | <0.02 | T | <0.02 | V | <0.02 |
| <0.01 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | P | <0.02 | Ru | <0.02 | Ru | <0.02 | Tm | <0.02 | Yb | <0.02 | Y | <0.02 |
| <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Sm | <0.02 | Sr | <0.02 | Zn | <0.02 | Zr | <0.02 | Zr | <0.02 |
| <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <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 | W | <0.02 |

(T) = Target analyzer

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 certified (\pm) 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)



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT:

Part Number: **57051**
Lot Number: **120523**
Description: **Antimony (Sb)**

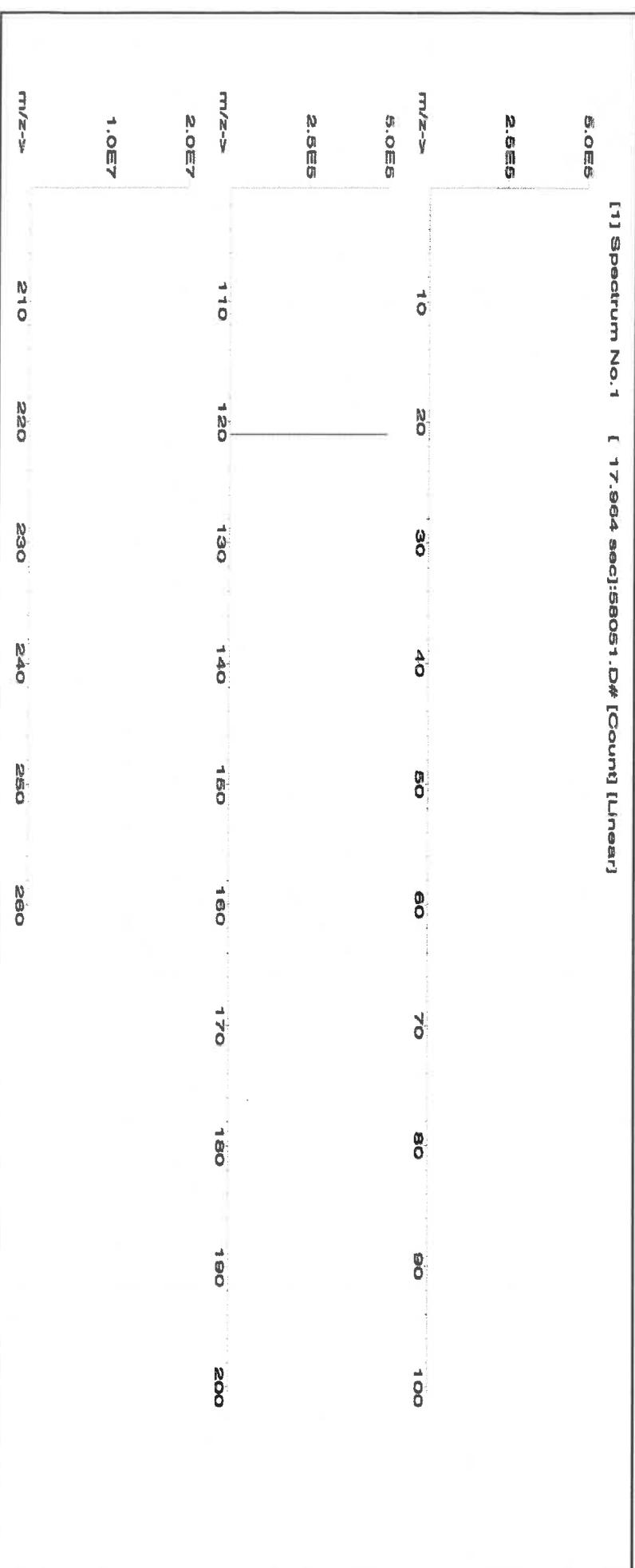
Explanation Date: **120526**
Nominal Concentration (ug/mL): **1000**
NIST Test Number: **6UTB**
Volume shown below was diluted to (mL): **3000.41**

2.0% 60.0
(mL) Nitric Acid

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (ug/mL) | Initial Conc. (ug/mL) | Final Conc. (ug/mL) | Expanded Uncertainty +/- (ug/mL) | SDS Information (Solvent Safety Info. On Attached pg.) | NIST CAS# OSHA PEL (TWA) | NIST LD50 SRM |
|------------------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|--|--------------------------|---------------------------|
| 1. Antimony (Sb) | 58151 | 100923 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.4 | 1000.0 | 2.1 | 7440-36-0 | 0.5 mg/m3 | Oral rat 7000 mg/kg 3102a |

