

## SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
 Lab Code: ACE Case No.: 51879 MA No.: \_\_\_\_\_ SDG No.: MBHHA5  
 SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id   | ICP-AES  | Analysis Method   |                   |                   |
|----------------|-----------------|----------|-------------------|-------------------|-------------------|
|                |                 |          | ICP-MS            | Mercury           | Cyanide           |
| <u>MBHHA5</u>  | <u>P4905-01</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHA6</u>  | <u>P4905-02</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHA6D</u> | <u>P4905-03</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHA6S</u> | <u>P4905-04</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHA7</u>  | <u>P4905-05</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHA8</u>  | <u>P4905-06</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHA9</u>  | <u>P4905-07</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHB0</u>  | <u>P4905-08</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHB1</u>  | <u>P4905-09</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHC5</u>  | <u>P4905-10</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHC6</u>  | <u>P4905-11</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHC7</u>  | <u>P4905-12</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHC8</u>  | <u>P4905-13</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHC9</u>  | <u>P4905-14</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHD0</u>  | <u>P4905-15</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHD1</u>  | <u>P4905-16</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHD2</u>  | <u>P4905-17</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHD3</u>  | <u>P4905-18</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHD4</u>  | <u>P4905-19</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |
| <u>MBHHD5</u>  | <u>P4905-20</u> | <u>X</u> | <u>          </u> | <u>          </u> | <u>          </u> |

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

Signature: \_\_\_\_\_ Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Title: \_\_\_\_\_



## USEPA CLP COC (LAB COPY)

Date Shipped: 11/15/2024

Carrier Name: FedEx

Airbill No: 7799 8944 0750

## CHAIN OF CUSTODY RECORD

68HERH20D0011

Case #: 51879

Cooler #: 1

SDG # MBHHA5  
No: 2-111524-144741-0002

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location   | Collection Date/Time | For Lab Use Only |
|-------------------|----------------|----------------|--------------|----------------------------|--------------------------|------------|----------------------|------------------|
| P136-SB-14-Z00-02 | MBHHA5         | Soil           |              | ICP-AES(35)                | 1413 (Met ice < 6 C) (1) | P136-SB-14 | 11/13/2024 13:55     | 1                |
| P136-SB-14-Z02-06 | MBHHA6         | Soil           |              | ICP-AES(35)                | 1414 (Met ice < 6 C) (2) | P136-SB-14 | 11/13/2024 13:55     | 2                |
| P136-SB-14-Z06-12 | MBHHA7         | Soil           |              | ICP-AES(35)                | 1415 (Met ice < 6 C) (1) | P136-SB-14 | 11/13/2024 13:55     | 3                |
| P136-SB-14-Z12-18 | MBHHA8         | Soil           |              | ICP-AES(35)                | 1416 (Met ice < 6 C) (1) | P136-SB-14 | 11/13/2024 13:55     | 4                |
| P136-SB-17-Z00-02 | MBHHA9         | Soil           |              | ICP-AES(35)                | 1424 (Met ice < 6 C) (1) | P136-SB-17 | 11/13/2024 12:30     | 5                |
| P136-SB-17-Z02-06 | MBHHB0         | Soil           |              | ICP-AES(35)                | 1425 (Met ice < 6 C) (1) | P136-SB-17 | 11/13/2024 12:30     | 6                |
| P136-SB-17-Z06-12 | MBHHB1         | Soil           |              | ICP-AES(35)                | 1426 (Met ice < 6 C) (1) | P136-SB-17 | 11/13/2024 12:30     | 7                |
| P136-SB-16-Z00-02 | MBHHC5         | Soil           |              | ICP-AES(35)                | 1347 (Met ice < 6 C) (1) | P136-SB-16 | 11/13/2024 13:09     | 8                |
| P136-SB-16-Z02-06 | MBHHC6         | Soil           |              | ICP-AES(35)                | 1348 (Met ice < 6 C) (1) | P136-SB-16 | 11/13/2024 13:09     | 9                |
| P136-SB-16-Z06-12 | MBHHC7         | Soil           |              | ICP-AES(35)                | 1349 (Met ice < 6 C) (1) | P136-SB-16 | 11/13/2024 13:09     | 10               |

Sample(s) to be used for Lab QC: P136-SB-14-Z02-06 Tag 1414 - Special Instructions: Additional sample volume provided for MBHHA6 is for MS/MSD. Limited sample mass for MBHHA8.

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time     | Received by (Signature and Organization) | Date/Time     | Sample Condition Upon Receipt |
|--------------|----------------------------------------------|---------------|------------------------------------------|---------------|-------------------------------|
| 1 Cooler     |                                              | 11/15/24 1520 |                                          | 11-16-24 9:08 | Temp Blank present            |
|              |                                              |               |                                          |               |                               |
|              |                                              |               |                                          |               |                               |
|              |                                              |               |                                          |               |                               |

USEPA CLP COC (LAB COPY)

Date Shipped: 11/15/2024

Carrier Name: FedEx

Airbill No: 7799 8944 0750

CHAIN OF CUSTODY RECORD

68HERH20D0011

SDG # MBHHA5

No: 2-11524-144741-0002

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

Case #: 51879

Cooler #: 1

| Sample Identifier           | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location   | Collection Date/Time | For Lab Use Only |
|-----------------------------|----------------|----------------|--------------|----------------------------|--------------------------|------------|----------------------|------------------|
| P136-SB-16-Z12-18           | MBHHC8         | Soil           |              | ICP-AES(35)                | 1420 (Wet ice < 6 C) (1) | P136-SB-16 | 11/13/2024 13:09     | ✓                |
| P136-SB-16-Z18-24           | MBHHC9         | Soil           |              | ICP-AES(35)                | 1421 (Wet ice < 6 C) (1) | P136-SB-16 | 11/13/2024 13:09     | ✓                |
| P102-SB-12-Z00-02           | MBHHD0         | Soil           |              | ICP-AES(35)                | 1056 (Wet ice < 6 C) (1) | P102-SB-12 | 11/13/2024 11:30     | ✓                |
| P102-SB-12-Z02-06           | MBHHD1         | Soil           |              | ICP-AES(35)                | 1057 (Wet ice < 6 C) (1) | P102-SB-12 | 11/13/2024 11:30     | ✓                |
| P102-SB-12-Z06-12           | MBHHD2         | Soil           |              | ICP-AES(35)                | 1058 (Wet ice < 6 C) (1) | P102-SB-12 | 11/13/2024 11:30     | ✓                |
| P102-SB-12-Z12-18           | MBHHD3         | Soil           |              | ICP-AES(35)                | 1059 (Wet ice < 6 C) (1) | P102-SB-12 | 11/13/2024 11:30     | ✓                |
| P102-SB-12-Z18-24           | MBHHD4         | Soil           |              | ICP-AES(35)                | 1060 (Wet ice < 6 C) (1) | P102-SB-12 | 11/13/2024 11:30     | ✓                |
| P102-SB-12-Z24-30           | MBHHD5         | Soil           |              | ICP-AES(35)                | 1061 (Wet ice < 6 C) (1) | P102-SB-12 | 11/13/2024 11:30     | ✓                |
| <i>[Signature]</i> 11/15/24 |                |                |              |                            |                          |            |                      |                  |

Special Instructions: Additional sample volume provided for MBHHA6 is for MS/MSD. Limited sample mass for MBHHA8.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time      | Received by (Signature and Organization) | Date/Time     | Sample Condition Upon Receipt |
|-----------------------------|----------------------------------------------|----------------|------------------------------------------|---------------|-------------------------------|
| 1 Cooler                    | <i>[Signature]</i> TWP                       | 11/15/24 15:20 | <i>[Signature]</i>                       | 11/16/24 9:08 | IR. Cont # 1 2.4. ✓           |
| <i>[Signature]</i> 11/15/24 |                                              |                |                                          |               |                               |
| Custody Seal Intact         |                                              |                |                                          |               |                               |
| Temp Blank present          |                                              |                |                                          |               |                               |

FORM DC-1  
SAMPLE LOG-IN SHEET

|                                                |                       |                               |
|------------------------------------------------|-----------------------|-------------------------------|
| Lab Name : Alliance Technical Group, LLC       |                       | Page <u>1</u> of <u>1</u>     |
| Received By (Print Name) <u>Cissnera Perri</u> |                       | Log-in Date <b>11/16/2024</b> |
| Received By (Signature) <u>[Signature]</u>     |                       |                               |
| Case Number <b>51879</b>                       | SDG No. <b>MBHHA5</b> | MA No. <b>N/A</b>             |

|                                                                                          |                                    |
|------------------------------------------------------------------------------------------|------------------------------------|
| Remarks:                                                                                 |                                    |
| 1. Custody Seal (s)                                                                      | Present, Intact                    |
| 2. Custody Seal Nos.                                                                     | <u>n/a</u>                         |
| 3. Traffic Reports/Chain Of Custody Records                                              | Present                            |
| 4. Airbill                                                                               | Present                            |
| 5. Airbill No. and Shipping Container ID No.                                             | <u>779989440750</u><br><u>1</u>    |
| 6. Shipping Container Temperature Indicator Bottle                                       | Present                            |
| 7. Shipping Container Temperature                                                        | <u>2.4</u> Degree C                |
| 8. Sample Condition                                                                      | Intact                             |
| 9. Sample Tags<br>Sample Tag Numbers                                                     | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes                                |
| 11. Date Received at Lab                                                                 | <u>11/16/2024</u>                  |
| 12. Time Received                                                                        | <u>09:05</u>                       |

|    | EPA Sample # | Aqueous/<br>Water Sample pH | Corresponding |                | Remarks:<br>Condition of Sample Shipment, etc. |
|----|--------------|-----------------------------|---------------|----------------|------------------------------------------------|
|    |              |                             | Sample Tag #  | Assigned Lab # |                                                |
| 1  | MBHHA5       | N/A                         | 1413          | P4905-01       | Intact                                         |
| 2  | MBHHA6       | N/A                         | 1414          | P4905-02       | Intact                                         |
| 3  | MBHHA6D      | N/A                         | 1414          | P4905-03       | Intact                                         |
| 4  | MBHHA6S      | N/A                         | 1414          | P4905-04       | Intact                                         |
| 5  | MBHHA7       | N/A                         | 1415          | P4905-05       | Intact                                         |
| 6  | MBHHA8       | N/A                         | 1416          | P4905-06       | Intact                                         |
| 7  | MBHHA9       | N/A                         | 1424          | P4905-07       | Intact                                         |
| 8  | MBHHA0       | N/A                         | 1425          | P4905-08       | Intact                                         |
| 9  | MBHHA1       | N/A                         | 1426          | P4905-09       | Intact                                         |
| 10 | MBHHA5       | N/A                         | 1347          | P4905-10       | Intact                                         |
| 11 | MBHHA6       | N/A                         | 1348          | P4905-11       | Intact                                         |
| 12 | MBHHA7       | N/A                         | 1349          | P4905-12       | Intact                                         |
| 13 | MBHHA8       | N/A                         | 1420          | P4905-13       | Intact                                         |
| 14 | MBHHA9       | N/A                         | 1421          | P4905-14       | Intact                                         |
| 15 | MBHHD0       | N/A                         | 1056          | P4905-15       | Intact                                         |
| 16 | MBHHD1       | N/A                         | 1057          | P4905-16       | Intact                                         |
| 17 | MBHHD2       | N/A                         | 1058          | P4905-17       | Intact                                         |
| 18 | MBHHD3       | N/A                         | 1059          | P4905-18       | Intact                                         |
| 19 | MBHHD4       | N/A                         | 1060          | P4905-19       | Intact                                         |
| 20 | MBHHD5       | N/A                         | 1061          | P4905-20       | Intact                                         |
| 21 | N/A          | N/A                         | N/A           | N/A            | N/A                                            |
| 22 | N/A          | N/A                         | N/A           | N/A            | N/A                                            |
| 23 | N/A          | N/A                         | N/A           | N/A            | N/A                                            |

\* Contact SMO and attach record of resolution

|                                |                             |
|--------------------------------|-----------------------------|
| Reviewed By <u>[Signature]</u> | Logbook No. <b>N/A</b>      |
| Date <u>11/18/24</u>           | Logbook Page No. <b>N/A</b> |

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

|              |                               |         |          |
|--------------|-------------------------------|---------|----------|
| LAB NAME     | Alliance Technical Group, LLC |         |          |
| LAB CODE     | ACE                           |         |          |
| CONTRACT NO. | 68HERH20D0011                 |         |          |
| CASE NO.     | 51879                         | SDG NO. | MBHHA5   |
| MA NO.       |                               | SOW NO. | SFAM01.1 |

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

|                                              | PAGE NOS: |    | CHECK |        |
|----------------------------------------------|-----------|----|-------|--------|
|                                              | FROM      | TO | LAB   | REGION |
| 1. SDG Cover Page                            | 1         | 1  | ✓     |        |
| 2. Traffic Report/Chain of Custody Record(s) | 2         | 3  | ✓     |        |
| 3. Sample Log-In Sheet (DC-1)                | 4         | 4  | ✓     |        |
| 4. CSF Inventory Sheet (DC-2)                | 5         | 7  | ✓     |        |
| 5. SDG Narrative                             | 8         | 10 | ✓     |        |
| 6. Communication Logs                        | NA        | NA | ✓     |        |
| 7. Percent Solids Log                        | 11        | 12 | ✓     |        |

**Analysis Forms and Data (ICP-AES)**

|                                                                                                                        |    |     |   |  |
|------------------------------------------------------------------------------------------------------------------------|----|-----|---|--|
| 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | 13 | 30  | ✓ |  |
| 9. Instrument raw data by instrument in analysis order                                                                 | 31 | 657 | ✓ |  |

**Other Data**

|                                                                                            |     |     |   |  |
|--------------------------------------------------------------------------------------------|-----|-----|---|--|
| 10. Standard and Reagent Preparation Logs                                                  | 658 | 838 | ✓ |  |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks   | 839 | 840 | ✓ |  |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 841 | 865 | ✓ |  |
| 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions               | NA  | NA  | ✓ |  |
| 14. Extraction Logs for TCLP and SPLP                                                      | NA  | NA  | ✓ |  |
| 15. Raw GPC Data                                                                           | NA  | NA  | ✓ |  |
| 16. Raw Florisil Data                                                                      | NA  | NA  | ✓ |  |

**Analysis Forms and Data (ICP-MS)**

|                                                                                                                         |    |    |   |  |
|-------------------------------------------------------------------------------------------------------------------------|----|----|---|--|
| 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | NA | NA | ✓ |  |
| 18. Instrument raw data by instrument in analysis order                                                                 | NA | NA | ✓ |  |

**Other Data**

|                                                                                            |    |    |   |  |
|--------------------------------------------------------------------------------------------|----|----|---|--|
| 19. Standard and Reagent Preparation Logs                                                  | NA | NA | ✓ |  |
| 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks   | NA | NA | ✓ |  |
| 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | NA | NA | ✓ |  |
| 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions               | NA | NA | ✓ |  |

- 23 . Extraction Logs for TCLP and SPLP
- 24 . Raw GPC Data
- 25 . Raw Florisil Data

| PAGE NOS: |    | CHECK |        |
|-----------|----|-------|--------|
| FROM      | TO | LAB   | REGION |
| NA        | NA | ✓     |        |
| NA        | NA | ✓     |        |
| NA        | NA | ✓     |        |

#### Analysis Forms and Data (Mercury)

- 26 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable
- 27 . Instrument raw data by instrument in analysis order

|    |    |   |  |
|----|----|---|--|
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |

#### Other Data

- 28 . Standard and Reagent Preparation Logs
- 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 32 . Extraction Logs for TCLP and SPLP
- 33 . Raw GPC Data
- 34 . Raw Florisil Data

|    |    |   |  |
|----|----|---|--|
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |

#### Analysis Forms and Data (Cyanide)

- 35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable
- 36 . Instrument raw data by instrument in analysis order

|    |    |   |  |
|----|----|---|--|
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |

#### Other Data

- 37 . Standard and Reagent Preparation Logs
- 38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 41 . Extraction Logs for TCLP and SPLP
- 42 . Raw GPC Data
- 43 . Raw Florisil Data

|    |    |   |  |
|----|----|---|--|
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |
| NA | NA | ✓ |  |

**Additional**

## 44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

## 45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets  
(describe or list)47. Other Records and related Communication Logs  
(describe or list)

## 48. Comments:

Completed by:  
(CLP Lab)Audited by:  
(EPA)

Nimisha Pandya, Document Control Officer

(Signature)

(Print Name &amp; Title)

(Date)

(Signature)

(Print Name &amp; Title)

(Date)

| PAGE NOs: |     | CHECK |        |
|-----------|-----|-------|--------|
| FROM      | TO  | LAB   | REGION |
| 866       | 866 | ✓     |        |
| NA        | NA  | ✓     |        |
| 867       | 868 | ✓     |        |
| NA        | NA  | ✓     |        |
|           |     |       |        |
| 869       | 869 | ✓     |        |
|           |     |       |        |
| NA        | NA  | ✓     |        |
|           |     |       |        |
|           |     |       |        |



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA**

**SDG # MBHHA5**

**CASE # 51879**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

**LAB NAME: Alliance Technical Group, LLC**

**LAB CODE: ACE**

**LAB ORDER ID # P4905**

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

18 Soil samples were delivered to the laboratory intact on 11/16/2024.

### **B. Parameters**

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

### **C. Cooler Temp**

Indicator Bottle: Presence/Absence

Cooler: 2.4°C

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

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

### **E. Corrective Action taken for above:**

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

### **F. Analytical Techniques:**

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

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



**284 Sheffield Street  
Mountainside, NJ 07092**

#### **G. Calculation:**

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

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

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

Where,

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

V<sub>f</sub> = Final digestion volume (mL)

W = Initial aliquot amount (g) (Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

##### **Example Calculation For Sample MBHHA5 For Antimony:**

If C = 0.0078391 ppm

V<sub>f</sub> = 100 ml

W = 1.21 g

S = 0.76(76.0/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.0078391 \times \frac{100}{1.21 \times 0.76} \times 1$$

$$= 0.85244 \text{ mg/kg}$$

$$= 0.85 \text{ mg/kg (Reported Result with Signification)}$$

#### **H. QA/ QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Arsenic, Barium, Copper, Selenium, Silver, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Chromium, Cobalt, Copper, Iron, Manganese.





**284 Sheffield Street  
Mountainside, NJ 07092**

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

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

Signature\_\_\_\_\_

Name: Nimisha Pandya

Date \_\_\_\_\_

Title: Document Control Officer

# PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 11/19/2024

OVENTEMP IN Celsius(°C): 107  
Time IN: 15:50  
In Date: 11/18/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:00  
Out Date: 11/19/2024  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB133494

| Lab ID   | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|----------|-----------------|--------|----------------|--------------|-------------------------|---------------------------|---------|----------|
| P4905-01 | MBHHA5          | 1      | 1.15           | 8.40         | 9.55                    | 7.53                      | 76.0    |          |
| P4905-02 | MBHHA6          | 2      | 1.15           | 8.45         | 9.6                     | 7.93                      | 80.2    |          |
| P4905-03 | MBHHA6D         | 3      | 1.15           | 8.45         | 9.6                     | 7.93                      | 80.2    |          |
| P4905-04 | MBHHA6S         | 4      | 1.15           | 8.45         | 9.6                     | 7.93                      | 80.2    |          |
| P4905-05 | MBHHA7          | 5      | 1.19           | 8.44         | 9.63                    | 8.13                      | 82.2    |          |
| P4905-06 | MBHHA8          | 6      | 1.18           | 8.68         | 9.86                    | 8.21                      | 81.0    |          |
| P4905-07 | MBHHA9          | 7      | 1.14           | 8.83         | 9.97                    | 7.56                      | 72.7    |          |
| P4905-08 | MBHHB0          | 8      | 1.12           | 8.69         | 9.81                    | 7.77                      | 76.5    |          |
| P4905-09 | MBHHB1          | 9      | 1.12           | 8.46         | 9.58                    | 7.81                      | 79.1    |          |
| P4905-10 | MBHHC5          | 10     | 1.14           | 8.71         | 9.85                    | 7.5                       | 73.0    |          |
| P4905-11 | MBHHC6          | 11     | 1.15           | 8.82         | 9.97                    | 7.99                      | 77.6    |          |
| P4905-12 | MBHHC7          | 12     | 1.15           | 8.44         | 9.59                    | 7.74                      | 78.1    |          |
| P4905-13 | MBHHC8          | 13     | 1.19           | 8.58         | 9.77                    | 7.99                      | 79.3    |          |
| P4905-14 | MBHHC9          | 14     | 1.15           | 8.84         | 9.99                    | 8.09                      | 78.5    |          |
| P4905-15 | MBHHD0          | 15     | 1.15           | 8.40         | 9.55                    | 8.26                      | 84.6    |          |
| P4905-16 | MBHHD1          | 16     | 1.16           | 8.70         | 9.86                    | 8.95                      | 89.5    |          |
| P4905-17 | MBHHD2          | 17     | 1.13           | 8.70         | 9.83                    | 8.84                      | 88.6    |          |
| P4905-18 | MBHHD3          | 18     | 1.15           | 8.57         | 9.72                    | 8.63                      | 87.3    |          |
| P4905-19 | MBHHD4          | 19     | 1.17           | 8.58         | 9.75                    | 8.54                      | 85.9    |          |
| P4905-20 | MBHHD5          | 20     | 1.14           | 8.78         | 9.92                    | 8.83                      | 87.6    |          |

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

# WORKLIST(Hardcopy Internal Chain)

133494

WorkList Name : %1-p4905

WorkList ID : 185540

Department : Wet-Chemistry

Date : 11-18-2024 14:59:11

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| P4905-01 | MBHHA5          | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-02 | MBHHA6          | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-03 | MBHHA6D         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-04 | MBHHA6S         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-05 | MBHHA7          | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-06 | MBHHA8          | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-07 | MBHHA9          | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-08 | MBHHA10         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-09 | MBHHA11         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-10 | MBHHA12         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-11 | MBHHA13         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-12 | MBHHA14         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-13 | MBHHA15         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-14 | MBHHA16         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-15 | MBHHA17         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-16 | MBHHA18         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-17 | MBHHA19         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-18 | MBHHA20         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-19 | MBHHA21         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |
| P4905-20 | MBHHA22         | Solid  | Percent Solids | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | Chemtech -SO |

12

Date/Time 11/18/24 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/18/24

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHA5

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-01

% Solids: 76 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6800          | *  | 11/20/2024    | 1730          |
| 7440-36-0 | Antimony  | 0.85          | J* | 11/20/2024    | 1730          |
| 7440-38-2 | Arsenic   | 11            | *  | 11/20/2024    | 1730          |
| 7440-39-3 | Barium    | 240           | *  | 11/20/2024    | 1730          |
| 7440-41-7 | Beryllium | 0.46          | J  | 11/20/2024    | 1730          |
| 7440-43-9 | Cadmium   | 1.6           |    | 11/20/2024    | 1730          |
| 7440-70-2 | Calcium   | 16000         |    | 11/20/2024    | 1730          |
| 7440-47-3 | Chromium  | 13            | *  | 11/20/2024    | 1730          |
| 7440-48-4 | Cobalt    | 9.6           | *  | 11/20/2024    | 1730          |
| 7440-50-8 | Copper    | 46            | *  | 11/20/2024    | 1730          |
| 7439-89-6 | Iron      | 18000         | *  | 11/20/2024    | 1730          |
| 7439-92-1 | Lead      | 350           |    | 11/20/2024    | 1730          |
| 7439-95-4 | Magnesium | 3700          |    | 11/20/2024    | 1730          |
| 7439-96-5 | Manganese | 1200          | *  | 11/20/2024    | 1730          |
| 7440-02-0 | Nickel    | 20            |    | 11/20/2024    | 1730          |
| 7440-09-7 | Potassium | 1200          |    | 11/20/2024    | 1730          |
| 7782-49-2 | Selenium  | 3.8           | U* | 11/20/2024    | 1730          |
| 7440-22-4 | Silver    | 1.1           | U* | 11/20/2024    | 1730          |
| 7440-23-5 | Sodium    | 180           | J  | 11/20/2024    | 1730          |
| 7440-28-0 | Thallium  | 2.7           | U  | 11/20/2024    | 1730          |
| 7440-62-2 | Vanadium  | 18            |    | 11/20/2024    | 1730          |
| 7440-66-6 | Zinc      | 230           | *  | 11/20/2024    | 1730          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHA6

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-02

% Solids: 80.2 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7800          | *  | 12/10/2024    | 2246          |
| 7440-36-0 | Antimony  | 6.5           | U* | 12/10/2024    | 2246          |
| 7440-38-2 | Arsenic   | 13            | *  | 12/10/2024    | 2246          |
| 7440-39-3 | Barium    | 250           | *  | 12/10/2024    | 2246          |
| 7440-41-7 | Beryllium | 0.69          |    | 12/10/2024    | 2246          |
| 7440-43-9 | Cadmium   | 1.1           |    | 12/10/2024    | 2246          |
| 7440-70-2 | Calcium   | 17000         |    | 12/10/2024    | 2246          |
| 7440-47-3 | Chromium  | 17            | *  | 12/10/2024    | 2246          |
| 7440-48-4 | Cobalt    | 14            | *  | 12/10/2024    | 2246          |
| 7440-50-8 | Copper    | 50            | *  | 12/10/2024    | 2246          |
| 7439-89-6 | Iron      | 20000         | *  | 12/10/2024    | 2246          |
| 7439-92-1 | Lead      | 370           |    | 12/10/2024    | 2246          |
| 7439-95-4 | Magnesium | 4000          |    | 12/10/2024    | 2246          |
| 7439-96-5 | Manganese | 1300          | *  | 12/10/2024    | 2246          |
| 7440-02-0 | Nickel    | 24            |    | 12/10/2024    | 2246          |
| 7440-09-7 | Potassium | 1400          |    | 12/10/2024    | 2246          |
| 7782-49-2 | Selenium  | 3.8           | U* | 12/10/2024    | 2246          |
| 7440-22-4 | Silver    | 1.1           | U* | 12/10/2024    | 2246          |
| 7440-23-5 | Sodium    | 540           | U  | 12/10/2024    | 2246          |
| 7440-28-0 | Thallium  | 2.7           | U  | 12/10/2024    | 2246          |
| 7440-62-2 | Vanadium  | 20            |    | 12/10/2024    | 2246          |
| 7440-66-6 | Zinc      | 250           | *  | 12/10/2024    | 2246          |

NOTE: Hardness (total) is reported in  $\text{mg/L}$ 

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHA7

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-05

% Solids: 82.2 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7100          | *  | 11/20/2024    | 1752          |
| 7440-36-0 | Antimony  | 0.69          | J* | 11/20/2024    | 1752          |
| 7440-38-2 | Arsenic   | 13            | *  | 11/20/2024    | 1752          |
| 7440-39-3 | Barium    | 250           | *  | 11/20/2024    | 1752          |
| 7440-41-7 | Beryllium | 0.47          |    | 11/20/2024    | 1752          |
| 7440-43-9 | Cadmium   | 1.8           |    | 11/20/2024    | 1752          |
| 7440-70-2 | Calcium   | 15000         |    | 11/20/2024    | 1752          |
| 7440-47-3 | Chromium  | 13            | *  | 11/20/2024    | 1752          |
| 7440-48-4 | Cobalt    | 10            | *  | 11/20/2024    | 1752          |
| 7440-50-8 | Copper    | 49            | *  | 11/20/2024    | 1752          |
| 7439-89-6 | Iron      | 18000         | *  | 11/20/2024    | 1752          |
| 7439-92-1 | Lead      | 370           |    | 11/20/2024    | 1752          |
| 7439-95-4 | Magnesium | 3500          |    | 11/20/2024    | 1752          |
| 7439-96-5 | Manganese | 1300          | *  | 11/20/2024    | 1752          |
| 7440-02-0 | Nickel    | 21            |    | 11/20/2024    | 1752          |
| 7440-09-7 | Potassium | 1100          |    | 11/20/2024    | 1752          |
| 7782-49-2 | Selenium  | 3.3           | U* | 11/20/2024    | 1752          |
| 7440-22-4 | Silver    | 0.94          | U* | 11/20/2024    | 1752          |
| 7440-23-5 | Sodium    | 160           | J  | 11/20/2024    | 1752          |
| 7440-28-0 | Thallium  | 2.3           | U  | 11/20/2024    | 1752          |
| 7440-62-2 | Vanadium  | 19            |    | 11/20/2024    | 1752          |
| 7440-66-6 | Zinc      | 240           | *  | 11/20/2024    | 1752          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHA8

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-06

% Solids: 81 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7400          | *  | 11/20/2024    | 1805          |
| 7440-36-0 | Antimony  | 0.97          | J* | 11/20/2024    | 1805          |
| 7440-38-2 | Arsenic   | 13            | *  | 11/20/2024    | 1805          |
| 7440-39-3 | Barium    | 200           | *  | 11/20/2024    | 1805          |
| 7440-41-7 | Beryllium | 0.47          | J  | 11/20/2024    | 1805          |
| 7440-43-9 | Cadmium   | 1.6           |    | 11/20/2024    | 1805          |
| 7440-70-2 | Calcium   | 16000         |    | 11/20/2024    | 1805          |
| 7440-47-3 | Chromium  | 12            | *  | 11/20/2024    | 1805          |
| 7440-48-4 | Cobalt    | 11            | *  | 11/20/2024    | 1805          |
| 7440-50-8 | Copper    | 42            | *  | 11/20/2024    | 1805          |
| 7439-89-6 | Iron      | 19000         | *  | 11/20/2024    | 1805          |
| 7439-92-1 | Lead      | 230           |    | 11/20/2024    | 1805          |
| 7439-95-4 | Magnesium | 3300          |    | 11/20/2024    | 1805          |
| 7439-96-5 | Manganese | 1300          | *  | 11/20/2024    | 1805          |
| 7440-02-0 | Nickel    | 20            |    | 11/20/2024    | 1805          |
| 7440-09-7 | Potassium | 960           |    | 11/20/2024    | 1805          |
| 7782-49-2 | Selenium  | 3.5           | U* | 11/20/2024    | 1805          |
| 7440-22-4 | Silver    | 1.0           | U* | 11/20/2024    | 1805          |
| 7440-23-5 | Sodium    | 190           | J  | 11/20/2024    | 1805          |
| 7440-28-0 | Thallium  | 2.5           | U  | 11/20/2024    | 1805          |
| 7440-62-2 | Vanadium  | 19            |    | 11/20/2024    | 1805          |
| 7440-66-6 | Zinc      | 160           | *  | 11/20/2024    | 1805          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHA9

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-07

% Solids: 72.7 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6600          | *  | 11/20/2024    | 1810          |
| 7440-36-0 | Antimony  | 0.75          | J* | 11/20/2024    | 1810          |
| 7440-38-2 | Arsenic   | 8.9           | *  | 11/20/2024    | 1810          |
| 7440-39-3 | Barium    | 240           | *  | 11/20/2024    | 1810          |
| 7440-41-7 | Beryllium | 0.38          | J  | 11/20/2024    | 1810          |
| 7440-43-9 | Cadmium   | 1.7           |    | 11/20/2024    | 1810          |
| 7440-70-2 | Calcium   | 4900          |    | 11/20/2024    | 1810          |
| 7440-47-3 | Chromium  | 14            | *  | 11/20/2024    | 1810          |
| 7440-48-4 | Cobalt    | 6.9           | *  | 11/20/2024    | 1810          |
| 7440-50-8 | Copper    | 53            | *  | 11/20/2024    | 1810          |
| 7439-89-6 | Iron      | 15000         | *  | 11/20/2024    | 1810          |
| 7439-92-1 | Lead      | 460           |    | 11/20/2024    | 1810          |
| 7439-95-4 | Magnesium | 2000          |    | 11/20/2024    | 1810          |
| 7439-96-5 | Manganese | 710           | *  | 11/20/2024    | 1810          |
| 7440-02-0 | Nickel    | 22            |    | 11/20/2024    | 1810          |
| 7440-09-7 | Potassium | 390           | J  | 11/20/2024    | 1810          |
| 7782-49-2 | Selenium  | 3.5           | U* | 11/20/2024    | 1810          |
| 7440-22-4 | Silver    | 0.99          | U* | 11/20/2024    | 1810          |
| 7440-23-5 | Sodium    | 140           | J  | 11/20/2024    | 1810          |
| 7440-28-0 | Thallium  | 2.5           | U  | 11/20/2024    | 1810          |
| 7440-62-2 | Vanadium  | 18            |    | 11/20/2024    | 1810          |
| 7440-66-6 | Zinc      | 310           | *  | 11/20/2024    | 1810          |

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

Comments:



FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHB0

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-08

% Solids: 76.5 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7100          | *  | 11/20/2024    | 1814          |
| 7440-36-0 | Antimony  | 0.81          | J* | 11/20/2024    | 1814          |
| 7440-38-2 | Arsenic   | 8.1           | *  | 11/20/2024    | 1814          |
| 7440-39-3 | Barium    | 250           | *  | 11/20/2024    | 1814          |
| 7440-41-7 | Beryllium | 0.38          | J  | 11/20/2024    | 1814          |
| 7440-43-9 | Cadmium   | 1.7           |    | 11/20/2024    | 1814          |
| 7440-70-2 | Calcium   | 5700          |    | 11/20/2024    | 1814          |
| 7440-47-3 | Chromium  | 14            | *  | 11/20/2024    | 1814          |
| 7440-48-4 | Cobalt    | 7.1           | *  | 11/20/2024    | 1814          |
| 7440-50-8 | Copper    | 55            | *  | 11/20/2024    | 1814          |
| 7439-89-6 | Iron      | 16000         | *  | 11/20/2024    | 1814          |
| 7439-92-1 | Lead      | 420           |    | 11/20/2024    | 1814          |
| 7439-95-4 | Magnesium | 2400          |    | 11/20/2024    | 1814          |
| 7439-96-5 | Manganese | 800           | *  | 11/20/2024    | 1814          |
| 7440-02-0 | Nickel    | 21            |    | 11/20/2024    | 1814          |
| 7440-09-7 | Potassium | 280           | J  | 11/20/2024    | 1814          |
| 7782-49-2 | Selenium  | 4.2           | U* | 11/20/2024    | 1814          |
| 7440-22-4 | Silver    | 1.2           | U* | 11/20/2024    | 1814          |
| 7440-23-5 | Sodium    | 140           | J  | 11/20/2024    | 1814          |
| 7440-28-0 | Thallium  | 3.0           | U  | 11/20/2024    | 1814          |
| 7440-62-2 | Vanadium  | 19            |    | 11/20/2024    | 1814          |
| 7440-66-6 | Zinc      | 300           | *  | 11/20/2024    | 1814          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHB1

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-09

% Solids: 79.1 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6800          | *  | 11/20/2024    | 1818          |
| 7440-36-0 | Antimony  | 0.88          | J* | 11/20/2024    | 1818          |
| 7440-38-2 | Arsenic   | 9.7           | *  | 11/20/2024    | 1818          |
| 7440-39-3 | Barium    | 340           | *  | 11/20/2024    | 1818          |
| 7440-41-7 | Beryllium | 0.43          | J  | 11/20/2024    | 1818          |
| 7440-43-9 | Cadmium   | 2.7           |    | 11/20/2024    | 1818          |
| 7440-70-2 | Calcium   | 8300          |    | 11/20/2024    | 1818          |
| 7440-47-3 | Chromium  | 15            | *  | 11/20/2024    | 1818          |
| 7440-48-4 | Cobalt    | 8.3           | *  | 11/20/2024    | 1818          |
| 7440-50-8 | Copper    | 82            | *  | 11/20/2024    | 1818          |
| 7439-89-6 | Iron      | 19000         | *  | 11/20/2024    | 1818          |
| 7439-92-1 | Lead      | 950           |    | 11/20/2024    | 1818          |
| 7439-95-4 | Magnesium | 2800          |    | 11/20/2024    | 1818          |
| 7439-96-5 | Manganese | 790           | *  | 11/20/2024    | 1818          |
| 7440-02-0 | Nickel    | 22            |    | 11/20/2024    | 1818          |
| 7440-09-7 | Potassium | 380           | J  | 11/20/2024    | 1818          |
| 7782-49-2 | Selenium  | 3.1           | U* | 11/20/2024    | 1818          |
| 7440-22-4 | Silver    | 0.87          | U* | 11/20/2024    | 1818          |
| 7440-23-5 | Sodium    | 190           | J  | 11/20/2024    | 1818          |
| 7440-28-0 | Thallium  | 2.2           | U  | 11/20/2024    | 1818          |
| 7440-62-2 | Vanadium  | 18            |    | 11/20/2024    | 1818          |
| 7440-66-6 | Zinc      | 450           | *  | 11/20/2024    | 1818          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHC5

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-10

% Solids: 73 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6400          | *  | 11/20/2024    | 1823          |
| 7440-36-0 | Antimony  | 1.6           | J* | 11/20/2024    | 1823          |
| 7440-38-2 | Arsenic   | 7.5           | *  | 11/20/2024    | 1823          |
| 7440-39-3 | Barium    | 340           | *  | 11/20/2024    | 1823          |
| 7440-41-7 | Beryllium | 0.40          | J  | 11/20/2024    | 1823          |
| 7440-43-9 | Cadmium   | 3.1           |    | 11/20/2024    | 1823          |
| 7440-70-2 | Calcium   | 19000         |    | 11/20/2024    | 1823          |
| 7440-47-3 | Chromium  | 18            | *  | 11/20/2024    | 1823          |
| 7440-48-4 | Cobalt    | 7.9           | *  | 11/20/2024    | 1823          |
| 7440-50-8 | Copper    | 55            | *  | 11/20/2024    | 1823          |
| 7439-89-6 | Iron      | 20000         | *  | 11/20/2024    | 1823          |
| 7439-92-1 | Lead      | 780           |    | 11/20/2024    | 1823          |
| 7439-95-4 | Magnesium | 4800          |    | 11/20/2024    | 1823          |
| 7439-96-5 | Manganese | 880           | *  | 11/20/2024    | 1823          |
| 7440-02-0 | Nickel    | 28            |    | 11/20/2024    | 1823          |
| 7440-09-7 | Potassium | 520           | J  | 11/20/2024    | 1823          |
| 7782-49-2 | Selenium  | 3.7           | U* | 11/20/2024    | 1823          |
| 7440-22-4 | Silver    | 1.1           | U* | 11/20/2024    | 1823          |
| 7440-23-5 | Sodium    | 240           | J  | 11/20/2024    | 1823          |
| 7440-28-0 | Thallium  | 2.7           | U  | 11/20/2024    | 1823          |
| 7440-62-2 | Vanadium  | 17            |    | 11/20/2024    | 1823          |
| 7440-66-6 | Zinc      | 600           | *  | 11/20/2024    | 1823          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHC6

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-11

% Solids: 77.6 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6400          | *  | 11/20/2024    | 1827          |
| 7440-36-0 | Antimony  | 0.68          | J* | 11/20/2024    | 1827          |
| 7440-38-2 | Arsenic   | 9.4           | *  | 11/20/2024    | 1827          |
| 7440-39-3 | Barium    | 310           | *  | 11/20/2024    | 1827          |
| 7440-41-7 | Beryllium | 0.38          | J  | 11/20/2024    | 1827          |
| 7440-43-9 | Cadmium   | 2.7           |    | 11/20/2024    | 1827          |
| 7440-70-2 | Calcium   | 21000         |    | 11/20/2024    | 1827          |
| 7440-47-3 | Chromium  | 14            | *  | 11/20/2024    | 1827          |
| 7440-48-4 | Cobalt    | 8.0           | *  | 11/20/2024    | 1827          |
| 7440-50-8 | Copper    | 48            | *  | 11/20/2024    | 1827          |
| 7439-89-6 | Iron      | 18000         | *  | 11/20/2024    | 1827          |
| 7439-92-1 | Lead      | 670           |    | 11/20/2024    | 1827          |
| 7439-95-4 | Magnesium | 4300          |    | 11/20/2024    | 1827          |
| 7439-96-5 | Manganese | 910           | *  | 11/20/2024    | 1827          |
| 7440-02-0 | Nickel    | 21            |    | 11/20/2024    | 1827          |
| 7440-09-7 | Potassium | 420           | J  | 11/20/2024    | 1827          |
| 7782-49-2 | Selenium  | 3.4           | U* | 11/20/2024    | 1827          |
| 7440-22-4 | Silver    | 0.98          | U* | 11/20/2024    | 1827          |
| 7440-23-5 | Sodium    | 180           | J  | 11/20/2024    | 1827          |
| 7440-28-0 | Thallium  | 2.5           | U  | 11/20/2024    | 1827          |
| 7440-62-2 | Vanadium  | 17            |    | 11/20/2024    | 1827          |
| 7440-66-6 | Zinc      | 470           | *  | 11/20/2024    | 1827          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHC7

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-12

% Solids: 78.1 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7100          | *  | 11/20/2024    | 1831          |
| 7440-36-0 | Antimony  | 1.0           | J* | 11/20/2024    | 1831          |
| 7440-38-2 | Arsenic   | 11            | *  | 11/20/2024    | 1831          |
| 7440-39-3 | Barium    | 290           | *  | 11/20/2024    | 1831          |
| 7440-41-7 | Beryllium | 0.39          | J  | 11/20/2024    | 1831          |
| 7440-43-9 | Cadmium   | 1.8           |    | 11/20/2024    | 1831          |
| 7440-70-2 | Calcium   | 26000         |    | 11/20/2024    | 1831          |
| 7440-47-3 | Chromium  | 13            | *  | 11/20/2024    | 1831          |
| 7440-48-4 | Cobalt    | 8.3           | *  | 11/20/2024    | 1831          |
| 7440-50-8 | Copper    | 50            | *  | 11/20/2024    | 1831          |
| 7439-89-6 | Iron      | 18000         | *  | 11/20/2024    | 1831          |
| 7439-92-1 | Lead      | 530           |    | 11/20/2024    | 1831          |
| 7439-95-4 | Magnesium | 3300          |    | 11/20/2024    | 1831          |
| 7439-96-5 | Manganese | 1100          | *  | 11/20/2024    | 1831          |
| 7440-02-0 | Nickel    | 17            |    | 11/20/2024    | 1831          |
| 7440-09-7 | Potassium | 530           | J  | 11/20/2024    | 1831          |
| 7782-49-2 | Selenium  | 4.0           | U* | 11/20/2024    | 1831          |
| 7440-22-4 | Silver    | 1.1           | U* | 11/20/2024    | 1831          |
| 7440-23-5 | Sodium    | 190           | J  | 11/20/2024    | 1831          |
| 7440-28-0 | Thallium  | 2.9           | U  | 11/20/2024    | 1831          |
| 7440-62-2 | Vanadium  | 18            |    | 11/20/2024    | 1831          |
| 7440-66-6 | Zinc      | 310           | *  | 11/20/2024    | 1831          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHC8

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-13

% Solids: 79.3 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 8000          | *  | 11/20/2024    | 1836          |
| 7440-36-0 | Antimony  | 0.54          | J* | 11/20/2024    | 1836          |
| 7440-38-2 | Arsenic   | 9.2           | *  | 11/20/2024    | 1836          |
| 7440-39-3 | Barium    | 140           | *  | 11/20/2024    | 1836          |
| 7440-41-7 | Beryllium | 0.40          | J  | 11/20/2024    | 1836          |
| 7440-43-9 | Cadmium   | 1.1           |    | 11/20/2024    | 1836          |
| 7440-70-2 | Calcium   | 12000         |    | 11/20/2024    | 1836          |
| 7440-47-3 | Chromium  | 11            | *  | 11/20/2024    | 1836          |
| 7440-48-4 | Cobalt    | 9.1           | *  | 11/20/2024    | 1836          |
| 7440-50-8 | Copper    | 28            | *  | 11/20/2024    | 1836          |
| 7439-89-6 | Iron      | 17000         | *  | 11/20/2024    | 1836          |
| 7439-92-1 | Lead      | 200           |    | 11/20/2024    | 1836          |
| 7439-95-4 | Magnesium | 2200          |    | 11/20/2024    | 1836          |
| 7439-96-5 | Manganese | 930           | *  | 11/20/2024    | 1836          |
| 7440-02-0 | Nickel    | 13            |    | 11/20/2024    | 1836          |
| 7440-09-7 | Potassium | 360           | J  | 11/20/2024    | 1836          |
| 7782-49-2 | Selenium  | 3.2           | U* | 11/20/2024    | 1836          |
| 7440-22-4 | Silver    | 0.92          | U* | 11/20/2024    | 1836          |
| 7440-23-5 | Sodium    | 150           | J  | 11/20/2024    | 1836          |
| 7440-28-0 | Thallium  | 2.3           | U  | 11/20/2024    | 1836          |
| 7440-62-2 | Vanadium  | 19            |    | 11/20/2024    | 1836          |
| 7440-66-6 | Zinc      | 110           | *  | 11/20/2024    | 1836          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHC9

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-14

% Solids: 78.5 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 8100          | *  | 11/20/2024    | 1840          |
| 7440-36-0 | Antimony  | 0.60          | J* | 11/20/2024    | 1840          |
| 7440-38-2 | Arsenic   | 9.5           | *  | 11/20/2024    | 1840          |
| 7440-39-3 | Barium    | 130           | *  | 11/20/2024    | 1840          |
| 7440-41-7 | Beryllium | 0.44          |    | 11/20/2024    | 1840          |
| 7440-43-9 | Cadmium   | 1.3           |    | 11/20/2024    | 1840          |
| 7440-70-2 | Calcium   | 9300          |    | 11/20/2024    | 1840          |
| 7440-47-3 | Chromium  | 14            | *  | 11/20/2024    | 1840          |
| 7440-48-4 | Cobalt    | 11            | *  | 11/20/2024    | 1840          |
| 7440-50-8 | Copper    | 26            | *  | 11/20/2024    | 1840          |
| 7439-89-6 | Iron      | 18000         | *  | 11/20/2024    | 1840          |
| 7439-92-1 | Lead      | 170           |    | 11/20/2024    | 1840          |
| 7439-95-4 | Magnesium | 2100          |    | 11/20/2024    | 1840          |
| 7439-96-5 | Manganese | 1100          | *  | 11/20/2024    | 1840          |
| 7440-02-0 | Nickel    | 17            |    | 11/20/2024    | 1840          |
| 7440-09-7 | Potassium | 400           | J  | 11/20/2024    | 1840          |
| 7782-49-2 | Selenium  | 3.0           | U* | 11/20/2024    | 1840          |
| 7440-22-4 | Silver    | 0.86          | U* | 11/20/2024    | 1840          |
| 7440-23-5 | Sodium    | 160           | J  | 11/20/2024    | 1840          |
| 7440-28-0 | Thallium  | 2.1           | U  | 11/20/2024    | 1840          |
| 7440-62-2 | Vanadium  | 19            |    | 11/20/2024    | 1840          |
| 7440-66-6 | Zinc      | 110           | *  | 11/20/2024    | 1840          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHD0