[1] Spectrum No. 1 [17.984 sec]:58051.D# [Count] [Linear]



| | | |
|----------------|-----------------|--------|
| Reviewed By: | Pedro L. Rentas | 120523 |
| Formulated By: | Lawrence Barry | 120523 |

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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 ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Lu | <0.02 | Ni | <0.02 | Pt | <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 | Tc | <0.02 | U | <0.02 |
| As | <0.2 | Cc | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rb | <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 | Ta | <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 | 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 certified (+/-) 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).



CERTIFIED WEIGHT REPORT:

Part Number: **57047**
Lot Number: **122823**
Description: **Silver (Ag)**

Expiration Date: **122826**
Recommended Storage: **Ambient (20 °C)**

Nominal Concentration ($\mu\text{g/mL}$): **1000**
NIST Test Number: **6UTB**

Weight shown below was diluted to (mL): **4000.30** 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): **4000.30** 0.058 Flask Uncertainty

Reviewed By: **Pedro L. Rentas**
Signature:

Formulated By: **Benson Chan**
Signature:

122823

R:28|5|24

Certified Reference Material CRM

M6030

Lot #

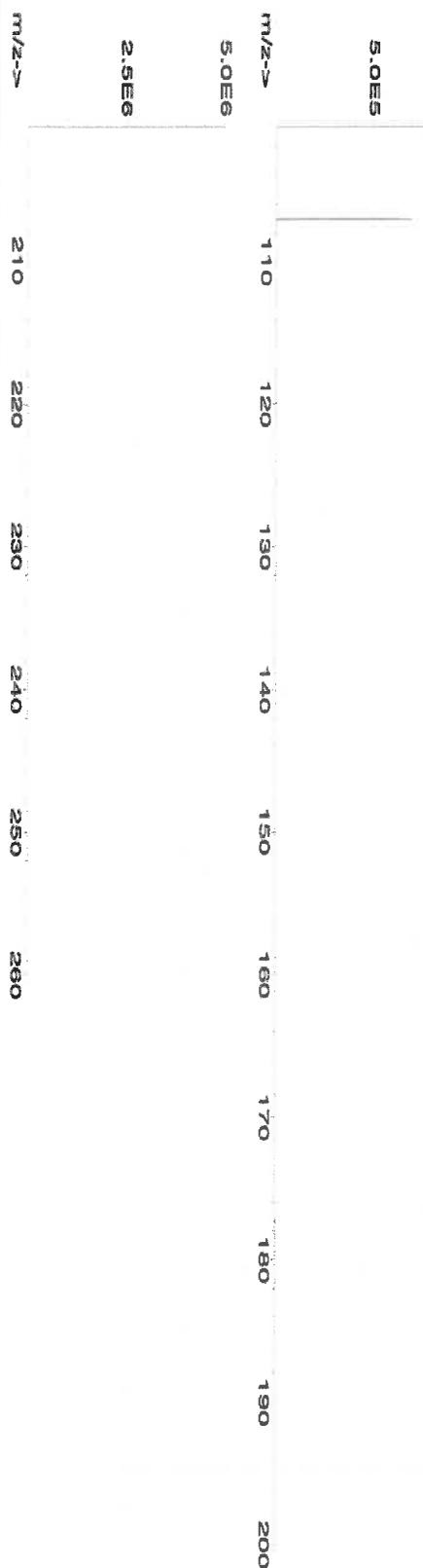
Solvent: **24002546** Nitric Acid

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Assay +/- ($\mu\text{g/mL}$)
Actual Weight (g) Conc. ($\mu\text{g/mL}$)
Actual Weight (g) Conc. ($\mu\text{g/mL}$)
CAS# OSHA PEL (TWA)
LD50 NIST SRM

1. Silver nitrate (Ag)

| RM# | Lot Number | Nominal Conc. ($\mu\text{g/mL}$) | Purity (%) | Uncertainty Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Weight (g) | Conc. ($\mu\text{g/mL}$) |
|-------|------------|------------------------------------|------------|-----------------------|-------------------|-------------------|-------------------|----------------------------|
| IN035 | J0612AGA1 | 1000.0 | 99.999 | 0.10 | 63.7 | 6.27992 | 6.27998 | 1000.0 |
| | | | | | 2.0 | 761.98-8 | 10 ug/m3 | NA |
| | | | | | | | | 3151 |

[1] Spectrum No.1 [14.044 sec] 58147.D# [Count] [Linear]



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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| 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 |
| 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 |
| 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 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | V | <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 | Yb | <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 | Y | <0.02 |
| B | <0.02 | Cu | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zn | <0.02 |
| | | | | | | | | | | | | | | | | | |

(T)= Target analyte

Certified by:

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

Physical Characterization:

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



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

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

CERTIFIED WEIGHT REPORT:

13.8.24

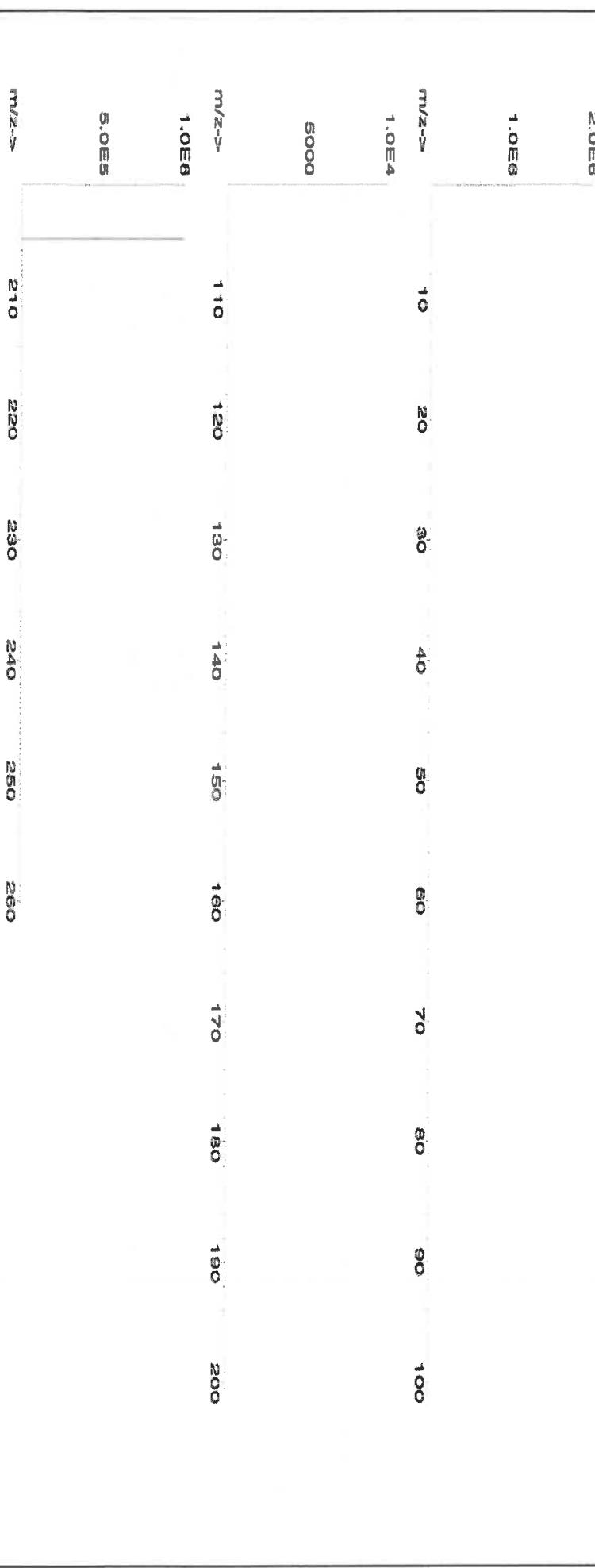
Lot #

M602

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 ($\mu\text{g/mL}$): | 1000 |
| NIST Test Number: | 6UTB |
| Weight shown below was diluted to (mL): | 2000.1 |
| Lot | Nominal |
| Purity | Uncertainty |
| Assay | Target |
| Actual | Actual |
| Uncertainty | Expanded |
| (Solvent Safety Info. On Attached pg.) | SDS Information |
| <i>Aleah O'Brady</i> | <i>Pedro L. Rentas</i> |
| <i>Aleah O'Brady</i> | <i>Pedro L. Rentas</i> |
| Reviewed By: | Pedro L. Rentas |
| | 062724 |