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-15

% Solids: 84.6 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6500          | *  | 11/20/2024    | 1845          |
| 7440-36-0 | Antimony  | 0.51          | J* | 11/20/2024    | 1845          |
| 7440-38-2 | Arsenic   | 7.0           | *  | 11/20/2024    | 1845          |
| 7440-39-3 | Barium    | 140           | *  | 11/20/2024    | 1845          |
| 7440-41-7 | Beryllium | 0.42          | J  | 11/20/2024    | 1845          |
| 7440-43-9 | Cadmium   | 1.1           |    | 11/20/2024    | 1845          |
| 7440-70-2 | Calcium   | 4600          |    | 11/20/2024    | 1845          |
| 7440-47-3 | Chromium  | 11            | *  | 11/20/2024    | 1845          |
| 7440-48-4 | Cobalt    | 8.2           | *  | 11/20/2024    | 1845          |
| 7440-50-8 | Copper    | 31            | *  | 11/20/2024    | 1845          |
| 7439-89-6 | Iron      | 16000         | *  | 11/20/2024    | 1845          |
| 7439-92-1 | Lead      | 190           |    | 11/20/2024    | 1845          |
| 7439-95-4 | Magnesium | 1700          |    | 11/20/2024    | 1845          |
| 7439-96-5 | Manganese | 1000          | *  | 11/20/2024    | 1845          |
| 7440-02-0 | Nickel    | 16            |    | 11/20/2024    | 1845          |
| 7440-09-7 | Potassium | 700           |    | 11/20/2024    | 1845          |
| 7782-49-2 | Selenium  | 3.6           | U* | 11/20/2024    | 1845          |
| 7440-22-4 | Silver    | 1.0           | U* | 11/20/2024    | 1845          |
| 7440-23-5 | Sodium    | 160           | J  | 11/20/2024    | 1845          |
| 7440-28-0 | Thallium  | 2.6           | U  | 11/20/2024    | 1845          |
| 7440-62-2 | Vanadium  | 19            |    | 11/20/2024    | 1845          |
| 7440-66-6 | Zinc      | 150           | *  | 11/20/2024    | 1845          |

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

Comments:



FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHD1

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

Lab Code: ACE Case No.: 51879 MA No. :  SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-16

% Solids: 89.5 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6500          | *  | 11/20/2024    | 1849          |
| 7440-36-0 | Antimony  | 5.7           | U* | 11/20/2024    | 1849          |
| 7440-38-2 | Arsenic   | 11            | *  | 11/20/2024    | 1849          |
| 7440-39-3 | Barium    | 180           | *  | 11/20/2024    | 1849          |
| 7440-41-7 | Beryllium | 0.46          | J  | 11/20/2024    | 1849          |
| 7440-43-9 | Cadmium   | 1.4           |    | 11/20/2024    | 1849          |
| 7440-70-2 | Calcium   | 7600          |    | 11/20/2024    | 1849          |
| 7440-47-3 | Chromium  | 12            | *  | 11/20/2024    | 1849          |
| 7440-48-4 | Cobalt    | 9.0           | *  | 11/20/2024    | 1849          |
| 7440-50-8 | Copper    | 43            | *  | 11/20/2024    | 1849          |
| 7439-89-6 | Iron      | 19000         | *  | 11/20/2024    | 1849          |
| 7439-92-1 | Lead      | 270           |    | 11/20/2024    | 1849          |
| 7439-95-4 | Magnesium | 2100          |    | 11/20/2024    | 1849          |
| 7439-96-5 | Manganese | 1100          | *  | 11/20/2024    | 1849          |
| 7440-02-0 | Nickel    | 19            |    | 11/20/2024    | 1849          |
| 7440-09-7 | Potassium | 640           |    | 11/20/2024    | 1849          |
| 7782-49-2 | Selenium  | 3.3           | U* | 11/20/2024    | 1849          |
| 7440-22-4 | Silver    | 0.96          | U* | 11/20/2024    | 1849          |
| 7440-23-5 | Sodium    | 150           | J  | 11/20/2024    | 1849          |
| 7440-28-0 | Thallium  | 2.4           | U  | 11/20/2024    | 1849          |
| 7440-62-2 | Vanadium  | 20            |    | 11/20/2024    | 1849          |
| 7440-66-6 | Zinc      | 200           | *  | 11/20/2024    | 1849          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHD2

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-17

% Solids: 88.6 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7000          | *  | 11/20/2024    | 1853          |
| 7440-36-0 | Antimony  | 0.67          | J* | 11/20/2024    | 1853          |
| 7440-38-2 | Arsenic   | 17            | *  | 11/20/2024    | 1853          |
| 7440-39-3 | Barium    | 250           | *  | 11/20/2024    | 1853          |
| 7440-41-7 | Beryllium | 0.51          |    | 11/20/2024    | 1853          |
| 7440-43-9 | Cadmium   | 1.8           |    | 11/20/2024    | 1853          |
| 7440-70-2 | Calcium   | 15000         |    | 11/20/2024    | 1853          |
| 7440-47-3 | Chromium  | 13            | *  | 11/20/2024    | 1853          |
| 7440-48-4 | Cobalt    | 10            | *  | 11/20/2024    | 1853          |
| 7440-50-8 | Copper    | 58            | *  | 11/20/2024    | 1853          |
| 7439-89-6 | Iron      | 19000         | *  | 11/20/2024    | 1853          |
| 7439-92-1 | Lead      | 520           |    | 11/20/2024    | 1853          |
| 7439-95-4 | Magnesium | 3700          |    | 11/20/2024    | 1853          |
| 7439-96-5 | Manganese | 1400          | *  | 11/20/2024    | 1853          |
| 7440-02-0 | Nickel    | 20            |    | 11/20/2024    | 1853          |
| 7440-09-7 | Potassium | 770           |    | 11/20/2024    | 1853          |
| 7782-49-2 | Selenium  | 3.3           | U* | 11/20/2024    | 1853          |
| 7440-22-4 | Silver    | 0.95          | U* | 11/20/2024    | 1853          |
| 7440-23-5 | Sodium    | 180           | J  | 11/20/2024    | 1853          |
| 7440-28-0 | Thallium  | 2.4           | U  | 11/20/2024    | 1853          |
| 7440-62-2 | Vanadium  | 22            |    | 11/20/2024    | 1853          |
| 7440-66-6 | Zinc      | 320           | *  | 11/20/2024    | 1853          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHD3

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-18

% Solids: 87.3 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6900          | *  | 11/20/2024    | 1858          |
| 7440-36-0 | Antimony  | 0.58          | J* | 11/20/2024    | 1858          |
| 7440-38-2 | Arsenic   | 15            | *  | 11/20/2024    | 1858          |
| 7440-39-3 | Barium    | 220           | *  | 11/20/2024    | 1858          |
| 7440-41-7 | Beryllium | 0.50          | J  | 11/20/2024    | 1858          |
| 7440-43-9 | Cadmium   | 1.6           |    | 11/20/2024    | 1858          |
| 7440-70-2 | Calcium   | 9800          |    | 11/20/2024    | 1858          |
| 7440-47-3 | Chromium  | 12            | *  | 11/20/2024    | 1858          |
| 7440-48-4 | Cobalt    | 10            | *  | 11/20/2024    | 1858          |
| 7440-50-8 | Copper    | 61            | *  | 11/20/2024    | 1858          |
| 7439-89-6 | Iron      | 19000         | *  | 11/20/2024    | 1858          |
| 7439-92-1 | Lead      | 350           |    | 11/20/2024    | 1858          |
| 7439-95-4 | Magnesium | 2100          |    | 11/20/2024    | 1858          |
| 7439-96-5 | Manganese | 1500          | *  | 11/20/2024    | 1858          |
| 7440-02-0 | Nickel    | 17            |    | 11/20/2024    | 1858          |
| 7440-09-7 | Potassium | 740           |    | 11/20/2024    | 1858          |
| 7782-49-2 | Selenium  | 3.6           | U* | 11/20/2024    | 1858          |
| 7440-22-4 | Silver    | 1.0           | U* | 11/20/2024    | 1858          |
| 7440-23-5 | Sodium    | 170           | J  | 11/20/2024    | 1858          |
| 7440-28-0 | Thallium  | 2.6           | U  | 11/20/2024    | 1858          |
| 7440-62-2 | Vanadium  | 21            |    | 11/20/2024    | 1858          |
| 7440-66-6 | Zinc      | 240           | *  | 11/20/2024    | 1858          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHD4

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-19

% Solids: 85.9 Date Received: 11/16/2024

Analytical Method: ICP\_AES

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 7400          | *  | 11/20/2024    | 1902          |
| 7440-36-0 | Antimony  | 0.53          | J* | 11/20/2024    | 1902          |
| 7440-38-2 | Arsenic   | 19            | *  | 11/20/2024    | 1902          |
| 7440-39-3 | Barium    | 180           | *  | 11/20/2024    | 1902          |
| 7440-41-7 | Beryllium | 0.50          |    | 11/20/2024    | 1902          |
| 7440-43-9 | Cadmium   | 1.7           |    | 11/20/2024    | 1902          |
| 7440-70-2 | Calcium   | 9200          |    | 11/20/2024    | 1902          |
| 7440-47-3 | Chromium  | 10            | *  | 11/20/2024    | 1902          |
| 7440-48-4 | Cobalt    | 13            | *  | 11/20/2024    | 1902          |
| 7440-50-8 | Copper    | 37            | *  | 11/20/2024    | 1902          |
| 7439-89-6 | Iron      | 21000         | *  | 11/20/2024    | 1902          |
| 7439-92-1 | Lead      | 230           |    | 11/20/2024    | 1902          |
| 7439-95-4 | Magnesium | 1700          |    | 11/20/2024    | 1902          |
| 7439-96-5 | Manganese | 2300          | *  | 11/20/2024    | 1902          |
| 7440-02-0 | Nickel    | 18            |    | 11/20/2024    | 1902          |
| 7440-09-7 | Potassium | 690           |    | 11/20/2024    | 1902          |
| 7782-49-2 | Selenium  | 3.4           | U* | 11/20/2024    | 1902          |
| 7440-22-4 | Silver    | 0.96          | U* | 11/20/2024    | 1902          |
| 7440-23-5 | Sodium    | 130           | J  | 11/20/2024    | 1902          |
| 7440-28-0 | Thallium  | 2.4           | U  | 11/20/2024    | 1902          |
| 7440-62-2 | Vanadium  | 20            |    | 11/20/2024    | 1902          |
| 7440-66-6 | Zinc      | 130           | *  | 11/20/2024    | 1902          |

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

Comments:

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

MBHHD5

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

Lab Code: ACE Case No.: 51879 MA No. :                      SDG No.: MBHHA5

Matrix: SOIL Lab Sample ID: P4905-20

% Solids: 87.6 Date Received: 11/16/2024

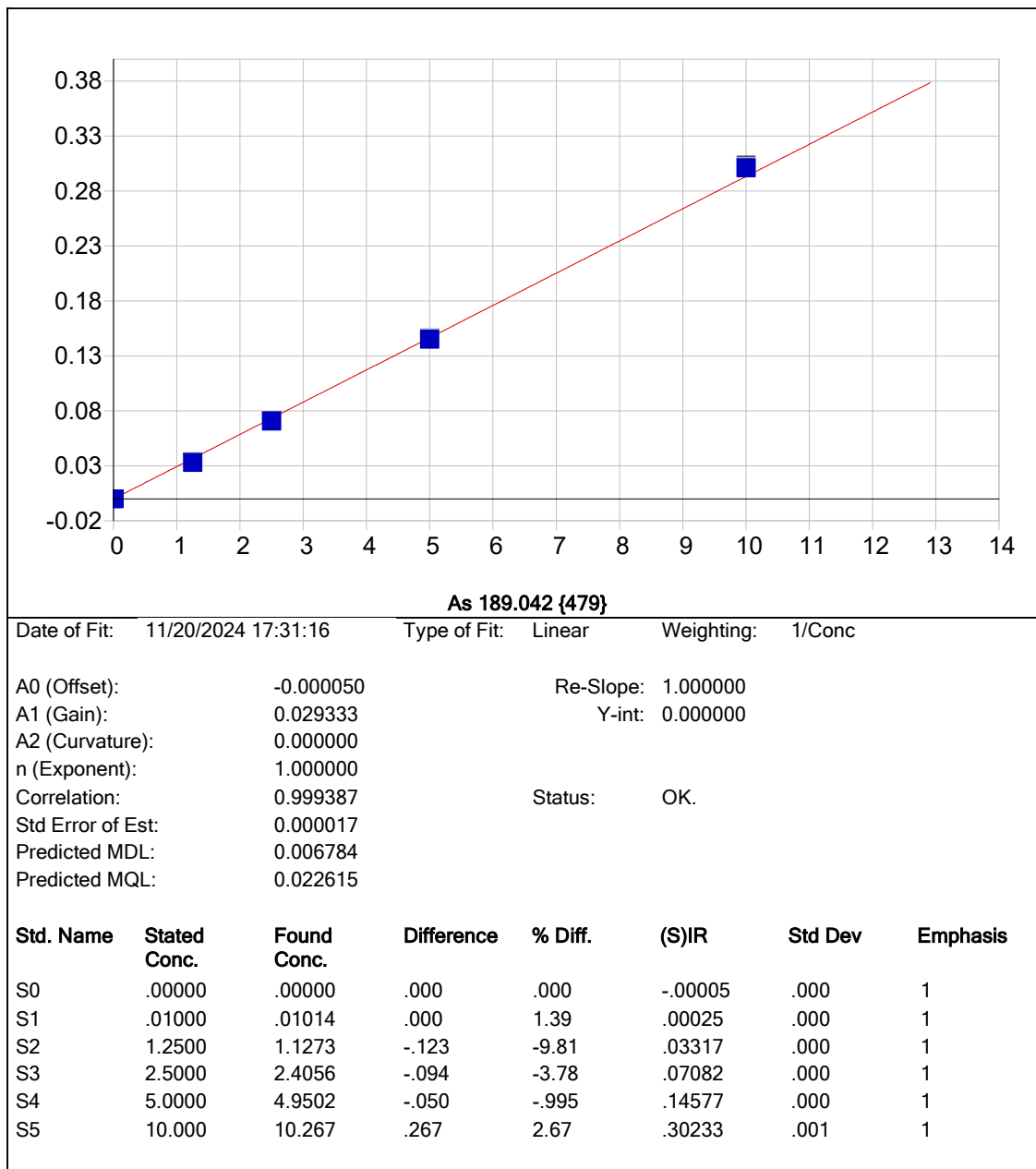
Analytical Method: ICP\_AES

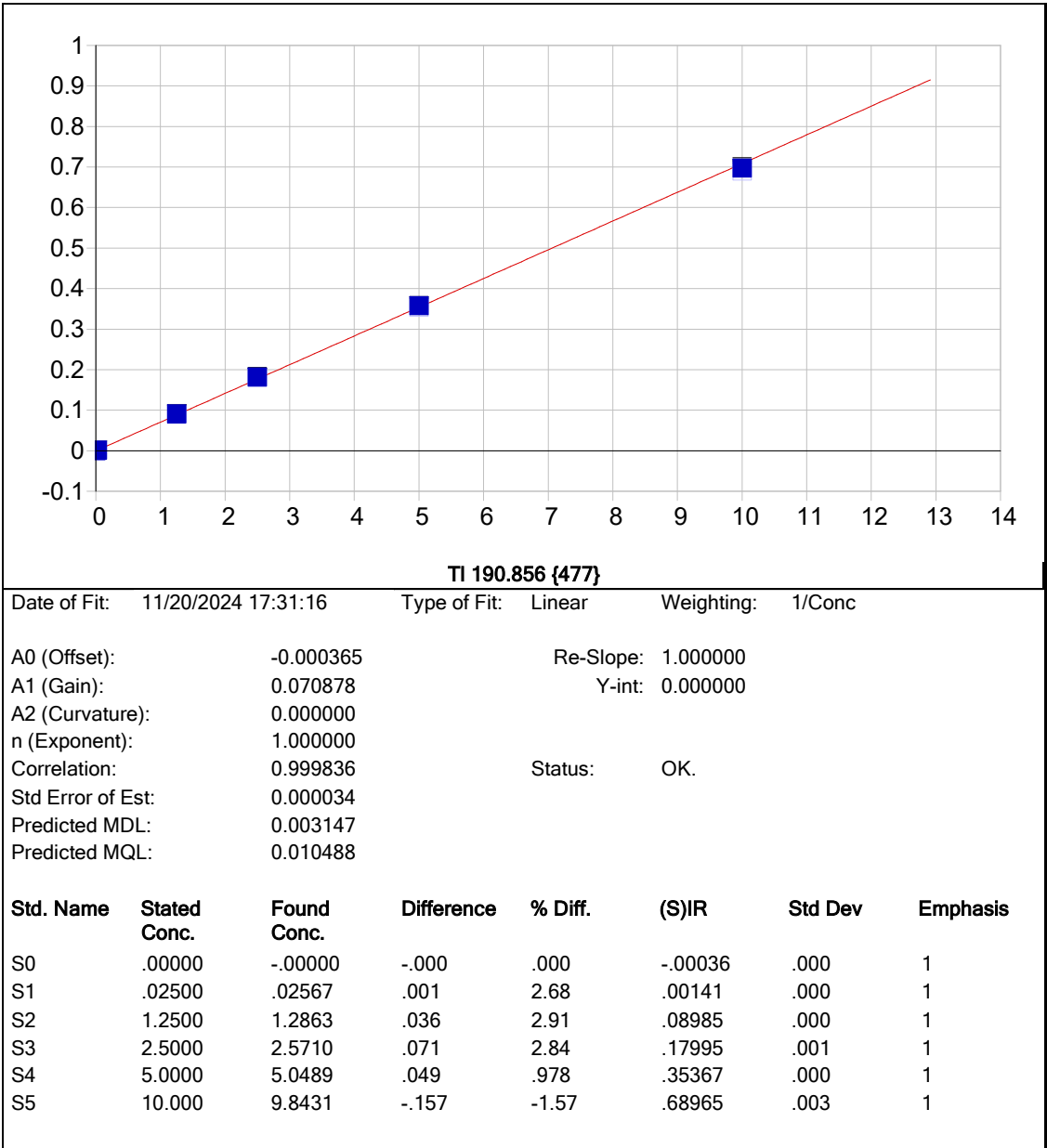
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

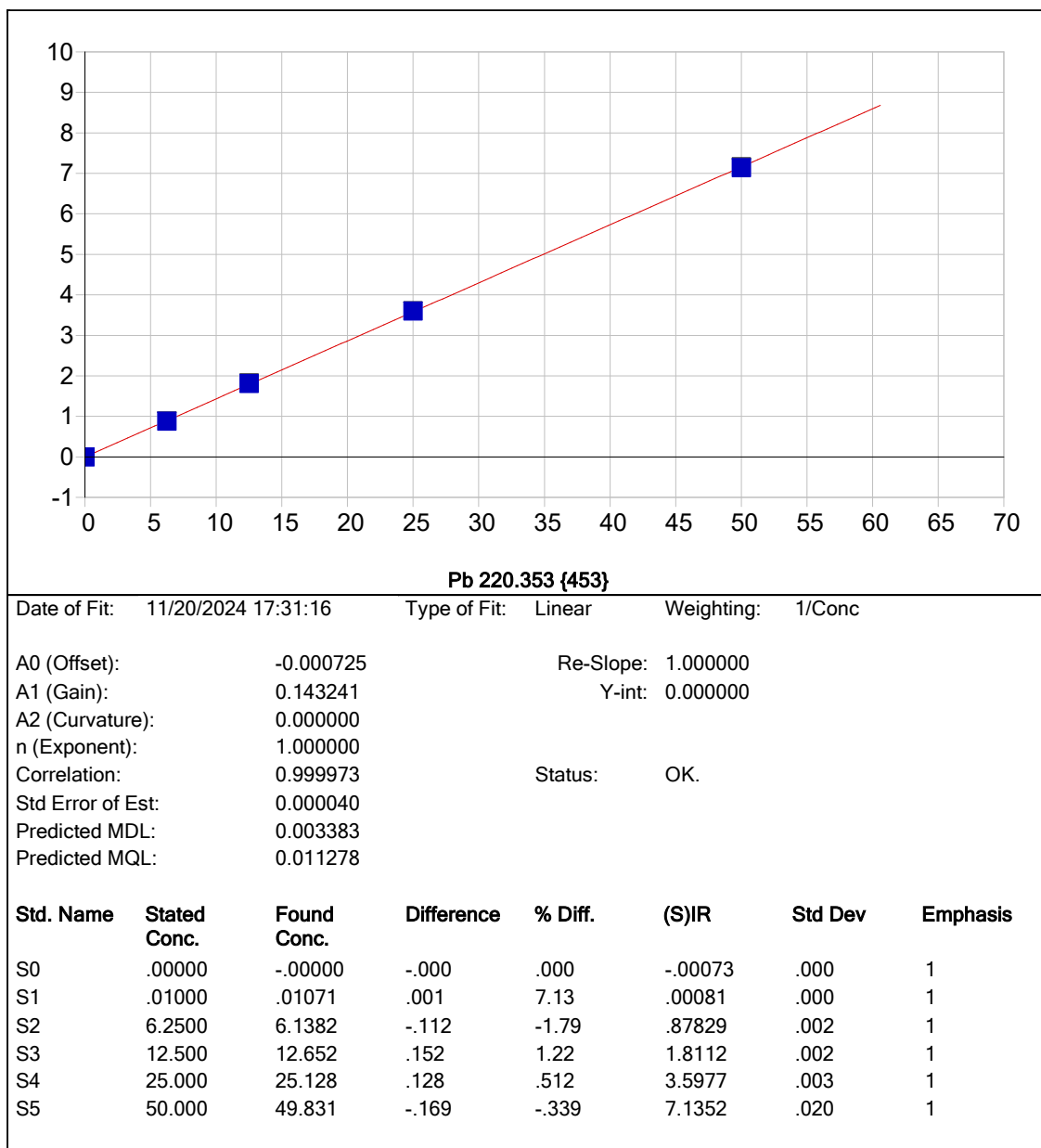
| CAS No.   | Analyte   | Concentration | Q  | Date Analyzed | Time Analyzed |
|-----------|-----------|---------------|----|---------------|---------------|
| 7429-90-5 | Aluminum  | 6800          | *  | 11/20/2024    | 1907          |
| 7440-36-0 | Antimony  | 0.91          | J* | 11/20/2024    | 1907          |
| 7440-38-2 | Arsenic   | 16            | *  | 11/20/2024    | 1907          |
| 7440-39-3 | Barium    | 230           | *  | 11/20/2024    | 1907          |
| 7440-41-7 | Beryllium | 0.49          |    | 11/20/2024    | 1907          |
| 7440-43-9 | Cadmium   | 1.8           |    | 11/20/2024    | 1907          |
| 7440-70-2 | Calcium   | 14000         |    | 11/20/2024    | 1907          |
| 7440-47-3 | Chromium  | 13            | *  | 11/20/2024    | 1907          |
| 7440-48-4 | Cobalt    | 11            | *  | 11/20/2024    | 1907          |
| 7440-50-8 | Copper    | 48            | *  | 11/20/2024    | 1907          |
| 7439-89-6 | Iron      | 19000         | *  | 11/20/2024    | 1907          |
| 7439-92-1 | Lead      | 320           |    | 11/20/2024    | 1907          |
| 7439-95-4 | Magnesium | 2400          |    | 11/20/2024    | 1907          |
| 7439-96-5 | Manganese | 1600          | *  | 11/20/2024    | 1907          |
| 7440-02-0 | Nickel    | 20            |    | 11/20/2024    | 1907          |
| 7440-09-7 | Potassium | 710           |    | 11/20/2024    | 1907          |
| 7782-49-2 | Selenium  | 3.0           | U* | 11/20/2024    | 1907          |
| 7440-22-4 | Silver    | 0.87          | U* | 11/20/2024    | 1907          |
| 7440-23-5 | Sodium    | 160           | J  | 11/20/2024    | 1907          |
| 7440-28-0 | Thallium  | 2.2           | U  | 11/20/2024    | 1907          |
| 7440-62-2 | Vanadium  | 20            |    | 11/20/2024    | 1907          |
| 7440-66-6 | Zinc      | 240           | *  | 11/20/2024    | 1907          |

NOTE: Hardness (total) is reported in  $\text{mg/L}$ 

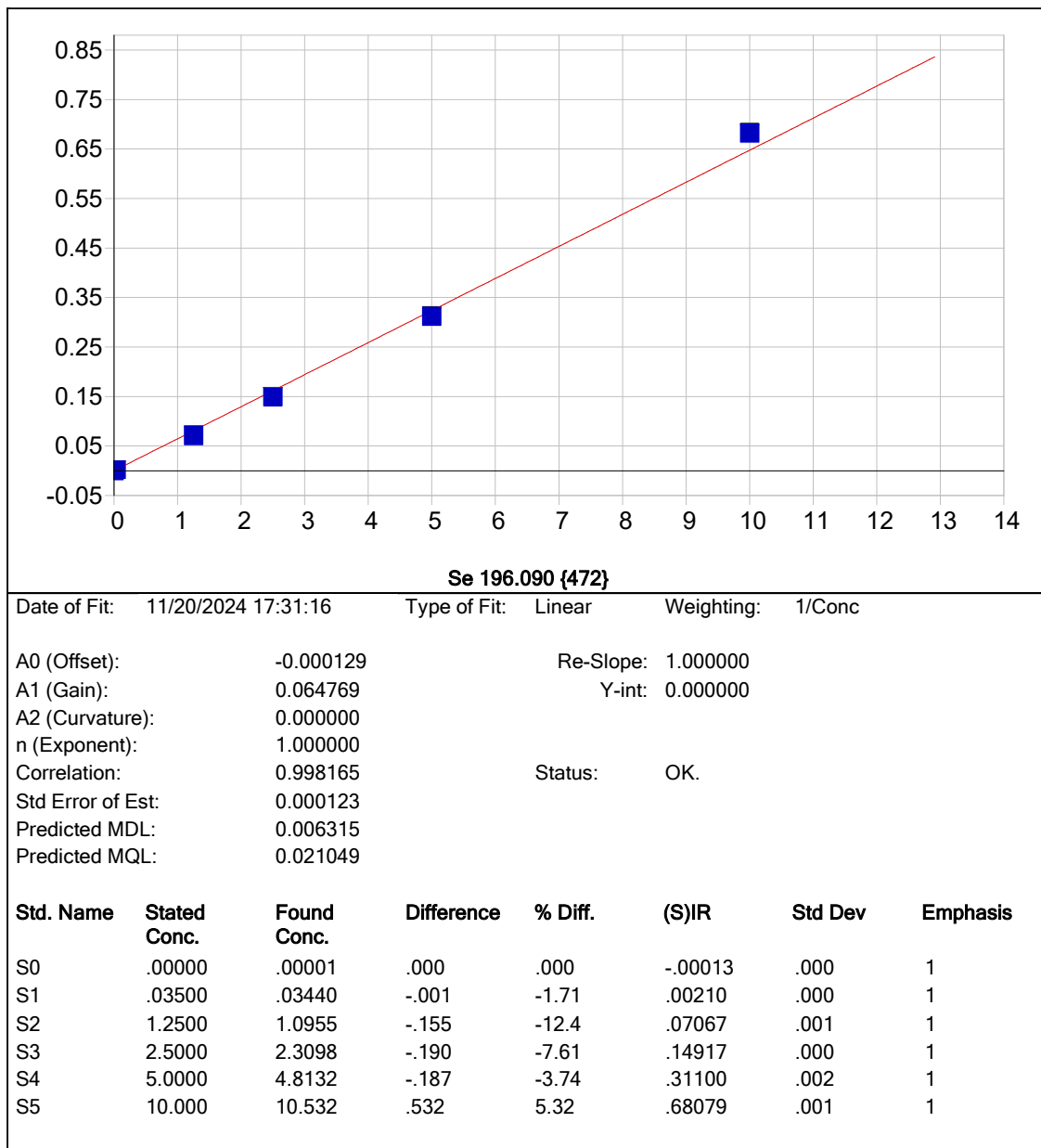
Comments:

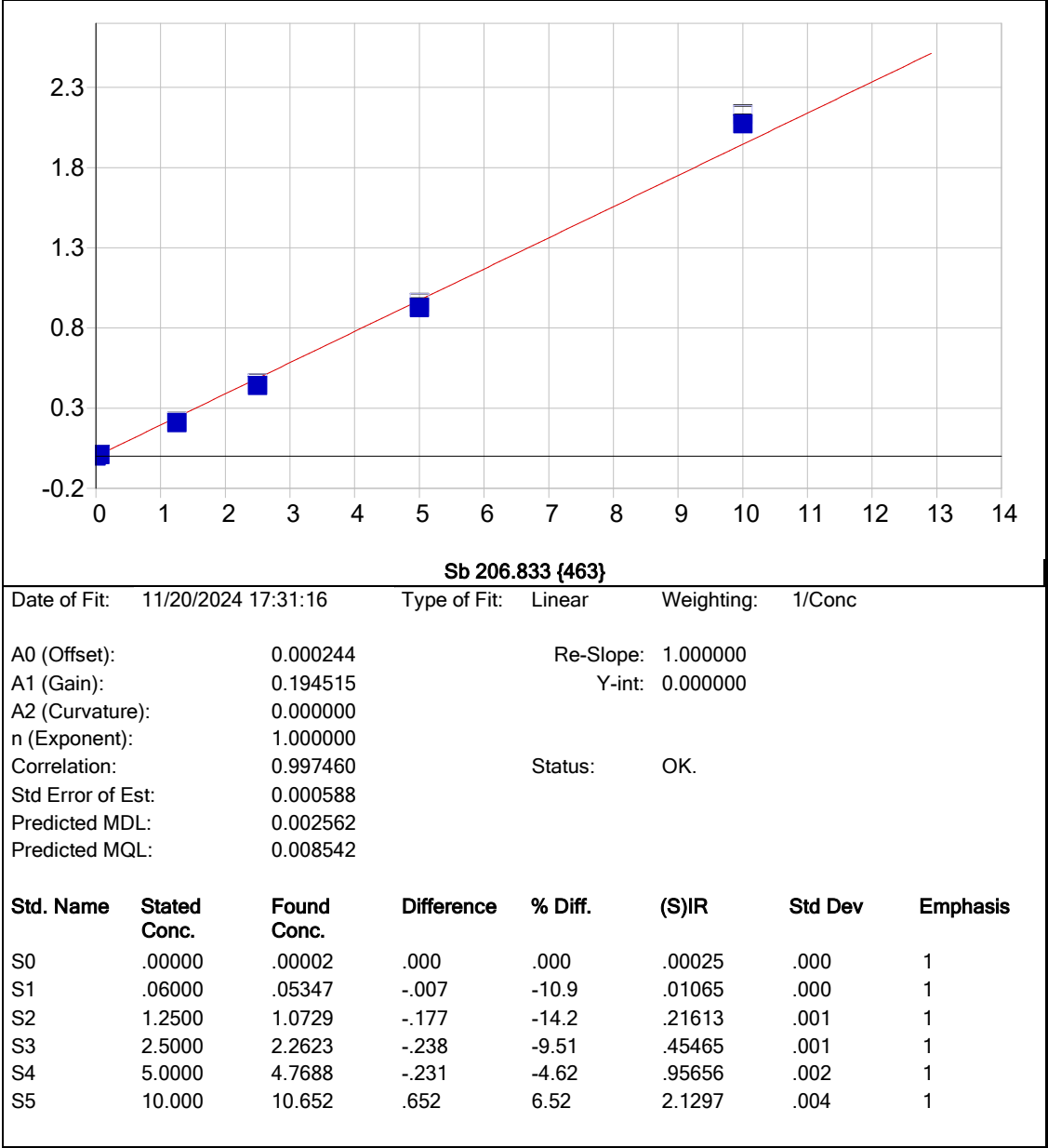


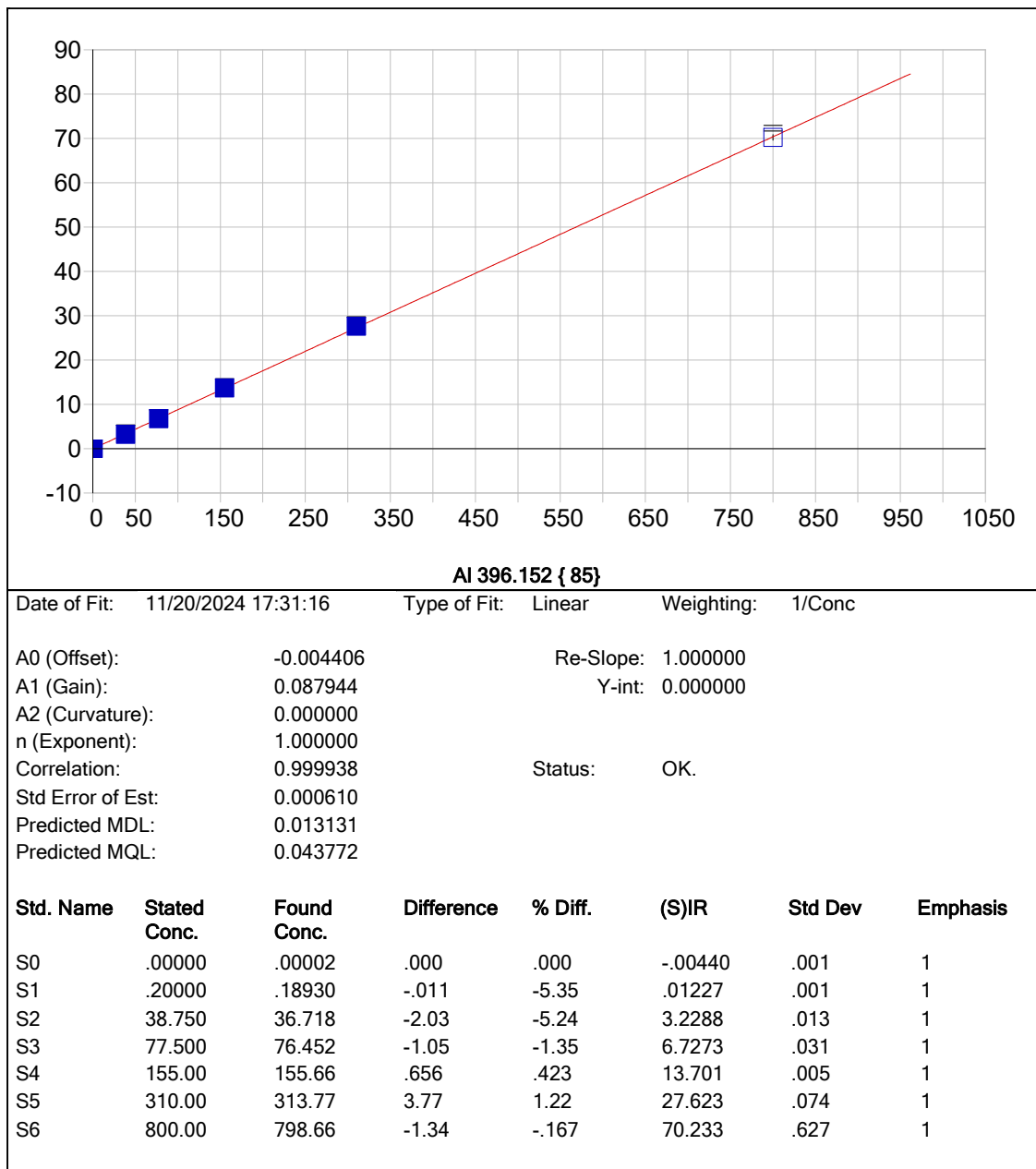


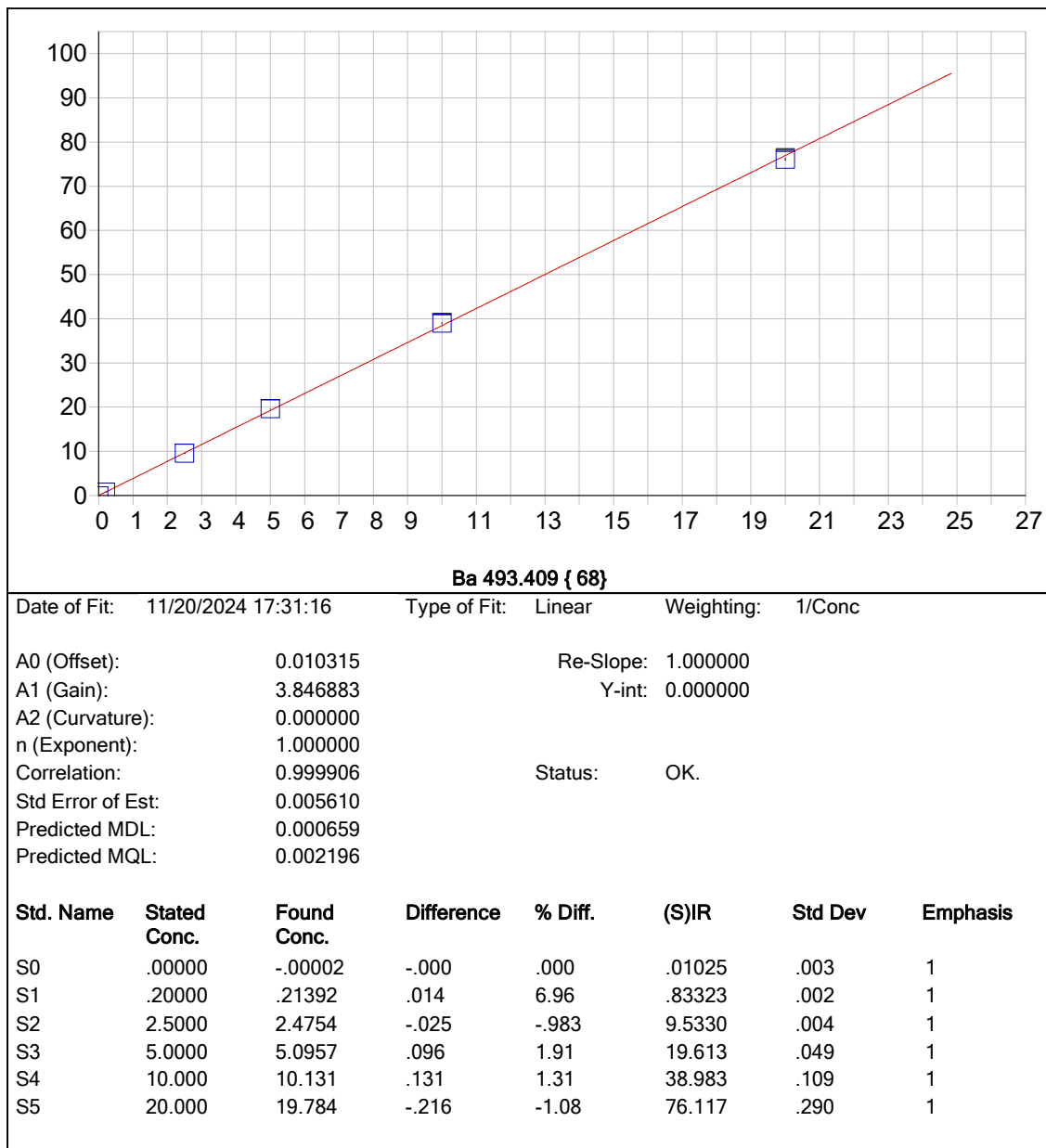


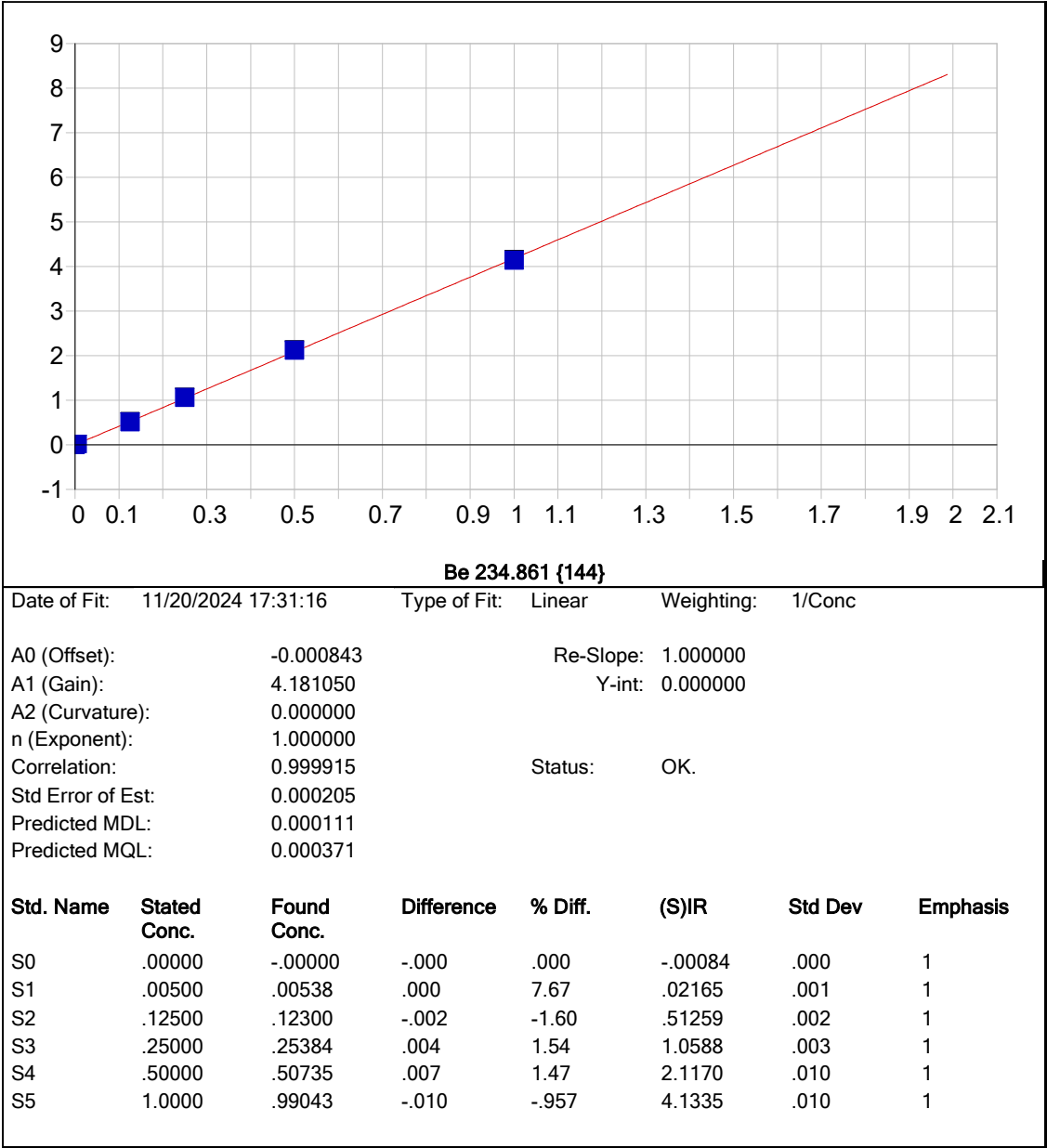


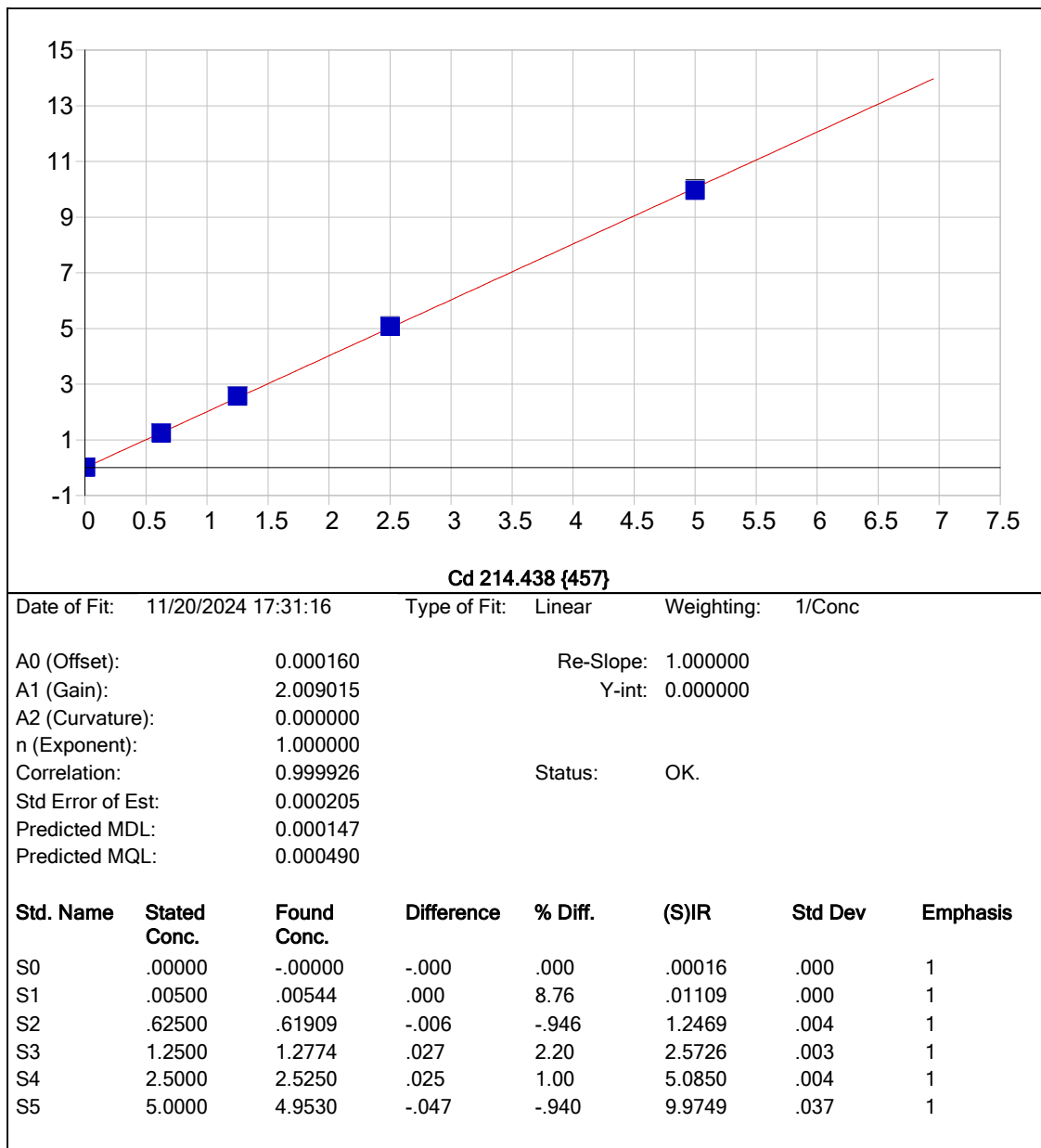


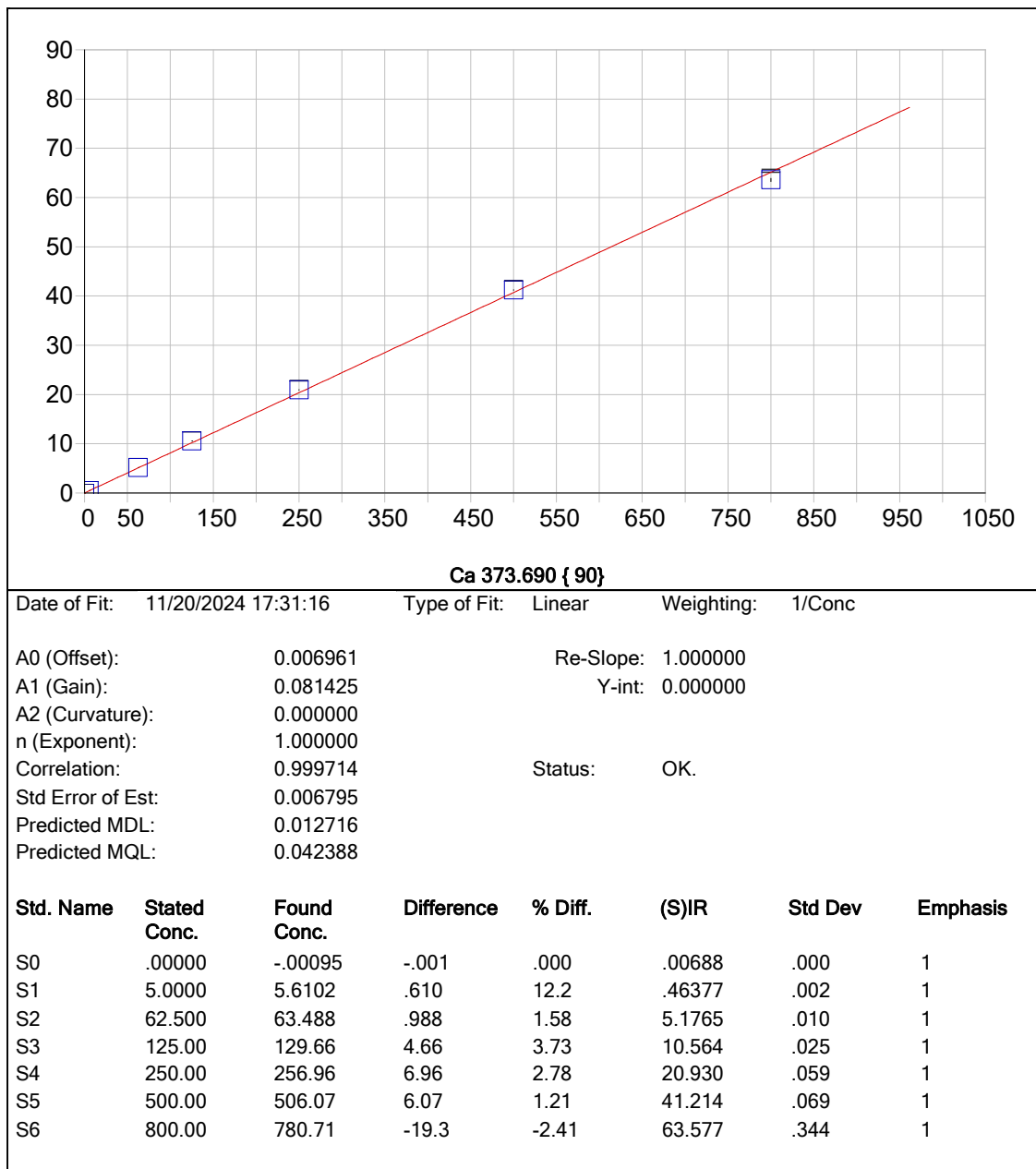


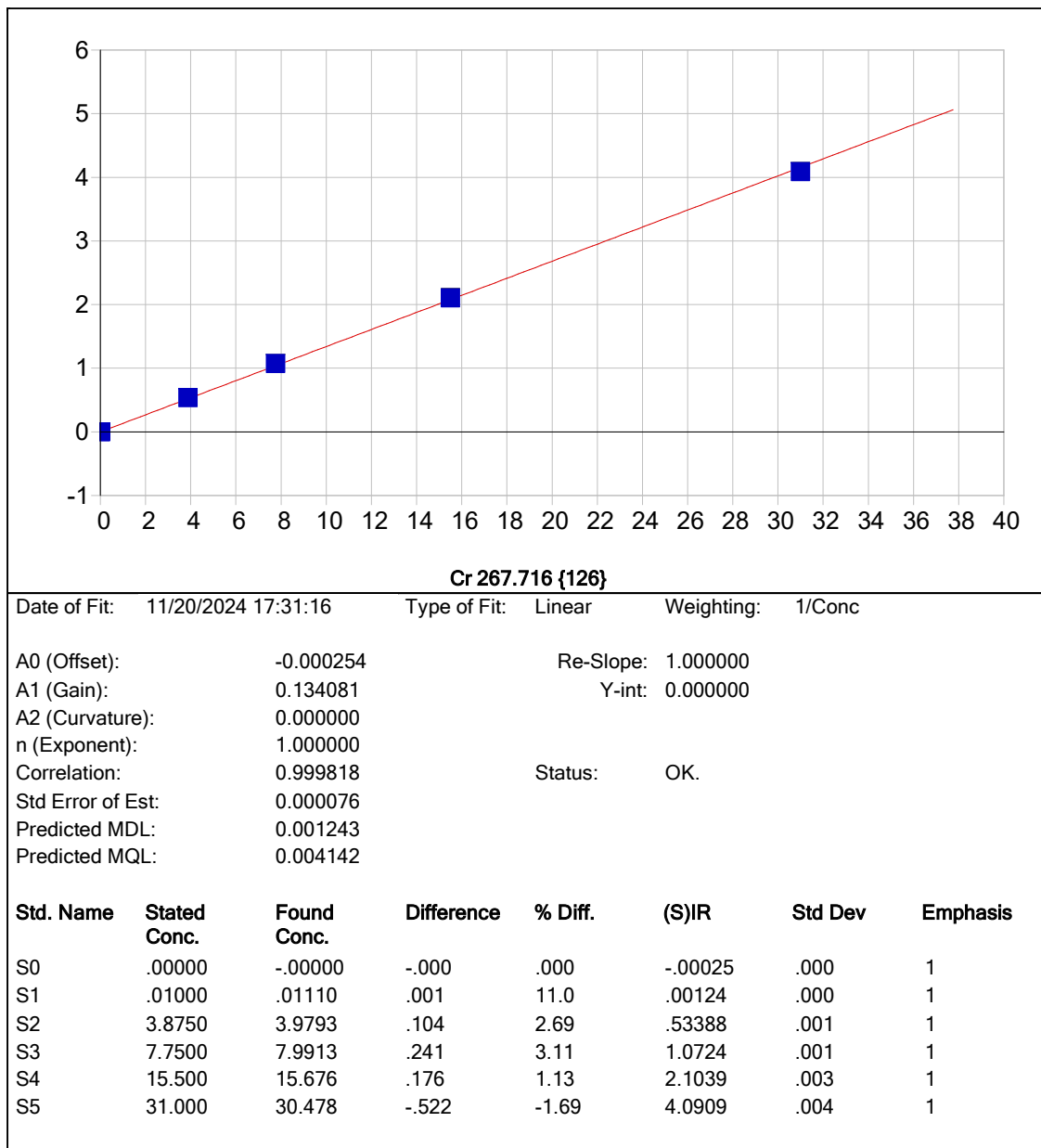




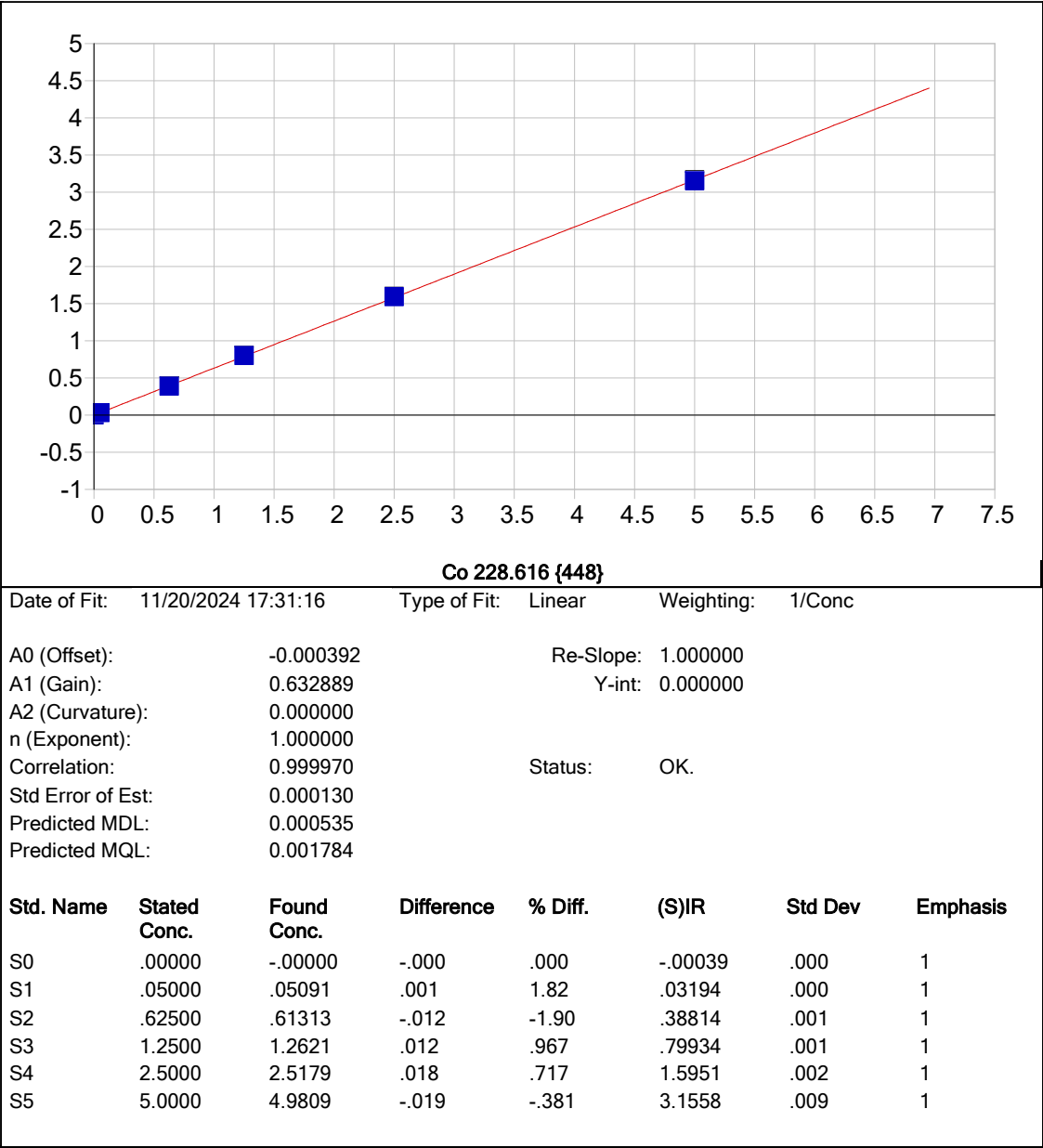


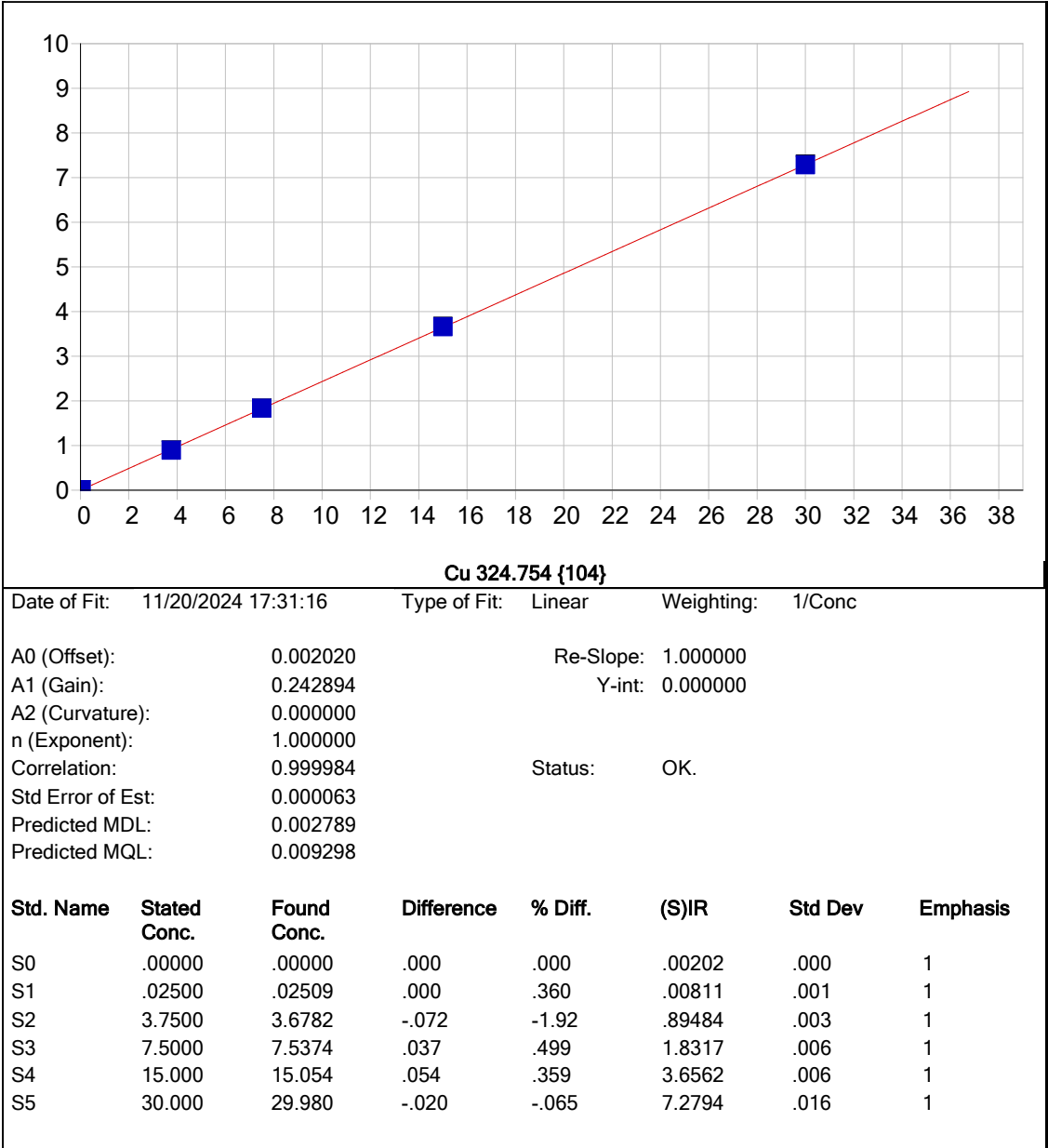


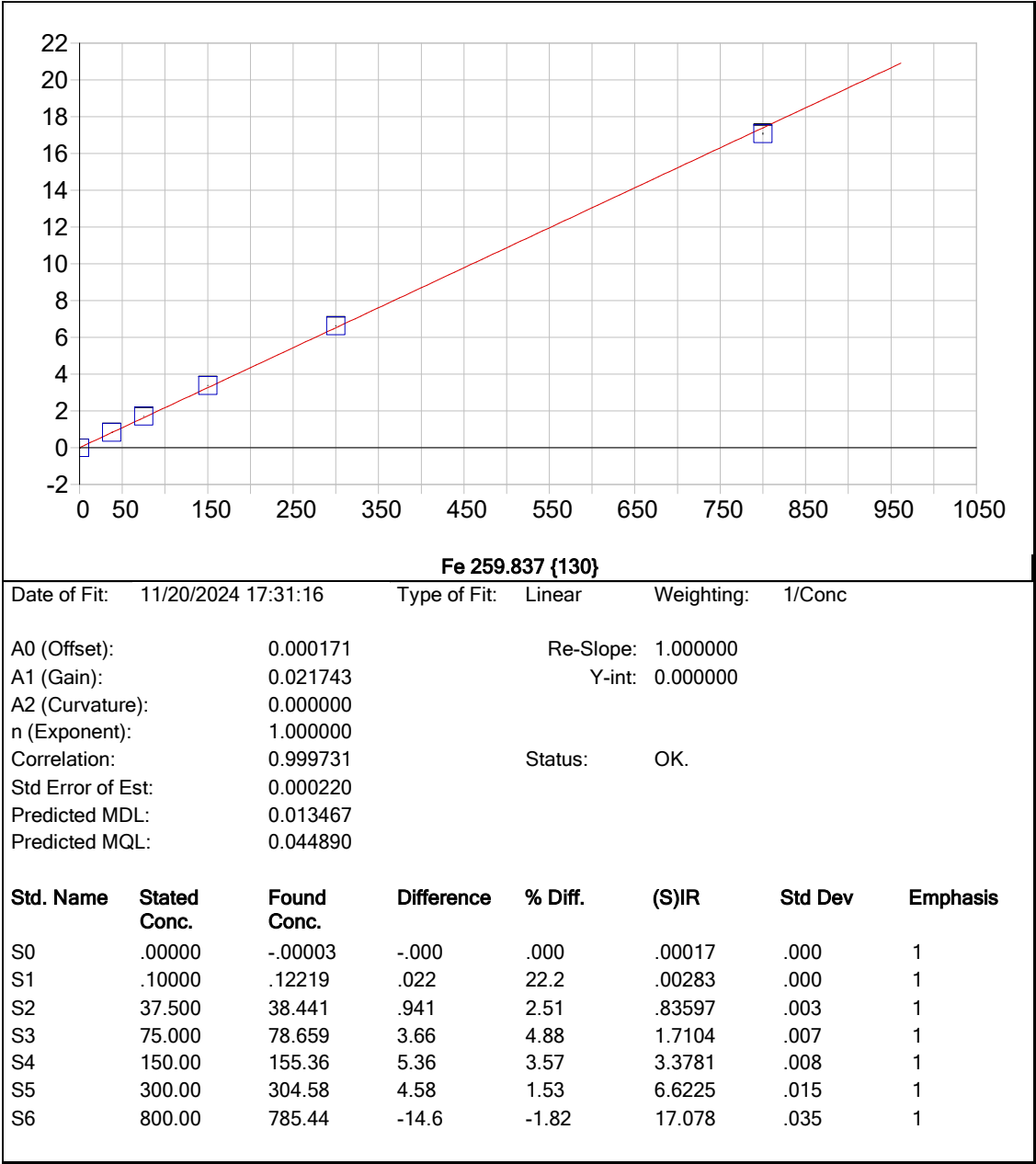


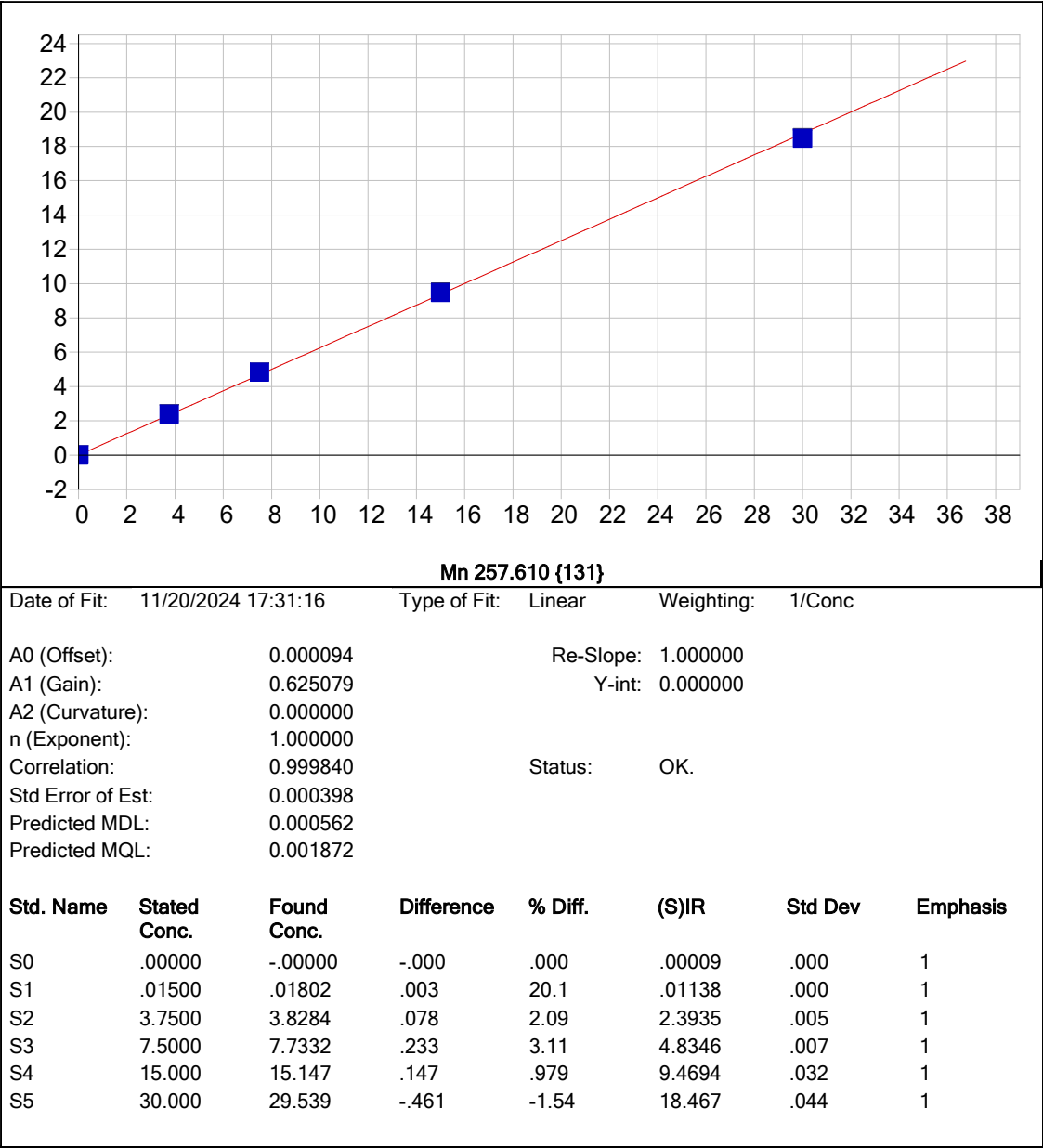


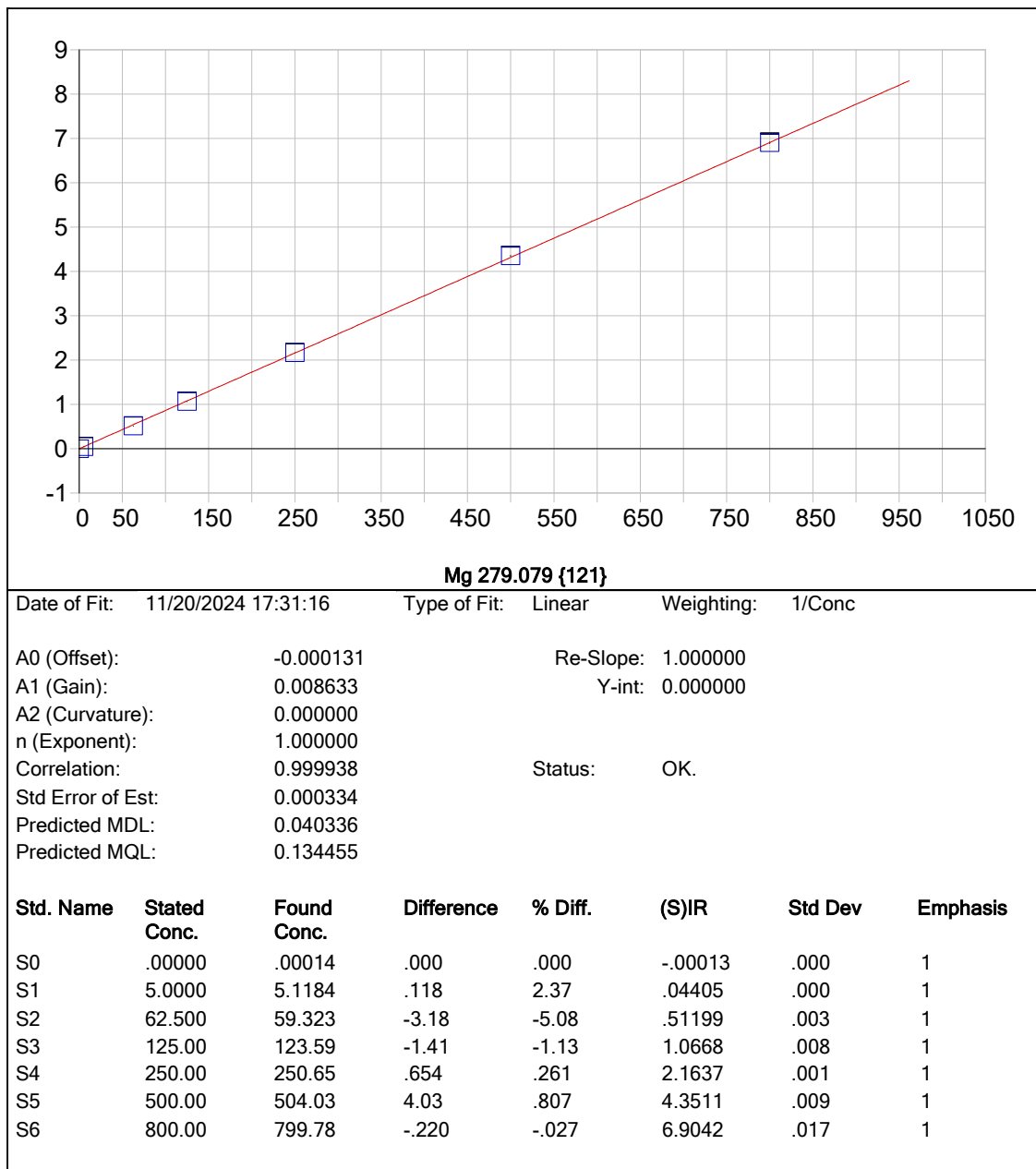


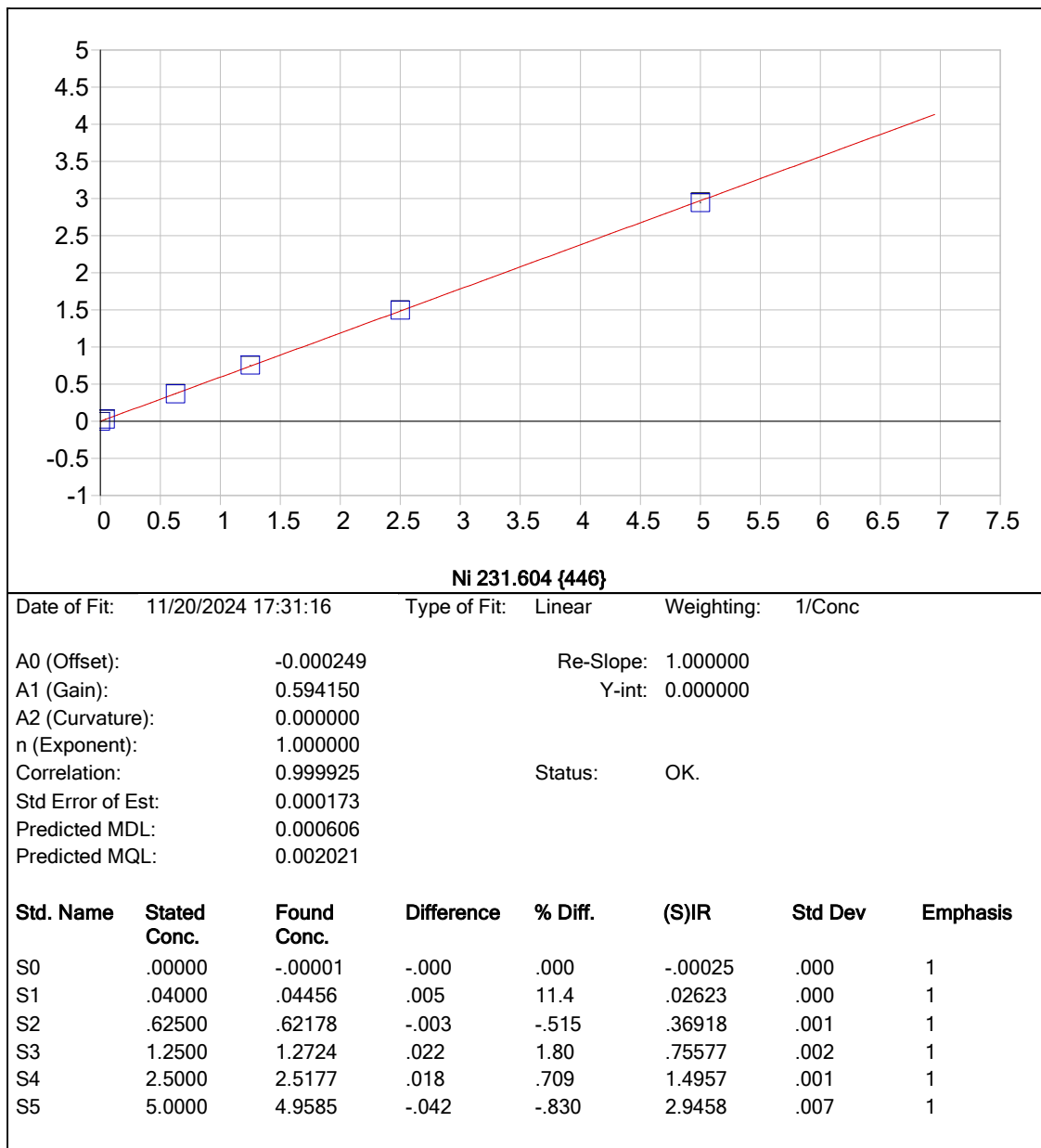


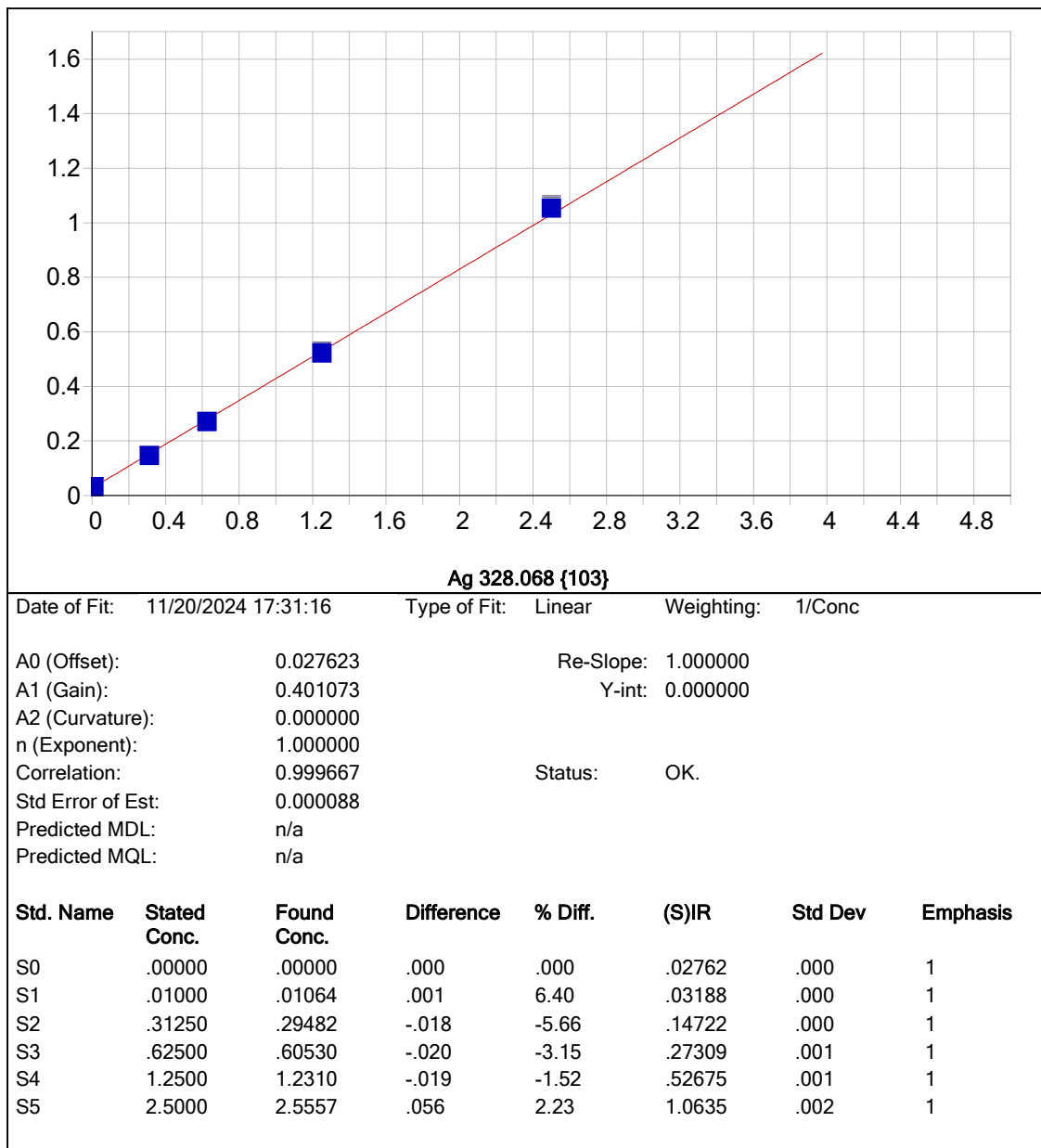


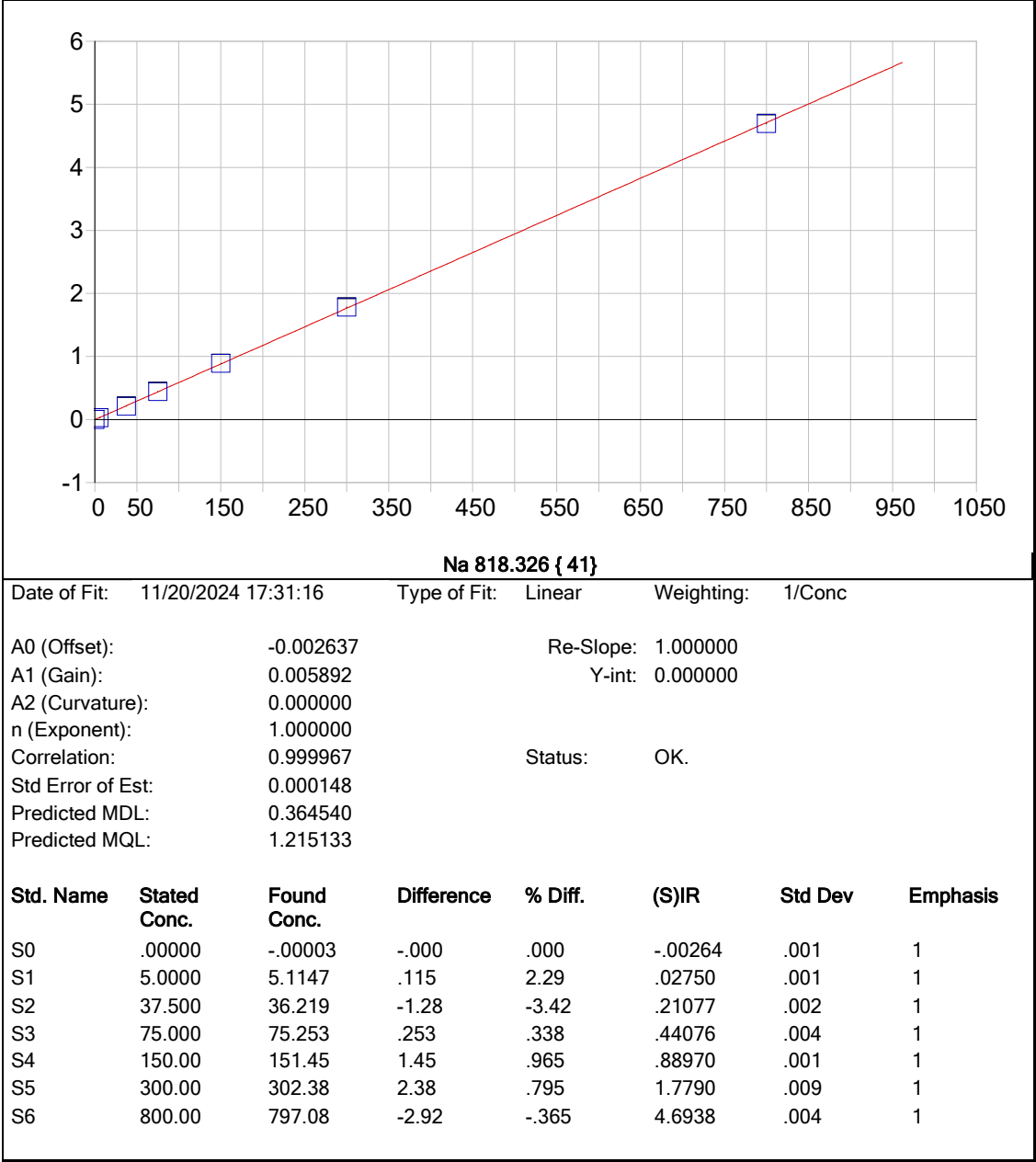




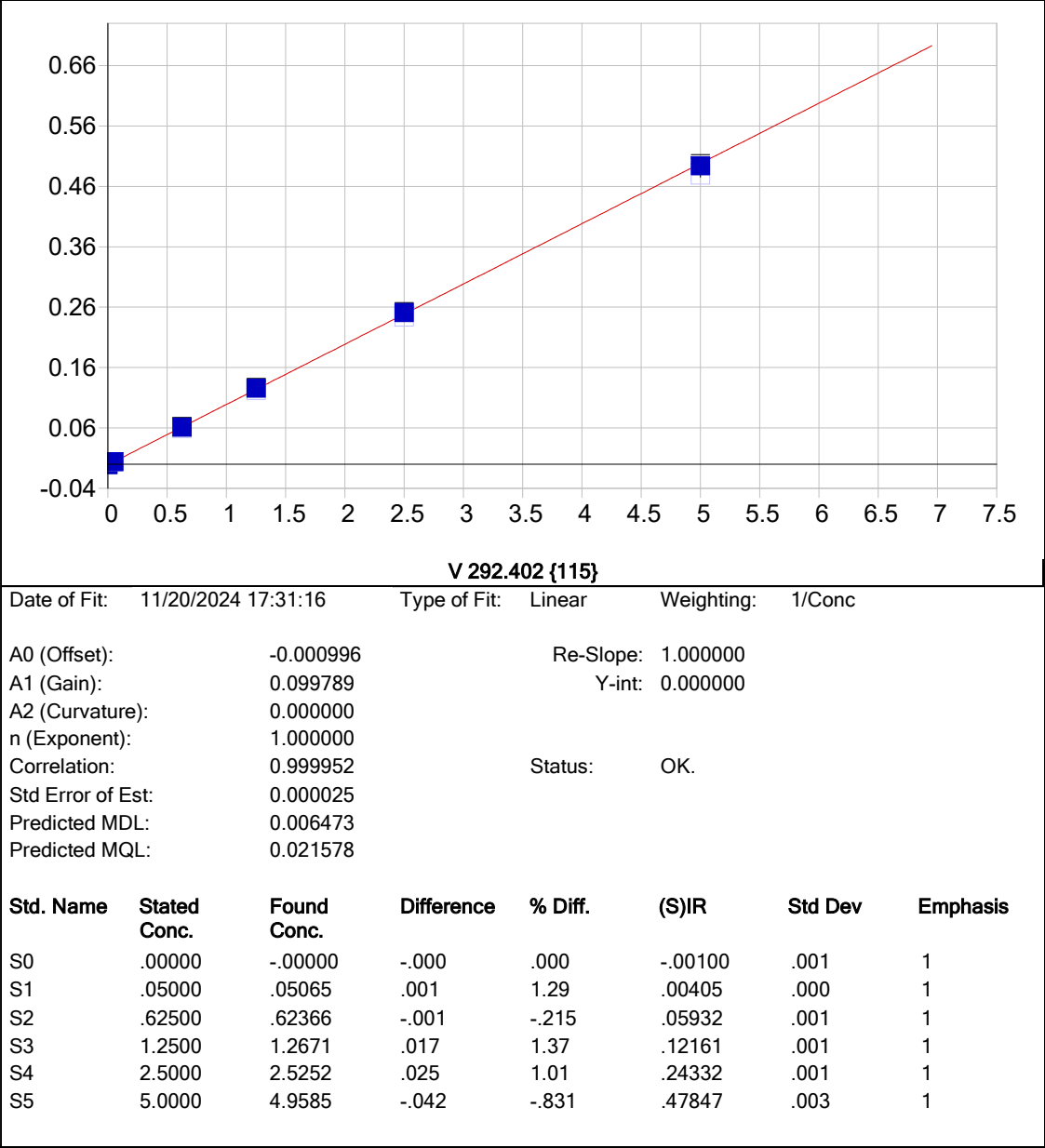


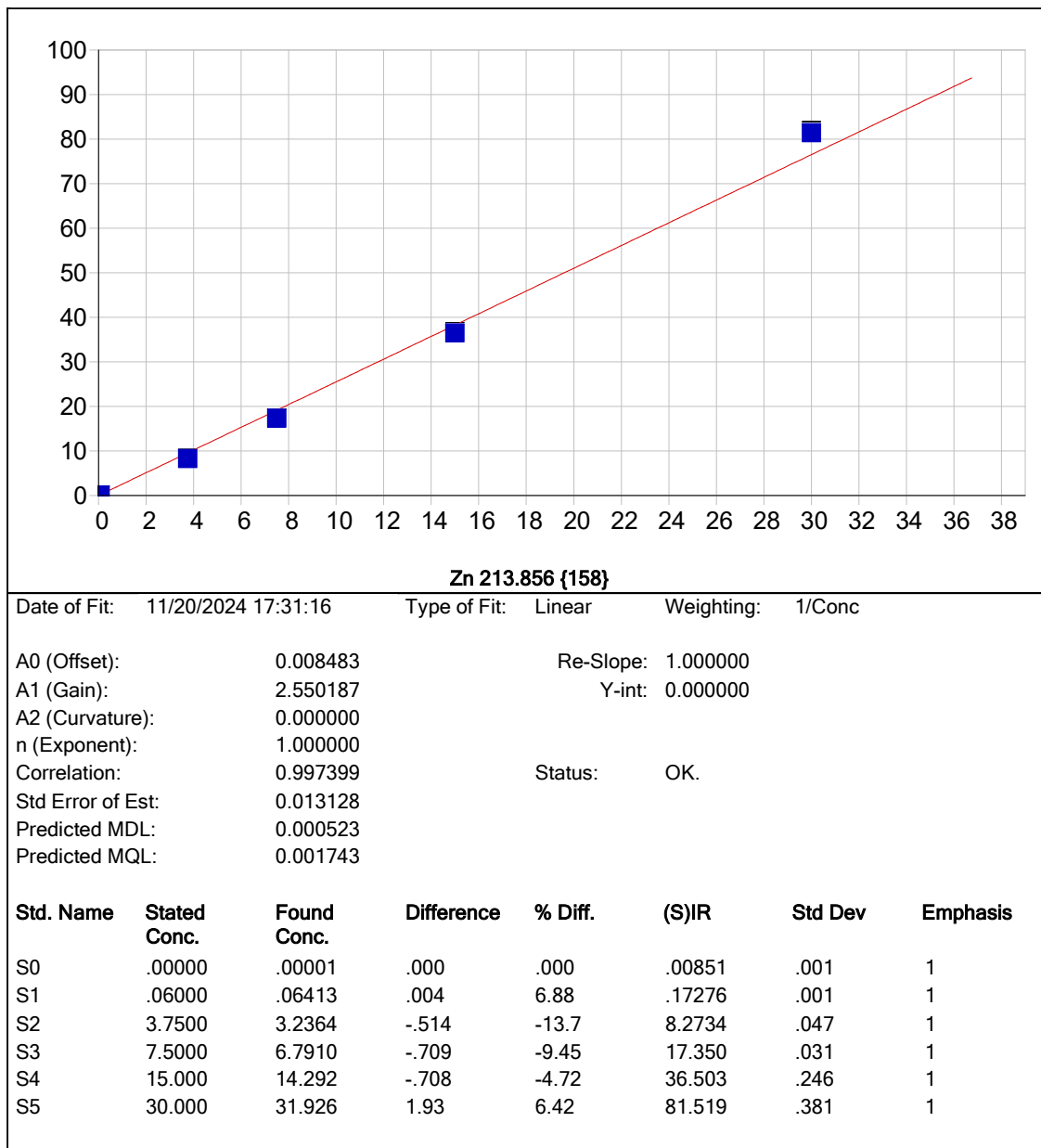


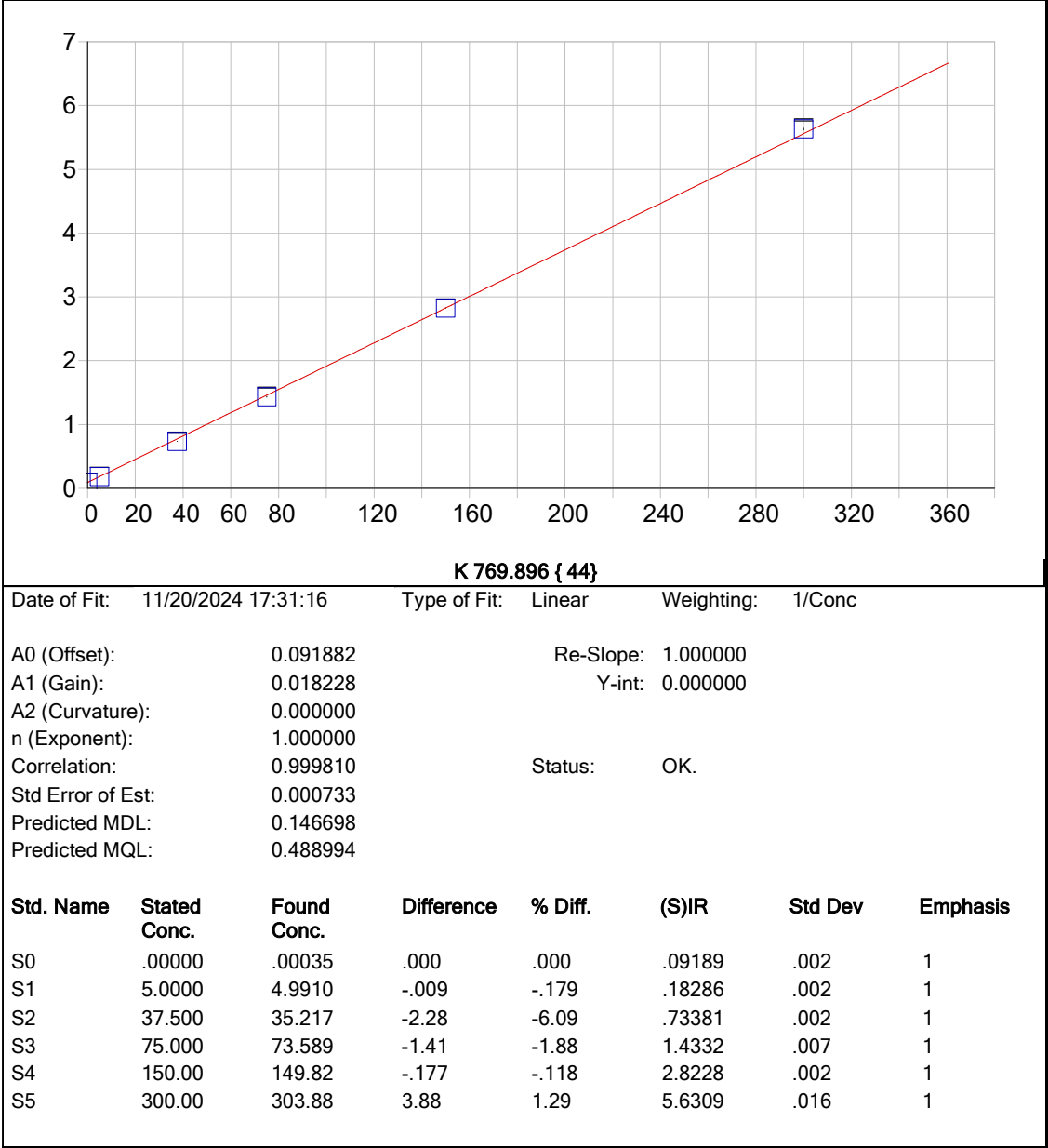


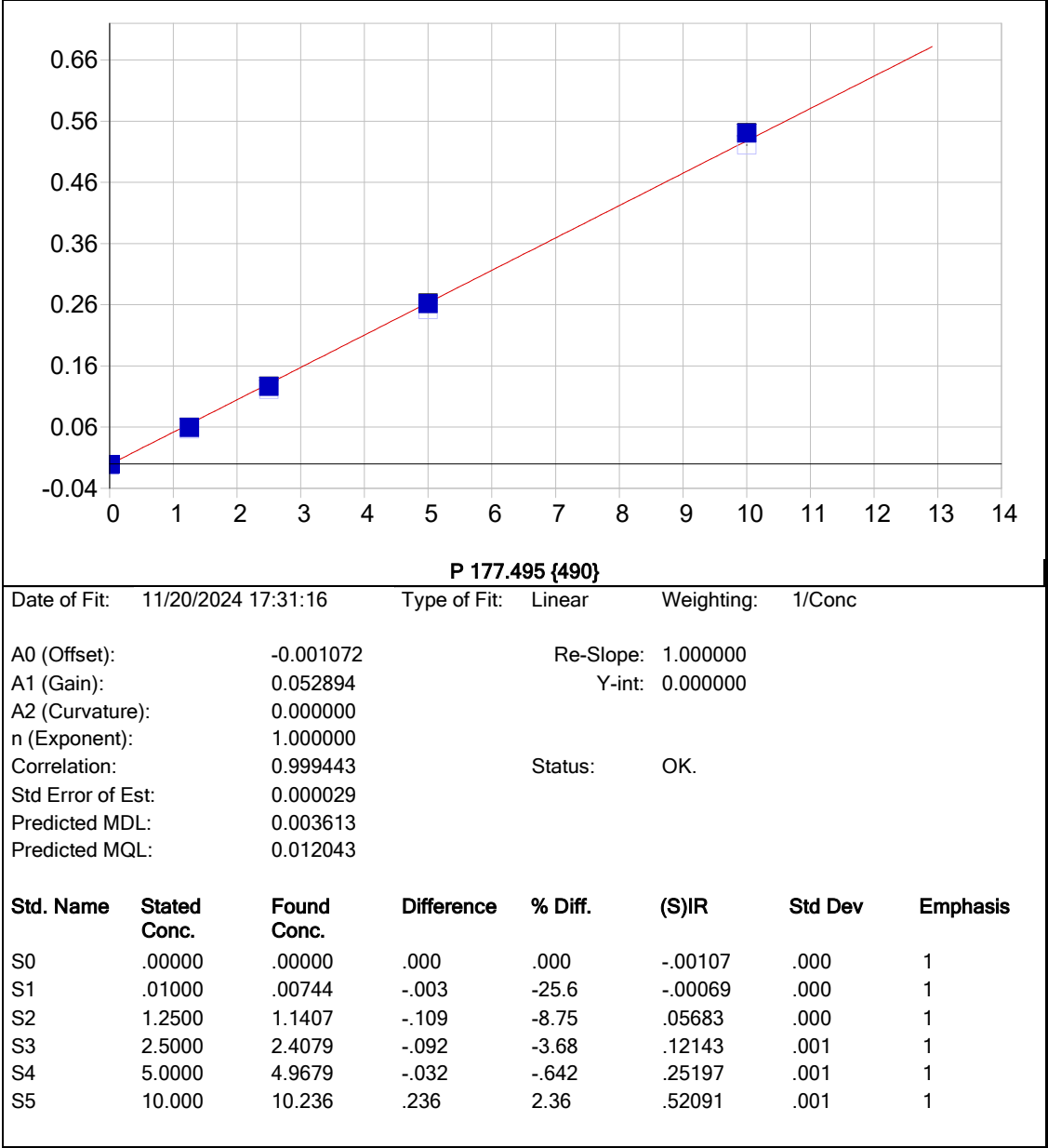


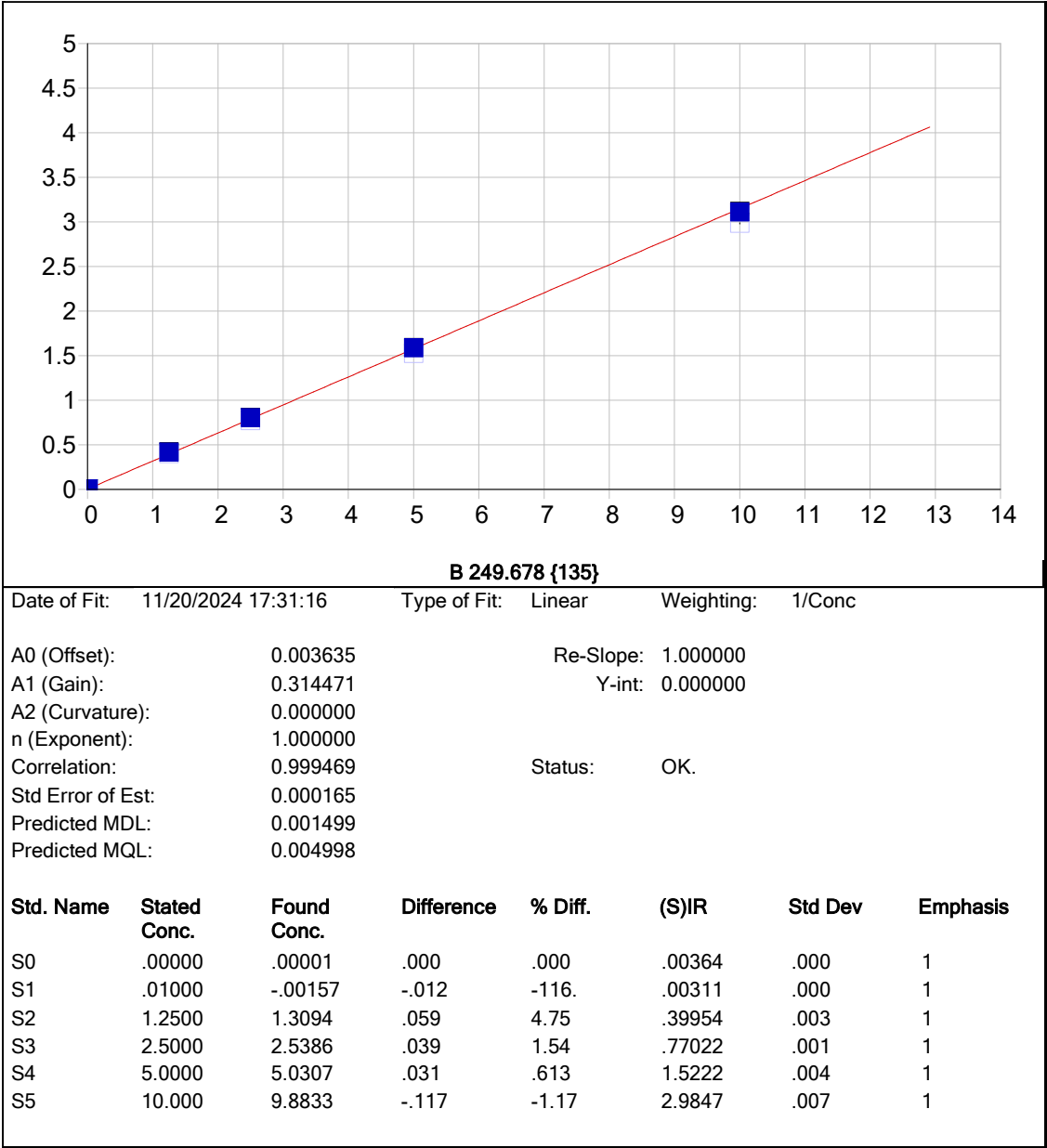


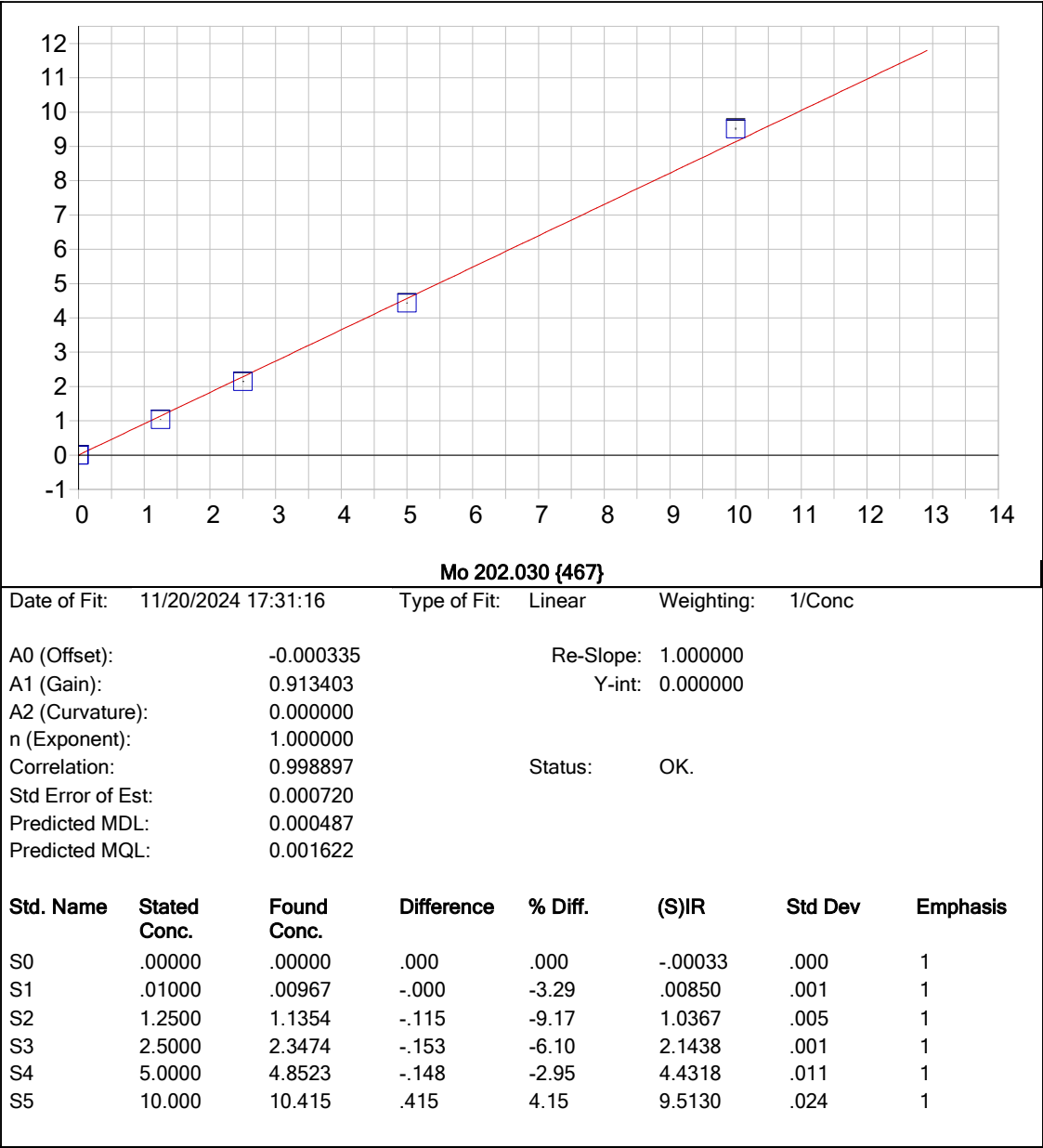


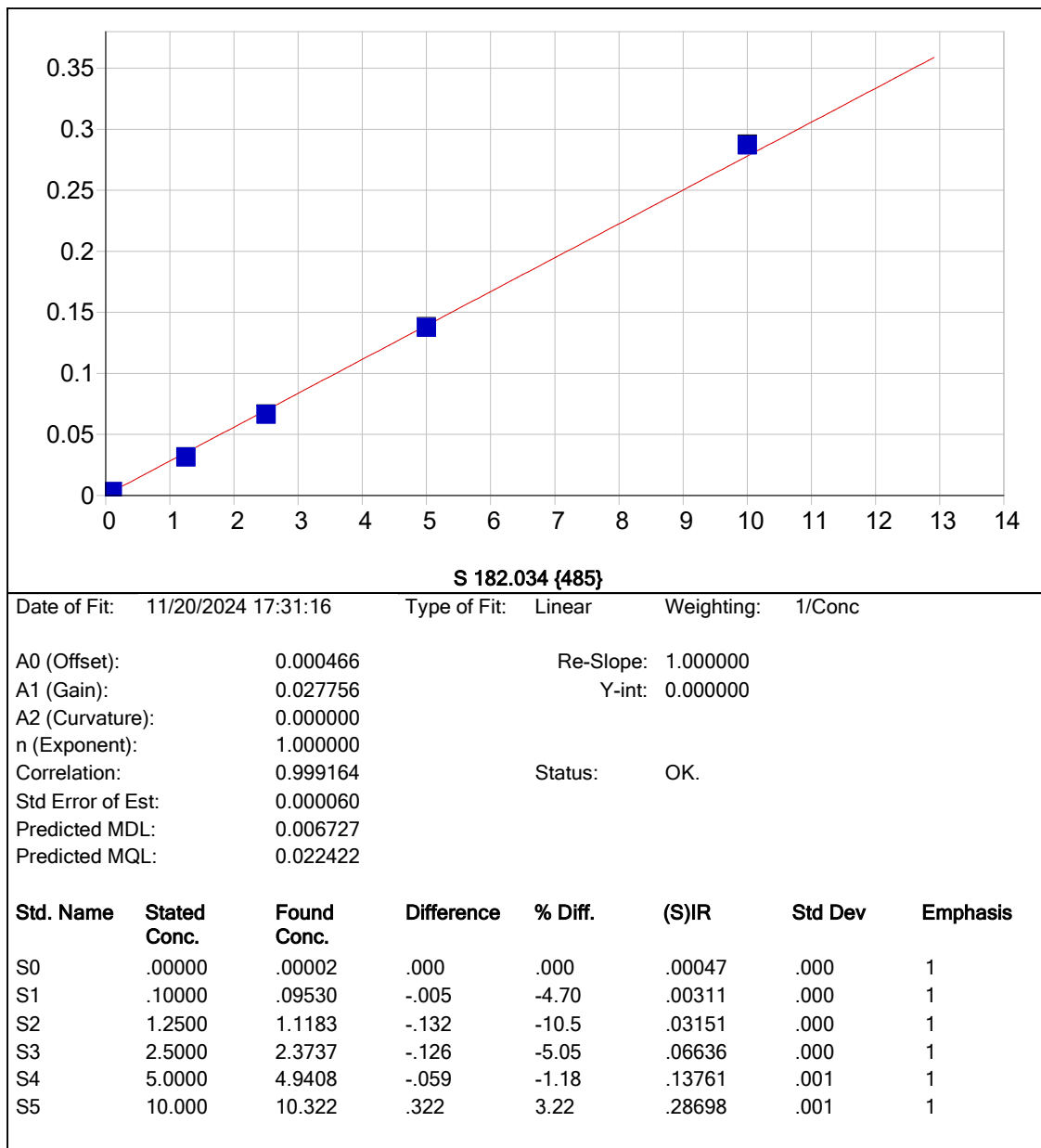