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

| Trace Metals Verification by ICP-MS ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|--|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----------------|-------|----|-------|----|-------|-------|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <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 | R _e | <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 | Pr | <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 | Zr | <0.02 | |

(T) = Target analyte

Certified by:

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

Physical Characterization:

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Certified Reference Material CRM

M6021



CERTIFIED WEIGHT REPORT:

| Part Number: | 57023 | Lot # | Solvent: |
|--------------|--------------|----------|-------------|
| Lot Number: | 062424 | 24002546 | Nitric Acid |
| Description: | Vanadium (V) | | |

| Expiration Date: | 062427 | 2.0% | 40.0 | Nitric Acid |
|----------------------|-----------------|------|------|-------------|
| Recommended Storage: | Ambient (20 °C) | | (mL) | |

Nominal Concentration (µg/mL):
1000

NIST Test Number:

Volume shown below was diluted to (mL):

2000.3

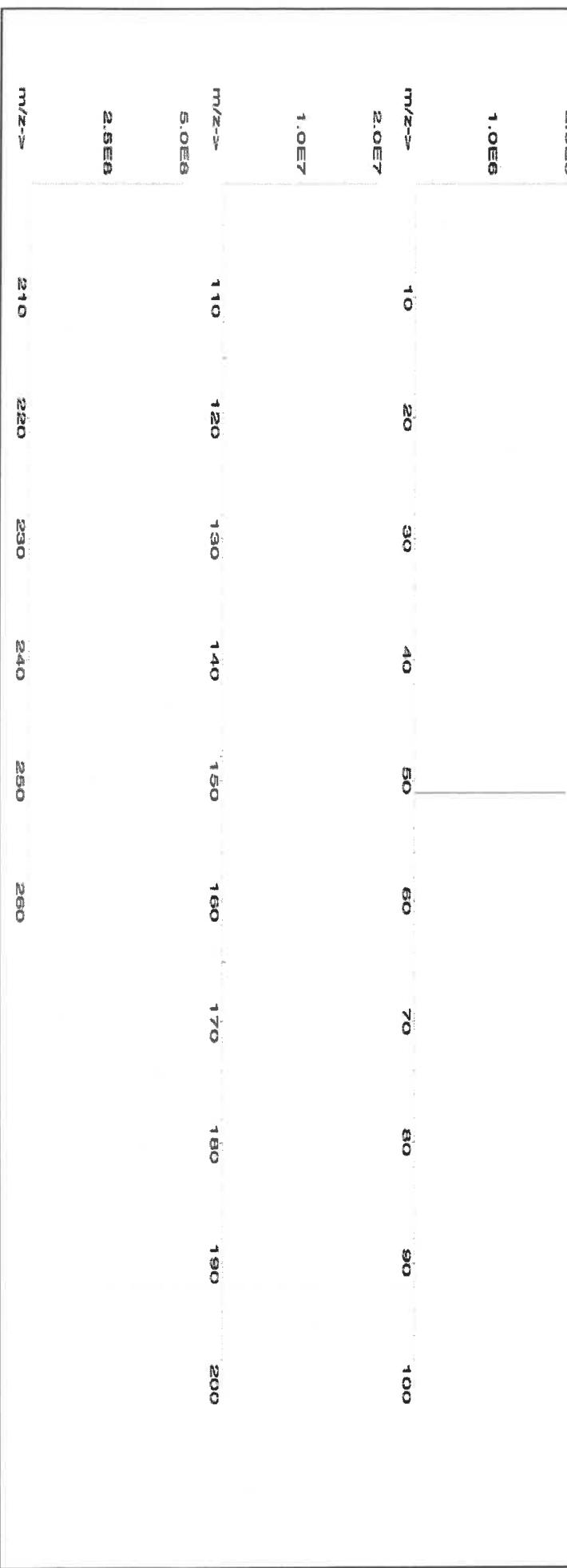
0.06

Balance Uncertainty

Flask Uncertainty

| 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) | (Solvent Safety Info. On Attached pg.) CAS# | NIST OSHA PEL (TWA) | LD50 | 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 | od-rat 58.1mg/kg | 3165 |

[1] Spectrum No. 1 [34-243 sect:158023.D# [Count [Linear]



| | |
|--------------|----------------------|
| Reviewed By: | <i>Aleah O'Brady</i> |
| | Pedro L. Rentas |
| | 062424 |