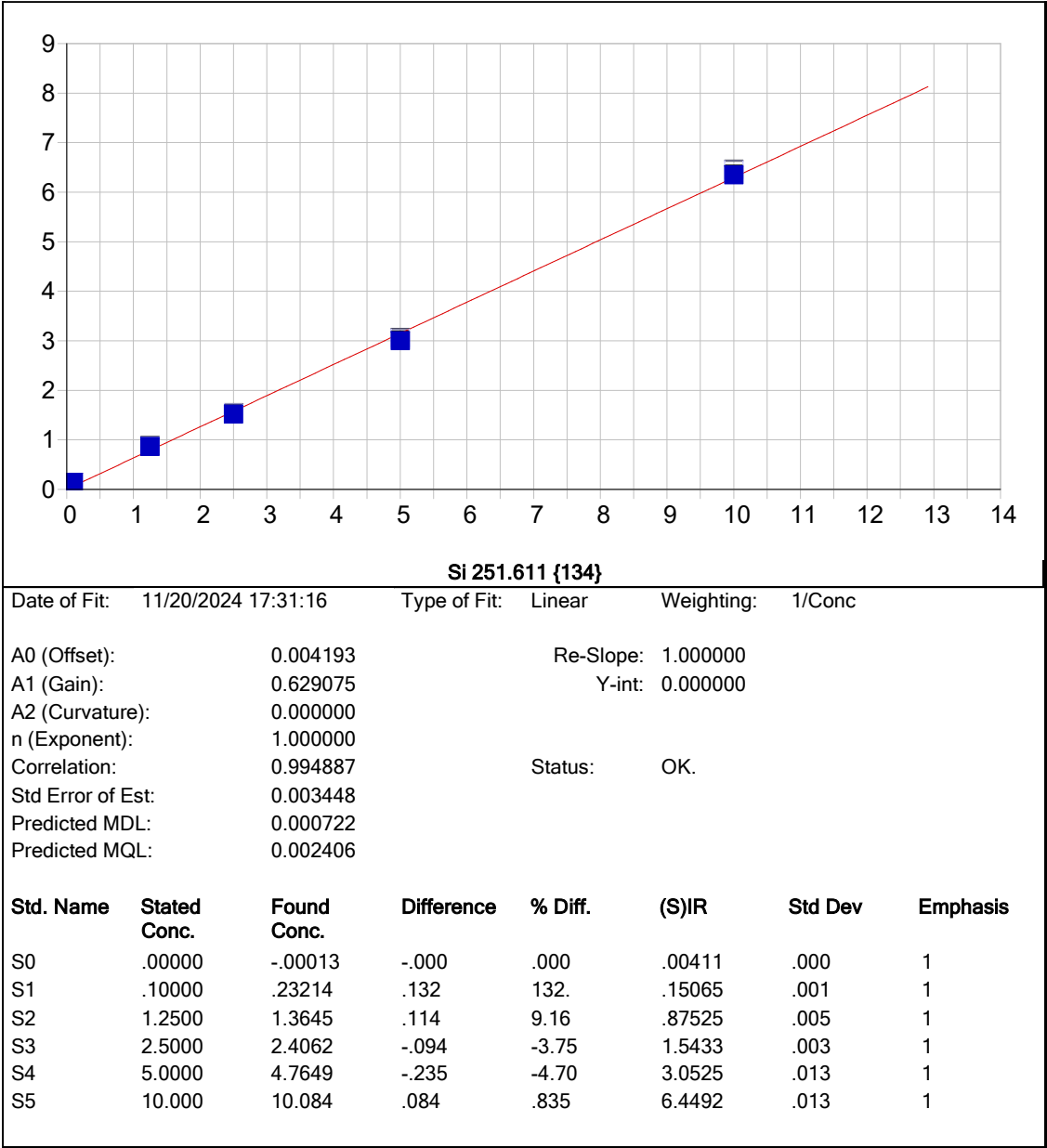




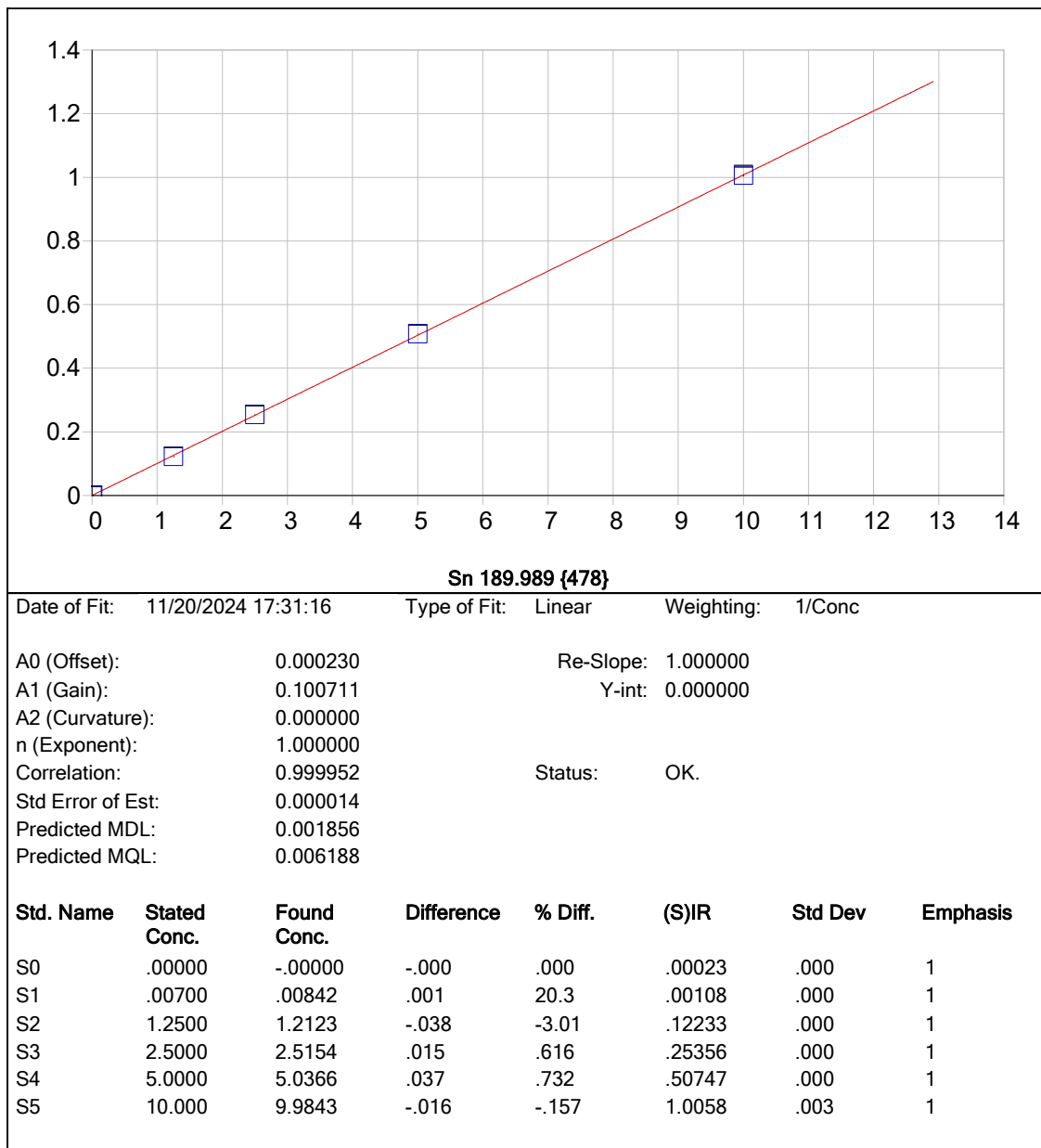


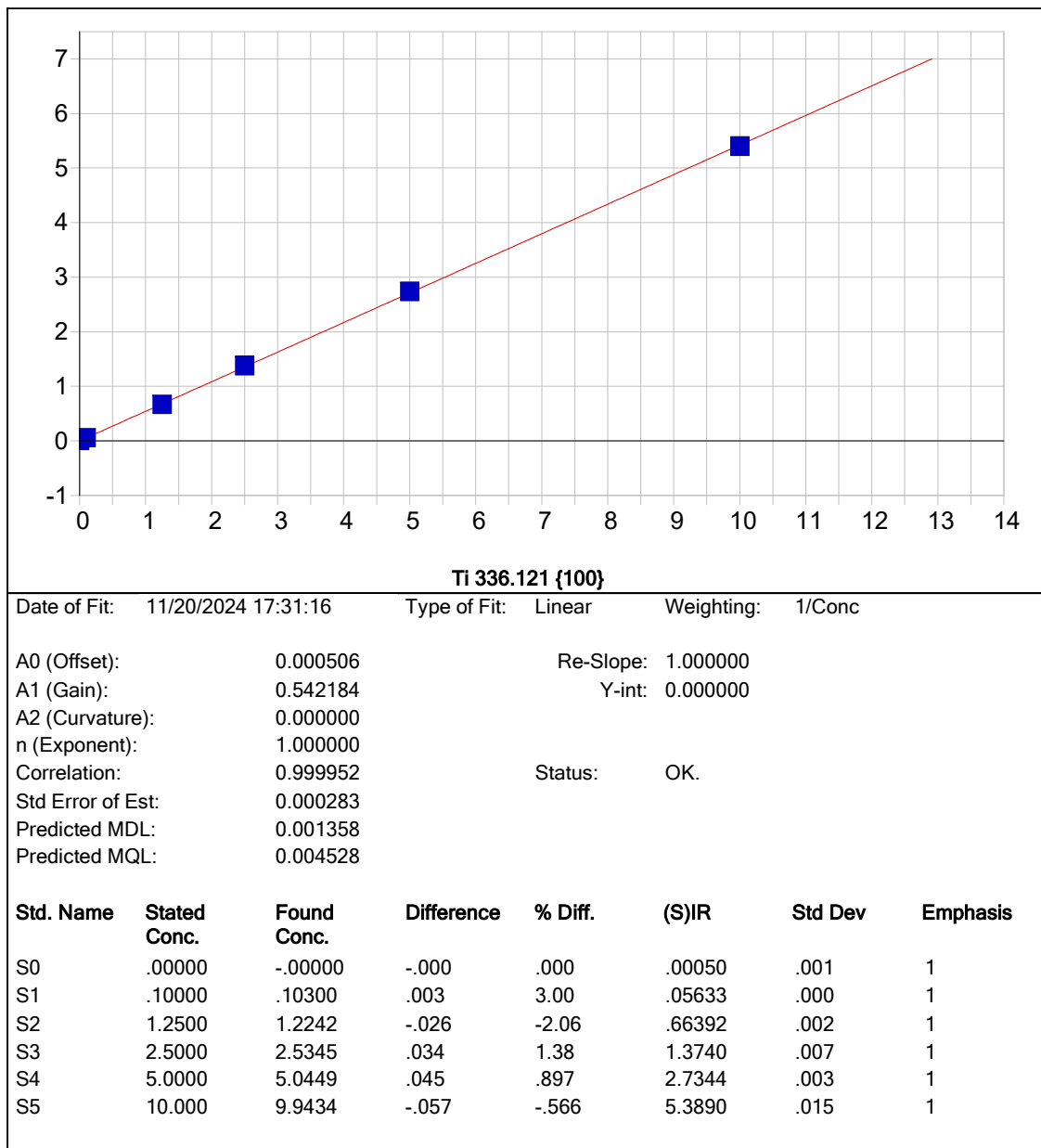


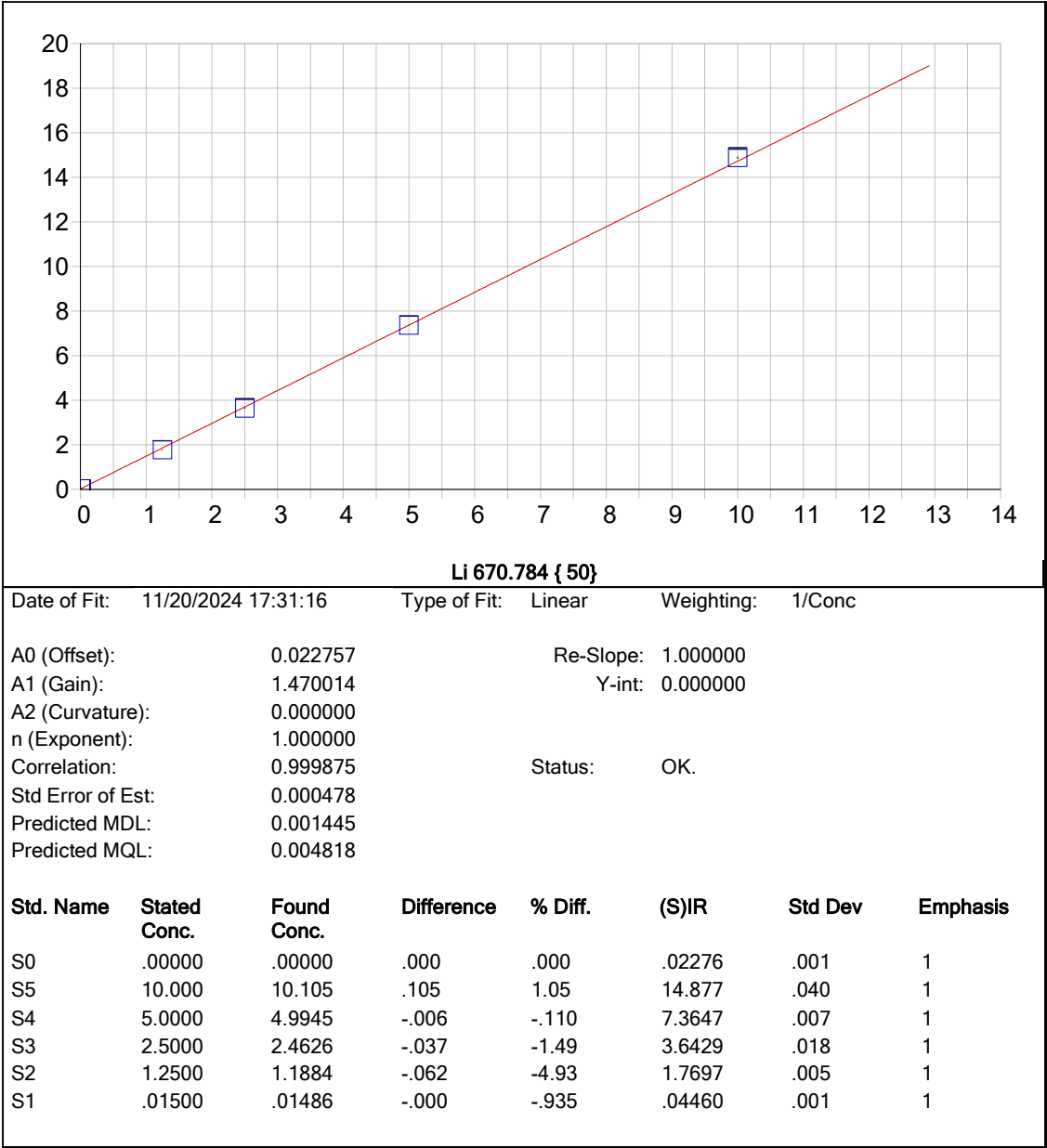


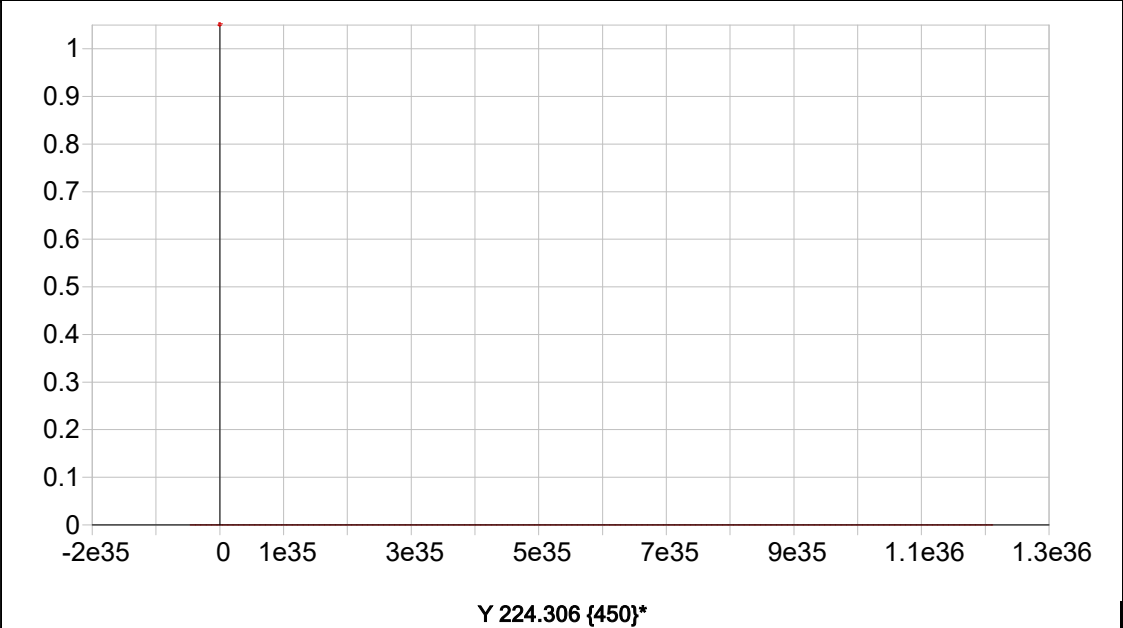






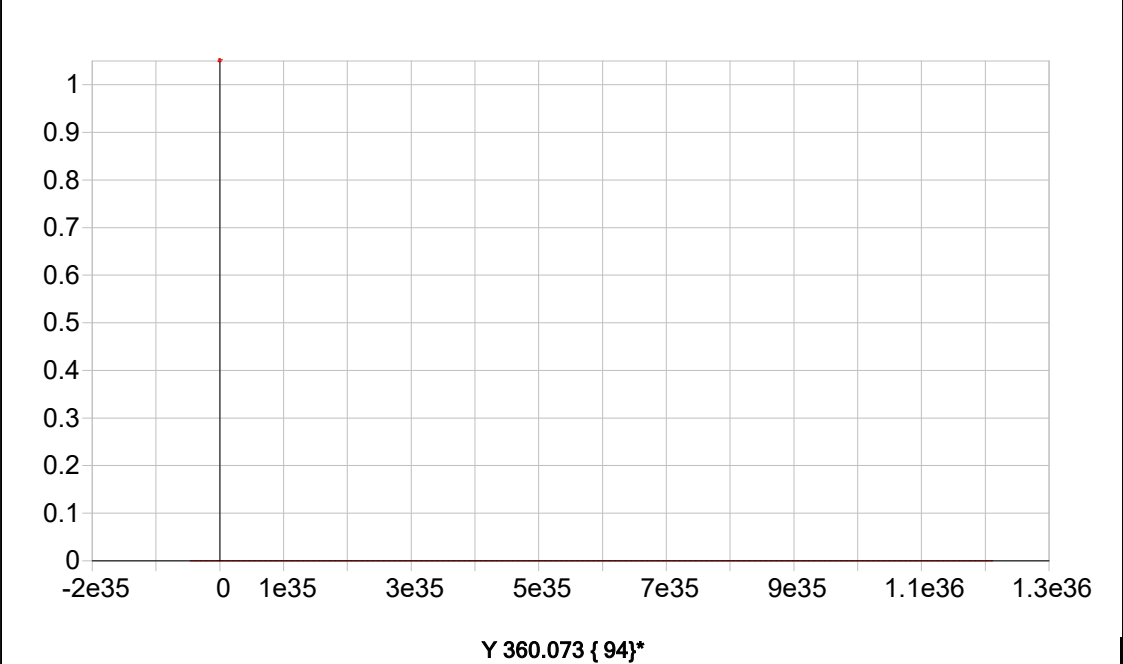




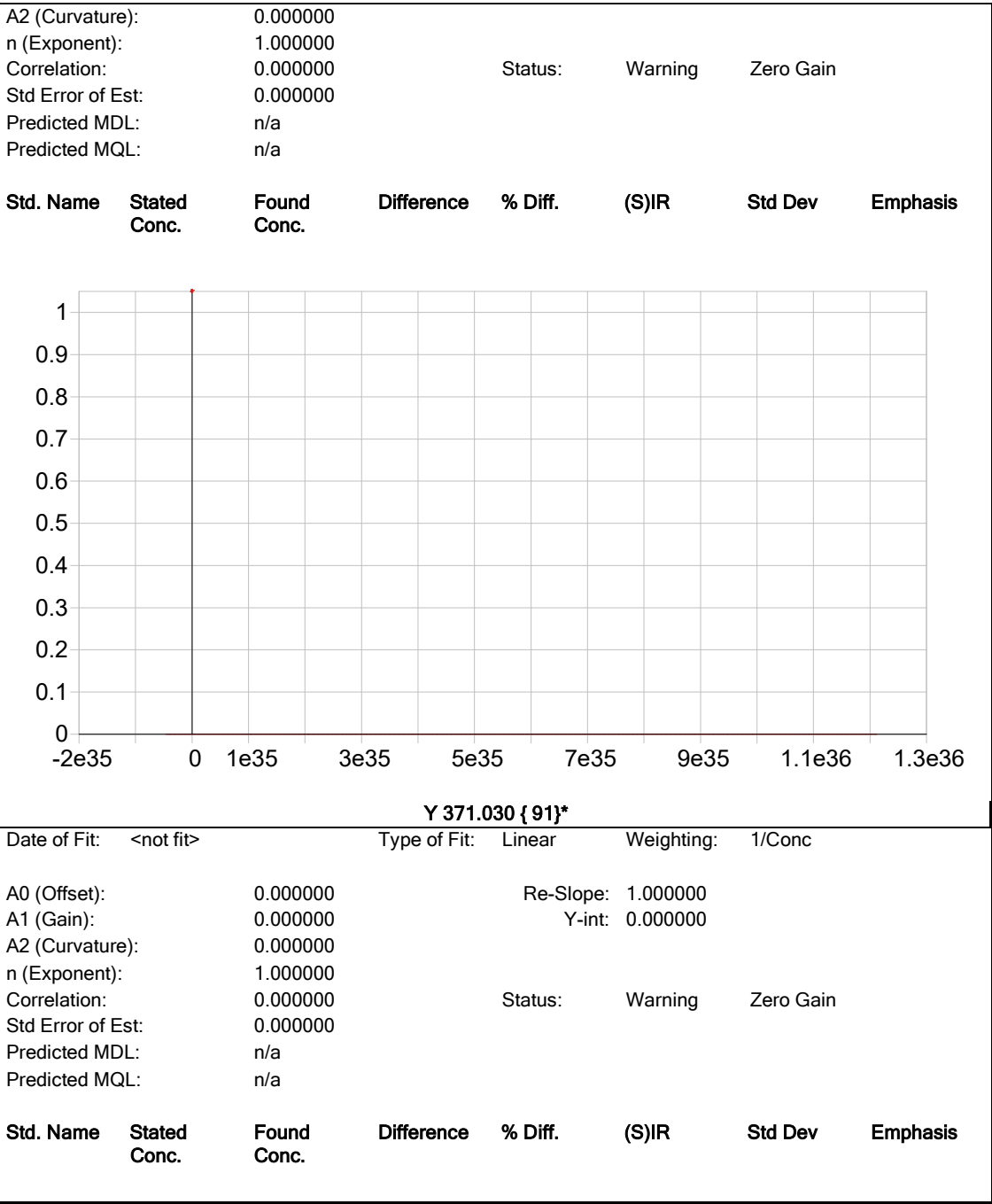


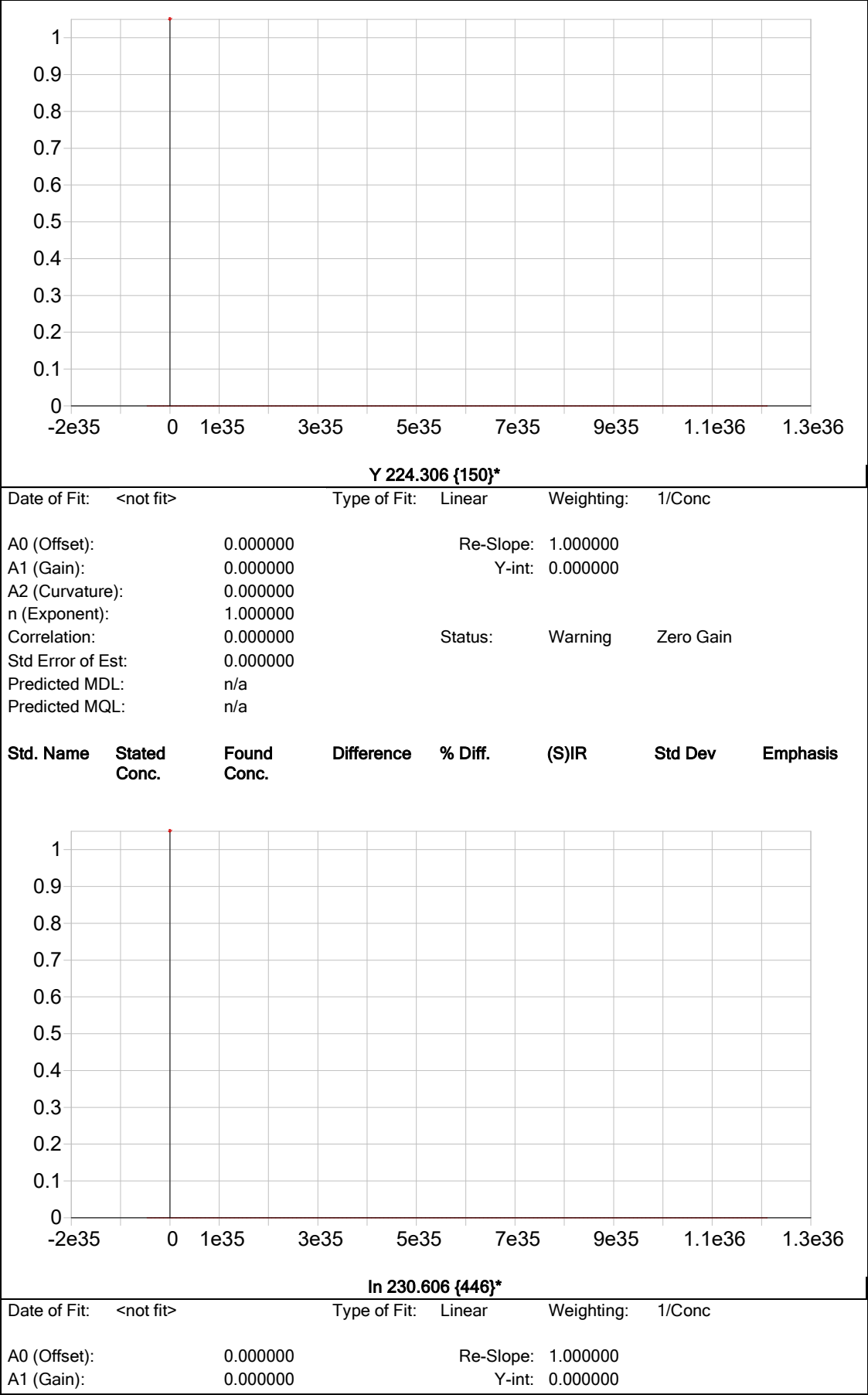
|                   |           |              |          |            |        |
|-------------------|-----------|--------------|----------|------------|--------|
| Date of Fit:      | <not fit> | Type of Fit: | Linear   | Weighting: | 1/Conc |
| A0 (Offset):      | 0.000000  | Re-Slope:    | 1.000000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

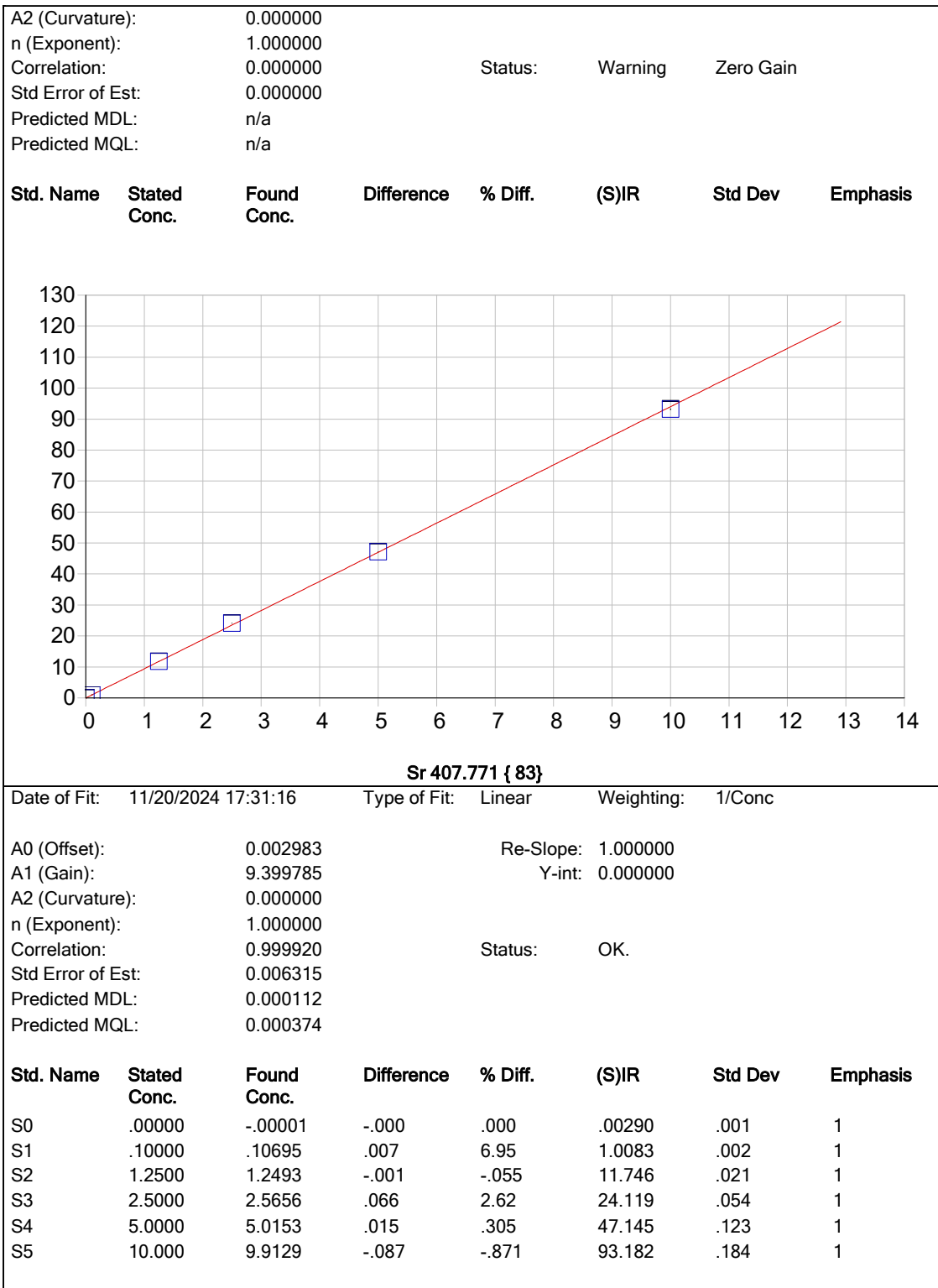
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|-------|---------|----------|
|-----------|--------------|-------------|------------|---------|-------|---------|----------|



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







Sample Name: S0      Acquired: 11/20/2024 11:06:59      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S0      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | -.00005 | -.00036 | -.00073 | -.00013 | .00025  | -.00440 | .01025  | -.00084 |
| Stddev | .00018  | .00030  | .00038  | .00027  | .00035  | .00076  | .00262  | .00016  |
| %RSD   | 354.62  | 82.854  | 52.618  | 206.96  | 139.61  | 17.263  | 25.537  | 18.727  |
| #1     | .00015  | -.00058 | -.00030 | .00018  | .00064  | -.00481 | .00977  | -.00095 |
| #2     | -.00019 | -.00002 | -.00105 | -.00027 | -.00001 | -.00353 | .01308  | -.00066 |
| #3     | -.00011 | -.00050 | -.00082 | -.00029 | .00011  | -.00488 | .00791  | -.00092 |
| Elem   | Cd2144  | Ca3736  | Cr2677  | Co2286  | Cu3247  | Fe2598  | Mn2576  | Mg2790  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | .00016  | .00688  | -.00025 | -.00039 | .00202  | .00017  | .00009  | -.00013 |
| Stddev | .00020  | .00039  | .00010  | .00034  | .00022  | .00017  | .00018  | .00005  |
| %RSD   | 123.40  | 5.6191  | 39.577  | 85.998  | 11.081  | 100.39  | 191.39  | 38.598  |
| #1     | -.00004 | .00665  | -.00017 | -.00068 | .00214  | .00010  | -.00006 | -.00009 |
| #2     | .00035  | .00733  | -.00036 | -.00047 | .00176  | .00004  | .00029  | -.00012 |
| #3     | .00016  | .00667  | -.00023 | -.00002 | .00216  | .00036  | .00004  | -.00018 |
| Elem   | Ni2316  | Ag3280  | Na8183  | V_2924  | Zn2138  | K_7698  | P_1774  | B_2496  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | -.00025 | .02762  | -.00264 | -.00100 | .00851  | .09189  | -.00107 | .00364  |
| Stddev | .00040  | .00027  | .00074  | .00052  | .00092  | .00174  | .00006  | .00022  |
| %RSD   | 159.13  | .98569  | 27.987  | 51.873  | 10.834  | 1.8906  | 5.7917  | 6.1545  |
| #1     | -.00063 | .02755  | -.00334 | -.00159 | .00857  | .09375  | -.00104 | .00388  |
| #2     | -.00030 | .02792  | -.00187 | -.00067 | .00939  | .09031  | -.00104 | .00344  |
| #3     | .00017  | .02739  | -.00271 | -.00073 | .00755  | .09160  | -.00114 | .00359  |
| Elem   | Mo2020  | S_1820  | Si2516  | Sn1899  | Ti3361  | Li6707  | Sr4077  |         |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |         |
| Avg    | -.00033 | .00047  | .00411  | .00023  | .00050  | .02276  | .00290  |         |
| Stddev | .00004  | .00016  | .00014  | .00022  | .00077  | .00117  | .00084  |         |
| %RSD   | 12.781  | 34.994  | 3.4973  | 94.664  | 152.39  | 5.1222  | 28.887  |         |
| #1     | -.00038 | .00046  | .00410  | .00011  | .00116  | .02405  | .00278  |         |
| #2     | -.00033 | .00031  | .00426  | .00048  | -.00034 | .02178  | .00213  |         |
| #3     | -.00029 | .00063  | .00397  | .00009  | .00069  | .02244  | .00379  |         |



Sample Name: S0      Acquired: 11/20/2024 11:06:59      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S0      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 970.95 | 24713. | 4884.2 | 757.76 | 1830.3 |
| Stddev    | 1.39   | 88.    | 1.9    | 4.21   | 1.4    |
| %RSD      | .14348 | .35570 | .03801 | .55565 | .07752 |
| #1        | 969.55 | 24744. | 4882.1 | 762.53 | 1828.7 |
| #2        | 970.95 | 24614. | 4885.6 | 756.18 | 1831.5 |
| #3        | 972.34 | 24781. | 4885.0 | 754.57 | 1830.6 |

Sample Name: S1      Acquired: 11/20/2024 11:11:38      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .00025 | .00141 | .00081 | .00210 | .01065 | .01227 | .83323  | .02165 |
| Stddev | .00004 | .00006 | .00020 | .00009 | .00045 | .00069 | .00240  | .00080 |
| %RSD   | 15.501 | 4.0270 | 24.133 | 4.2415 | 4.1945 | 5.6445 | .28747  | 3.6966 |
| #1     | .00028 | .00144 | .00077 | .00200 | .01014 | .01228 | .83599  | .02173 |
| #2     | .00021 | .00135 | .00103 | .00212 | .01084 | .01296 | .83171  | .02241 |
| #3     | .00026 | .00145 | .00064 | .00217 | .01096 | .01158 | .83199  | .02082 |
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576  | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .01109 | .46377 | .00124 | .03194 | .00811 | .00283 | .01138  | .04405 |
| Stddev | .00029 | .00164 | .00008 | .00019 | .00078 | .00014 | .00032  | .00023 |
| %RSD   | 2.5742 | .35421 | 6.7702 | .60818 | 9.5697 | 5.0381 | 2.8479  | .53268 |
| #1     | .01141 | .46559 | .00115 | .03172 | .00879 | .00274 | .01157  | .04410 |
| #2     | .01086 | .46239 | .00131 | .03202 | .00727 | .00299 | .01156  | .04380 |
| #3     | .01101 | .46333 | .00125 | .03208 | .00827 | .00275 | .01101  | .04426 |
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774  | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .02623 | .03188 | .02750 | .00405 | .17276 | .18286 | -.00069 | .00311 |
| Stddev | .00021 | .00022 | .00080 | .00032 | .00072 | .00168 | .00016  | .00012 |
| %RSD   | .81883 | .68051 | 2.9131 | 7.9462 | .41685 | .91935 | 23.757  | 3.8387 |
| #1     | .02608 | .03213 | .02683 | .00434 | .17331 | .18427 | -.00073 | .00298 |
| #2     | .02647 | .03173 | .02729 | .00370 | .17195 | .18100 | -.00083 | .00322 |
| #3     | .02613 | .03177 | .02838 | .00410 | .17304 | .18330 | -.00051 | .00313 |
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077  |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   |        |
| Avg    | .00850 | .00311 | .15065 | .00108 | .05633 | .04460 | 1.0083  |        |
| Stddev | .00058 | .00014 | .00071 | .00002 | .00043 | .00141 | .0018   |        |
| %RSD   | 6.8625 | 4.5905 | .46903 | 1.6953 | .76272 | 3.1575 | .18039  |        |
| #1     | .00914 | .00295 | .14991 | .00107 | .05665 | .04617 | 1.0074  |        |
| #2     | .00800 | .00318 | .15072 | .00107 | .05584 | .04345 | 1.0072  |        |
| #3     | .00836 | .00321 | .15132 | .00110 | .05649 | .04418 | 1.0104  |        |

Sample Name: S1      Acquired: 11/20/2024 11:11:38      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 963.10 | 24639. | 4929.5 | 758.18 | 1776.3 |
| Stddev    | 1.64   | 54.    | 4.5    | .65    | 3.1    |
| %RSD      | .17033 | .22057 | .09139 | .08607 | .17608 |
| #1        | 961.22 | 24600. | 4934.7 | 758.56 | 1772.9 |
| #2        | 964.23 | 24701. | 4927.1 | 758.54 | 1777.2 |
| #3        | 963.85 | 24614. | 4926.6 | 757.42 | 1778.9 |

Sample Name: S2      Acquired: 11/20/2024 11:16:17      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S02      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .03317 | .08985 | .87829 | .07067 | .21613 | 3.2288 | 9.5330 | .51259 |
| Stddev | .00026 | .00041 | .00214 | .00083 | .00057 | .0127  | .0039  | .00248 |
| %RSD   | .78237 | .45488 | .24328 | 1.1804 | .26498 | .39178 | .04080 | .48468 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .03302 | .08992 | .87639 | .07043 | .21549 | 3.2250 | 9.5290 | .51051 |
| #2 | .03302 | .08942 | .87788 | .06998 | .21660 | 3.2429 | 9.5367 | .51534 |
| #3 | .03347 | .09023 | .88060 | .07160 | .21629 | 3.2184 | 9.5333 | .51191 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.2469 | 5.1765 | .53388 | .38814 | .89484 | .83597 | 2.3935 | .51199 |
| Stddev | .0035  | .0097  | .00119 | .00127 | .00260 | .00280 | .0049  | .00278 |
| %RSD   | .28304 | .18695 | .22382 | .32751 | .29070 | .33540 | .20576 | .54326 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.2432 | 5.1726 | .53266 | .38689 | .89673 | .83524 | 2.3949 | .51023 |
| #2 | 1.2473 | 5.1876 | .53393 | .38943 | .89188 | .83907 | 2.3976 | .51520 |
| #3 | 1.2503 | 5.1695 | .53505 | .38808 | .89592 | .83360 | 2.3880 | .51054 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .36918 | .14722 | .21077 | .05932 | 8.2734 | .73381 | .05683 | .39954 |
| Stddev | .00133 | .00011 | .00199 | .00065 | .0466  | .00160 | .00026 | .00293 |
| %RSD   | .35975 | .07370 | .94310 | 1.0985 | .56310 | .21820 | .44938 | .73384 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .36795 | .14725 | .20868 | .05969 | 8.2713 | .73480 | .05690 | .39827 |
| #2 | .36901 | .14710 | .21264 | .05970 | 8.2280 | .73467 | .05655 | .40289 |
| #3 | .37059 | .14731 | .21098 | .05857 | 8.3211 | .73196 | .05705 | .39746 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.0367 | .03151 | .87525 | .12233 | .66392 | 1.7697 | 11.746 |
| Stddev | .0046  | .00009 | .00462 | .00013 | .00167 | .0048  | .021   |
| %RSD   | .44415 | .27438 | .52775 | .10290 | .25190 | .26881 | .18123 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0352 | .03156 | .87113 | .12221 | .66307 | 1.7657 | 11.739 |
| #2 | 1.0330 | .03155 | .88025 | .12231 | .66585 | 1.7750 | 11.770 |
| #3 | 1.0419 | .03141 | .87438 | .12246 | .66284 | 1.7684 | 11.729 |

Sample Name: S2      Acquired: 11/20/2024 11:16:17      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S02      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 908.29 | 24070. | 4972.1 | 712.10 | 1581.8 |
| Stddev    | 1.81   | 11.    | 26.5   | 2.99   | 1.3    |
| %RSD      | .19892 | .04571 | .53300 | .42042 | .08531 |
| #1        | 907.51 | 24081. | 4986.9 | 711.50 | 1583.2 |
| #2        | 910.36 | 24059. | 4941.5 | 715.35 | 1581.6 |
| #3        | 907.01 | 24070. | 4988.0 | 709.45 | 1580.5 |

Sample Name: S3      Acquired: 11/20/2024 11:20:40      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S03      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .07082 | .17995 | 1.8112 | .14917 | .45465 | 6.7273 | 19.613 | 1.0588 |
| Stddev | .00035 | .00070 | .0018  | .00011 | .00091 | .0307  | .049   | .0035  |
| %RSD   | .49329 | .38669 | .09858 | .07638 | .19923 | .45583 | .24751 | .32900 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .07122 | .17920 | 1.8120 | .14926 | .45503 | 6.7363 | 19.604 | 1.0600 |
| #2 | .07067 | .18057 | 1.8091 | .14920 | .45362 | 6.7524 | 19.665 | 1.0549 |
| #3 | .07057 | .18009 | 1.8123 | .14904 | .45531 | 6.6931 | 19.570 | 1.0615 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.5726 | 10.564 | 1.0724 | .79934 | 1.8317 | 1.7104 | 4.8346 | 1.0668 |
| Stddev | .0028  | .025   | .0009  | .00115 | .0064  | .0073  | .0065  | .0075  |
| %RSD   | .11025 | .23741 | .08446 | .14446 | .35151 | .42753 | .13502 | .70345 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.5694 | 10.557 | 1.0728 | .79839 | 1.8333 | 1.7106 | 4.8359 | 1.0674 |
| #2 | 2.5736 | 10.592 | 1.0713 | .79899 | 1.8371 | 1.7176 | 4.8404 | 1.0740 |
| #3 | 2.5747 | 10.544 | 1.0730 | .80062 | 1.8246 | 1.7030 | 4.8275 | 1.0590 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .75577 | .27309 | .44076 | .12161 | 17.350 | 1.4332 | .12143 | .77022 |
| Stddev | .00200 | .00077 | .00444 | .00099 | .031   | .0067  | .00050 | .00080 |
| %RSD   | .26445 | .28039 | 1.0071 | .81106 | .18025 | .46972 | .41218 | .10429 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75350 | .27307 | .44116 | .12101 | 17.374 | 1.4307 | .12153 | .76939 |
| #2 | .75654 | .27387 | .44499 | .12275 | 17.361 | 1.4409 | .12089 | .77099 |
| #3 | .75727 | .27234 | .43614 | .12107 | 17.314 | 1.4282 | .12187 | .77029 |

|        |        |        |        |        |        |        |        |  |
|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |  |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |  |
| Avg    | 2.1438 | .06636 | 1.5433 | .25356 | 1.3740 | 3.6429 | 24.119 |  |
| Stddev | .0014  | .00027 | .0026  | .00024 | .0070  | .0176  | .054   |  |
| %RSD   | .06462 | .40830 | .16788 | .09553 | .50790 | .48407 | .22469 |  |

|    |        |        |        |        |        |        |        |  |
|----|--------|--------|--------|--------|--------|--------|--------|--|
| #1 | 2.1439 | .06662 | 1.5441 | .25351 | 1.3789 | 3.6423 | 24.144 |  |
| #2 | 2.1451 | .06608 | 1.5404 | .25334 | 1.3771 | 3.6608 | 24.156 |  |
| #3 | 2.1423 | .06638 | 1.5455 | .25382 | 1.3660 | 3.6255 | 24.057 |  |

Sample Name: S3      Acquired: 11/20/2024 11:20:40      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S03      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 861.07 | 23540. | 4909.2 | 673.52 | 1488.7 |
| Stddev    | 1.47   | 33.    | 7.7    | 1.56   | 1.6    |
| %RSD      | .17041 | .14116 | .15759 | .23171 | .10512 |
| #1        | 860.01 | 23543. | 4905.4 | 673.45 | 1490.5 |
| #2        | 860.44 | 23506. | 4904.1 | 671.99 | 1487.9 |
| #3        | 862.74 | 23572. | 4918.1 | 675.11 | 1487.7 |

Sample Name: S4      Acquired: 11/20/2024 11:25:02      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S04      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .14577 | .35367 | 3.5977 | .31100 | .95656 | 13.701 | 38.983 | 2.1170 |
| Stddev | .00033 | .00040 | .0026  | .00165 | .00191 | .005   | .109   | .0105  |
| %RSD   | .22842 | .11173 | .07330 | .53193 | .19985 | .03966 | .27944 | .49542 |
| #1     | .14539 | .35330 | 3.5958 | .31263 | .95805 | 13.705 | 39.074 | 2.1288 |
| #2     | .14597 | .35408 | 3.5967 | .30932 | .95722 | 13.703 | 39.013 | 2.1085 |
| #3     | .14596 | .35362 | 3.6007 | .31104 | .95440 | 13.695 | 38.862 | 2.1139 |
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 5.0850 | 20.930 | 2.1039 | 1.5951 | 3.6562 | 3.3781 | 9.4694 | 2.1637 |
| Stddev | .0039  | .059   | .0033  | .0016  | .0059  | .0080  | .0322  | .0014  |
| %RSD   | .07738 | .28180 | .15494 | .09954 | .16058 | .23739 | .33970 | .06547 |
| #1     | 5.0805 | 20.997 | 2.1026 | 1.5935 | 3.6572 | 3.3721 | 9.5062 | 2.1626 |
| #2     | 5.0874 | 20.907 | 2.1076 | 1.5951 | 3.6615 | 3.3872 | 9.4559 | 2.1632 |
| #3     | 5.0873 | 20.885 | 2.1015 | 1.5967 | 3.6499 | 3.3750 | 9.4463 | 2.1653 |
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.4957 | .52675 | .88970 | .24332 | 36.503 | 2.8228 | .25197 | 1.5222 |
| Stddev | .0005  | .00141 | .00101 | .00133 | .246   | .0022  | .00113 | .0039  |
| %RSD   | .03581 | .26749 | .11371 | .54719 | .67273 | .07705 | .44728 | .25760 |
| #1     | 1.4951 | .52592 | .89008 | .24477 | 36.387 | 2.8205 | .25073 | 1.5257 |
| #2     | 1.4957 | .52838 | .88855 | .24303 | 36.785 | 2.8232 | .25226 | 1.5179 |
| #3     | 1.4962 | .52596 | .89046 | .24216 | 36.337 | 2.8248 | .25293 | 1.5229 |
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |        |
| Avg    | 4.4318 | .13761 | 3.0525 | .50747 | 2.7344 | 7.3647 | 47.145 |        |
| Stddev | .0112  | .00067 | .0132  | .00038 | .0031  | .0072  | .123   |        |
| %RSD   | .25180 | .48424 | .43241 | .07580 | .11277 | .09808 | .26028 |        |
| #1     | 4.4393 | .13699 | 3.0656 | .50703 | 2.7323 | 7.3691 | 47.168 |        |
| #2     | 4.4371 | .13753 | 3.0392 | .50774 | 2.7379 | 7.3687 | 47.013 |        |
| #3     | 4.4190 | .13832 | 3.0528 | .50765 | 2.7330 | 7.3564 | 47.255 |        |



Sample Name: S4      Acquired: 11/20/2024 11:25:02      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S04      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 787.00 | 22720. | 4795.0 | 597.74 | 1386.9 |
| Stddev    | 2.02   | 35.    | 10.1   | 3.64   | 1.6    |
| %RSD      | .25639 | .15213 | .21041 | .60873 | .11829 |
| #1        | 784.84 | 22751. | 4786.6 | 600.00 | 1388.7 |
| #2        | 787.32 | 22683. | 4806.2 | 593.54 | 1386.5 |
| #3        | 788.84 | 22728. | 4792.2 | 599.68 | 1385.5 |

Sample Name: S5      Acquired: 11/20/2024 11:29:29      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S05      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .30233 | .68965 | 7.1352 | .68079 | 2.1297 | 27.623 | 76.117 | 4.1335 |
| Stddev | .00126 | .00252 | .0203  | .00114 | .0038  | .074   | .290   | .0101  |
| %RSD   | .41697 | .36530 | .28453 | .16790 | .18006 | .26783 | .38108 | .24343 |
| #1     | .30155 | .68707 | 7.1122 | .68048 | 2.1254 | 27.540 | 75.830 | 4.1221 |
| #2     | .30166 | .69210 | 7.1506 | .67983 | 2.1309 | 27.646 | 76.111 | 4.1412 |
| #3     | .30379 | .68978 | 7.1428 | .68206 | 2.1328 | 27.682 | 76.410 | 4.1371 |
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 9.9749 | 41.214 | 4.0909 | 3.1558 | 7.2794 | 6.6225 | 18.467 | 4.3511 |
| Stddev | .0367  | .069   | .0038  | .0089  | .0157  | .0154  | .044   | .0095  |
| %RSD   | .36832 | .16742 | .09297 | .28170 | .21521 | .23264 | .23853 | .21770 |
| #1     | 9.9326 | 41.140 | 4.0874 | 3.1469 | 7.2625 | 6.6055 | 18.423 | 4.3402 |
| #2     | 9.9934 | 41.226 | 4.0950 | 3.1560 | 7.2823 | 6.6264 | 18.466 | 4.3554 |
| #3     | 9.9988 | 41.277 | 4.0902 | 3.1646 | 7.2935 | 6.6356 | 18.511 | 4.3576 |
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.9458 | 1.0635 | 1.7790 | .47847 | 81.519 | 5.6309 | .52091 | 2.9847 |
| Stddev | .0070  | .0016  | .0091  | .00333 | .381   | .0164  | .00062 | .0067  |
| %RSD   | .23797 | .15069 | .50859 | .69510 | .46783 | .29037 | .11868 | .22318 |
| #1     | 2.9383 | 1.0619 | 1.7688 | .47472 | 81.109 | 5.6121 | .52040 | 2.9773 |
| #2     | 2.9470 | 1.0633 | 1.7858 | .48107 | 81.863 | 5.6400 | .52160 | 2.9903 |
| #3     | 2.9522 | 1.0651 | 1.7825 | .47963 | 81.586 | 5.6408 | .52073 | 2.9866 |
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 | Sr4077 |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |        |
| Avg    | 9.5130 | .28698 | 6.4492 | 1.0058 | 5.3890 | 14.877 | 93.182 |        |
| Stddev | .0237  | .00088 | .0134  | .0028  | .0151  | .040   | .184   |        |
| %RSD   | .24935 | .30588 | .20778 | .27855 | .27948 | .26735 | .19711 |        |
| #1     | 9.4897 | .28601 | 6.4438 | 1.0025 | 5.3719 | 14.833 | 93.009 |        |
| #2     | 9.5122 | .28770 | 6.4394 | 1.0076 | 5.3948 | 14.885 | 93.161 |        |
| #3     | 9.5371 | .28725 | 6.4645 | 1.0071 | 5.4003 | 14.912 | 93.375 |        |

Sample Name: S5      Acquired: 11/20/2024 11:29:29      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S05      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 674.61 | 21454. | 4708.6 | 470.10 | 1270.7 |
| Stddev    | 2.54   | 42.    | 16.1   | 2.10   | 3.4    |
| %RSD      | .37620 | .19529 | .34157 | .44674 | .26719 |
| #1        | 676.07 | 21498. | 4724.7 | 472.44 | 1274.0 |
| #2        | 676.08 | 21415. | 4708.4 | 468.37 | 1270.8 |
| #3        | 671.68 | 21448. | 4692.6 | 469.49 | 1267.2 |

Sample Name: S6      Acquired: 11/20/2024 11:33:58      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S06      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Elem      | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 70.233 | 63.577 | 17.078 | 6.9042 | 4.6938 |
| Stddev    | .627   | .344   | .035   | .0171  | .0043  |
| %RSD      | .89274 | .54077 | .20522 | .24747 | .09205 |
| #1        | 69.526 | 63.233 | 17.037 | 6.8859 | 4.6911 |
| #2        | 70.449 | 63.921 | 17.094 | 6.9198 | 4.6988 |
| #3        | 70.723 | 63.577 | 17.101 | 6.9068 | 4.6915 |
| Int. Std. | Y_3710 |        |        |        |        |
| Units     | Cts/S  |        |        |        |        |
| Avg       | 4638.7 |        |        |        |        |
| Stddev    | 14.5   |        |        |        |        |
| %RSD      | .31361 |        |        |        |        |
| #1        | 4651.4 |        |        |        |        |
| #2        | 4641.9 |        |        |        |        |
| #3        | 4622.9 |        |        |        |        |

Sample Name: ICV006      Acquired: 11/20/2024 12:34:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICV006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .9087581 | 1.054342 | .9881629 | .9364508 | .9160311 | 2.425032 |
| Stddev | .0052187 | .005863  | .0013995 | .0034851 | .0011363 | .022494  |
| %RSD   | .5742685 | .5560959 | .1416237 | .3721640 | .1240467 | .9275714 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9045847 | 1.055083 | .9866915 | .9365566 | .9168230 | 2.438531 |
| #2 | .9070802 | 1.048143 | .9883199 | .9398818 | .9147291 | 2.437499 |
| #3 | .9146093 | 1.059799 | .9894772 | .9329140 | .9165412 | 2.399065 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5291514 | .5220062 | .4948505 | 10.25951 | .5476882 | .5010092 |
| Stddev | .0017197 | .0004091 | .0010209 | .03660   | .0002343 | .0009465 |
| %RSD   | .3250016 | .0783640 | .2062956 | .3567655 | .0427869 | .1889195 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5303834 | .5220703 | .4943512 | 10.28249 | .5474727 | .5001563 |
| #2 | .5298840 | .5223794 | .4941754 | 10.27874 | .5476542 | .5008438 |
| #3 | .5271866 | .5215689 | .4960249 | 10.21730 | .5479376 | .5020275 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4971870 | 10.83124 | .5294954 | 5.521329 | .5096064 | .2321398 |
| Stddev | .0031152 | .01586   | .0023210 | .007113  | .0003806 | .0002282 |
| %RSD   | .6265634 | .1464034 | .4383395 | .1288282 | .0746843 | .0983076 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5002735 | 10.84936 | .5297162 | 5.525663 | .5092700 | .2321044 |
| #2 | .4940439 | 10.81990 | .5316981 | 5.513120 | .5095296 | .2323837 |
| #3 | .4972435 | 10.82446 | .5270719 | 5.525204 | .5100195 | .2319314 |

|        |          |          |          |          |            |            |
|--------|----------|----------|----------|----------|------------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm        |
| Avg    | 9.907102 | .5443681 | .9106659 | 9.334872 | F .0025597 | F .0050877 |
| Stddev | .169952  | .0045619 | .0028877 | .113555  | .0017950   | .0004327   |
| %RSD   | 1.715453 | .8380181 | .3170944 | 1.216456 | 70.12690   | 8.504926   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.03683 | .5399210 | .9118715 | 9.405392 | .0043066 | .0050511 |
| #2 | 9.96975  | .5441466 | .9127555 | 9.395346 | .0007201 | .0046745 |
| #3 | 9.71472  | .5490367 | .9073708 | 9.203879 | .0026524 | .0055376 |

Sample Name: ICV006      Acquired: 11/20/2024 12:34:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICV006      Custom ID2:      Custom ID3:  
Comment:

|        |            |            |            |            |            |            |
|--------|------------|------------|------------|------------|------------|------------|
| Elem   | Mo2020     | S_1820     | Si2516     | Sn1899     | Ti3361     | Li6707     |
| Units  | ppm        | ppm        | ppm        | ppm        | ppm        | ppm        |
| Avg    | F -.000246 | F -.004260 | F .0022877 | F -.000641 | F -.001362 | F -.008527 |
| Stddev | .000151    | .006328    | .0006572   | .000568    | .000916    | .001367    |
| %RSD   | 61.18775   | 148.5360   | 28.72824   | 88.69715   | 67.25578   | 16.03442   |
| #1     | -.000108   | .002856    | .0027983   | -.000837   | -.002242   | -.009364   |
| #2     | -.000224   | -.006383   | .0015462   | -.000000   | -.000414   | -.006949   |
| #3     | -.000407   | -.009253   | .0025185   | -.001085   | -.001431   | -.009267   |

|        |            |
|--------|------------|
| Elem   | Sr4077     |
| Units  | ppm        |
| Avg    | F .0011747 |
| Stddev | .0000511   |
| %RSD   | 4.350188   |
| #1     | .0011158   |
| #2     | .0012006   |
| #3     | .0012076   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 920.2243 | 24936.23 | 4913.869 | 754.8512 | 1696.737 |
| Stddev    | .7333    | 38.43    | 15.280   | 2.5969   | .998     |
| %RSD      | .0796924 | .1541328 | .3109515 | .3440320 | .0588270 |
| #1        | 920.5430 | 24892.75 | 4919.030 | 755.1356 | 1697.830 |
| #2        | 919.3855 | 24950.23 | 4896.677 | 752.1237 | 1696.507 |
| #3        | 920.7444 | 24965.70 | 4925.900 | 757.2942 | 1695.874 |

Sample Name: ICB006      Acquired: 11/20/2024 12:38:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICB006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.003399 | .0004634 | .0004056 | .0013046 | -.000452 | .0017379 | -.002431 |
| Stddev | .002748  | .0024469 | .0027150 | .0026803 | .000962  | .0156036 | .000495  |
| %RSD   | 80.86058 | 527.9894 | 669.4622 | 205.4550 | 212.9950 | 897.8210 | 20.37771 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.002600 | -.001967 | .0022040 | .0016683 | .000101  | .0140423 | -.002051 |
| #2 | -.001138 | .002926  | -.002717 | -.001539 | -.001562 | -.015813 | -.002251 |
| #3 | -.006458 | .000431  | .001730  | .003784  | .000106  | .006984  | -.002991 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000126 | -.000108 | -.013923 | .0006094 | -.000155 | .0002667 | .0031604 |
| Stddev | .000101  | .000012  | .016157  | .0012752 | .000199  | .0008414 | .0071569 |
| %RSD   | 80.51785 | 10.88042 | 116.0472 | 209.2463 | 128.4268 | 315.4423 | 226.4585 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000241 | -.000117 | -.029322 | .0020724 | -.000023 | .0010203 | .0097751 |
| #2 | -.000087 | -.000095 | -.015346 | -.000267 | -.000384 | -.000641 | -.004437 |
| #3 | -.000049 | -.000111 | .002898  | .000023  | -.000058 | .000421  | .004143  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001293 | -.010628 | .0010580 | -.005972 | .2342393 | .0063651 | -.001018 |
| Stddev | .0005031 | .024592  | .0003619 | .000195  | .2099719 | .0040275 | .000141  |
| %RSD   | 389.0639 | 231.3971 | 34.20835 | 3.261147 | 89.63990 | 63.27444 | 13.83822 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0006166 | .011427  | .0007866 | -.006146 | .1173580 | .0110109 | -.001180 |
| #2 | -.000388 | -.006163 | .0009186 | -.006007 | .4766426 | .0042249 | -.000948 |
| #3 | .000160  | -.037146 | .0014690 | -.005762 | .1087173 | .0038596 | -.000925 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.670905 | -.000525 | -.005966 | .0001940 | -.004005 | .0008128 | -.001672 |
| Stddev | .227432  | .001362  | .000278  | .0001965 | .002456  | .0007353 | .002957  |
| %RSD   | 33.89926 | 259.6266 | 4.658479 | 101.2657 | 61.31552 | 90.46910 | 176.8520 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.762480 | -.002038 | -.005775 | .0001443 | -.005689 | .0005749 | -.003995 |
| #2 | -.838275 | .000603  | -.005837 | .0000272 | -.001187 | .0016376 | .001657  |
| #3 | -.411961 | -.000138 | -.006285 | .0004106 | -.005139 | .0002259 | -.002679 |

Sample Name: ICB006      Acquired: 11/20/2024 12:38:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICB006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0007407 | -.009454 | -.000064 |
| Stddev | .0010262 | .000586  | .000175  |
| %RSD   | 138.5393 | 6.193879 | 275.0322 |
| #1     | -.000066 | -.008970 | -.000017 |
| #2     | .001896  | -.009287 | -.000258 |
| #3     | .000392  | -.010105 | .000084  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 926.3111 | 25177.14 | 4924.512 | 763.4599 | 1758.961 |
| Stddev    | .1788    | 35.11    | 18.581   | 1.9154   | 3.413    |
| %RSD      | .0193063 | .1394493 | .3773243 | .2508805 | .1940412 |
| #1        | 926.4874 | 25182.23 | 4912.586 | 762.0807 | 1758.654 |
| #2        | 926.3160 | 25209.43 | 4915.029 | 765.6468 | 1755.712 |
| #3        | 926.1299 | 25139.76 | 4945.921 | 762.6522 | 1762.517 |



Sample Name: ICSA006      Acquired: 11/20/2024 12:52:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSA006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0059896 | -.003174 | .0002668 | .0111432 | .0080605 | 238.2179 |
| Stddev | .0114268 | .004568  | .0029102 | .0086101 | .0018334 | .4876    |
| %RSD   | 190.7766 | 143.9189 | 1090.760 | 77.26748 | 22.74559 | .2047023 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.001560 | .000199  | .0017469 | .0015862 | .0101476 | 237.8557 |
| #2 | .019136  | -.001348 | -.003086 | .0135488 | .0067093 | 238.7723 |
| #3 | .000393  | -.008372 | .002139  | .0182948 | .0073248 | 238.0255 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0037159 | -.000081 | .0017992 | 241.2341 | .0489007 | -.001541 |
| Stddev | .0003827 | .000064  | .0001651 | .6163    | .0016667 | .000661  |
| %RSD   | 10.29761 | 78.52121 | 9.173178 | .2554650 | 3.408253 | 42.87856 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0038443 | -.000154 | .0016614 | 240.7621 | .0506915 | -.000780 |
| #2 | .0032855 | -.000032 | .0019821 | 241.9313 | .0486156 | -.001878 |
| #3 | .0040178 | -.000059 | .0017542 | 241.0088 | .0473949 | -.001965 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002294 | 100.4351 | .0109118 | 233.9441 | .0034055 | -.001728 |
| Stddev | .001515  | .2891    | .0004700 | 1.1351   | .0003035 | .000442  |
| %RSD   | 66.03470 | .2878327 | 4.306936 | .4852043 | 8.913556 | 25.55986 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.003337 | 100.1915 | .0111814 | 232.7887 | .0036168 | -.001561 |
| #2 | -.000556 | 100.7545 | .0111849 | 235.0578 | .0035421 | -.002229 |
| #3 | -.002989 | 100.3593 | .0103691 | 233.9859 | .0030577 | -.001395 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .5745721 | -.001691 | .0115015 | -1.13192 | .0026373 | F .0789420 |
| Stddev | .2868919 | .009788  | .0005342 | .22079   | .0041733 | .0007177   |
| %RSD   | 49.93140 | 578.7847 | 4.644777 | 19.50578 | 158.2387 | .9091071   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .7349750 | .006324  | .0120907 | -1.18035 | .0044104 | .0795922 |
| #2 | .7453888 | -.012599 | .0113653 | -.89093  | -.002130 | .0790618 |
| #3 | .2433525 | .001202  | .0110486 | -1.32447 | .005631  | .0781720 |

Sample Name: ICSA006      Acquired: 11/20/2024 12:52:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSA006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.002250 | -.008287 | .0014696 | F -.010583 | -.000821 | -.006126 |
| Stddev | .000639  | .010697  | .0002520 | .001173    | .001352  | .001619  |
| %RSD   | 28.38192 | 129.0853 | 17.15045 | 11.08651   | 164.7626 | 26.42318 |
| #1     | -.002288 | .000247  | .0013087 | -.011420   | .000575  | -.007608 |
| #2     | -.002869 | -.020288 | .0013401 | -.009242   | -.002124 | -.004399 |
| #3     | -.001593 | -.004821 | .0017601 | -.011088   | -.000913 | -.006373 |

|        |            |
|--------|------------|
| Elem   | Sr4077     |
| Units  | ppm        |
| Avg    | F .1004199 |
| Stddev | .0004063   |
| %RSD   | .4045730   |
| #1     | .1001364   |
| #2     | .1008853   |
| #3     | .1002380   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 855.8689 | 22994.67 | 4827.007 | 702.8767 | 1422.814 |
| Stddev    | 2.4045   | 48.59    | 35.225   | 1.6021   | 1.516    |
| %RSD      | .2809408 | .2112959 | .7297434 | .2279316 | .1065278 |
| #1        | 853.8804 | 23020.96 | 4862.265 | 703.4675 | 1422.308 |
| #2        | 858.5412 | 22938.61 | 4791.815 | 701.0631 | 1424.518 |
| #3        | 855.1850 | 23024.45 | 4826.939 | 704.0994 | 1421.616 |

Sample Name: ICSAB006      Acquired: 11/20/2024 12:56:41      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSAB006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .1059834 | .1021071 | .0523940 | .0520870 | .5582360 | 247.5890   |
| Stddev | .0048531 | .0062808 | .0049456 | .0121672 | .0023070 | 1.2640     |
| %RSD   | 4.579167 | 6.151200 | 9.439324 | 23.35929 | .4132658 | .5105298   |
| #1     | .1021427 | .1091653 | .0509077 | .0380749 | .5561373 | 248.1082   |
| #2     | .1043696 | .0971343 | .0579124 | .0582066 | .5578643 | 246.1480   |
| #3     | .1114378 | .1000215 | .0483620 | .0599794 | .5607062 | 248.5107   |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .5363671 | .5210862 | 1.025790 | 250.9868 | .5816051 | .5143849   |
| Stddev | .0025635 | .0020224 | .001546  | .8085    | .0043066 | .0012127   |
| %RSD   | .4779374 | .3881076 | .1507119 | .3221175 | .7404611 | .2357567   |
| #1     | .5382493 | .5219131 | 1.024005 | 251.5990 | .5798913 | .5132698   |
| #2     | .5334475 | .5187814 | 1.026693 | 250.0704 | .5784194 | .5142089   |
| #3     | .5374046 | .5225642 | 1.026673 | 251.2911 | .5865048 | .5156759   |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .4861995 | 104.1941 | .5245161 | 241.9522 | 1.028333 | .1813973   |
| Stddev | .0026957 | .6331    | .0032966 | 1.4524   | .004517  | .0005980   |
| %RSD   | .5544503 | .6076485 | .6285032 | .6002661 | .4392745 | .3296392   |
| #1     | .4888015 | 104.2795 | .5271281 | 241.9038 | 1.023513 | .1813324   |
| #2     | .4834189 | 103.5226 | .5208121 | 240.5246 | 1.032469 | .1808344   |
| #3     | .4863780 | 104.7802 | .5256083 | 243.4281 | 1.029017 | .1820250   |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .7606733 | .5330562 | .8776747 | -1.49872 | .0085077 | F .0815839 |
| Stddev | .3515493 | .0055427 | .0060494 | .10512   | .0018987 | .0012380   |
| %RSD   | 46.21554 | 1.039790 | .6892511 | 7.013698 | 22.31704 | 1.517390   |
| #1     | .4141715 | .5291625 | .8790516 | -1.56351 | .0105449 | .0823302   |
| #2     | .7507867 | .5394020 | .8710556 | -1.37744 | .0081905 | .0801549   |
| #3     | 1.117062 | .5306041 | .8829170 | -1.55521 | .0067875 | .0822667   |

Sample Name: ICSAB006      Acquired: 11/20/2024 12:56:41      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSAB006      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.001802 | .0085413 | .0010708 | F -.007139 | -.002376 | -.007394 |
| Stddev | .000655  | .0011265 | .0007348 | .003793    | .000322  | .001372  |
| %RSD   | 36.33685 | 13.18916 | 68.61870 | 53.12773   | 13.53489 | 18.55687 |
| #1     | -.001200 | .0072533 | .0014509 | -.006301   | -.002742 | -.008936 |
| #2     | -.002499 | .0093428 | .0002238 | -.003835   | -.002137 | -.006939 |
| #3     | -.001706 | .0090278 | .0015376 | -.011281   | -.002250 | -.006307 |

|        |            |
|--------|------------|
| Elem   | Sr4077     |
| Units  | ppm        |
| Avg    | F .1045864 |
| Stddev | .0003746   |
| %RSD   | .3582111   |
| #1     | .1048272   |
| #2     | .1041548   |
| #3     | .1047772   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 847.0440 | 22980.44 | 4841.820 | 697.9863 | 1413.619 |
| Stddev    | 2.1459   | 66.60    | 21.100   | .9758    | 2.244    |
| %RSD      | .2533417 | .2898044 | .4357928 | .1398041 | .1587350 |
| #1        | 849.3832 | 22903.74 | 4821.443 | 696.8632 | 1412.758 |
| #2        | 845.1665 | 23023.58 | 4863.576 | 698.4693 | 1411.933 |
| #3        | 846.5823 | 23014.01 | 4840.441 | 698.6264 | 1416.166 |

Sample Name: CCV034      Acquired: 11/20/2024 13:01:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV034      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.233934 | 4.853169 | 25.32462 | 4.940372 | 5.023570 | 427.4046 | 10.58154 |
| Stddev | .015604  | .008041  | .03111   | .024092  | .013211  | 11.1658  | .25394   |
| %RSD   | .2981240 | .1656854 | .1228253 | .4876618 | .2629734 | 2.612457 | 2.399863 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.217187 | 4.862222 | 25.29431 | 4.962473 | 5.038077 | 422.7115 | 10.44114 |
| #2 | 5.248063 | 4.850425 | 25.32310 | 4.914689 | 5.012232 | 419.3514 | 10.42879 |
| #3 | 5.236551 | 4.846859 | 25.35646 | 4.943954 | 5.020401 | 440.1509 | 10.87468 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5086985 | 2.535530 | 416.1922 | 15.33342 | 2.553678 | 15.56404 | 431.5757 |
| Stddev | .0125113 | .003843  | 10.4192  | .00634   | .001139  | .40093   | 11.4259  |
| %RSD   | 2.459473 | .1515497 | 2.503458 | .0413440 | .0445868 | 2.576013 | 2.647486 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5026076 | 2.533825 | 410.3888 | 15.33796 | 2.552552 | 15.35774 | 426.3930 |
| #2 | .5003991 | 2.539930 | 409.9670 | 15.33613 | 2.554829 | 15.30827 | 423.6597 |
| #3 | .5230890 | 2.532835 | 428.2208 | 15.32618 | 2.553652 | 16.02612 | 444.6745 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.12224 | 415.4199 | 2.533547 | 1.261538 | 426.5783 | 2.599232 | 14.66469 |
| Stddev | .37589   | 11.5396  | .004015  | .002417  | 11.4446  | .078449  | .05910   |
| %RSD   | 2.485673 | 2.777824 | .1584713 | .1916172 | 2.682877 | 3.018159 | .4029970 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.87852 | 411.0196 | 2.530384 | 1.263514 | 422.5307 | 2.573297 | 14.59646 |
| #2 | 14.93306 | 406.7278 | 2.538064 | 1.262259 | 417.7077 | 2.537035 | 14.69763 |
| #3 | 15.55513 | 428.5123 | 2.532194 | 1.258843 | 439.4967 | 2.687365 | 14.69998 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 156.3186 | 5.072577 | 5.252961 | 4.883272 | 5.207196 | 4.963500 | 5.080049 |
| Stddev | 4.1410   | .010077  | .130293  | .015268  | .007617  | .119269  | .002731  |
| %RSD   | 2.649084 | .1986560 | 2.480366 | .3126670 | .1462721 | 2.402919 | .0537654 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 154.6511 | 5.070067 | 5.184096 | 4.900682 | 5.205665 | 4.904403 | 5.077301 |
| #2 | 153.2713 | 5.063992 | 5.171551 | 4.876978 | 5.215462 | 4.885318 | 5.080082 |
| #3 | 161.0334 | 5.083672 | 5.403235 | 4.872157 | 5.200461 | 5.100778 | 5.082763 |

Sample Name: CCV034      Acquired: 11/20/2024 13:01:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV034      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 5.204926 | 5.298553 | 5.186546 |
| Stddev | .140807  | .129096  | .091507  |
| %RSD   | 2.705259 | 2.436445 | 1.764312 |
| #1     | 5.146172 | 5.241566 | 5.140517 |
| #2     | 5.103012 | 5.207757 | 5.127193 |
| #3     | 5.365595 | 5.446338 | 5.291929 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 721.7971 | 21523.98 | 4691.380 | 561.6809 | 1251.700 |
| Stddev    | 1.6201   | 36.04    | 114.218  | 1.5650   | .528     |
| %RSD      | .2244494 | .1674269 | 2.434628 | .2786300 | .0421669 |
| #1        | 719.9849 | 21485.15 | 4740.672 | 563.4604 | 1252.295 |
| #2        | 723.1053 | 21556.35 | 4772.674 | 561.0639 | 1251.513 |
| #3        | 722.3012 | 21530.45 | 4560.793 | 560.5184 | 1251.291 |

Sample Name: CCB034      Acquired: 11/20/2024 13:05:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB034      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002854 | .0002201 | .0019670 | .0017456 | .0020295 | .0082581 | -.001863 |
| Stddev | .005194  | .0004813 | .0034730 | .0033684 | .0027008 | .0146541 | .000616  |
| %RSD   | 181.9997 | 218.7079 | 176.5648 | 192.9676 | 133.0762 | 177.4507 | 33.08741 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.007266 | .0001216 | .0039625 | .0003093 | .0008001 | -.005053 | -.001441 |
| #2 | .002871  | -.000204 | -.002043 | -.000667 | .0051263 | .023961  | -.001578 |
| #3 | -.004168 | .000743  | .003982  | .005594  | .0001621 | .005866  | -.002570 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000407 | -.000049 | -.005844 | .0014127 | .0002000 | -.000044 | .0070685 |
| Stddev | .0000316 | .000116  | .008904  | .0006557 | .0002773 | .001949  | .0212694 |
| %RSD   | 77.47659 | 235.1306 | 152.3522 | 46.41204 | 138.6256 | 4466.868 | 300.9029 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000385 | .000076  | -.001939 | .0006584 | -.000118 | -.000893 | .0256683 |
| #2 | .0000103 | -.000071 | .000439  | .0018459 | .000330  | -.001423 | -.016121 |
| #3 | .0000733 | -.000154 | -.016034 | .0017338 | .000388  | .002186  | .011658  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0006386 | -.008757 | .0013771 | -.006251 | -.185311 | -.001096 | -.000646 |
| Stddev | .0001605 | .013368  | .0000564 | .000299  | .239607  | .005726  | .000338  |
| %RSD   | 25.13099 | 152.6531 | 4.098169 | 4.786538 | 129.2998 | 522.2342 | 52.28350 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0006692 | -.017450 | .0013961 | -.006012 | -.351758 | .004059  | -.001018 |
| #2 | .0007816 | -.015458 | .0014215 | -.006154 | .089310  | -.007259 | -.000560 |
| #3 | .0004650 | .006636  | .0013136 | -.006587 | -.293486 | -.000090 | -.000359 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.527083 | -.001537 | .0028891 | .0005406 | .0017059 | .0007717 | -.002068 |
| Stddev | .143915  | .000441  | .0016013 | .0003166 | .0026258 | .0003163 | .001501  |
| %RSD   | 27.30410 | 28.67350 | 55.42396 | 58.57428 | 153.9224 | 40.98449 | 72.59083 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.371114 | -.002027 | .0038181 | .0002353 | -.000790 | .0011367 | -.000385 |
| #2 | -.555400 | -.001173 | .0010402 | .0005189 | .001462  | .0005991 | -.003269 |
| #3 | -.654736 | -.001412 | .0038092 | .0008674 | .004445  | .0005793 | -.002549 |

Sample Name: CCB034      Acquired: 11/20/2024 13:05:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB034      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000415 | -.004592 | .0000763 |
| Stddev | .000787  | .001102  | .0001128 |
| %RSD   | 189.8124 | 23.99413 | 147.6921 |
| #1     | -.000662 | -.005695 | .0001245 |
| #2     | .000466  | -.003491 | .0001570 |
| #3     | -.001049 | -.004590 | -.000053 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 923.8095 | 25295.02 | 4914.063 | 763.2502 | 1764.714 |
| Stddev    | .8823    | 81.96    | 11.376   | 6.8150   | 1.836    |
| %RSD      | .0955059 | .3240007 | .2314977 | .8928976 | .1040279 |
| #1        | 922.9850 | 25273.06 | 4901.189 | 756.7258 | 1764.838 |
| #2        | 924.7400 | 25226.29 | 4922.761 | 762.7021 | 1762.819 |
| #3        | 923.7035 | 25385.72 | 4918.239 | 770.3228 | 1766.484 |



Sample Name: P4880-22      Acquired: 11/20/2024 13:09:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH97      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002294 | .0031242 | .0016418 | .0007693 | -.000930 | .0171278 |
| Stddev | .003956  | .0028136 | .0013886 | .0016077 | .002137  | .0083466 |
| %RSD   | 172.4455 | 90.05828 | 84.57869 | 208.9699 | 229.6418 | 48.73119 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.001126 | .0063694 | .0016515 | .0016770 | -.000448 | .0085959 |
| #2 | -.006703 | .0013677 | .0030256 | -.001087 | -.003267 | .0252758 |
| #3 | .000946  | .0016355 | .0002484 | .001718  | .000923  | .0175116 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000207 | -.000035 | -.000029 | .1400866 | .0017785 | .0005281 |
| Stddev | .000411  | .000054  | .000069  | .0034888 | .0004580 | .0003172 |
| %RSD   | 198.7918 | 153.9537 | 236.0163 | 2.490459 | 25.75312 | 60.05513 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000654 | .000002  | .000008  | .1428082 | .0012496 | .0002827 |
| #2 | .000154  | -.000010 | -.000109 | .1412980 | .0020474 | .0008863 |
| #3 | -.000120 | -.000097 | .000013  | .1361535 | .0020384 | .0004154 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000164 | .5715670 | .0139021 | .0239857 | .0188514 | -.007221 |
| Stddev | .002443  | .0105971 | .0001575 | .0390137 | .0003591 | .000160  |
| %RSD   | 1492.346 | 1.854042 | 1.132567 | 162.6540 | 1.905035 | 2.218096 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.001274 | .5617170 | .0137217 | .0450933 | .0190146 | -.007043 |
| #2 | -.001854 | .5702046 | .0140117 | -.021034 | .0184397 | -.007269 |
| #3 | .002637  | .5827794 | .0139729 | .047898  | .0191000 | -.007353 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698     | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1403678 | .0003894 | -.000723 | F -4.54560 | .0025441 | -.004458 |
| Stddev | .5131777 | .0024433 | .000247  | .09082     | .0023909 | .001262  |
| %RSD   | 365.5950 | 627.4256 | 34.18180 | 1.997903   | 93.97878 | 28.31958 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3729917 | -.002137 | -.000721 | -4.44133 | .0045508 | -.003084 |
| #2 | .4960368 | .002740  | -.000972 | -4.58812 | -.000101 | -.005566 |
| #3 | -.447925 | .000565  | -.000477 | -4.60736 | .003183  | -.004724 |