SDS Information

ANAB ISO 17034 Accredited

AR-1539 Certificate Number

https://Absolutestandards.com

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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 ($\mu\text{g/mL}$) | | | | | | | | | | | | | | | | | | | |
|----|-------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | Al | Cd | Ca | Dy | Hf | Li | Ni | Pr | Se | Tb | W | | | | | | | | | |
| Al | <0.02 | <0.02 | <0.02 | <0.2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.2 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <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 | Tb | <0.02 | W | <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 | Te | <0.02 | U | <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 | Tl | <0.02 | V | <0.02 | |
| Be | <0.01 | | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Th | <0.02 | Yb | <0.02 | T | <0.02 | |
| Bi | <0.02 | | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 | |
| B | <0.02 | | Ca | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | S | <0.02 | Ta | <0.02 | Zn | <0.02 | |

(T) = Target analyte

Physical Characterization:

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SHIPPING DOCUMENTS

P5380



Weston COC ID

Weston_20241220

Chain of Custody Record/Lab Work Request

Page 1 of 1

| | | | |
|------------------|-----------------------------------|----------|--------------|
| Client: | Weston Solutions, Inc. | | |
| Project Manager: | David Sembrot | | |
| Street Address: | 1400 Weston Way | City: | West Chester |
| Phone: | 610-314-5456 | ST, ZIP: | PA, 19038 |
| e-mail: | david.sembrot@westonsolutions.com | | |
| Sampled By: | Cheyenne Harrington | | |

| Lab Use Only | |
|---|-----|
| Temperature of cooler when received (°C) | |
| COC Tape was present and unbroken on outer package? | Y N |
| Samples received in good condition? | Y N |
| Labels indicate properly preserved? | Y N |
| Received within holding times? | Y N |
| Discrepancies between sample labels and COC record? | Y N |

| | | | | | | | |
|---------------|---|--|--|--------------|----------------------------------|--|--|
| Project Name: | Fort Meade RI | | | Project POC: | Nathan Fretz | | |
| PO Number | 0111169 | | | Phone: | 484-524-5665 | | |
| W.O. #: | | | | POC e-mail: | nathan.fretz@westonsolutions.com | | |
| Lab: | CHEMTECH | | | Lab POC: | Jordan Hedvat | | |
| TAT (days): | 7 | | | Lab Phone: | 908-728-3144 | | |
| Lab Address: | 284 Sheffield Street Mountainside, NJ 07092 | | | | | | |

| | | | | | | | | | | | |
|---------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------|------------------------------|---------------------------|---------------------------|------------------|--------------------------|-----------------|--|
| Analyses Requested: | TCLP VOCs by EPA 8260D (1311) | TCLP SVOCs by EPA 8270E (1311) | TCLP Metals by EPA 6010D/7470A | TCLP Pesticides by EPA 8081B | TCLP Herbicides by EPA 8151A | Total Sulfide by EPA 9034 | Total Cyanide by EPA 9012 | PCB by EPA 8082A | Ignitability by EPA 1030 | pH by EPA 9045D | |
| Container Type: | Enclosed | Glass | Glass | Glass | Glass | Glass | Glass | Glass | Glass | Glass | |
| Container Size: | 25g | 8 oz | 8 oz | 8 oz | 8 oz | 8 oz | 8 oz | 8 oz | 8 oz | 8 oz | |

| | | | | | | | | | | | |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| Preservative: | Ice to 0-6 | |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|

| # | Sample ID | G/C | Matrix | # Cont | MS/MSD | Date Collected | Time Collected | Special Instructions/Comments | | | | | | | | |
|----|----------------------------|-----|--------|--------|--------|----------------|----------------|-------------------------------|---|---|---|---|---|---|---|---------------------|
| 1 | TAPIAL3-IDW-Soil-122024-T1 | c | DS | 6 | no | 12/20/2024 | 14:15 | X | X | X | X | X | X | X | X | expedited 7 day TAT |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |

| Shipping Airbill Number(s): | | | | | | | Cooler Number: | 1 | of | 1 |
|-----------------------------|----------|------|-------------|----------|-------|--|----------------|---|----|---|
| Relinquished By | Date | Time | Received By | Date | Time | Additional Comments | | | | |
| 1.) <i>Sal R/Vd</i> | 12/20/24 | 18w | <i>Rear</i> | 12/21/24 | 11:00 | QSM 6.0 Compliant | | | | |
| 2.) | | | | | | Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD | | | | |
| 3.) | | | | | | | | | | |

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 |