Sample Name: P4880-22      Acquired: 11/20/2024 13:09:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH97      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002742 | -.002324 | .0221474 | -.003023 | -.000639 | -.014246 |
| Stddev | .0000334 | .008125  | .0008884 | .001477  | .000781  | .000349  |
| %RSD   | 12.18274 | 349.6633 | 4.011132 | 48.86437 | 122.1545 | 2.448088 |
| #1     | .0003127 | .006565  | .0218696 | -.004422 | -.001527 | -.013995 |
| #2     | .0002553 | -.009367 | .0231415 | -.003168 | -.000058 | -.014644 |
| #3     | .0002544 | -.004169 | .0214311 | -.001478 | -.000333 | -.014099 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .0004722 |
| Stddev | .0000658 |
| %RSD   | 13.93506 |
| #1     | .0004336 |
| #2     | .0004348 |
| #3     | .0005482 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 982.4660 | 26536.26 | 5078.823 | 811.0303 | 1893.040 |
| Stddev    | 1.5535   | 21.22    | 2.878    | 1.6462   | 3.190    |
| %RSD      | .1581258 | .0799716 | .0566733 | .2029767 | .1685359 |
| #1        | 984.1364 | 26538.31 | 5081.832 | 811.7278 | 1896.716 |
| #2        | 982.1971 | 26514.09 | 5078.539 | 812.2130 | 1890.993 |
| #3        | 981.0644 | 26556.38 | 5076.096 | 809.1502 | 1891.411 |

Sample Name: P4907-18      Acquired: 11/20/2024 13:14:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHF0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.003850 | -.000240 | .0003128 | .0026690 | .0004683 | .0190819 |
| Stddev | .003689  | .001726  | .0011399 | .0032460 | .0010524 | .0116359 |
| %RSD   | 95.81183 | 720.3355 | 364.4301 | 121.6160 | 224.7345 | 60.97872 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.008015 | -.001437 | .0010848 | -.000993 | -.000645 | .0061642 |
| #2 | -.000992 | .001739  | -.000996 | .005191  | .000603  | .0287413 |
| #3 | -.002544 | -.001021 | .000850  | .003809  | .001447  | .0223404 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002125 | -.000068 | .0000073 | .1007402 | .0003410 | .0000218 |
| Stddev | .000791  | .000035  | .0000509 | .0016629 | .0016318 | .0002974 |
| %RSD   | 37.24830 | 50.85825 | 700.7090 | 1.650707 | 478.5801 | 1366.296 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.001924 | -.000045 | .0000537 | .1003118 | -.001438 | .0003339 |
| #2 | -.001453 | -.000108 | .0000152 | .0993335 | .001767  | -.000258 |
| #3 | -.002997 | -.000052 | -.000047 | .1025755 | .000694  | -.000010 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0019630 | .5667089 | .0072130 | .0199969 | .0024012 | -.007951 |
| Stddev | .0021604 | .0111627 | .0002571 | .0164260 | .0005933 | .000520  |
| %RSD   | 110.0544 | 1.969737 | 3.563964 | 82.14269 | 24.70763 | 6.545945 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0042734 | .5538388 | .0072586 | .0014800 | .0030827 | -.008496 |
| #2 | .0016225 | .5725319 | .0074442 | .0256979 | .0019992 | -.007459 |
| #3 | -.000007 | .5737561 | .0069362 | .0328130 | .0021219 | -.007898 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698     | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .4456318 | .0005138 | -.001624 | F -4.70688 | .0068231 | -.004035 |
| Stddev | .1613602 | .0050682 | .000278  | .04410     | .0005425 | .001585  |
| %RSD   | 36.20931 | 986.3411 | 17.08676 | .9369735   | 7.951181 | 39.27365 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2941960 | .0057007 | -.001864 | -4.66108 | .0062001 | -.005542 |
| #2 | .6153578 | -.004427 | -.001320 | -4.71050 | .0071908 | -.004182 |
| #3 | .4273417 | .000267  | -.001689 | -4.74906 | .0070786 | -.002382 |

Sample Name: P4907-18      Acquired: 11/20/2024 13:14:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHF0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002393 | -.000061 | .0254446 | -.003110 | .0006774 | -.015581 |
| Stddev | .0001909 | .002545  | .0004621 | .001265  | .0009509 | .000972  |
| %RSD   | 79.79646 | 4158.637 | 1.816018 | 40.68367 | 140.3720 | 6.240148 |
| #1     | .0001145 | .002356  | .0250368 | -.002752 | .0001684 | -.015086 |
| #2     | .0001443 | .000179  | .0253507 | -.004516 | .0000894 | -.016702 |
| #3     | .0004591 | -.002718 | .0259465 | -.002062 | .0017746 | -.014957 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .0000358 |
| Stddev | .0000295 |
| %RSD   | 82.32405 |
| #1     | .0000034 |
| #2     | .0000432 |
| #3     | .0000610 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 976.9989 | 26549.16 | 5094.423 | 809.8650 | 1875.274 |
| Stddev    | 2.4310   | 137.49   | 6.401    | 3.8042   | 4.830    |
| %RSD      | .2488184 | .5178753 | .1256432 | .4697340 | .2575804 |
| #1        | 976.6103 | 26695.22 | 5089.943 | 814.2437 | 1876.915 |
| #2        | 979.6008 | 26422.24 | 5091.571 | 807.9797 | 1879.070 |
| #3        | 974.7857 | 26530.01 | 5101.754 | 807.3717 | 1869.837 |

Sample Name: P4907-19      Acquired: 11/20/2024 13:19:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHF1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000744 | -.000084 | .0008475 | .0001273 | -.001143 | .0062829 |
| Stddev | .004648  | .002622  | .0010035 | .0046114 | .000514  | .0200135 |
| %RSD   | 625.0778 | 3128.566 | 118.4073 | 3623.352 | 45.01914 | 318.5380 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.006110 | -.003090 | .0005347 | .0049132 | -.000688 | .0288997 |
| #2 | .001900  | .001730  | .0000376 | -.004287 | -.001701 | -.000914 |
| #3 | .001980  | .001108  | .0019702 | -.000244 | -.001039 | -.009137 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002405 | -.000143 | -.000052 | .0618555 | .0015089 | -.000687 |
| Stddev | .000732  | .000150  | .000129  | .0097418 | .0004285 | .000194  |
| %RSD   | 30.43616 | 104.9142 | 248.1155 | 15.74922 | 28.39699 | 28.19509 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.003245 | -.000307 | -.000164 | .0678429 | .0014086 | -.000865 |
| #2 | -.001906 | -.000107 | .000089  | .0506147 | .0019786 | -.000481 |
| #3 | -.002063 | -.000014 | -.000082 | .0671090 | .0011394 | -.000715 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001309 | .0918032 | .0020206 | .0055659 | .0011331 | -.008254 |
| Stddev | .002252  | .0075543 | .0004447 | .0033121 | .0003295 | .000173  |
| %RSD   | 171.9822 | 8.228739 | 22.00674 | 59.50765 | 29.07634 | 2.101813 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.002044 | .0913410 | .0023685 | .0030243 | .0014363 | -.008337 |
| #2 | -.003102 | .0844907 | .0015196 | .0043618 | .0007825 | -.008371 |
| #3 | .001218  | .0995779 | .0021737 | .0093116 | .0011806 | -.008055 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698     | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .5611083 | -.001993 | -.001381 | F -4.78383 | .0402731 | -.005302 |
| Stddev | .5512992 | .002573  | .000179  | .18083     | .0014184 | .000921  |
| %RSD   | 98.25184 | 129.0883 | 12.93825 | 3.779936   | 3.521907 | 17.36283 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .7735693 | -.001204 | -.001418 | -4.59293 | .0411097 | -.004989 |
| #2 | .9745662 | -.004869 | -.001538 | -4.80604 | .0410742 | -.004579 |
| #3 | -.064811 | .000092  | -.001186 | -4.95253 | .0386355 | -.006338 |

Sample Name: P4907-19      Acquired: 11/20/2024 13:19:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHF1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0003309 | -.000070 | .0255259 | -.001137 | -.000157 | -.013214 |
| Stddev | .0003796 | .011940  | .0005026 | .000888  | .001519  | .001082  |
| %RSD   | 114.7078 | 17064.30 | 1.969177 | 78.11348 | 966.6962 | 8.185538 |
| #1     | .0005677 | -.009149 | .0258980 | -.001111 | -.000032 | -.013618 |
| #2     | .0005319 | -.004516 | .0257256 | -.000262 | .001296  | -.014035 |
| #3     | -.000107 | .013455  | .0249541 | -.002038 | -.001735 | -.011988 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .0000076 |
| Stddev | .0000965 |
| %RSD   | 1263.889 |
| #1     | .0000133 |
| #2     | -.000092 |
| #3     | .000101  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 971.6800 | 26459.78 | 5115.307 | 810.4978 | 1863.381 |
| Stddev    | 3.4026   | 26.75    | 8.297    | 2.2643   | 3.048    |
| %RSD      | .3501790 | .1010811 | .1621943 | .2793755 | .1635842 |
| #1        | 973.3683 | 26488.54 | 5123.857 | 813.0491 | 1863.217 |
| #2        | 973.9082 | 26455.16 | 5107.289 | 808.7268 | 1866.507 |
| #3        | 967.7634 | 26435.65 | 5114.775 | 809.7175 | 1860.418 |

Sample Name: PB165068BL      Acquired: 11/20/2024 13:23:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBW068      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002822 | .0020716 | .0010641 | .0028358 | .0015973 | .0074791 | -.002904 |
| Stddev | .004038  | .0026832 | .0015989 | .0034422 | .0011260 | .0037469 | .000076  |
| %RSD   | 143.0677 | 129.5275 | 150.2604 | 121.3870 | 70.49457 | 50.09767 | 2.613145 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .001621  | .0044420 | .0004605 | .0050624 | .0014673 | .0115373 | -.002912 |
| #2 | -.006266 | -.000842 | .0028769 | .0045738 | .0005420 | .0067491 | -.002976 |
| #3 | -.003822 | .002614  | -.000145 | -.001129 | .0027828 | .0041510 | -.002825 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000048 | -.000174 | -.006098 | .0007095 | .0000259 | .0006243 | .0016146 |
| Stddev | .0000742 | .000088  | .010110  | .0011712 | .0004327 | .0035732 | .0083634 |
| %RSD   | 1542.312 | 50.84005 | 165.7870 | 165.0788 | 1674.147 | 572.3921 | 517.9726 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000874 | -.000076 | .000116  | -.000184 | -.000468 | .0047466 | .0057751 |
| #2 | -.000056 | -.000249 | -.017764 | .000277  | .000340  | -.001288 | -.008013 |
| #3 | -.000017 | -.000197 | -.000647 | .002035  | .000206  | -.001586 | .007082  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001386 | -.031677 | .0004464 | -.006382 | -.025708 | -.001466 | -.001415 |
| Stddev | .0003138 | .046210  | .0003532 | .000146  | .152868  | .003118  | .000794  |
| %RSD   | 226.4327 | 145.8779 | 79.12846 | 2.287788 | 594.6222 | 212.7340 | 56.12643 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0004822 | -.006393 | .0008404 | -.006235 | .041978  | .001939  | -.002332 |
| #2 | .0000664 | -.085011 | .0003405 | -.006384 | .081630  | -.004180 | -.000922 |
| #3 | -.000133 | -.003626 | .0001582 | -.006527 | -.200734 | -.002156 | -.000993 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.742159 | -.001454 | -.005367 | .0000888 | -.003655 | .0009281 | -.002634 |
| Stddev | .203421  | .002762  | .001168  | .0000993 | .004833  | .0002756 | .001426  |
| %RSD   | 27.40933 | 189.9791 | 21.75951 | 111.8074 | 132.2575 | 29.69504 | 54.15147 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.920717 | -.004422 | -.005564 | -.000026 | -.005739 | .0010611 | -.002354 |
| #2 | -.785046 | -.000982 | -.006424 | .000139  | -.007096 | .0006113 | -.004179 |
| #3 | -.520714 | .001042  | -.004113 | .000153  | .001871  | .0011121 | -.001369 |

Sample Name: PB165068BL      Acquired: 11/20/2024 13:23:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBW068      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000717 | -.008663 | -.000051 |
| Stddev | .000313  | .001269  | .000091  |
| %RSD   | 43.69938 | 14.65167 | 176.8770 |
| #1     | -.001063 | -.007721 | -.000092 |
| #2     | -.000453 | -.010106 | -.000114 |
| #3     | -.000635 | -.008162 | .000053  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 919.7042 | 25246.67 | 4866.921 | 765.6099 | 1754.162 |
| Stddev    | .8104    | 38.36    | 88.705   | 6.7367   | 2.587    |
| %RSD      | .0881186 | .1519596 | 1.822602 | .8799172 | .1474603 |
| #1        | 920.4720 | 25246.46 | 4920.168 | 762.7795 | 1751.934 |
| #2        | 919.7835 | 25208.42 | 4916.075 | 760.7500 | 1756.999 |
| #3        | 918.8570 | 25285.14 | 4764.521 | 773.3000 | 1753.554 |



Sample Name: PB165068BS      Acquired: 11/20/2024 13:28:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS068      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0154152 | .0542350 | .0200858 | .0732918 | .1110778 | .4040626 |
| Stddev | .0060527 | .0016126 | .0024713 | .0127390 | .0029083 | .0127777 |
| %RSD   | 39.26479 | 2.973289 | 12.30368 | 17.38115 | 2.618285 | 3.162294 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0085005 | .0540216 | .0197032 | .0854261 | .1111382 | .3893085 |
| #2 | .0179914 | .0559436 | .0227260 | .0600240 | .1081397 | .4115209 |
| #3 | .0197536 | .0527397 | .0178281 | .0744252 | .1139554 | .4113583 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4202861 | .0105241 | .0102309 | 10.80572 | .0218924 | .1004135 |
| Stddev | .0054884 | .0000854 | .0001438 | .17017   | .0012751 | .0004833 |
| %RSD   | 1.305883 | .8116383 | 1.405506 | 1.574794 | 5.824366 | .4813440 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4140712 | .0104281 | .0101213 | 10.61244 | .0205473 | .0999369 |
| #2 | .4223194 | .0105523 | .0103937 | 10.87170 | .0220463 | .1004002 |
| #3 | .4244677 | .0105918 | .0101776 | 10.93301 | .0230835 | .1009033 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0518532 | .2203827 | .0343457 | 10.29138 | .0861545 | .0160958 |
| Stddev | .0007302 | .0097533 | .0008894 | .14285   | .0007695 | .0007240 |
| %RSD   | 1.408219 | 4.425605 | 2.589449 | 1.388090 | .8931868 | 4.497997 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0523406 | .2109430 | .0337978 | 10.17775 | .0854179 | .0160415 |
| #2 | .0510137 | .2197831 | .0338675 | 10.24464 | .0869532 | .0168454 |
| #3 | .0522055 | .2304219 | .0353719 | 10.45175 | .0860926 | .0154005 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.49738 | .1079610 | .1262803 | 9.410029 | .0185484 | F -.003823 |
| Stddev | .35999   | .0017518 | .0015198 | .169524  | .0026078 | .001654    |
| %RSD   | 3.429354 | 1.622664 | 1.203487 | 1.801529 | 14.05947 | 43.27173   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.77486 | .1069964 | .1268602 | 9.290654 | .0200341 | -.001989 |
| #2 | 10.09060 | .1099831 | .1274248 | 9.335363 | .0200738 | -.004277 |
| #3 | 10.62668 | .1069034 | .1245560 | 9.604069 | .0155372 | -.005203 |

Sample Name: PB165068BS      Acquired: 11/20/2024 13:28:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS068      Custom ID2:      Custom ID3:  
Comment:

|        |            |          |            |          |          |          |
|--------|------------|----------|------------|----------|----------|----------|
| Elem   | Mo2020     | S_1820   | Si2516     | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm        | ppm      | ppm        | ppm      | ppm      | ppm      |
| Avg    | F .0195384 | .1890742 | F .4579983 | .0106813 | .2073958 | .0211944 |
| Stddev | .0002221   | .0029131 | .0039904   | .0005212 | .0027325 | .0010537 |
| %RSD   | 1.136686   | 1.540711 | .8712778   | 4.879937 | 1.317508 | 4.971578 |
| #1     | .0196732   | .1921566 | .4541655   | .0108902 | .2043756 | .0203454 |
| #2     | .0192821   | .1863668 | .4576999   | .0110657 | .2081156 | .0208643 |
| #3     | .0196600   | .1886992 | .4621296   | .0100880 | .2096964 | .0223737 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2118761 |
| Stddev | .0026445 |
| %RSD   | 1.248129 |
| #1     | .2089221 |
| #2     | .2126833 |
| #3     | .2140229 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 913.3341 | 24896.51 | 4948.763 | 759.2850 | 1688.765 |
| Stddev    | 1.3390   | 45.14    | 49.770   | 2.9567   | 3.754    |
| %RSD      | .1466086 | .1813066 | 1.005711 | .3894073 | .2222992 |
| #1        | 914.8728 | 24887.21 | 5000.627 | 761.4044 | 1687.889 |
| #2        | 912.6964 | 24856.74 | 4944.272 | 755.9073 | 1685.526 |
| #3        | 912.4331 | 24945.57 | 4901.391 | 760.5434 | 1692.879 |

Sample Name: P4879-01      Acquired: 11/20/2024 13:32:36      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0845682 | -.007759 | .0418828 | -.006517 | .0075644 | 18.14556 |
| Stddev | .0108139 | .004620  | .0047912 | .006219  | .0029016 | .04074   |
| %RSD   | 12.78723 | 59.53924 | 11.43961 | 95.43226 | 38.35936 | .2244928 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0756652 | -.002937 | .0434775 | -.010212 | .0067590 | 18.11382 |
| #2 | .0814371 | -.012145 | .0456733 | -.010002 | .0051505 | 18.19150 |
| #3 | .0966021 | -.008196 | .0364976 | .000663  | .0107836 | 18.13137 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .7745610 | .0012699 | .0045161 | F 1419.766 | .0336643 | .0415758 |
| Stddev | .0008487 | .0001723 | .0000885 | 9.596      | .0003883 | .0001620 |
| %RSD   | .1095707 | 13.57032 | 1.959765 | .6758574   | 1.153404 | .3895439 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .7749545 | .0010776 | .0044636 | 1429.950 | .0332226 | .0416432 |
| #2 | .7751414 | .0014103 | .0044664 | 1410.894 | .0338185 | .0413910 |
| #3 | .7735869 | .0013217 | .0046183 | 1418.455 | .0339518 | .0416931 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0475233 | 92.32520 | 6.629914 | 572.3090 | .0892535 | .0153018 |
| Stddev | .0026672 | .18288   | .011853  | 1.5923   | .0008050 | .0012841 |
| %RSD   | 5.612291 | .1980846 | .1787746 | .2782294 | .9019795 | 8.391971 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0480133 | 92.12305 | 6.639820 | 570.8468 | .0892549 | .0142562 |
| #2 | .0499114 | 92.47917 | 6.633139 | 574.0055 | .0884478 | .0149141 |
| #3 | .0446451 | 92.37337 | 6.616782 | 572.0747 | .0900579 | .0167351 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.786014 | .0815269 | .1904788 | 1.511329 | 2.508971 | .1614397 |
| Stddev | .471777  | .0046204 | .0018241 | .067718  | .003309  | .0021237 |
| %RSD   | 26.41508 | 5.667290 | .9576159 | 4.480678 | .1319060 | 1.315475 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.389108 | .0761975 | .1896902 | 1.513660 | 2.505253 | .1624101 |
| #2 | 2.307612 | .0839769 | .1891817 | 1.577851 | 2.510064 | .1629048 |
| #3 | 1.661323 | .0844063 | .1925645 | 1.442476 | 2.511596 | .1590041 |

Sample Name: P4879-01      Acquired: 11/20/2024 13:32:36      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0143602 | 7.294566 | 4.391640 | -.006191 | .3374666 | .0545782 |
| Stddev | .0002450 | .029244  | .005684  | .002513  | .0035632 | .0002887 |
| %RSD   | 1.706005 | .4008976 | .1294266 | 40.59775 | 1.055877 | .5288681 |
| #1     | .0142966 | 7.264502 | 4.398021 | -.006920 | .3350819 | .0548809 |
| #2     | .0146308 | 7.322914 | 4.387118 | -.003394 | .3415627 | .0545478 |
| #3     | .0141534 | 7.296283 | 4.389783 | -.008260 | .3357552 | .0543060 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.050355 |
| Stddev | .002642  |
| %RSD   | .2515674 |
| #1     | 1.050651 |
| #2     | 1.052836 |
| #3     | 1.047577 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 783.2533 | 21613.14 | 4761.007 | 640.9647 | 1189.798 |
| Stddev    | 1.5018   | 245.51   | 11.975   | 6.9329   | 1.817    |
| %RSD      | .1917387 | 1.135922 | .2515166 | 1.081639 | .1526985 |
| #1        | 784.6597 | 21728.51 | 4749.278 | 645.2000 | 1187.860 |
| #2        | 783.4289 | 21779.71 | 4773.213 | 644.7303 | 1190.072 |
| #3        | 781.6715 | 21331.20 | 4760.532 | 632.9638 | 1191.462 |

Sample Name: P4879-02      Acquired: 11/20/2024 13:37:12      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0819041 | -.007349 | .0377412 | -.006080 | .0061735 | 18.48175 |
| Stddev | .0162400 | .003677  | .0092420 | .008021  | .0026012 | .15644   |
| %RSD   | 19.82811 | 50.03646 | 24.48780 | 131.9168 | 42.13387 | .8464345 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0883628 | -.005280 | .0274895 | -.001062 | .0033783 | 18.30217 |
| #2 | .0939212 | -.005172 | .0403000 | -.001848 | .0066193 | 18.55469 |
| #3 | .0634284 | -.011594 | .0454343 | -.015331 | .0085230 | 18.58841 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2230640 | .0010736 | .0034985 | F 1973.867 | .0368092 | .0245460 |
| Stddev | .0016589 | .0000794 | .0002960 | 20.344     | .0005337 | .0001288 |
| %RSD   | .7437025 | 7.394446 | 8.461348 | 1.030661   | 1.450023 | .5247151 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2212872 | .0011472 | .0038160 | 1951.488 | .0371438 | .0246850 |
| #2 | .2245724 | .0009895 | .0034492 | 1991.241 | .0370901 | .0245223 |
| #3 | .2233323 | .0010842 | .0032302 | 1978.873 | .0361937 | .0244307 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0430919 | 77.09869 | 3.836336 | 796.8161 | .0707804 | .0254743 |
| Stddev | .0006984 | .62442   | .028408  | 7.2317   | .0013136 | .0008980 |
| %RSD   | 1.620791 | .8099025 | .7405053 | .9075688 | 1.855882 | 3.524934 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0428676 | 76.38394 | 3.808638 | 788.4666 | .0709185 | .0251070 |
| #2 | .0438750 | 77.37394 | 3.865405 | 800.8832 | .0694032 | .0264977 |
| #3 | .0425333 | 77.53821 | 3.834965 | 801.0984 | .0720195 | .0248182 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.238068 | .0711293 | .1786319 | 1.521717 | 2.633541 | .1675358 |
| Stddev | .181363  | .0078159 | .0024646 | .042659  | .006229  | .0002017 |
| %RSD   | 8.103549 | 10.98824 | 1.379687 | 2.803347 | .2365431 | .1204036 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.254397 | .0713170 | .1762840 | 1.569692 | 2.637815 | .1675883 |
| #2 | 2.049093 | .0632213 | .1811986 | 1.488055 | 2.636414 | .1677061 |
| #3 | 2.410715 | .0788497 | .1784132 | 1.507405 | 2.626394 | .1673130 |

Sample Name: P4879-02      Acquired: 11/20/2024 13:37:12      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0131311 | 8.987837 | 3.944236 | .0000840 | .3543694 | .0599107 |
| Stddev | .0011199 | .007521  | .021579  | .0033153 | .0024891 | .0011283 |
| %RSD   | 8.528298 | .0836828 | .5470904 | 3945.711 | .7023992 | 1.883234 |
| #1     | .0139576 | 8.980388 | 3.920139 | .0028974 | .3517658 | .0586194 |
| #2     | .0118566 | 8.987694 | 3.950796 | .0009257 | .3567256 | .0604072 |
| #3     | .0135790 | 8.995429 | 3.961774 | -.003571 | .3546167 | .0607057 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.707228 |
| Stddev | .012569  |
| %RSD   | .7362126 |
| #1     | 1.693207 |
| #2     | 1.717486 |
| #3     | 1.710990 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 749.6513 | 20796.86 | 4681.138 | 617.4103 | 1129.889 |
| Stddev    | .8757    | 56.51    | 31.659   | 3.7996   | 1.954    |
| %RSD      | .1168205 | .2717037 | .6763194 | .6154153 | .1729300 |
| #1        | 749.3087 | 20831.42 | 4717.404 | 619.2197 | 1128.284 |
| #2        | 750.6466 | 20731.65 | 4659.013 | 613.0441 | 1132.065 |
| #3        | 748.9987 | 20827.51 | 4666.998 | 619.9671 | 1129.319 |

Sample Name: P4879-03      Acquired: 11/20/2024 13:41:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0884135 | -.005036 | .0464587 | -.009213 | .0025043 | 13.94521 |
| Stddev | .0029441 | .004340  | .0028065 | .010088  | .0028061 | .01472   |
| %RSD   | 3.329958 | 86.19115 | 6.040914 | 109.4892 | 112.0470 | .1055798 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0917127 | -.003406 | .0496275 | -.002419 | .0050687 | 13.96219 |
| #2 | .0860535 | -.001746 | .0442862 | -.020804 | .0029373 | 13.93612 |
| #3 | .0874744 | -.009955 | .0454624 | -.004417 | -.000493 | 13.93731 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1502444 | .0010891 | .0029808 | F 1380.532 | .0307248 | .0190369 |
| Stddev | .0007897 | .0001831 | .0001137 | 1.272      | .0001592 | .0001863 |
| %RSD   | .5255926 | 16.81471 | 3.814969 | .0921273   | .5182541 | .9787067 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1504533 | .0009495 | .0029050 | 1379.698 | .0308738 | .0192499 |
| #2 | .1493713 | .0010214 | .0031115 | 1379.902 | .0305570 | .0189570 |
| #3 | .1509087 | .0012965 | .0029258 | 1381.996 | .0307435 | .0189039 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0614877 | 74.36362 | 2.075820 | 548.6592 | .0596987 | .0156225 |
| Stddev | .0017647 | .18152   | .008763  | .3474    | .0003885 | .0005458 |
| %RSD   | 2.869926 | .2441018 | .4221544 | .0633113 | .6506923 | 3.493921 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0630236 | 74.54965 | 2.078322 | 548.3123 | .0593047 | .0162479 |
| #2 | .0618794 | 74.18697 | 2.066078 | 548.6584 | .0597102 | .0152418 |
| #3 | .0595601 | 74.35424 | 2.083059 | 549.0070 | .0600813 | .0153779 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.886857 | .0702998 | .1518260 | 1.194483 | 2.085221 | .1277980 |
| Stddev | .062880  | .0024200 | .0008163 | .144883  | .007232  | .0004815 |
| %RSD   | 3.332551 | 3.442366 | .5376187 | 12.12936 | .3468000 | .3767388 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.816784 | .0683296 | .1512001 | 1.328927 | 2.090579 | .1281130 |
| #2 | 1.905421 | .0730010 | .1515287 | 1.213486 | 2.088087 | .1272438 |
| #3 | 1.938365 | .0695690 | .1527493 | 1.041036 | 2.076995 | .1280372 |

Sample Name: P4879-03      Acquired: 11/20/2024 13:41:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0148215 | 8.189514 | 3.786380 | -.001014 | .7004531 | .0373979 |
| Stddev | .0002751 | .035937  | .012907  | .004089  | .0016039 | .0006421 |
| %RSD   | 1.856288 | .4388141 | .3408731 | 403.0472 | .2289772 | 1.717034 |
| #1     | .0146547 | 8.219792 | 3.800420 | -.000199 | .6995028 | .0380068 |
| #2     | .0151391 | 8.198950 | 3.775031 | -.005450 | .6995516 | .0367270 |
| #3     | .0146708 | 8.149801 | 3.783689 | .002605  | .7023049 | .0374598 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.101658 |
| Stddev | .003788  |
| %RSD   | .3438888 |
| #1     | 1.105082 |
| #2     | 1.097588 |
| #3     | 1.102305 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 771.8384 | 21593.35 | 4775.637 | 643.4026 | 1191.802 |
| Stddev    | 2.8296   | 54.11    | 10.377   | 1.7421   | 1.761    |
| %RSD      | .3666079 | .2505984 | .2172985 | .2707675 | .1477203 |
| #1        | 774.7734 | 21569.31 | 4764.407 | 644.3978 | 1192.334 |
| #2        | 769.1275 | 21555.43 | 4784.872 | 644.4189 | 1189.837 |
| #3        | 771.6143 | 21655.32 | 4777.631 | 641.3910 | 1193.235 |



Sample Name: P4879-04      Acquired: 11/20/2024 13:46:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0998517 | -.005825 | .0568388 | -.009537 | .0068309 | 20.58003 |
| Stddev | .0070292 | .006453  | .0044953 | .007522  | .0007128 | .09553   |
| %RSD   | 7.039652 | 110.7768 | 7.908826 | 78.87381 | 10.43535 | .4641779 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1079651 | -.004464 | .0615662 | -.008411 | .0067476 | 20.63739 |
| #2 | .0959923 | -.000162 | .0563314 | -.017559 | .0075817 | 20.46975 |
| #3 | .0955976 | -.012850 | .0526187 | -.002641 | .0061634 | 20.63295 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2221396 | .0014033 | .0039218 | F 1509.439 | .0321484 | .0243423 |
| Stddev | .0010615 | .0001269 | .0001943 | 19.762     | .0006294 | .0003728 |
| %RSD   | .4778316 | 9.044023 | 4.954003 | 1.309261   | 1.957809 | 1.531531 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2233611 | .0013993 | .0039248 | 1530.953 | .0314673 | .0247713 |
| #2 | .2214405 | .0012785 | .0037261 | 1492.093 | .0322694 | .0241590 |
| #3 | .2216174 | .0015322 | .0041146 | 1505.272 | .0327085 | .0240966 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0625823 | 86.03328 | 2.877488 | 596.9303 | .0727658 | .0158206 |
| Stddev | .0009812 | .44559   | .023899  | 3.2079   | .0000357 | .0004501 |
| %RSD   | 1.567938 | .5179251 | .8305366 | .5374049 | .0490762 | 2.844796 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0625603 | 86.18314 | 2.903722 | 598.8627 | .0727744 | .0154289 |
| #2 | .0635744 | 85.53208 | 2.871784 | 593.2272 | .0727266 | .0157207 |
| #3 | .0616122 | 86.38461 | 2.856958 | 598.7008 | .0727964 | .0163122 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.311745 | .0772510 | .2178597 | 1.884148 | 2.504839 | .1392488 |
| Stddev | .188910  | .0009259 | .0018447 | .098692  | .007912  | .0021274 |
| %RSD   | 8.171751 | 1.198547 | .8467126 | 5.238027 | .3158799 | 1.527784 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.518757 | .0780083 | .2173770 | 1.954943 | 2.496239 | .1417011 |
| #2 | 2.267791 | .0775259 | .2198977 | 1.926089 | 2.511810 | .1378978 |
| #3 | 2.148687 | .0762187 | .2163044 | 1.771413 | 2.506469 | .1381475 |

Sample Name: P4879-04      Acquired: 11/20/2024 13:46:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0144833 | 7.836081 | 5.475304 | -.002651 | .4020674 | .0557192 |
| Stddev | .0011669 | .020128  | .072750  | .004672  | .0017228 | .0004014 |
| %RSD   | 8.056604 | .2568639 | 1.328702 | 176.2163 | .4284735 | .7203644 |
| #1     | .0149104 | 7.848787 | 5.557398 | -.007824 | .4040563 | .0560013 |
| #2     | .0131631 | 7.812874 | 5.418829 | .001261  | .4011068 | .0552597 |
| #3     | .0153765 | 7.846581 | 5.449684 | -.001390 | .4010392 | .0558967 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.278102 |
| Stddev | .005088  |
| %RSD   | .3981020 |
| #1     | 1.283976 |
| #2     | 1.275048 |
| #3     | 1.275284 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 779.9803 | 21781.72 | 4782.703 | 646.9189 | 1188.221 |
| Stddev    | .2931    | 46.79    | 51.715   | .9528    | 2.134    |
| %RSD      | .0375732 | .2148038 | 1.081298 | .1472829 | .1796021 |
| #1        | 779.6422 | 21777.35 | 4724.949 | 646.4699 | 1186.279 |
| #2        | 780.1360 | 21830.55 | 4824.728 | 646.2734 | 1190.506 |
| #3        | 780.1626 | 21737.28 | 4798.432 | 648.0132 | 1187.880 |

Sample Name: P4879-05      Acquired: 11/20/2024 13:50:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0579996 | -.006069 | .0844409 | -.000562 | .0034578 | 19.16685 |
| Stddev | .0135397 | .003184  | .0037185 | .008664  | .0008490 | .04067   |
| %RSD   | 23.34454 | 52.46588 | 4.403687 | 1542.795 | 24.55385 | .2121817 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0586325 | -.006039 | .0883492 | -.007246 | .0024815 | 19.21351 |
| #2 | .0441545 | -.009267 | .0840266 | -.003665 | .0040236 | 19.13894 |
| #3 | .0712118 | -.002900 | .0809469 | .009226  | .0038682 | 19.14809 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .3831210 | .0011451 | .0030319 | F 1161.673 | .0373338 | .0235512 |
| Stddev | .0018227 | .0000994 | .0000759 | 2.795      | .0004091 | .0010867 |
| %RSD   | .4757461 | 8.677269 | 2.502482 | .2405865   | 1.095690 | 4.614006 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3848650 | .0010353 | .0029560 | 1163.109 | .0375570 | .0223448 |
| #2 | .3832693 | .0012289 | .0031077 | 1158.452 | .0375827 | .0238555 |
| #3 | .3812287 | .0011710 | .0030321 | 1163.459 | .0368617 | .0244533 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0559001 | 77.23963 | 2.143588 | 354.3153 | .0652788 | .0097070 |
| Stddev | .0009789 | .26154   | .005662  | .8212    | .0009045 | .0005593 |
| %RSD   | 1.751085 | .3386061 | .2641537 | .2317823 | 1.385516 | 5.761498 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0568588 | 77.52769 | 2.149965 | 355.2632 | .0645481 | .0094601 |
| #2 | .0559392 | 77.17417 | 2.141653 | 353.8184 | .0649979 | .0093137 |
| #3 | .0549023 | 77.01705 | 2.139147 | 353.8643 | .0662904 | .0103473 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.768848 | .0732252 | .2005526 | 1.284433 | 2.729914 | .1132731 |
| Stddev | .317846  | .0045849 | .0012228 | .132556  | .009788  | .0016785 |
| %RSD   | 17.96908 | 6.261362 | .6097102 | 10.32022 | .3585443 | 1.481792 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.878480 | .0780269 | .2008468 | 1.431529 | 2.721498 | .1152105 |
| #2 | 1.410698 | .0688932 | .2016014 | 1.247538 | 2.727590 | .1123481 |
| #3 | 2.017367 | .0727556 | .1992096 | 1.174234 | 2.740655 | .1122606 |

Sample Name: P4879-05      Acquired: 11/20/2024 13:50:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0103948 | 9.455063 | 6.181120 | .0001617 | .5811921 | .0381864 |
| Stddev | .0002048 | .002669  | .020287  | .0013237 | .0040281 | .0014771 |
| %RSD   | 1.970609 | .0282233 | .3282169 | 818.6615 | .6930818 | 3.868112 |
| #1     | .0103199 | 9.457625 | 6.192789 | .0003863 | .5824572 | .0398726 |
| #2     | .0106266 | 9.455264 | 6.192877 | .0013587 | .5844358 | .0371215 |
| #3     | .0102380 | 9.452299 | 6.157694 | -.001260 | .5766833 | .0375649 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.657059 |
| Stddev | .004977  |
| %RSD   | .3003417 |
| #1     | 1.662799 |
| #2     | 1.654429 |
| #3     | 1.653949 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 811.7827 | 22613.01 | 4873.030 | 673.2758 | 1244.137 |
| Stddev    | .5599    | 37.02    | 8.347    | 3.9144   | 1.939    |
| %RSD      | .0689722 | .1637103 | .1712890 | .5814035 | .1558217 |
| #1        | 811.1680 | 22615.93 | 4873.014 | 677.2269 | 1242.780 |
| #2        | 811.9165 | 22648.48 | 4864.690 | 673.2015 | 1243.274 |
| #3        | 812.2636 | 22574.62 | 4881.384 | 669.3990 | 1246.358 |

Sample Name: P4879-06      Acquired: 11/20/2024 13:55:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0690079 | -.004233 | .0825602 | -.008625 | .0040045 | 19.21295 |
| Stddev | .0134090 | .006001  | .0098741 | .013158  | .0026391 | .02975   |
| %RSD   | 19.43112 | 141.7535 | 11.95992 | 152.5660 | 65.90327 | .1548656 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0555502 | -.010888 | .0939176 | -.008170 | .0009702 | 19.21989 |
| #2 | .0691058 | .000767  | .0777506 | -.022004 | .0057657 | 19.23862 |
| #3 | .0823676 | -.002579 | .0760124 | .004301  | .0052777 | 19.18034 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .3923109 | .0011704 | .0034444 | F 1166.583 | .0366244 | .0240509 |
| Stddev | .0011074 | .0001358 | .0001692 | 5.687      | .0009713 | .0006919 |
| %RSD   | .2822698 | 11.60183 | 4.911627 | .4874536   | 2.652061 | 2.876897 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3935824 | .0011752 | .0036350 | 1170.701 | .0376616 | .0232526 |
| #2 | .3917926 | .0010323 | .0033120 | 1168.954 | .0364756 | .0244785 |
| #3 | .3915578 | .0013037 | .0033862 | 1160.095 | .0357361 | .0244215 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0538928 | 75.83951 | 2.160765 | 359.8609 | .0658832 | .0108424 |
| Stddev | .0039054 | .20090   | .003660  | .6629    | .0007558 | .0007040 |
| %RSD   | 7.246678 | .2649019 | .1694036 | .1842199 | 1.147257 | 6.493414 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0506361 | 76.01824 | 2.162923 | 360.5644 | .0650566 | .0110499 |
| #2 | .0528197 | 75.62207 | 2.156539 | 359.2478 | .0660538 | .0100580 |
| #3 | .0582226 | 75.87822 | 2.162834 | 359.7706 | .0665391 | .0114194 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.671780 | .0720973 | .1992806 | 1.329776 | 2.767473 | .1126536 |
| Stddev | .206858  | .0032804 | .0015214 | .108809  | .004592  | .0021818 |
| %RSD   | 12.37349 | 4.549936 | .7634233 | 8.182493 | .1659243 | 1.936711 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.571637 | .0714889 | .1983752 | 1.251482 | 2.762181 | .1145981 |
| #2 | 1.534052 | .0756393 | .1984296 | 1.454023 | 2.769830 | .1130686 |
| #3 | 1.909651 | .0691637 | .2010370 | 1.283824 | 2.770408 | .1102942 |

Sample Name: P4879-06      Acquired: 11/20/2024 13:55:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0104679 | 9.754648 | 6.086268 | -.005411 | .5993339 | .0371447 |
| Stddev | .0009243 | .025172  | .056821  | .001568  | .0054825 | .0006466 |
| %RSD   | 8.829643 | .2580547 | .9335984 | 28.98260 | .9147693 | 1.740649 |
| #1     | .0098849 | 9.751166 | 6.112489 | -.004089 | .6036335 | .0378562 |
| #2     | .0099853 | 9.731398 | 6.125244 | -.005000 | .5931600 | .0365931 |
| #3     | .0115336 | 9.781380 | 6.021071 | -.007144 | .6012081 | .0369849 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.660950 |
| Stddev | .003469  |
| %RSD   | .2088586 |
| #1     | 1.662705 |
| #2     | 1.656954 |
| #3     | 1.663191 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 810.5265 | 22363.71 | 4872.167 | 663.7601 | 1240.055 |
| Stddev    | .8514    | 166.75   | 34.365   | 5.2154   | 1.793    |
| %RSD      | .1050429 | .7456223 | .7053238 | .7857380 | .1445667 |
| #1        | 811.4399 | 22325.95 | 4843.249 | 665.2133 | 1241.651 |
| #2        | 809.7549 | 22546.11 | 4863.095 | 668.0949 | 1240.399 |
| #3        | 810.3848 | 22219.09 | 4910.158 | 657.9722 | 1238.115 |

Sample Name: P4879-05LX5      Acquired: 11/20/2024 14:00:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0112353 | -.000392 | .0164826 | .0024467 | .0003441 | 3.916685 | .0782335 |
| Stddev | .0099655 | .001135  | .0021333 | .0015392 | .0036435 | .015955  | .0001771 |
| %RSD   | 88.69802 | 289.4134 | 12.94298 | 62.90818 | 1058.689 | .4073485 | .2264282 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0225385 | -.001671 | .0189444 | .0006699 | .0022108 | 3.933505 | .0780858 |
| #2 | .0037156 | .000497  | .0151760 | .0033724 | -.003854 | 3.914782 | .0781849 |
| #3 | .0074519 | -.000003 | .0153274 | .0032978 | .002676  | 3.901767 | .0784299 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002521 | .0003691 | 250.5490 | .0086405 | .0035351 | .0146032 | 16.59598 |
| Stddev | .0001226 | .0001794 | .9374    | .0005463 | .0003809 | .0028726 | .06227   |
| %RSD   | 48.64062 | 48.62297 | .3741414 | 6.322790 | 10.77431 | 19.67125 | .3752364 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0003256 | .0001869 | 251.2495 | .0081570 | .0034691 | .0119492 | 16.65386 |
| #2 | .0001105 | .0005457 | 250.9134 | .0085315 | .0031915 | .0176534 | 16.60400 |
| #3 | .0003201 | .0003746 | 249.4842 | .0092332 | .0039446 | .0142070 | 16.53009 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4658253 | 71.83953 | .0144671 | .0013911 | .4251642 | .0183983 | .0435817 |
| Stddev | .0010786 | .40487   | .0002180 | .0001576 | .2896531 | .0037609 | .0007903 |
| %RSD   | .2315438 | .5635756 | 1.506795 | 11.33177 | 68.12733 | 20.44152 | 1.813407 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4665050 | 72.30480 | .0146970 | .0015718 | .4716207 | .0148314 | .0438554 |
| #2 | .4645816 | 71.64643 | .0142634 | .0012816 | .1150907 | .0180365 | .0426909 |
| #3 | .4663892 | 71.56736 | .0144410 | .0013199 | .6887813 | .0223270 | .0441988 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.210305 | .5035211 | .0196769 | .0016061 | 1.727714 | 1.333361 | -.008467 |
| Stddev | .112858  | .0012381 | .0009832 | .0007715 | .013830  | .001683  | .003877  |
| %RSD   | 53.66401 | .2458979 | 4.996982 | 48.03411 | .8004868 | .1262387 | 45.78933 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.120936 | .5048662 | .0190458 | .0013974 | 1.738481 | 1.335024 | -.006762 |
| #2 | -.172850 | .5024289 | .0191752 | .0009605 | 1.712116 | 1.331658 | -.005735 |
| #3 | -.337128 | .5032682 | .0208098 | .0024605 | 1.732544 | 1.333401 | -.012905 |

Sample Name: P4879-05LX5      Acquired: 11/20/2024 14:00:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1221258 | .0006963 | .3465280 |
| Stddev | .0002102 | .0014871 | .0007957 |
| %RSD   | .1720885 | 213.5692 | .2296321 |
| #1     | .1222829 | .0013240 | .3473739 |
| #2     | .1222075 | -.001002 | .3464158 |
| #3     | .1218871 | .001767  | .3457944 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 876.1419 | 23922.14 | 4956.655 | 721.1257 | 1503.091 |
| Stddev    | 1.1081   | 23.28    | 21.394   | 1.1900   | 1.683    |
| %RSD      | .1264796 | .0973105 | .4316179 | .1650215 | .1119721 |
| #1        | 876.2865 | 23903.38 | 4933.713 | 721.2669 | 1501.152 |
| #2        | 874.9686 | 23914.85 | 4960.193 | 722.2388 | 1503.947 |
| #3        | 877.1707 | 23948.20 | 4976.060 | 719.8714 | 1504.173 |



Sample Name: P4879-07      Acquired: 11/20/2024 14:04:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2174336 | .1739224 | .1611380 | .3452149 | .3463631 | 27.48504 |
| Stddev | .0066605 | .0008204 | .0017181 | .0100483 | .0033261 | .02335   |
| %RSD   | 3.063234 | .4716969 | 1.066255 | 2.910734 | .9602837 | .0849444 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2202241 | .1733483 | .1593589 | .3336154 | .3477831 | 27.49481 |
| #2 | .2098317 | .1735569 | .1612671 | .3507768 | .3425628 | 27.50192 |
| #3 | .2222450 | .1748620 | .1627879 | .3512526 | .3487436 | 27.45840 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | 8.124287 | .1829517 | .1993854 | F 1141.945 | .7906007 | 2.015608 |
| Stddev | .014807  | .0004664 | .0008871 | 3.537      | .0082414 | .006278  |
| %RSD   | .1822500 | .2549526 | .4449419 | .3096936   | 1.042421 | .3114526 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 8.140359 | .1824757 | .2003118 | 1145.951 | .8000633 | 2.022747 |
| #2 | 8.121301 | .1834079 | .1985435 | 1140.624 | .7867447 | 2.010952 |
| #3 | 8.111201 | .1829716 | .1993010 | 1139.258 | .7849943 | 2.013124 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .9430813 | 79.46467 | 3.916483 | 345.5019 | 2.032991 | .1964083 |
| Stddev | .0012803 | .19022   | .009126  | .7940    | .004300  | .0024994 |
| %RSD   | .1357598 | .2393802 | .2330068 | .2298039 | .2115022 | 1.272580 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9417800 | 79.27506 | 3.924724 | 344.6544 | 2.037945 | .1992466 |
| #2 | .9443396 | 79.65550 | 3.918051 | 345.6229 | 2.030218 | .1954421 |
| #3 | .9431243 | 79.46343 | 3.906675 | 346.2285 | 2.030812 | .1945361 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.886317 | 2.016620 | 1.778221 | 1.796017 | 2.713094 | .1180595 |
| Stddev | .358893  | .003391  | .017962  | .074162  | .018425  | .0009790 |
| %RSD   | 19.02614 | .1681404 | 1.010121 | 4.129260 | .6791064 | .8292737 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.297504 | 2.013189 | 1.796458 | 1.805096 | 2.733652 | .1170146 |
| #2 | 1.636025 | 2.019969 | 1.760547 | 1.717733 | 2.707557 | .1182083 |
| #3 | 1.725421 | 2.016702 | 1.777660 | 1.865221 | 2.698073 | .1189556 |

Sample Name: P4879-07      Acquired: 11/20/2024 14:04:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X5S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0094194 | 9.364123 | 7.543901 | -.003382 | .6443321 | .0375819 |
| Stddev | .0010153 | .053216  | .022318  | .003522  | .0027699 | .0007036 |
| %RSD   | 10.77926 | .5683000 | .2958350 | 104.1442 | .4298886 | 1.872190 |
| #1     | .0105443 | 9.425570 | 7.518207 | .000672  | .6422334 | .0367713 |
| #2     | .0085708 | 9.333806 | 7.555033 | -.005690 | .6432912 | .0379394 |
| #3     | .0091431 | 9.332992 | 7.558463 | -.005129 | .6474716 | .0380349 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.632006 |
| Stddev | .001994  |
| %RSD   | .1221790 |
| #1     | 1.633821 |
| #2     | 1.632325 |
| #3     | 1.629871 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 808.7539 | 22599.10 | 4959.089 | 670.4860 | 1240.210 |
| Stddev    | 1.2025   | 210.84   | 8.889    | 7.6258   | 2.594    |
| %RSD      | .1486897 | .9329695 | .1792417 | 1.137353 | .2091575 |
| #1        | 807.7623 | 22355.93 | 4969.250 | 662.1277 | 1237.775 |
| #2        | 808.4079 | 22710.34 | 4955.263 | 677.0646 | 1242.938 |
| #3        | 810.0915 | 22731.02 | 4952.753 | 672.2655 | 1239.916 |

Sample Name: P4879-08      Acquired: 11/20/2024 14:09:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0663144 | -.009374 | .0428341 | -.008786 | .0030980 | 19.97099 |
| Stddev | .0140754 | .015984  | .0045805 | .015597  | .0027630 | .12562   |
| %RSD   | 21.22523 | 170.5049 | 10.69352 | 177.5241 | 89.18629 | .6290364 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0689212 | -.019250 | .0424126 | -.009270 | .0062479 | 19.90355 |
| #2 | .0789042 | .009067  | .0476108 | -.024135 | .0019626 | 20.11593 |
| #3 | .0511179 | -.017940 | .0384789 | .007048  | .0010836 | 19.89348 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1805559 | .0012272 | .0023288 | F 1539.492 | .0374923 | .0200684 |
| Stddev | .0006983 | .0001278 | .0002356 | 12.699     | .0014912 | .0008096 |
| %RSD   | .3867527 | 10.41154 | 10.11724 | .8248674   | 3.977418 | 4.034066 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1808115 | .0013735 | .0025803 | 1554.104 | .0391015 | .0199343 |
| #2 | .1810904 | .0011706 | .0021132 | 1533.246 | .0361570 | .0209367 |
| #3 | .1797658 | .0011376 | .0022930 | 1531.126 | .0372183 | .0193343 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0516233 | 64.81876 | 2.564191 | 521.0904 | .0580368 | .0174084 |
| Stddev | .0024619 | .34518   | .009852  | 2.9403   | .0003878 | .0003999 |
| %RSD   | 4.768918 | .5325250 | .3842077 | .5642632 | .6681839 | 2.297365 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0487866 | 64.49238 | 2.568113 | 519.3511 | .0584291 | .0170438 |
| #2 | .0532020 | 65.18007 | 2.571478 | 524.4853 | .0580276 | .0173453 |
| #3 | .0528812 | 64.78383 | 2.552982 | 519.4348 | .0576537 | .0178361 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.079122 | .0593229 | .1825296 | 1.159154 | 2.004690 | .1227644 |
| Stddev | .145207  | .0087769 | .0007774 | .094504  | .017435  | .0012232 |
| %RSD   | 6.984039 | 14.79507 | .4259031 | 8.152869 | .8697189 | .9964242 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.244300 | .0628959 | .1829309 | 1.159776 | 1.991507 | .1231594 |
| #2 | 1.971587 | .0493231 | .1830244 | 1.253346 | 1.998103 | .1213925 |
| #3 | 2.021481 | .0657497 | .1816336 | 1.064341 | 2.024459 | .1237414 |

Sample Name: P4879-08      Acquired: 11/20/2024 14:09:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0085711 | 6.040285 | 4.796835 | -.006379 | .4303905 | .0496191 |
| Stddev | .0005959 | .045977  | .028468  | .002027  | .0029742 | .0005332 |
| %RSD   | 6.952872 | .7611792 | .5934769 | 31.77701 | .6910373 | 1.074617 |
| #1     | .0092515 | 6.050493 | 4.822356 | -.004954 | .4281049 | .0490124 |
| #2     | .0083206 | 5.990062 | 4.802018 | -.008700 | .4337531 | .0500133 |
| #3     | .0081414 | 6.080300 | 4.766132 | -.005484 | .4293134 | .0498317 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.405999 |
| Stddev | .006623  |
| %RSD   | .4710627 |
| #1     | 1.401980 |
| #2     | 1.413643 |
| #3     | 1.402374 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 781.3833 | 21843.39 | 4773.137 | 650.8538 | 1199.393 |
| Stddev    | 1.7690   | 30.94    | 28.171   | 2.5169   | 3.273    |
| %RSD      | .2263882 | .1416305 | .5902088 | .3867058 | .2728824 |
| #1        | 780.1855 | 21879.09 | 4753.553 | 653.7597 | 1198.210 |
| #2        | 783.4151 | 21824.33 | 4760.434 | 649.3610 | 1203.093 |
| #3        | 780.5493 | 21826.76 | 4805.423 | 649.4408 | 1196.877 |

Sample Name: P4879-09      Acquired: 11/20/2024 14:13:41      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0797299 | -.011566 | .0434183 | -.000011 | .0063568 | 16.91509 |
| Stddev | .0117633 | .005563  | .0043507 | .006088  | .0018546 | .09716   |
| %RSD   | 14.75389 | 48.09986 | 10.02036 | 53333.96 | 29.17482 | .5743713 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0929085 | -.015801 | .0386785 | -.002959 | .0047221 | 16.83544 |
| #2 | .0702916 | -.005265 | .0472301 | -.004065 | .0059761 | 17.02333 |
| #3 | .0759896 | -.013631 | .0443462 | .006989  | .0083722 | 16.88649 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1632690 | .0011905 | .0027612 | F 1511.078 | .0417185 | .0215363 |
| Stddev | .0007479 | .0001281 | .0000251 | 4.529      | .0016241 | .0010305 |
| %RSD   | .4580941 | 10.76048 | .9086353 | .2997493   | 3.893034 | 4.785139 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1624451 | .0011976 | .0027902 | 1516.006 | .0435839 | .0203907 |
| #2 | .1634568 | .0013148 | .0027477 | 1507.096 | .0409528 | .0223878 |
| #3 | .1639051 | .0010589 | .0027458 | 1510.133 | .0406187 | .0218305 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0326595 | 70.03980 | 2.229303 | 530.2003 | .0596731 | .0175088 |
| Stddev | .0009991 | .30332   | .008836  | 1.8992   | .0007984 | .0001318 |
| %RSD   | 3.059114 | .4330619 | .3963719 | .3582034 | 1.337972 | .7529056 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0333434 | 69.84671 | 2.237056 | 529.5994 | .0605476 | .0176369 |
| #2 | .0331221 | 70.38941 | 2.219682 | 532.3273 | .0589831 | .0173735 |
| #3 | .0315129 | 69.88330 | 2.231172 | 528.6743 | .0594885 | .0175159 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.024837 | .0552353 | .1519680 | 1.917981 | 2.829187 | .1280831 |
| Stddev | .190501  | .0064648 | .0001638 | .043429  | .030394  | .0010277 |
| %RSD   | 9.408238 | 11.70405 | .1077862 | 2.264334 | 1.074295 | .8024039 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.881978 | .0481730 | .1521414 | 1.937460 | 2.798380 | .1286940 |
| #2 | 2.241126 | .0566720 | .1519466 | 1.868222 | 2.859150 | .1286588 |
| #3 | 1.951406 | .0608608 | .1518159 | 1.948260 | 2.830032 | .1268966 |

Sample Name: P4879-09      Acquired: 11/20/2024 14:13:41      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0092172 | 8.217204 | 5.138223 | -.005040 | .3801448 | .0506000 |
| Stddev | .0003717 | .018156  | .019890  | .003137  | .0024107 | .0007927 |
| %RSD   | 4.033094 | .2209458 | .3870985 | 62.25040 | .6341418 | 1.566613 |
| #1     | .0092341 | 8.201158 | 5.115760 | -.008194 | .3776244 | .0501758 |
| #2     | .0088373 | 8.213544 | 5.145310 | -.005004 | .3803820 | .0515145 |
| #3     | .0095802 | 8.236911 | 5.153598 | -.001920 | .3824282 | .0501097 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.127495 |
| Stddev | .001198  |
| %RSD   | .1062133 |
| #1     | 1.128650 |
| #2     | 1.127576 |
| #3     | 1.126259 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 777.4481 | 21631.88 | 4761.705 | 641.5258 | 1188.102 |
| Stddev    | 3.5138   | 10.47    | 9.442    | 4.2511   | 1.524    |
| %RSD      | .4519689 | .0483999 | .1982998 | .6626551 | .1282870 |
| #1        | 781.4015 | 21623.10 | 4772.480 | 637.7322 | 1189.739 |
| #2        | 774.6810 | 21629.07 | 4754.876 | 640.7248 | 1187.842 |
| #3        | 776.2617 | 21643.47 | 4757.757 | 646.1204 | 1186.724 |

Sample Name: P4879-10      Acquired: 11/20/2024 14:18:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0534302 | -.009148 | .0474763 | .0011529 | .0034823 | 19.07059 |
| Stddev | .0126826 | .002018  | .0017393 | .0054560 | .0031607 | .05895   |
| %RSD   | 23.73678 | 22.05772 | 3.663581 | 473.2600 | 90.76560 | .3091182 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0510775 | -.009443 | .0466667 | -.003971 | .0041337 | 19.11804 |
| #2 | .0671245 | -.011002 | .0494729 | .000541  | .0062667 | 19.08913 |
| #3 | .0420888 | -.006999 | .0462894 | .006889  | .0000466 | 19.00460 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2880254 | .0008826 | .0023747 | F 1101.406 | .0351472 | .0220131 |
| Stddev | .0002947 | .0000392 | .0001203 | 11.286     | .0009037 | .0002507 |
| %RSD   | .1023044 | 4.436919 | 5.065102 | 1.024668   | 2.571144 | 1.139000 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2882782 | .0008377 | .0023774 | 1111.303 | .0342309 | .0219794 |
| #2 | .2880962 | .0009094 | .0024937 | 1103.800 | .0351729 | .0217809 |
| #3 | .2877018 | .0009008 | .0022531 | 1089.116 | .0360377 | .0222789 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0569376 | 63.00993 | 1.613562 | 406.2371 | .0575311 | .0121177 |
| Stddev | .0012768 | .19424   | .002021  | 1.2826   | .0004829 | .0005508 |
| %RSD   | 2.242533 | .3082765 | .1252627 | .3157381 | .8394161 | 4.545716 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0570862 | 63.09626 | 1.612065 | 407.6226 | .0577362 | .0118105 |
| #2 | .0555930 | 63.14604 | 1.615861 | 405.9977 | .0569795 | .0117890 |
| #3 | .0581336 | 62.78748 | 1.612761 | 405.0910 | .0578777 | .0127537 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.512806 | .0636338 | .1577419 | 1.104955 | 2.286952 | .1071388 |
| Stddev | .253667  | .0054898 | .0014526 | .105095  | .008198  | .0011225 |
| %RSD   | 16.76799 | 8.627237 | .9208647 | 9.511260 | .3584569 | 1.047717 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.383610 | .0678330 | .1566518 | .986949  | 2.294617 | .1082696 |
| #2 | 1.805063 | .0656469 | .1593909 | 1.139442 | 2.287928 | .1071220 |
| #3 | 1.349747 | .0574216 | .1571830 | 1.188472 | 2.278309 | .1060248 |

Sample Name: P4879-10      Acquired: 11/20/2024 14:18:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0098992 | 9.799021 | 4.249586 | -.004066 | .5861948 | .0389191 |
| Stddev | .0013135 | .028833  | .015842  | .002109  | .0016649 | .0005418 |
| %RSD   | 13.26900 | .2942458 | .3728012 | 51.87814 | .2840261 | 1.392133 |
| #1     | .0083896 | 9.797780 | 4.260028 | -.002337 | .5877339 | .0387400 |
| #2     | .0105266 | 9.770828 | 4.257372 | -.006416 | .5844276 | .0395278 |
| #3     | .0107814 | 9.828454 | 4.231356 | -.003444 | .5864228 | .0384895 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.383213 |
| Stddev | .001630  |
| %RSD   | .1178216 |
| #1     | 1.384515 |
| #2     | 1.383739 |
| #3     | 1.381385 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 780.1269 | 21777.26 | 4774.048 | 644.1933 | 1241.924 |
| Stddev    | 1.1606   | 40.57    | 17.124   | 3.6403   | .487     |
| %RSD      | .1487646 | .1863053 | .3586933 | .5650894 | .0392012 |
| #1        | 779.3589 | 21796.30 | 4762.183 | 641.9013 | 1241.610 |
| #2        | 781.4620 | 21804.81 | 4766.281 | 642.2878 | 1242.485 |
| #3        | 779.5599 | 21730.67 | 4793.679 | 648.3908 | 1241.677 |



Sample Name: P4879-11      Acquired: 11/20/2024 14:22:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0654162 | -.006211 | .0741297 | .0054526 | .0058889 | 39.86012 | .4694459 |
| Stddev | .0012693 | .002264  | .0015596 | .0056775 | .0016567 | .01254   | .0009844 |
| %RSD   | 1.940313 | 36.45794 | 2.103919 | 104.1248 | 28.13277 | .0314664 | .2096863 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0667505 | -.008820 | .0759281 | .0044789 | .0051052 | 39.85203 | .4683346 |
| #2 | .0642238 | -.005053 | .0733135 | .0115539 | .0047694 | 39.87457 | .4702081 |
| #3 | .0652744 | -.004760 | .0731476 | .0003249 | .0077921 | 39.85375 | .4697951 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0024826 | .0036313 | 432.9028 | .0602508 | .0392394 | .0957398 | 68.30374 |
| Stddev | .0000200 | .0000510 | 1.4618   | .0007402 | .0002160 | .0033184 | .12618   |
| %RSD   | .8034735 | 1.403618 | .3376768 | 1.228558 | .5505412 | 3.466081 | .1847273 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0024896 | .0036902 | 431.3452 | .0594127 | .0392616 | .0995706 | 68.44908 |
| #2 | .0024601 | .0036002 | 434.2449 | .0608152 | .0394435 | .0938989 | 68.22217 |
| #3 | .0024981 | .0036036 | 433.1182 | .0605244 | .0390131 | .0937500 | 68.23999 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.273808 | 177.8472 | .1050957 | -.003391 | .8731086 | .1125318 | .2860356 |
| Stddev | .009182  | .3759    | .0012217 | .000086  | .2987773 | .0082905 | .0008280 |
| %RSD   | .7208451 | .2113750 | 1.162482 | 2.533360 | 34.21994 | 7.367247 | .2894628 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.263646 | 178.2313 | .1037053 | -.003352 | 1.035428 | .1166079 | .2867521 |
| #2 | 1.281509 | 177.4800 | .1059977 | -.003331 | .528307  | .1179951 | .2851292 |
| #3 | 1.276268 | 177.8305 | .1055840 | -.003489 | 1.055591 | .1029923 | .2862255 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.989218 | 2.926472 | .1116714 | .0124961 | 12.33064 | 5.400790 | -.000826 |
| Stddev | .097176  | .013374  | .0006260 | .0005425 | .00556   | .009700  | .001902  |
| %RSD   | 3.250878 | .4570004 | .5605668 | 4.341074 | .0451246 | .1796079 | 230.0738 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.892804 | 2.924444 | .1111200 | .0123534 | 12.32678 | 5.406676 | .001225  |
| #2 | 3.087138 | 2.940744 | .1115423 | .0130957 | 12.32812 | 5.389594 | -.002530 |
| #3 | 2.987713 | 2.914228 | .1123518 | .0120393 | 12.33702 | 5.406100 | -.001174 |

Sample Name: P4879-11      Acquired: 11/20/2024 14:22:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .9268094 | .0445737 | 1.153564 |
| Stddev | .0027906 | .0006589 | .001395  |
| %RSD   | .3010984 | 1.478148 | .1209423 |
| #1     | .9273164 | .0448800 | 1.152168 |
| #2     | .9293118 | .0450237 | 1.153566 |
| #3     | .9238001 | .0438175 | 1.154958 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 852.5195 | 24146.27 | 5091.128 | 714.0773 | 1370.153 |
| Stddev    | .5256    | 71.62    | 1.753    | .9452    | 3.499    |
| %RSD      | .0616537 | .2965910 | .0344400 | .1323695 | .2553828 |
| #1        | 852.8949 | 24121.64 | 5092.178 | 713.0257 | 1373.385 |
| #2        | 851.9188 | 24090.22 | 5089.104 | 714.8562 | 1370.637 |
| #3        | 852.7449 | 24226.95 | 5092.102 | 714.3499 | 1366.437 |

Sample Name: P4879-12      Acquired: 11/20/2024 14:27:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0974836 | -.007426 | .0749447 | .0006959 | .0056950 | 37.52218 |
| Stddev | .0107719 | .004412  | .0043796 | .0059346 | .0018160 | .07398   |
| %RSD   | 11.04998 | 59.41223 | 5.843699 | 852.7411 | 31.88821 | .1971759 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0868201 | -.012429 | .0703588 | .0061713 | .0039146 | 37.45258 |
| #2 | .0972699 | -.004093 | .0753919 | .0015268 | .0056258 | 37.59988 |
| #3 | .1083608 | -.005755 | .0790836 | -.005610 | .0075447 | 37.51406 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2998879 | .0018987 | .0045588 | F 1007.884 | .0721977 | .0469222 |
| Stddev | .0017987 | .0001683 | .0003722 | 5.627      | .0014202 | .0009066 |
| %RSD   | .5997759 | 8.863580 | 8.164884 | .5583392   | 1.967109 | 1.932203 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2999474 | .0019821 | .0042055 | 1013.918 | .0707690 | .0464989 |
| #2 | .3016560 | .0020091 | .0049474 | 1006.955 | .0736093 | .0479631 |
| #3 | .2980602 | .0017050 | .0045236 | 1002.779 | .0722149 | .0463047 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0981834 | 113.1170 | 2.410490 | 368.4440 | .1325243 | .0054326 |
| Stddev | .0004005 | .3934    | .009635  | 1.0529   | .0013461 | .0003977 |
| %RSD   | .4079359 | .3477947 | .3997205 | .2857686 | 1.015720 | 7.320869 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0979745 | 112.7949 | 2.410111 | 367.2358 | .1332957 | .0049734 |
| #2 | .0986452 | 113.5555 | 2.420309 | 369.1656 | .1309700 | .0056671 |
| #3 | .0979306 | 113.0007 | 2.401049 | 368.9306 | .1333071 | .0056573 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.913776 | .1135097 | .2546016 | 7.011387 | 2.661570 | .1597702 |
| Stddev | .226850  | .0047649 | .0012720 | .086963  | .014295  | .0001854 |
| %RSD   | 11.85355 | 4.197794 | .4995929 | 1.240308 | .5370785 | .1160287 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.691824 | .1142538 | .2543102 | 6.937019 | 2.645188 | .1599298 |
| #2 | 2.145226 | .1178588 | .2559940 | 7.107006 | 2.668008 | .1598138 |
| #3 | 1.904277 | .1084165 | .2535006 | 6.990137 | 2.671512 | .1595669 |

Sample Name: P4879-12      Acquired: 11/20/2024 14:27:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0253213 | 23.20485 | 7.101424 | -.005614 | 1.167480 | .0804626 |
| Stddev | .0004613 | .06068   | .012711  | .004111  | .005502  | .0002118 |
| %RSD   | 1.821883 | .2614937 | .1789942 | 73.22360 | .4712968 | .2631598 |
| #1     | .0258305 | 23.17140 | 7.116055 | -.000932 | 1.161192 | .0805524 |
| #2     | .0252019 | 23.16826 | 7.095116 | -.008632 | 1.169835 | .0802208 |
| #3     | .0249313 | 23.27490 | 7.093101 | -.007279 | 1.171413 | .0806147 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .9187934 |
| Stddev | .0029774 |
| %RSD   | .3240513 |
| #1     | .9184343 |
| #2     | .9219340 |
| #3     | .9160119 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 808.6809 | 22642.89 | 4883.625 | 673.5658 | 1244.668 |
| Stddev    | .6823    | 25.82    | 2.611    | 3.9507   | 2.773    |
| %RSD      | .0843731 | .1140225 | .0534687 | .5865369 | .2227657 |
| #1        | 808.5855 | 22663.34 | 4880.655 | 677.0771 | 1242.430 |
| #2        | 809.4059 | 22613.88 | 4884.658 | 669.2880 | 1247.770 |
| #3        | 808.0513 | 22651.45 | 4885.561 | 674.3323 | 1243.803 |

Sample Name: P4879-13      Acquired: 11/20/2024 14:31:54      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0372716 | -.002625 | .0490362 | -.004107 | .0027795 | 17.31708 |
| Stddev | .0039417 | .004691  | .0041692 | .006577  | .0033038 | .00919   |
| %RSD   | 10.57563 | 178.7075 | 8.502275 | 160.1270 | 118.8624 | .0530433 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0340295 | .002650  | .0464129 | -.005641 | .0053253 | 17.32429 |
| #2 | .0361262 | -.004197 | .0538437 | .003101  | -.000954 | 17.30674 |
| #3 | .0416592 | -.006329 | .0468521 | -.009782 | .003967  | 17.32021 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2864304 | .0009112 | .0021808 | F 809.5040 | .0365254 | .0176011 |
| Stddev | .0007754 | .0000760 | .0001912 | 6.5213     | .0023428 | .0012495 |
| %RSD   | .2707086 | 8.345748 | 8.767530 | .8055906   | 6.414088 | 7.099205 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2871002 | .0009116 | .0023105 | 803.4374 | .0366297 | .0178443 |
| #2 | .2866101 | .0008349 | .0022706 | 816.4005 | .0341323 | .0187112 |
| #3 | .2855810 | .0009870 | .0019612 | 808.6739 | .0388143 | .0162479 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0497066 | 56.22714 | 1.265829 | 308.0827 | .0500566 | .0086018 |
| Stddev | .0007263 | .13090   | .005413  | .3231    | .0009467 | .0003945 |
| %RSD   | 1.461206 | .2328032 | .4276333 | .1048707 | 1.891314 | 4.585629 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0499760 | 56.37681 | 1.263514 | 308.3850 | .0494679 | .0090320 |
| #2 | .0502597 | 56.13407 | 1.272015 | 308.1209 | .0495533 | .0082572 |
| #3 | .0488841 | 56.17053 | 1.261958 | 307.7422 | .0511487 | .0085162 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.688131 | .0819968 | .1428672 | 1.138070 | 2.349293 | .1033136 |
| Stddev | .289430  | .0048283 | .0013522 | .093443  | .005774  | .0024002 |
| %RSD   | 17.14500 | 5.888394 | .9464559 | 8.210635 | .2457739 | 2.323196 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.995064 | .0819242 | .1424478 | 1.135027 | 2.351353 | .1007693 |
| #2 | 1.649180 | .0772052 | .1417745 | 1.232997 | 2.342772 | .1055375 |
| #3 | 1.420149 | .0868610 | .1443794 | 1.046186 | 2.353756 | .1036339 |

Sample Name: P4879-13      Acquired: 11/20/2024 14:31:54      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0102034 | 10.77376 | 6.513975 | -.001757 | 1.005479 | .0271382 |
| Stddev | .0009175 | .04348   | .034174  | .001246  | .000719  | .0023159 |
| %RSD   | 8.992415 | .4035490 | .5246252 | 70.93287 | .0715448 | 8.533881 |
| #1     | .0098046 | 10.76608 | 6.480191 | -.003028 | 1.006129 | .0292993 |
| #2     | .0095527 | 10.73463 | 6.548526 | -.000537 | 1.005603 | .0274219 |
| #3     | .0112529 | 10.82056 | 6.513208 | -.001706 | 1.004706 | .0246935 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.274854 |
| Stddev | .002205  |
| %RSD   | .1729532 |
| #1     | 1.275271 |
| #2     | 1.276820 |
| #3     | 1.272470 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 798.4778 | 22269.81 | 4808.832 | 660.3140 | 1293.525 |
| Stddev    | 3.2364   | 138.36   | 16.508   | 3.0310   | 3.254    |
| %RSD      | .4053231 | .6212682 | .3432846 | .4590176 | .2515252 |
| #1        | 796.2434 | 22110.11 | 4820.965 | 658.4282 | 1292.195 |
| #2        | 802.1892 | 22346.19 | 4790.033 | 663.8103 | 1297.233 |
| #3        | 797.0009 | 22353.15 | 4815.498 | 658.7037 | 1291.147 |

Sample Name: P4879-14      Acquired: 11/20/2024 14:36:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1067503 | -.007183 | .0410674 | -.002578 | .0100320 | 18.05181 |
| Stddev | .0099624 | .008522  | .0021598 | .005278  | .0040821 | .06578   |
| %RSD   | 9.332460 | 118.6402 | 5.259176 | 204.7462 | 40.69025 | .3643932 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1158275 | -.014243 | .0405945 | .000532  | .0063616 | 17.98558 |
| #2 | .0960918 | .002283  | .0391833 | .000407  | .0093061 | 18.05274 |
| #3 | .1083316 | -.009588 | .0434245 | -.008672 | .0144283 | 18.11713 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2130640 | .0012798 | .0028188 | F 1200.329 | .0399969 | .0220302 |
| Stddev | .0003942 | .0000520 | .0000809 | 8.718      | .0005264 | .0007574 |
| %RSD   | .1850011 | 4.066500 | 2.871490 | .7263074   | 1.316135 | 3.437816 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2127267 | .0012198 | .0027745 | 1200.276 | .0403772 | .0222132 |
| #2 | .2134973 | .0013129 | .0029122 | 1191.638 | .0393961 | .0226793 |
| #3 | .2129679 | .0013068 | .0027698 | 1209.074 | .0402174 | .0211981 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0465670 | 75.99076 | 2.181223 | 454.7977 | .0643168 | .0121789 |
| Stddev | .0030016 | .47935   | .006437  | 2.3685   | .0014303 | .0002388 |
| %RSD   | 6.445813 | .6308050 | .2951100 | .5207764 | 2.223836 | 1.960408 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0439307 | 75.46466 | 2.181753 | 452.5107 | .0637294 | .0120658 |
| #2 | .0459366 | 76.10484 | 2.174538 | 454.6425 | .0632737 | .0120176 |
| #3 | .0498338 | 76.40278 | 2.187379 | 457.2400 | .0659473 | .0124531 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.157591 | .0585654 | .1818643 | 2.060480 | 2.339212 | .1324374 |
| Stddev | .291524  | .0063881 | .0012556 | .001236  | .009780  | .0023621 |
| %RSD   | 13.51156 | 10.90768 | .6903900 | .0600043 | .4180912 | 1.783593 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.419593 | .0654277 | .1833113 | 2.061849 | 2.330854 | .1298385 |
| #2 | 1.843553 | .0574771 | .1810630 | 2.059445 | 2.349968 | .1330199 |
| #3 | 2.209627 | .0527913 | .1812185 | 2.060145 | 2.336813 | .1344538 |

Sample Name: P4879-14      Acquired: 11/20/2024 14:36:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0178359 | 7.777349 | 4.326942 | -.003036 | .4566146 | .0463324 |
| Stddev | .0002907 | .011312  | .016208  | .002008  | .0035038 | .0007349 |
| %RSD   | 1.629791 | .1454501 | .3745725 | 66.14770 | .7673346 | 1.586044 |
| #1     | .0181695 | 7.780081 | 4.320419 | -.004555 | .4525712 | .0471308 |
| #2     | .0176368 | 7.764920 | 4.315013 | -.003794 | .4587582 | .0456843 |
| #3     | .0177014 | 7.787044 | 4.345395 | -.000759 | .4585143 | .0461821 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .8664879 |
| Stddev | .0019615 |
| %RSD   | .2263690 |
| #1     | .8646732 |
| #2     | .8662216 |
| #3     | .8685689 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 780.3850 | 21787.99 | 4765.728 | 641.7281 | 1227.824 |
| Stddev    | .2065    | 25.29    | 24.011   | .3347    | 2.116    |
| %RSD      | .0264553 | .1160958 | .5038347 | .0521496 | .1723585 |
| #1        | 780.5474 | 21796.50 | 4778.006 | 641.7266 | 1228.423 |
| #2        | 780.1526 | 21807.95 | 4781.119 | 642.0636 | 1229.577 |
| #3        | 780.4550 | 21759.54 | 4738.061 | 641.3943 | 1225.473 |



Sample Name: CCV035      Acquired: 11/20/2024 14:41:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV035      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.074964 | 4.784229 | 24.72755 | 4.801451 | 4.877463 | 412.0604 | 10.13043 |
| Stddev | .012863  | .013979  | .06724   | .037807  | .028009  | .8746    | .02387   |
| %RSD   | .2534559 | .2921853 | .2719221 | .7873989 | .5742490 | .2122552 | .2356456 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.060142 | 4.790087 | 24.70499 | 4.829212 | 4.878094 | 411.4518 | 10.13547 |
| #2 | 5.083196 | 4.768274 | 24.67450 | 4.758393 | 4.849144 | 411.6668 | 10.10444 |
| #3 | 5.081554 | 4.794325 | 24.80317 | 4.816749 | 4.905151 | 413.0627 | 10.15138 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4972537 | 2.479976 | 402.9370 | 15.08700 | 2.494986 | 14.95770 | 414.9583 |
| Stddev | .0005882 | .006202  | .3014    | .03309   | .006405  | .03533   | 1.3566   |
| %RSD   | .1182857 | .2500928 | .0748037 | .2193605 | .2567183 | .2361918 | .3269364 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4974454 | 2.479012 | 403.1378 | 15.12180 | 2.494445 | 14.96044 | 413.5727 |
| #2 | .4977221 | 2.474312 | 402.5904 | 15.08327 | 2.488868 | 14.92108 | 415.0180 |
| #3 | .4965935 | 2.486604 | 403.0828 | 15.05592 | 2.501644 | 14.99157 | 416.2841 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.57298 | 404.6218 | 2.467990 | 1.233834 | 412.2232 | 2.502836 | 14.38710 |
| Stddev | .02000   | .8728    | .006645  | .004859  | 1.3250   | .005847  | .12479   |
| %RSD   | .1372152 | .2157163 | .2692563 | .3937802 | .3214377 | .2336008 | .8673937 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.58882 | 403.7741 | 2.471641 | 1.239412 | 411.1673 | 2.502164 | 14.53111 |
| #2 | 14.55051 | 404.5735 | 2.460320 | 1.230525 | 411.7922 | 2.508989 | 14.31954 |
| #3 | 14.57962 | 405.5178 | 2.472010 | 1.231565 | 413.7101 | 2.497353 | 14.31066 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 150.8594 | 4.967296 | 5.172434 | 4.774964 | 5.068626 | 5.018961 | 4.971921 |
| Stddev | .2622    | .019680  | .007195  | .022375  | .026363  | .009766  | .018742  |
| %RSD   | .1738120 | .3961954 | .1390947 | .4685928 | .5201199 | .1945861 | .3769544 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 151.0065 | 4.966699 | 5.164261 | 4.786692 | 5.041170 | 5.011882 | 4.966194 |
| #2 | 150.5567 | 4.947921 | 5.177812 | 4.749163 | 5.070968 | 5.030102 | 4.956711 |
| #3 | 151.0151 | 4.987268 | 5.175228 | 4.789038 | 5.093739 | 5.014897 | 4.992859 |

Sample Name: CCV035      Acquired: 11/20/2024 14:41:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV035      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 5.004768 | 5.087118 | 5.036573 |
| Stddev | .016502  | .014626  | .013124  |
| %RSD   | .3297171 | .2875144 | .2605769 |
| #1     | 4.987528 | 5.083161 | 5.027660 |
| #2     | 5.006363 | 5.074877 | 5.030416 |
| #3     | 5.020415 | 5.103315 | 5.051644 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 734.3699 | 21744.96 | 4747.896 | 566.8278 | 1270.843 |
| Stddev    | 2.4397   | 40.06    | 11.019   | 4.5982   | 1.949    |
| %RSD      | .3322185 | .1842372 | .2320857 | .8112086 | .1533319 |
| #1        | 733.6669 | 21703.86 | 4747.644 | 561.5254 | 1272.845 |
| #2        | 737.0839 | 21747.14 | 4737.005 | 569.7159 | 1270.733 |
| #3        | 732.3588 | 21783.89 | 4759.039 | 569.2423 | 1268.952 |

Sample Name: CCB035      Acquired: 11/20/2024 14:45:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB035      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0021836 | .0015685 | .0010178 | .0027097 | -.001619 | .0284717 | -.002133 |
| Stddev | .0039616 | .0008553 | .0028380 | .0055466 | .001425  | .0095687 | .000230  |
| %RSD   | 181.4209 | 54.53290 | 278.8518 | 204.6930 | 87.97306 | 33.60769 | 10.80487 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0060824 | .0024531 | -.001348 | .0052673 | -.000804 | .0176009 | -.002393 |
| #2 | -.001838 | .0015066 | .004165  | .0065160 | -.000790 | .0356183 | -.001954 |
| #3 | .002306  | .0007458 | .000236  | -.003654 | -.003265 | .0321960 | -.002051 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000093 | .0001509 | .0150923 | .0013457 | -.000046 | .0031648 | .0171821 |
| Stddev | .000107  | .0000390 | .0175022 | .0001699 | .000430  | .0015311 | .0023443 |
| %RSD   | 114.9499 | 25.82447 | 115.9679 | 12.62405 | 941.7120 | 48.37987 | 13.64364 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000125 | .0001957 | .0147755 | .0015403 | -.000441 | .0014007 | .0191838 |
| #2 | -.000181 | .0001314 | .0327507 | .0012699 | .000413  | .0039457 | .0146031 |
| #3 | .000026  | .0001255 | -.002249 | .0012270 | -.000109 | .0041480 | .0177594 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0006009 | -.002649 | .0004173 | -.006402 | -.006333 | -.001858 | -.000764 |
| Stddev | .0004403 | .056345  | .0003653 | .000436  | .270041  | .005871  | .000172  |
| %RSD   | 73.26482 | 2127.027 | 87.53561 | 6.806477 | 4263.781 | 315.8957 | 22.49660 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0006519 | .057463  | .0003330 | -.006088 | .213419  | -.005800 | -.000708 |
| #2 | .0001374 | -.054262 | .0001016 | -.006899 | -.307792 | -.004665 | -.000628 |
| #3 | .0010135 | -.011147 | .0008175 | -.006218 | .075373  | .004889  | -.000957 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.812694 | -.000578 | .0000659 | .0003578 | -.003579 | .0021583 | -.000020 |
| Stddev | .030193  | .002761  | .0004910 | .0003611 | .002315  | .0001306 | .000711  |
| %RSD   | 3.715178 | 477.6396 | 745.1304 | 100.9300 | 64.69097 | 6.052615 | 3599.539 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.797614 | -.003546 | -.000330 | .0006690 | -.001854 | .0020122 | .000493  |
| #2 | -.793011 | -.000104 | .000615  | -.000038 | -.006210 | .0021991 | -.000832 |
| #3 | -.847457 | .001915  | -.000087 | .000442  | -.002673 | .0022638 | .000280  |

Sample Name: CCB035      Acquired: 11/20/2024 14:45:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB035      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000132 | -.007981 | .0001184 |
| Stddev | .000535  | .000588  | .0000866 |
| %RSD   | 405.1797 | 7.366165 | 73.18239 |
| #1     | -.000440 | -.008252 | .0000213 |
| #2     | .000486  | -.007306 | .0001878 |
| #3     | -.000442 | -.008384 | .0001459 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 924.0085 | 25374.97 | 4949.350 | 768.6052 | 1768.758 |
| Stddev    | 1.9036   | 181.62   | 21.884   | 7.4332   | 4.474    |
| %RSD      | .2060120 | .7157531 | .4421613 | .9671073 | .2529229 |
| #1        | 923.0922 | 25214.42 | 4964.900 | 763.1526 | 1765.417 |
| #2        | 926.1970 | 25572.09 | 4924.325 | 777.0721 | 1773.840 |
| #3        | 922.7365 | 25338.40 | 4958.825 | 765.5908 | 1767.017 |

Sample Name: P4879-15      Acquired: 11/20/2024 14:50:00      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1047455 | -.006047 | .0711745 | -.000965 | .0059155 | 31.56951 |
| Stddev | .0146209 | .008104  | .0024979 | .001995  | .0010386 | .11431   |
| %RSD   | 13.95851 | 134.0199 | 3.509605 | 206.7530 | 17.55760 | .3620790 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0881788 | -.002356 | .0723058 | .000327  | .0048588 | 31.47136 |
| #2 | .1158449 | -.000445 | .0729067 | .000041  | .0069351 | 31.54216 |
| #3 | .1102128 | -.015339 | .0683111 | -.003263 | .0059527 | 31.69501 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2918548 | .0019502 | .0052083 | F 1263.280 | .0597094 | .0435431 |
| Stddev | .0014724 | .0000348 | .0003672 | 1.642      | .0006054 | .0001284 |
| %RSD   | .5045018 | 1.785448 | 7.049411 | .1299949   | 1.013984 | .2949706 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2918537 | .0019846 | .0053815 | 1264.123 | .0601519 | .0435944 |
| #2 | .2903829 | .0019150 | .0054569 | 1264.330 | .0599569 | .0433969 |
| #3 | .2933278 | .0019509 | .0047866 | 1261.388 | .0590194 | .0436380 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0954080 | 116.2283 | 2.648232 | 489.6440 | .1207951 | .0097591 |
| Stddev | .0039373 | .4737    | .016136  | 2.5877   | .0010645 | .0004558 |
| %RSD   | 4.126830 | .4075516 | .6093159 | .5284809 | .8812075 | 4.670176 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0935323 | 115.8026 | 2.642328 | 487.2138 | .1219565 | .0093218 |
| #2 | .0927593 | 116.1438 | 2.635879 | 489.3534 | .1205629 | .0102313 |
| #3 | .0999325 | 116.7386 | 2.666489 | 492.3647 | .1198659 | .0097240 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.057786 | .1040415 | .3921327 | 5.224114 | 3.311471 | .1645355 |
| Stddev | .172529  | .0032408 | .0010597 | .122633  | .011022  | .0012456 |
| %RSD   | 8.384186 | 3.114948 | .2702331 | 2.347440 | .3328533 | .7570417 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.079110 | .1007804 | .3909214 | 5.107961 | 3.309134 | .1652846 |
| #2 | 2.218661 | .1072617 | .3925882 | 5.212047 | 3.323474 | .1630976 |
| #3 | 1.875586 | .1040822 | .3928884 | 5.352335 | 3.301804 | .1652242 |

Sample Name: P4879-15      Acquired: 11/20/2024 14:50:00      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0203607 | 13.72645 | 8.721088 | -.002263 | .8409629 | .0807519 |
| Stddev | .0008046 | .04315   | .015666  | .004960  | .0040657 | .0016141 |
| %RSD   | 3.951774 | .3143766 | .1796306 | 219.1688 | .4834532 | 1.998798 |
| #1     | .0208940 | 13.72809 | 8.735017 | -.003159 | .8378253 | .0788885 |
| #2     | .0207529 | 13.76877 | 8.704128 | -.006715 | .8395075 | .0816531 |
| #3     | .0194352 | 13.68251 | 8.724119 | .003084  | .8455560 | .0817141 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .8920638 |
| Stddev | .0041322 |
| %RSD   | .4632162 |
| #1     | .8898464 |
| #2     | .8895135 |
| #3     | .8968313 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 802.9636 | 22270.09 | 4822.912 | 661.7701 | 1214.119 |
| Stddev    | 1.0119   | 28.44    | 15.912   | 1.8825   | 1.562    |
| %RSD      | .1260229 | .1276991 | .3299345 | .2844576 | .1286120 |
| #1        | 803.8828 | 22295.96 | 4826.247 | 663.3197 | 1213.518 |
| #2        | 801.8793 | 22239.64 | 4836.892 | 659.6752 | 1212.947 |
| #3        | 803.1286 | 22274.68 | 4805.596 | 662.3153 | 1215.892 |

Sample Name: P4879-16      Acquired: 11/20/2024 14:54:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0577534 | -.003738 | .0518151 | -.000535 | .0023666 | 18.82694 |
| Stddev | .0124344 | .003537  | .0028401 | .001777  | .0024147 | .01914   |
| %RSD   | 21.53018 | 94.62311 | 5.481159 | 332.1472 | 102.0342 | .1016809 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0629917 | -.006567 | .0550889 | -.002422 | -.000329 | 18.83227 |
| #2 | .0435569 | -.004873 | .0503448 | .001106  | .004332  | 18.84285 |
| #3 | .0667115 | .000227  | .0500117 | -.000289 | .003097  | 18.80570 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2188587 | .0013056 | .0025403 | F 809.1708 | .0354655 | .0234508 |
| Stddev | .0003334 | .0000462 | .0000551 | 5.4548     | .0021579 | .0008042 |
| %RSD   | .1523316 | 3.542342 | 2.167962 | .6741237   | 6.084488 | 3.429329 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2192139 | .0013418 | .0025677 | 815.2479 | .0340037 | .0239937 |
| #2 | .2185526 | .0013214 | .0025763 | 804.6981 | .0379439 | .0238319 |
| #3 | .2188095 | .0012535 | .0024769 | 807.5663 | .0344489 | .0225269 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0461009 | 64.76279 | 1.498825 | 275.1275 | .0652172 | .0077091 |
| Stddev | .0001628 | .06345   | .002992  | .3212    | .0010392 | .0005810 |
| %RSD   | .3531470 | .0979768 | .1996036 | .1167572 | 1.593366 | 7.536985 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0461694 | 64.68957 | 1.502082 | 275.2702 | .0663621 | .0080594 |
| #2 | .0459151 | 64.79690 | 1.498192 | 275.3526 | .0643339 | .0070384 |
| #3 | .0462183 | 64.80189 | 1.496200 | 274.7596 | .0649554 | .0080295 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.396031 | .0710614 | .1792507 | 1.943532 | 2.444381 | .1018059 |
| Stddev | .271759  | .0086038 | .0019372 | .321797  | .010319  | .0015805 |
| %RSD   | 19.46656 | 12.10762 | 1.080700 | 16.55732 | .4221385 | 1.552416 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.269541 | .0758577 | .1812531 | 2.305702 | 2.433045 | .1018124 |
| #2 | 1.210573 | .0761980 | .1773861 | 1.834408 | 2.446873 | .1033831 |
| #3 | 1.707979 | .0611285 | .1791130 | 1.690487 | 2.453225 | .1002222 |

Sample Name: P4879-16      Acquired: 11/20/2024 14:54:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0134335 | 11.12799 | 6.631680 | .0005377 | .8614241 | .0379639 |
| Stddev | .0006801 | .01539   | .005314  | .0035048 | .0041719 | .0008646 |
| %RSD   | 5.062956 | .1382785 | .0801309 | 651.7927 | .4843008 | 2.277488 |
| #1     | .0133866 | 11.14474 | 6.629639 | .0018362 | .8570452 | .0386085 |
| #2     | .0141359 | 11.12477 | 6.637712 | .0032080 | .8653524 | .0369814 |
| #3     | .0127781 | 11.11447 | 6.627689 | -.003431 | .8618748 | .0383019 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.077707 |
| Stddev | .000567  |
| %RSD   | .0525833 |
| #1     | 1.078328 |
| #2     | 1.077575 |
| #3     | 1.077219 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 812.7321 | 22476.76 | 4794.655 | 670.5298 | 1298.334 |
| Stddev    | 2.7534   | 63.02    | 7.948    | 5.3889   | 1.594    |
| %RSD      | .3387777 | .2803812 | .1657741 | .8036748 | .1227836 |
| #1        | 810.4129 | 22405.51 | 4791.483 | 665.0689 | 1296.593 |
| #2        | 815.7750 | 22499.58 | 4788.783 | 675.8437 | 1298.687 |
| #3        | 812.0084 | 22525.19 | 4803.699 | 670.6769 | 1299.722 |



Sample Name: P4879-17      Acquired: 11/20/2024 14:59:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0534112 | -.004901 | .0590605 | -.006968 | .0048433 | 20.37639 |
| Stddev | .0040925 | .006353  | .0040250 | .007018  | .0031733 | .02851   |
| %RSD   | 7.662216 | 129.6233 | 6.815030 | 100.7105 | 65.51946 | .1398928 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0580203 | -.007082 | .0565145 | -.004164 | .0082306 | 20.34641 |
| #2 | .0502035 | .002255  | .0569662 | -.001786 | .0043597 | 20.37961 |
| #3 | .0520098 | -.009877 | .0637009 | -.014954 | .0019396 | 20.40315 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2365941 | .0011192 | .0036212 | F 876.3423 | .0485420 | .0240481 |
| Stddev | .0008375 | .0000572 | .0000458 | 3.7522     | .0010367 | .0010864 |
| %RSD   | .3539706 | 5.108862 | 1.264693 | .4281656   | 2.135582 | 4.517764 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2366723 | .0010541 | .0036076 | 875.7074 | .0474168 | .0228561 |
| #2 | .2357202 | .0011614 | .0036723 | 872.9481 | .0494582 | .0249828 |
| #3 | .2373897 | .0011420 | .0035839 | 880.3715 | .0487509 | .0243053 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0523960 | 71.82048 | 1.998241 | 307.6024 | .0662201 | .0070786 |
| Stddev | .0015229 | .39574   | .004723  | .8279    | .0000609 | .0004027 |
| %RSD   | 2.906545 | .5510180 | .2363803 | .2691378 | .0920234 | 5.688970 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0508449 | 71.51433 | 1.993259 | 306.8096 | .0661793 | .0074914 |
| #2 | .0524542 | 71.67976 | 1.998811 | 307.5361 | .0661909 | .0070575 |
| #3 | .0538890 | 72.26736 | 2.002654 | 308.4614 | .0662902 | .0066869 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.632950 | .0810387 | .2977513 | 1.885418 | 3.095860 | .1036483 |
| Stddev | .168777  | .0040707 | .0020603 | .044877  | .008846  | .0018161 |
| %RSD   | 10.33571 | 5.023094 | .6919704 | 2.380194 | .2857253 | 1.752191 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.551694 | .0843822 | .2981485 | 1.857382 | 3.106063 | .1017296 |
| #2 | 1.826986 | .0765059 | .2995841 | 1.861694 | 3.091168 | .1053406 |
| #3 | 1.520172 | .0822281 | .2955212 | 1.937177 | 3.090349 | .1038747 |

Sample Name: P4879-17      Acquired: 11/20/2024 14:59:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0105003 | 11.20671 | 6.547545 | -.003932 | 1.045073 | .0395992 |
| Stddev | .0002738 | .01246   | .008970  | .004007  | .003195  | .0010125 |
| %RSD   | 2.607126 | .1111926 | .1370017 | 101.8996 | .3057536 | 2.556765 |
| #1     | .0107686 | 11.19479 | 6.537297 | -.007448 | 1.041497 | .0398634 |
| #2     | .0102214 | 11.20569 | 6.551366 | .000430  | 1.047648 | .0404534 |
| #3     | .0105108 | 11.21965 | 6.553972 | -.004778 | 1.046074 | .0384809 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .9864443 |
| Stddev | .0007029 |
| %RSD   | .0712516 |
| #1     | .9856353 |
| #2     | .9867924 |
| #3     | .9869051 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 820.6023 | 22744.09 | 4905.232 | 679.0209 | 1285.892 |
| Stddev    | 1.6539   | 55.37    | 8.110    | 2.1158   | 1.586    |
| %RSD      | .2015473 | .2434299 | .1653379 | .3115978 | .1233061 |
| #1        | 818.8703 | 22740.61 | 4912.924 | 681.0965 | 1284.876 |
| #2        | 822.1651 | 22690.54 | 4906.012 | 676.8670 | 1287.719 |
| #3        | 820.7715 | 22801.11 | 4896.760 | 679.0993 | 1285.081 |

Sample Name: P4879-18      Acquired: 11/20/2024 15:03:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0664397 | -.003330 | .0498082 | .0027385 | .0056022 | 15.23009 |
| Stddev | .0087275 | .001502  | .0032767 | .0071908 | .0036518 | .01625   |
| %RSD   | 13.13594 | 45.11379 | 6.578712 | 262.5863 | 65.18545 | .1066648 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0721854 | -.004378 | .0469729 | .0093366 | .0016399 | 15.22610 |
| #2 | .0707369 | -.004003 | .0490561 | .0038047 | .0088328 | 15.21621 |
| #3 | .0563968 | -.001609 | .0533956 | -.004926 | .0063338 | 15.24796 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1671525 | .0009894 | .0023781 | F 1217.269 | .0345834 | .0185866 |
| Stddev | .0006471 | .0000883 | .0004690 | 10.899     | .0003492 | .0006775 |
| %RSD   | .3871590 | 8.920172 | 19.72343 | .8953989   | 1.009791 | 3.645084 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1665307 | .0010589 | .0022014 | 1208.969 | .0348769 | .0186643 |
| #2 | .1678223 | .0008901 | .0029099 | 1229.612 | .0341971 | .0178736 |
| #3 | .1671044 | .0010193 | .0020231 | 1213.225 | .0346761 | .0192219 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0383015 | 62.50080 | 1.867017 | 458.7864 | .0523164 | .0141376 |
| Stddev | .0011748 | .05928   | .002595  | .5762    | .0015469 | .0002171 |
| %RSD   | 3.067158 | .0948498 | .1389991 | .1255896 | 2.956727 | 1.535906 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0392970 | 62.56404 | 1.864499 | 459.4365 | .0507614 | .0143420 |
| #2 | .0370057 | 62.49186 | 1.866870 | 458.5841 | .0523328 | .0139097 |
| #3 | .0386018 | 62.44649 | 1.869683 | 458.3386 | .0538550 | .0141610 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.655617 | .0696275 | .1360353 | 1.360838 | 2.255101 | .1134082 |
| Stddev | .705977  | .0057801 | .0013410 | .068201  | .022791  | .0019712 |
| %RSD   | 42.64131 | 8.301476 | .9857646 | 5.011718 | 1.010641 | 1.738118 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.167683 | .0754493 | .1366594 | 1.324310 | 2.234259 | .1122531 |
| #2 | 1.948896 | .0638901 | .1344960 | 1.318682 | 2.251608 | .1156843 |
| #3 | .850271  | .0695432 | .1369504 | 1.439523 | 2.279437 | .1122873 |

Sample Name: P4879-18      Acquired: 11/20/2024 15:03:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0067964 | 8.332603 | 5.074279 | .0009231 | .8511585 | .0424032 |
| Stddev | .0007296 | .021919  | .031393  | .0008109 | .0020171 | .0006009 |
| %RSD   | 10.73444 | .2630493 | .6186767 | 87.84524 | .2369789 | 1.417156 |
| #1     | .0064370 | 8.319847 | 5.064129 | .0017788 | .8531389 | .0430917 |
| #2     | .0063163 | 8.320049 | 5.109492 | .0001661 | .8512300 | .0421337 |
| #3     | .0076359 | 8.357913 | 5.049217 | .0008243 | .8491066 | .0419842 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .8968251 |
| Stddev | .0014813 |
| %RSD   | .1651731 |
| #1     | .8982984 |
| #2     | .8968412 |
| #3     | .8953359 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 782.7347 | 21832.18 | 4764.381 | 651.0186 | 1220.236 |
| Stddev    | 2.9131   | 42.36    | 11.346   | 2.2962   | 4.001    |
| %RSD      | .3721705 | .1940260 | .2381423 | .3527115 | .3278770 |
| #1        | 784.4616 | 21789.91 | 4773.245 | 648.8938 | 1221.763 |
| #2        | 784.3711 | 21874.63 | 4751.594 | 653.4545 | 1223.249 |
| #3        | 779.3713 | 21832.00 | 4768.303 | 650.7074 | 1215.697 |

Sample Name: P4879-19      Acquired: 11/20/2024 15:08:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Z0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0699518 | -.003155 | .0344932 | -.003643 | .0029729 | 15.49072 |
| Stddev | .0036283 | .000717  | .0038998 | .009879  | .0033523 | .06808   |
| %RSD   | 5.186930 | 22.73216 | 11.30589 | 271.1954 | 112.7654 | .4394779 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0694870 | -.002618 | .0376635 | .000786  | .0068378 | 15.41217 |
| #2 | .0737901 | -.003969 | .0301386 | .003247  | .0008541 | 15.52750 |
| #3 | .0665782 | -.002878 | .0356775 | -.014961 | .0012266 | 15.53250 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2565750 | .0008394 | .0026094 | F 1402.378 | .0361982 | .0202316 |
| Stddev | .0006523 | .0000598 | .0000973 | 9.756      | .0015244 | .0003376 |
| %RSD   | .2542389 | 7.122657 | 3.727298 | .6956689   | 4.211283 | 1.668603 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2558425 | .0007709 | .0025311 | 1401.595 | .0372828 | .0205405 |
| #2 | .2570931 | .0008660 | .0027183 | 1393.037 | .0344553 | .0202831 |
| #3 | .2567893 | .0008813 | .0025788 | 1412.502 | .0368566 | .0198713 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0343720 | 64.14992 | 2.338683 | 544.5144 | .0571809 | .0164748 |
| Stddev | .0036818 | .25721   | .012002  | 2.9589   | .0003681 | .0004337 |
| %RSD   | 10.71149 | .4009491 | .5131930 | .5434026 | .6437298 | 2.632745 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0384024 | 63.87029 | 2.331722 | 541.1155 | .0570924 | .0168758 |
| #2 | .0335284 | 64.37640 | 2.331785 | 545.9130 | .0568651 | .0165343 |
| #3 | .0311853 | 64.20308 | 2.352542 | 546.5148 | .0575852 | .0160144 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.827072 | .0600173 | .1339567 | 1.147701 | 1.721210 | .1189887 |
| Stddev | .096440  | .0027031 | .0012327 | .038727  | .009003  | .0010685 |
| %RSD   | 5.278370 | 4.503907 | .9202413 | 3.374320 | .5230584 | .8979564 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.901882 | .0612449 | .1332710 | 1.152467 | 1.711444 | .1183280 |
| #2 | 1.718231 | .0569182 | .1353798 | 1.106811 | 1.729178 | .1202214 |
| #3 | 1.861104 | .0618887 | .1332193 | 1.183825 | 1.723008 | .1184167 |

Sample Name: P4879-19      Acquired: 11/20/2024 15:08:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Z0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0083174 | 8.091751 | 4.935584 | -.003232 | .4407669 | .0496933 |
| Stddev | .0005841 | .030562  | .010224  | .000319  | .0031983 | .0015156 |
| %RSD   | 7.022594 | .3776981 | .2071522 | 9.853992 | .7256180 | 3.049855 |
| #1     | .0088989 | 8.066267 | 4.932509 | -.003276 | .4378858 | .0508275 |
| #2     | .0077307 | 8.125635 | 4.927250 | -.002894 | .4442083 | .0479720 |
| #3     | .0083227 | 8.083351 | 4.946992 | -.003527 | .4402064 | .0502803 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.162639 |
| Stddev | .003293  |
| %RSD   | .2832078 |
| #1     | 1.158893 |
| #2     | 1.163948 |
| #3     | 1.165076 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 783.7711 | 21839.07 | 4766.540 | 651.1260 | 1200.547 |
| Stddev    | .2527    | 13.93    | 24.103   | 4.9582   | 3.237    |
| %RSD      | .0322466 | .0638054 | .5056662 | .7614842 | .2696649 |
| #1        | 783.9983 | 21855.12 | 4764.472 | 655.6956 | 1197.645 |
| #2        | 783.4989 | 21830.00 | 4791.611 | 651.8284 | 1204.039 |
| #3        | 783.8160 | 21832.10 | 4743.539 | 645.8541 | 1199.956 |

Sample Name: P4879-20      Acquired: 11/20/2024 15:12:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0974865 | -.007826 | .0578949 | -.011228 | -.000397 | 26.62235 |
| Stddev | .0122259 | .002686  | .0059473 | .004409  | .006016  | .18468   |
| %RSD   | 12.54114 | 34.32578 | 10.27260 | 39.26543 | 1515.215 | .6937190 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1115100 | -.004999 | .0526720 | -.014354 | -.007342 | 26.83404 |
| #2 | .0918822 | -.010344 | .0643679 | -.013144 | .002925  | 26.49417 |
| #3 | .0890674 | -.008135 | .0566447 | -.006185 | .003225  | 26.53883 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2631004 | .0016985 | .0042686 | F 1487.245 | .0392768 | .0386790 |
| Stddev | .0007579 | .0003439 | .0004064 | 1.468      | .0022281 | .0004228 |
| %RSD   | .2880710 | 20.24814 | 9.521658 | .0986779   | 5.672861 | 1.093189 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2622310 | .0014827 | .0038017 | 1485.760 | .0368856 | .0391657 |
| #2 | .2634482 | .0015177 | .0044616 | 1488.695 | .0396501 | .0384689 |
| #3 | .2636219 | .0020951 | .0045427 | 1487.278 | .0412946 | .0384024 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0731427 | 108.2599 | 2.309180 | 536.6103 | .0928398 | .0149270 |
| Stddev | .0026440 | .8485    | .009246  | 3.4712   | .0009760 | .0008525 |
| %RSD   | 3.614913 | .7837657 | .4003873 | .6468816 | 1.051253 | 5.711145 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0740896 | 109.2233 | 2.300143 | 540.4544 | .0922810 | .0142712 |
| #2 | .0751829 | 107.6236 | 2.308778 | 533.7050 | .0922716 | .0146191 |
| #3 | .0701555 | 107.9330 | 2.318621 | 535.6715 | .0939667 | .0158907 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.808580 | .0872113 | .2322453 | 2.658098 | 2.630472 | .1722630 |
| Stddev | .072932  | .0056635 | .0031072 | .139908  | .014332  | .0007770 |
| %RSD   | 4.032566 | 6.493947 | 1.337906 | 5.263478 | .5448325 | .4510368 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.751566 | .0936856 | .2314976 | 2.529209 | 2.637738 | .1731100 |
| #2 | 1.890764 | .0831757 | .2295801 | 2.806894 | 2.613963 | .1720956 |
| #3 | 1.783411 | .0847727 | .2356581 | 2.638190 | 2.639716 | .1715833 |

Sample Name: P4879-20      Acquired: 11/20/2024 15:12:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0270516 | 21.99876 | 7.059889 | -.003787 | .4027093 | .0796931 |
| Stddev | .0006418 | .00819   | .000726  | .004292  | .0017675 | .0014825 |
| %RSD   | 2.372639 | .0372135 | .0102875 | 113.3504 | .4389029 | 1.860267 |
| #1     | .0277027 | 22.00644 | 7.060445 | -.008743 | .4047116 | .0812555 |
| #2     | .0270327 | 21.99015 | 7.060154 | -.001378 | .4020504 | .0783061 |
| #3     | .0264194 | 21.99969 | 7.059067 | -.001240 | .4013659 | .0795177 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.831668 |
| Stddev | .003241  |
| %RSD   | .1769450 |
| #1     | 1.835350 |
| #2     | 1.830410 |
| #3     | 1.829245 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 775.9289 | 21495.99 | 4715.804 | 641.1630 | 1191.437 |
| Stddev    | 1.8872   | 138.55   | 9.978    | 6.8197   | 2.052    |
| %RSD      | .2432143 | .6445424 | .2115905 | 1.063640 | .1722131 |
| #1        | 774.6915 | 21576.54 | 4705.089 | 643.4741 | 1189.288 |
| #2        | 778.1010 | 21575.41 | 4724.830 | 646.5268 | 1193.375 |
| #3        | 774.9943 | 21336.00 | 4717.493 | 633.4881 | 1191.648 |



Sample Name: P4879-21      Acquired: 11/20/2024 15:17:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0590459 | -.006646 | .0926195 | .0068417 | .0046227 | 30.70450 | .3974314 |
| Stddev | .0059665 | .010273  | .0018305 | .0158094 | .0011574 | .03524   | .0007252 |
| %RSD   | 10.10492 | 154.5842 | 1.976355 | 231.0722 | 25.03723 | .1147650 | .1824730 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0658954 | -.018340 | .0947273 | .0147433 | .0035492 | 30.73065 | .3975265 |
| #2 | .0562636 | .000923  | .0914300 | -.011361 | .0044701 | 30.71843 | .3981044 |
| #3 | .0549786 | -.002519 | .0917010 | .017143  | .0058488 | 30.66443 | .3966634 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0020011 | .0033986 | 729.2286 | .0489767 | .0321817 | .0737719 | 84.57030 |
| Stddev | .0000500 | .0002532 | 4.1141   | .0014592 | .0003191 | .0024569 | .27495   |
| %RSD   | 2.499631 | 7.451010 | .5641750 | 2.979299 | .9914893 | 3.330451 | .3251136 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0019454 | .0032808 | 724.5779 | .0495966 | .0321312 | .0737889 | 84.36383 |
| #2 | .0020422 | .0036893 | 730.7151 | .0473100 | .0318910 | .0713065 | 84.46468 |
| #3 | .0020157 | .0032257 | 732.3929 | .0500236 | .0325231 | .0762202 | 84.88240 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.812939 | 260.4994 | .0839420 | .0033387 | 1.406044 | .0946575 | .2276155 |
| Stddev | .004268  | .6195    | .0012277 | .0003311 | .038638  | .0069167 | .0032194 |
| %RSD   | .2354086 | .2378002 | 1.462537 | 9.916863 | 2.747963 | 7.307062 | 1.414395 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.808954 | 260.3444 | .0833878 | .0034602 | 1.442891 | .0978824 | .2281943 |
| #2 | 1.817442 | 259.9721 | .0830890 | .0029640 | 1.409407 | .0867172 | .2241460 |
| #3 | 1.812422 | 261.1816 | .0853490 | .0035919 | 1.365836 | .0993727 | .2305063 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.763358 | 3.427950 | .1136872 | .0109535 | 6.763720 | 11.55878 | -.000938 |
| Stddev | .099414  | .001855  | .0027316 | .0003639 | .008836  | .09970   | .001539  |
| %RSD   | 5.637768 | .0541010 | 2.402691 | 3.322572 | .1306376 | .8625329 | 164.1446 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.859458 | 3.429495 | .1168049 | .0106537 | 6.753791 | 11.44387 | -.000002 |
| #2 | 1.769684 | 3.425893 | .1125423 | .0108484 | 6.766649 | 11.62222 | -.002714 |
| #3 | 1.660932 | 3.428463 | .1117145 | .0113585 | 6.770719 | 11.61026 | -.000097 |

Sample Name: P4879-21      Acquired: 11/20/2024 15:17:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29Y7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.003930 | .0405173 | 1.492989 |
| Stddev | .003151  | .0021650 | .002348  |
| %RSD   | .3138997 | 5.343489 | .1572536 |
| #1     | 1.002988 | .0427216 | 1.490626 |
| #2     | 1.001357 | .0404366 | 1.495321 |
| #3     | 1.007445 | .0383938 | 1.493019 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 838.2428 | 23171.19 | 4915.362 | 692.5313 | 1312.487 |
| Stddev    | 2.2287   | 84.00    | 24.269   | 7.5435   | 1.262    |
| %RSD      | .2658822 | .3625122 | .4937351 | 1.089258 | .0961482 |
| #1        | 838.8277 | 23098.42 | 4940.986 | 685.7899 | 1313.687 |
| #2        | 835.7800 | 23263.11 | 4892.725 | 700.6789 | 1311.171 |
| #3        | 840.1208 | 23152.05 | 4912.375 | 691.1252 | 1312.601 |

Sample Name: P4879-22      Acquired: 11/20/2024 15:22:07      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E2A11      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0686753 | -.007550 | .0748844 | -.003945 | .0023076 | 17.72770 |
| Stddev | .0142895 | .004682  | .0024836 | .004299  | .0014099 | .00965   |
| %RSD   | 20.80731 | 62.01133 | 3.316518 | 108.9680 | 61.09931 | .0544078 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0539497 | -.005427 | .0733763 | -.008595 | .0030525 | 17.73588 |
| #2 | .0695917 | -.012918 | .0777509 | -.000116 | .0006815 | 17.73015 |
| #3 | .0824845 | -.004306 | .0735261 | -.003124 | .0031887 | 17.71706 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1869089 | .0012175 | .0025970 | F 996.2889 | .0367234 | .0232288 |
| Stddev | .0006640 | .0001263 | .0002024 | 3.9882     | .0010354 | .0005301 |
| %RSD   | .3552765 | 10.36950 | 7.793821 | .4003048   | 2.819418 | 2.282194 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1872494 | .0010723 | .0023939 | 992.4944 | .0379158 | .0236796 |
| #2 | .1873336 | .0012791 | .0025983 | 1000.446 | .0360519 | .0233622 |
| #3 | .1861437 | .0013012 | .0027987 | 995.926  | .0362025 | .0226448 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0501789 | 61.09390 | 1.608066 | 404.3545 | .0616973 | .0107089 |
| Stddev | .0038138 | .18931   | .003299  | 1.0091   | .0002071 | .0001736 |
| %RSD   | 7.600361 | .3098619 | .2051820 | .2495549 | .3356999 | 1.621045 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0459515 | 60.88074 | 1.604732 | 403.2212 | .0614648 | .0106855 |
| #2 | .0512242 | 61.24243 | 1.608136 | 404.6866 | .0618621 | .0108930 |
| #3 | .0533611 | 61.15852 | 1.611330 | 405.1557 | .0617649 | .0105482 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.744054 | .0679223 | .2245260 | 1.803969 | 2.159779 | .1125224 |
| Stddev | .168164  | .0078140 | .0026929 | .060226  | .017989  | .0010992 |
| %RSD   | 9.642135 | 11.50434 | 1.199365 | 3.338539 | .8329159 | .9768839 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.893950 | .0631804 | .2228533 | 1.734760 | 2.157729 | .1130558 |
| #2 | 1.562206 | .0769412 | .2230923 | 1.832675 | 2.142902 | .1112582 |
| #3 | 1.776004 | .0636454 | .2276324 | 1.844472 | 2.178705 | .1132531 |

Sample Name: P4879-22      Acquired: 11/20/2024 15:22:07      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E2A11      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0172100 | 12.54374 | 6.840250 | .0046095 | .6456705 | .0371973 |
| Stddev | .0006759 | .05708   | .030380  | .0016176 | .0050967 | .0004915 |
| %RSD   | 3.927558 | .4550368 | .4441407 | 35.09321 | .7893639 | 1.321200 |
| #1     | .0178850 | 12.48130 | 6.813788 | .0042708 | .6509749 | .0369427 |
| #2     | .0172118 | 12.55670 | 6.833536 | .0063697 | .6452261 | .0368854 |
| #3     | .0165332 | 12.59322 | 6.873425 | .0031881 | .6408106 | .0377638 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.073949 |
| Stddev | .001204  |
| %RSD   | .1121230 |
| #1     | 1.073193 |
| #2     | 1.073317 |
| #3     | 1.075338 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 792.8702 | 22094.23 | 4814.451 | 658.4198 | 1250.000 |
| Stddev    | .9049    | 24.52    | 9.056    | 2.2533   | 1.767    |
| %RSD      | .1141334 | .1109692 | .1881045 | .3422329 | .1413885 |
| #1        | 793.8956 | 22080.71 | 4824.900 | 658.7028 | 1251.590 |
| #2        | 792.5315 | 22079.46 | 4808.868 | 660.5182 | 1250.313 |
| #3        | 792.1834 | 22122.54 | 4809.586 | 656.0383 | 1248.097 |

Sample Name: PB165106BL      Acquired: 11/20/2024 15:26:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS106      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001635 | -.003824 | -.001179 | .0047662 | .0005340 | .0056967 | -.002331 |
| Stddev | .000334  | .003645  | .001506  | .0038977 | .0020219 | .0048083 | .000311  |
| %RSD   | 20.44326 | 95.31193 | 127.7346 | 81.77796 | 378.6664 | 84.40558 | 13.35954 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.001855 | -.007855 | -.000075 | .0089002 | .0010974 | .0047319 | -.002109 |
| #2 | -.001250 | -.000762 | -.002895 | .0011582 | -.001710 | .0014439 | -.002687 |
| #3 | -.001798 | -.002855 | -.000568 | .0042402 | .002214  | .0109143 | -.002198 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000112 | -.000007 | .0286342 | .0012094 | -.000099 | .0014247 | -.002403 |
| Stddev | .000019  | .000069  | .0047934 | .0007599 | .000298  | .0020605 | .002649  |
| %RSD   | 17.22396 | 964.0238 | 16.74007 | 62.83048 | 301.6271 | 144.6248 | 110.2234 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000097 | -.000019 | .0249040 | .0007667 | .000245  | .0008758 | -.005421 |
| #2 | -.000105 | -.000070 | .0269581 | .0020869 | -.000253 | .0037041 | -.000463 |
| #3 | -.000134 | .000067  | .0340406 | .0007748 | -.000288 | -.000306 | -.001325 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0013435 | -.006245 | .0000357 | -.006434 | .4517271 | .0008099 | -.001205 |
| Stddev | .0002155 | .027355  | .0004547 | .000334  | .1447643 | .0022813 | .000458  |
| %RSD   | 16.04342 | 438.0317 | 1272.101 | 5.188090 | 32.04685 | 281.6858 | 37.99219 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012067 | -.008129 | .0005607 | -.006550 | .3877941 | .0021843 | -.001456 |
| #2 | .0012319 | -.032610 | -.000232 | -.006058 | .3499358 | -.001823 | -.000676 |
| #3 | .0015920 | .022003  | -.000221 | -.006695 | .6174514 | .002069  | -.001482 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.716963 | -.001894 | -.006670 | .0001341 | -.003142 | .0016352 | -.001794 |
| Stddev | .129153  | .002706  | .001053  | .0004238 | .006110  | .0005725 | .001075  |
| %RSD   | 18.01385 | 142.8438 | 15.79308 | 316.0923 | 194.4303 | 35.01059 | 59.88541 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.751648 | -.003118 | -.005902 | .0000775 | -.006761 | .0017748 | -.002353 |
| #2 | -.574009 | -.003772 | -.006238 | .0005834 | -.006578 | .0010058 | -.002474 |
| #3 | -.825231 | .001207  | -.007871 | -.000259 | .003912  | .0021249 | -.000556 |

Sample Name: PB165106BL      Acquired: 11/20/2024 15:26:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS106      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0000899 | -.011257 | -.000125 |
| Stddev | .0007933 | .001196  | .000066  |
| %RSD   | 882.9254 | 10.62829 | 53.09381 |
| #1     | -.000601 | -.011750 | -.000117 |
| #2     | .000956  | -.009893 | -.000195 |
| #3     | -.000086 | -.012129 | -.000063 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 924.9481 | 25391.64 | 4940.274 | 770.1284 | 1767.150 |
| Stddev    | .8159    | 105.91   | 3.639    | 2.0299   | 3.758    |
| %RSD      | .0882052 | .4170963 | .0736650 | .2635796 | .2126682 |
| #1        | 924.0163 | 25326.62 | 4944.307 | 771.1240 | 1763.749 |
| #2        | 925.5342 | 25334.46 | 4939.279 | 767.7930 | 1766.517 |
| #3        | 925.2938 | 25513.85 | 4937.236 | 771.4684 | 1771.185 |

Sample Name: PB165106BS      Acquired: 11/20/2024 15:31:15      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS106      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0189914 | .0526154 | .0187046 | .0629616 | .1095755 | .4025467 |
| Stddev | .0042985 | .0013214 | .0025336 | .0059105 | .0015968 | .0143641 |
| %RSD   | 22.63384 | 2.511343 | 13.54517 | 9.387453 | 1.457299 | 3.568316 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0155455 | .0530328 | .0197912 | .0564333 | .1091384 | .3922857 |
| #2 | .0176205 | .0536776 | .0158090 | .0679490 | .1082428 | .3963916 |
| #3 | .0238081 | .0511358 | .0205137 | .0645026 | .1113454 | .4189627 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4262715 | .0109328 | .0104395 | 10.98499 | .0220832 | .1015959 |
| Stddev | .0011976 | .0001726 | .0001227 | .04775   | .0005847 | .0008118 |
| %RSD   | .2809395 | 1.578919 | 1.175317 | .4346689 | 2.647658 | .7990820 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4266538 | .0107839 | .0103284 | 10.94862 | .0218529 | .1024997 |
| #2 | .4272313 | .0108924 | .0105712 | 11.03906 | .0216487 | .1013593 |
| #3 | .4249295 | .0111220 | .0104189 | 10.96728 | .0227479 | .1009286 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0523521 | .2346054 | .0340681 | 10.54754 | .0873047 | .0166655 |
| Stddev | .0014660 | .0134421 | .0006699 | .00300   | .0004940 | .0006002 |
| %RSD   | 2.800200 | 5.729671 | 1.966336 | .0284549 | .5658394 | 3.601538 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0538269 | .2486307 | .0342688 | 10.55071 | .0867417 | .0163853 |
| #2 | .0508952 | .2218344 | .0346148 | 10.54719 | .0876659 | .0162567 |
| #3 | .0523342 | .2333512 | .0333208 | 10.54474 | .0875064 | .0173546 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.74206 | .1098794 | .1297362 | 9.555584 | .0218406 | F -.005596 |
| Stddev | .54779   | .0092584 | .0004196 | .070653  | .0008947 | .000608    |
| %RSD   | 5.099459 | 8.425929 | .3234267 | .7393909 | 4.096678 | 10.86637   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.38287 | .1163375 | .1297316 | 9.483420 | .0219586 | -.006268 |
| #2 | 11.37255 | .0992722 | .1293189 | 9.558711 | .0208927 | -.005440 |
| #3 | 10.47075 | .1140285 | .1301581 | 9.624622 | .0226705 | -.005082 |

Sample Name: PB165106BS      Acquired: 11/20/2024 15:31:15      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS106      Custom ID2:      Custom ID3:  
Comment:

|        |            |          |            |          |          |            |
|--------|------------|----------|------------|----------|----------|------------|
| Elem   | Mo2020     | S_1820   | Si2516     | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm        | ppm      | ppm        | ppm      | ppm      | ppm        |
| Avg    | F .0203218 | .1928383 | F .4704240 | .0108501 | .2104505 | F .0197936 |
| Stddev | .0007144   | .0063184 | .0018558   | .0015309 | .0018139 | .0013726   |
| %RSD   | 3.515606   | 3.276513 | .3944927   | 14.10981 | .8619010 | 6.934337   |
| #1     | .0201067   | .1960103 | .4683486   | .0111014 | .2096401 | .0184745   |
| #2     | .0197396   | .1855623 | .4719239   | .0092091 | .2091831 | .0212140   |
| #3     | .0211190   | .1969423 | .4709994   | .0122398 | .2125283 | .0196924   |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2156752 |
| Stddev | .0006358 |
| %RSD   | .2947872 |
| #1     | .2156719 |
| #2     | .2163126 |
| #3     | .2150410 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 913.9508 | 24854.67 | 4911.130 | 754.8655 | 1693.256 |
| Stddev    | .6018    | 82.16    | 29.204   | 1.3372   | 2.749    |
| %RSD      | .0658513 | .3305593 | .5946544 | .1771472 | .1623635 |
| #1        | 913.5492 | 24876.60 | 4941.252 | 756.3623 | 1692.811 |
| #2        | 914.6428 | 24923.64 | 4882.940 | 753.7886 | 1696.200 |
| #3        | 913.6606 | 24763.77 | 4909.199 | 754.4456 | 1690.756 |



Sample Name: P4880-01      Acquired: 11/20/2024 15:35:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH78      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0492566 | -.006310 | .5007972 | -.006240 | .0072766 | 85.61473 | .7283507 |
| Stddev | .0112120 | .003002  | .0052880 | .003521  | .0022313 | .30381   | .0017178 |
| %RSD   | 22.76251 | 47.56716 | 1.055925 | 56.42759 | 30.66403 | .3548595 | .2358535 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0619384 | -.004816 | .5045136 | -.003748 | .0059215 | 85.27761 | .7274070 |
| #2 | .0451717 | -.004349 | .5031348 | -.010268 | .0098519 | 85.86734 | .7273115 |
| #3 | .0406598 | -.009765 | .4947432 | -.004704 | .0060564 | 85.69922 | .7303335 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0046872 | .0098459 | 302.8930 | .1590429 | .0754001 | .1940011 | 178.4970 |
| Stddev | .0000851 | .0000621 | .4758    | .0005570 | .0019035 | .0008273 | .6368    |
| %RSD   | 1.816300 | .6304306 | .1570986 | .3502359 | 2.524549 | .4264630 | .3567507 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0045984 | .0097955 | 302.5338 | .1590548 | .0738831 | .1948584 | 177.8077 |
| #2 | .0047681 | .0098269 | 302.7126 | .1595939 | .0775361 | .1932073 | 179.0633 |
| #3 | .0046951 | .0099152 | 303.4327 | .1584801 | .0747812 | .1939377 | 178.6201 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.413293 | 67.56940 | .2023141 | -.015858 | 2.017858 | .1989954 | .8268126 |
| Stddev | .012768  | .43012   | .0014910 | .000368  | .399617  | .0029890 | .0027769 |
| %RSD   | .2893098 | .6365589 | .7369621 | 2.323609 | 19.80401 | 1.502052 | .3358562 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.422176 | 67.17775 | .2031289 | -.015728 | 1.867987 | .2023897 | .8237318 |
| #2 | 4.398661 | 68.02973 | .2005933 | -.016274 | 1.714842 | .1978399 | .8275831 |
| #3 | 4.419040 | 67.50074 | .2032202 | -.015572 | 2.470745 | .1967566 | .8291229 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 6.390007 | 6.494806 | .1919003 | .0030706 | 4.050247 | 8.855328 | .0128747 |
| Stddev | .110166  | .017421  | .0029596 | .0002044 | .003990  | .035508  | .0030359 |
| %RSD   | 1.724035 | .2682332 | 1.542267 | 6.657745 | .0985246 | .4009788 | 23.58005 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 6.514155 | 6.484419 | .1906352 | .0031075 | 4.054320 | 8.839631 | .0163503 |
| #2 | 6.351957 | 6.485080 | .1952822 | .0032541 | 4.046345 | 8.895980 | .0115325 |
| #3 | 6.303910 | 6.514919 | .1897835 | .0028503 | 4.050078 | 8.830374 | .0107413 |

Sample Name: P4880-01      Acquired: 11/20/2024 15:35:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH78      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.649751 | .1258811 | .3753665 |
| Stddev | .005872  | .0009119 | .0005704 |
| %RSD   | .3559524 | .7244294 | .1519487 |
| #1     | 1.643020 | .1262148 | .3747210 |
| #2     | 1.652408 | .1265791 | .3755764 |
| #3     | 1.653825 | .1248493 | .3758022 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 946.5711 | 26084.65 | 5402.605 | 776.3282 | 1427.499 |
| Stddev    | .2089    | 16.67    | 8.279    | 1.3789   | 1.605    |
| %RSD      | .0220694 | .0639211 | .1532373 | .1776134 | .1124233 |
| #1        | 946.7652 | 26087.14 | 5402.030 | 776.0500 | 1427.366 |
| #2        | 946.3500 | 26099.94 | 5394.629 | 777.8249 | 1429.166 |
| #3        | 946.5981 | 26066.88 | 5411.156 | 775.1096 | 1425.965 |

Sample Name: P4880-02      Acquired: 11/20/2024 15:40:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH79      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0332426 | -.003925 | .2960944 | -.005253 | .0032548 | 42.23658 | .4353719 |
| Stddev | .0068926 | .004666  | .0013785 | .005396  | .0008637 | .06429   | .0012960 |
| %RSD   | 20.73435 | 118.8781 | .4655534 | 102.7229 | 26.53688 | .1522059 | .2976745 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0336943 | -.009028 | .2971846 | -.000813 | .0033791 | 42.18741 | .4358915 |
| #2 | .0261352 | -.002872 | .2965536 | -.003687 | .0040497 | 42.21299 | .4338967 |
| #3 | .0398983 | .000124  | .2945449 | -.011258 | .0023357 | 42.30933 | .4363274 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0021152 | .0044210 | 297.2172 | .0821494 | .0363009 | .1196366 | 97.39558 |
| Stddev | .0000186 | .0001533 | .3264    | .0007794 | .0002077 | .0010555 | .29336   |
| %RSD   | .8804952 | 3.468595 | .1098177 | .9487461 | .5720513 | .8822228 | .3012094 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0021212 | .0042439 | 297.0753 | .0828346 | .0362875 | .1201877 | 97.05688 |
| #2 | .0021301 | .0045084 | 296.9859 | .0823123 | .0361003 | .1184197 | 97.56985 |
| #3 | .0020943 | .0045106 | 297.5906 | .0813015 | .0365150 | .1203024 | 97.56002 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.259834 | 40.08484 | .0906697 | -.008475 | 3.214509 | .1182874 | .4800035 |
| Stddev | .001619  | .14980   | .0014868 | .000484  | .519500  | .0004916 | .0036687 |
| %RSD   | .0496603 | .3737102 | 1.639806 | 5.708964 | 16.16109 | .4156108 | .7642988 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.259021 | 39.91383 | .0895041 | -.007934 | 3.438028 | .1188549 | .4821274 |
| #2 | 3.261698 | 40.14781 | .0901609 | -.008865 | 2.620661 | .1179921 | .4757673 |
| #3 | 3.258783 | 40.19288 | .0923441 | -.008627 | 3.584838 | .1180151 | .4821158 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.993468 | 4.580004 | .1011019 | .0013433 | 2.004041 | 6.883051 | .0177280 |
| Stddev | .013837  | .008741  | .0008730 | .0002738 | .001640  | .019468  | .0021642 |
| %RSD   | .6940948 | .1908460 | .8634802 | 20.38171 | .0818302 | .2828415 | 12.20787 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.977560 | 4.589083 | .1020075 | .0012450 | 2.002213 | 6.864401 | .0201787 |
| #2 | 2.002701 | 4.571647 | .1002657 | .0011323 | 2.004526 | 6.903245 | .0160792 |
| #3 | 2.000145 | 4.579282 | .1010325 | .0016527 | 2.005383 | 6.881507 | .0169261 |

Sample Name: P4880-02      Acquired: 11/20/2024 15:40:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH79      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.028592 | .0525191 | .4569670 |
| Stddev | .002638  | .0003439 | .0004421 |
| %RSD   | .2565148 | .6547698 | .0967532 |
| #1     | 1.029494 | .0524700 | .4574774 |
| #2     | 1.025621 | .0522024 | .4567014 |
| #3     | 1.030661 | .0528849 | .4567223 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 918.8102 | 25313.02 | 5241.147 | 756.1116 | 1454.345 |
| Stddev    | .4662    | 97.92    | 2.095    | 6.7551   | 2.182    |
| %RSD      | .0507428 | .3868314 | .0399705 | .8933962 | .1500515 |
| #1        | 919.1260 | 25201.56 | 5243.494 | 749.8505 | 1456.021 |
| #2        | 918.2747 | 25385.23 | 5240.479 | 763.2708 | 1451.877 |
| #3        | 919.0298 | 25352.26 | 5239.467 | 755.2135 | 1455.136 |

Sample Name: P4880-03      Acquired: 11/20/2024 15:44:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH80      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0895232 | -.005457 | 4.119555 | .0005617 | .0103415 | 47.49494 |
| Stddev | .0092687 | .002637  | .022544  | .0057873 | .0039050 | .06095   |
| %RSD   | 10.35343 | 48.32386 | .5472377 | 1030.342 | 37.76066 | .1283325 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0816506 | -.008462 | 4.141661 | -.005547 | .0145562 | 47.47025 |
| #2 | .0871805 | -.003529 | 4.120407 | .001269  | .0096221 | 47.56436 |
| #3 | .0997385 | -.004379 | 4.096597 | .005963  | .0068462 | 47.45020 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.152708 | .0031364 | .0150833 | 301.4460 | .1176484 | .0523803 |
| Stddev | .005021  | .0000222 | .0003721 | .3060    | .0022751 | .0003978 |
| %RSD   | .2332265 | .7088911 | 2.466681 | .1015007 | 1.933790 | .7593691 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.157092 | .0031613 | .0153561 | 301.4024 | .1201501 | .0528396 |
| #2 | 2.147231 | .0031294 | .0152344 | 301.1642 | .1157031 | .0521456 |
| #3 | 2.153801 | .0031186 | .0146595 | 301.7715 | .1170921 | .0521558 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4032507 | 117.9457 | 6.126524 | 56.81979 | .1299542 | -.009146 |
| Stddev | .0012082 | .2922    | .004687  | .19876   | .0001978 | .000528  |
| %RSD   | .2996135 | .2477022 | .0765045 | .3498029 | .1522182 | 5.777026 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4025756 | 117.9056 | 6.122953 | 56.75399 | .1300165 | -.008611 |
| #2 | .4046456 | 118.2558 | 6.124787 | 57.04311 | .1301134 | -.009160 |
| #3 | .4025310 | 117.6756 | 6.131831 | 56.66228 | .1297328 | -.009667 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 3.838027 | .1232697 | 1.848919 | 2.556902 | F 11.33198 | .1509070 |
| Stddev | .512410  | .0029891 | .006039  | .044199  | .06158     | .0004516 |
| %RSD   | 13.35086 | 2.424808 | .3266401 | 1.728619 | .5434505   | .2992666 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 4.417917 | .1228910 | 1.849410 | 2.607797 | 11.39021 | .1509482 |
| #2 | 3.649861 | .1264301 | 1.854698 | 2.534746 | 11.33821 | .1504363 |
| #3 | 3.446303 | .1204881 | 1.842649 | 2.528164 | 11.26752 | .1513367 |

Sample Name: P4880-03      Acquired: 11/20/2024 15:44:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH80      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0023900 | 3.165415 | 9.316687 | .1507601 | 1.237139 | .0646104 |
| Stddev | .0002693 | .035592  | .031998  | .0009592 | .001065  | .0005264 |
| %RSD   | 11.26942 | 1.124391 | .3434463 | .6362271 | .0861135 | .8147116 |
| #1     | .0026520 | 3.202891 | 9.280085 | .1515434 | 1.237953 | .0644482 |
| #2     | .0021139 | 3.161287 | 9.339356 | .1510467 | 1.235933 | .0651989 |
| #3     | .0024042 | 3.132068 | 9.330620 | .1496903 | 1.237531 | .0641843 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .6000600 |
| Stddev | .0008688 |
| %RSD   | .1447871 |
| #1     | .6004209 |
| #2     | .6006902 |
| #3     | .5990689 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 954.9057 | 26432.56 | 5496.984 | 791.2474 | 1457.689 |
| Stddev    | 5.3832   | 55.83    | 17.087   | 4.1729   | 8.625    |
| %RSD      | .5637372 | .2112226 | .3108476 | .5273811 | .5917071 |
| #1        | 949.3310 | 26371.92 | 5516.048 | 790.7256 | 1450.600 |
| #2        | 955.3117 | 26443.94 | 5483.046 | 787.3601 | 1455.175 |
| #3        | 960.0744 | 26481.82 | 5491.859 | 795.6567 | 1467.292 |

Sample Name: P4880-04      Acquired: 11/20/2024 15:48:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH81      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068     | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .1009259 | -.001623 | 4.287447 | -.001025 | .0114681   | 55.24939 |
| Stddev | .0124034 | .003008  | .014145  | .007076  | .0002587   | 1.38927  |
| %RSD   | 12.28964 | 185.3420 | .3299230 | 690.2288 | 2.256301   | 2.514551 |
| #1     | .1060090 | -.000999 | 4.274818 | -.004415 | .0116927   | 53.68093 |
| #2     | .1099803 | -.004894 | 4.284790 | -.005769 | .0115265   | 56.32522 |
| #3     | .0867884 | .001024  | 4.302732 | .007108  | .0111852   | 55.74201 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677     | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.852882 | .0032576 | .0126124 | 327.8671 | .1297966   | .0961944 |
| Stddev | .046866  | .0001095 | .0004940 | 9.1530   | .0013455   | .0010723 |
| %RSD   | 2.529373 | 3.362741 | 3.916886 | 2.791690 | 1.036583   | 1.114669 |
| #1     | 1.799894 | .0031312 | .0131601 | 317.4105 | .1311096   | .0966850 |
| #2     | 1.888897 | .0033155 | .0122004 | 334.4269 | .1298591   | .0949646 |
| #3     | 1.869854 | .0033260 | .0124767 | 331.7638 | .1284209   | .0969335 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316     | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .6639044 | 193.2677 | 7.481879 | 60.51795 | .1618038   | -.014436 |
| Stddev | .0170075 | 5.0984   | .204910  | 1.66160  | .0013028   | .000804  |
| %RSD   | 2.561740 | 2.638020 | 2.738753 | 2.745635 | .8051886   | 5.567562 |
| #1     | .6455469 | 187.5032 | 7.248626 | 58.64796 | .1614409   | -.013552 |
| #2     | .6791253 | 197.1853 | 7.632901 | 61.82481 | .1607209   | -.015124 |
| #3     | .6670409 | 195.1145 | 7.564110 | 61.08109 | .1632496   | -.014632 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 4.240386 | .1593575 | 1.592357 | 3.963256 | F 13.78347 | .2215119 |
| Stddev | .264255  | .0073777 | .001600  | .246440  | .08373     | .0057494 |
| %RSD   | 6.231860 | 4.629625 | .1004509 | 6.218124 | .6074571   | 2.595544 |
| #1     | 4.278236 | .1537603 | 1.591229 | 3.695251 | 13.77961   | .2148891 |
| #2     | 4.483675 | .1677179 | 1.591654 | 4.014416 | 13.70174   | .2252234 |
| #3     | 3.959247 | .1565944 | 1.594187 | 4.180100 | 13.86906   | .2244232 |

Sample Name: P4880-04      Acquired: 11/20/2024 15:48:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH81      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0025443 | 3.279765 | 9.020605 | .1775264 | 1.157404 | .0755666 |
| Stddev | .0002163 | .019266  | .259085  | .0040206 | .030024  | .0024098 |
| %RSD   | 8.500844 | .5874293 | 2.872149 | 2.264770 | 2.594046 | 3.188907 |
| #1     | .0023310 | 3.277908 | 8.725072 | .1790394 | 1.124558 | .0732510 |
| #2     | .0025386 | 3.261494 | 9.208621 | .1729688 | 1.183432 | .0780606 |
| #3     | .0027634 | 3.299892 | 9.128123 | .1805709 | 1.164221 | .0753882 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .6719644 |
| Stddev | .0168124 |
| %RSD   | 2.501980 |
| #1     | .6530541 |
| #2     | .6852217 |
| #3     | .6776175 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 960.9584 | 26497.93 | 5550.187 | 793.8696 | 1447.494 |
| Stddev    | 2.2910   | 100.34   | 151.893  | 2.5690   | 5.086    |
| %RSD      | .2384118 | .3786677 | 2.736719 | .3236067 | .3513613 |
| #1        | 958.3746 | 26384.79 | 5724.296 | 793.3373 | 1444.184 |
| #2        | 962.7421 | 26532.88 | 5444.804 | 796.6630 | 1453.350 |
| #3        | 961.7584 | 26576.12 | 5481.461 | 791.6084 | 1444.947 |



Sample Name: P4880-05      Acquired: 11/20/2024 15:53:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH82      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1169587 | .0004200 | 3.879224 | .0005019 | .0106138 | 59.54085 |
| Stddev | .0055593 | .0041410 | .006534  | .0021082 | .0043952 | .09637   |
| %RSD   | 4.753174 | 985.9650 | .1684397 | 420.0243 | 41.41065 | .1618630 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1231982 | .0045447 | 3.883920 | -.000429 | .0154502 | 59.63631 |
| #2 | .1125325 | .0004525 | 3.871761 | -.000980 | .0095279 | 59.44358 |
| #3 | .1151454 | -.003737 | 3.881989 | .002915  | .0068633 | 59.54267 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.243723 | .0037765 | .0109247 | 514.4632 | .1407114 | .0674749 |
| Stddev | .005873  | .0002347 | .0004837 | 1.5061   | .0016908 | .0006063 |
| %RSD   | .2617424 | 6.213471 | 4.427330 | .2927459 | 1.201594 | .8986156 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.250329 | .0040052 | .0114825 | 515.6600 | .1387869 | .0680648 |
| #2 | 2.241744 | .0035364 | .0106713 | 514.9575 | .1413892 | .0668534 |
| #3 | 2.239095 | .0037879 | .0106205 | 512.7721 | .1419582 | .0675066 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.553565 | 127.8915 | 11.53386 | 76.16550 | .1495225 | -.005727 |
| Stddev | .007243  | .2095    | .03750   | .29926   | .0010385 | .000109  |
| %RSD   | .4662102 | .1638038 | .3251389 | .3929129 | .6945161 | 1.898619 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.561928 | 128.1327 | 11.57318 | 76.43377 | .1503211 | -.005804 |
| #2 | 1.549472 | 127.7550 | 11.52990 | 75.84273 | .1498979 | -.005773 |
| #3 | 1.549295 | 127.7868 | 11.49850 | 76.21998 | .1483486 | -.005602 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 4.783945 | .1576480 | 1.638275 | 4.974776 | F 40.93136 | .1939544 |
| Stddev | .307963  | .0028164 | .007421  | .014379  | .09936     | .0019755 |
| %RSD   | 6.437427 | 1.786520 | .4529590 | .2890432 | .2427392   | 1.018548 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 5.078038 | .1553418 | 1.636119 | 4.960863 | 40.81828 | .1953204 |
| #2 | 4.810025 | .1607869 | 1.632171 | 4.973884 | 41.00467 | .1948537 |
| #3 | 4.463771 | .1568154 | 1.646535 | 4.989580 | 40.97114 | .1916893 |

Sample Name: P4880-05      Acquired: 11/20/2024 15:53:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH82      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0037450 | 4.149760 | 9.892894 | .3097059 | 1.127739 | .0822391 |
| Stddev | .0005477 | .022094  | .020288  | .0010187 | .004038  | .0009714 |
| %RSD   | 14.62529 | .5324193 | .2050793 | .3289325 | .3580440 | 1.181198 |
| #1     | .0043120 | 4.146077 | 9.899446 | .3097513 | 1.132217 | .0826773 |
| #2     | .0037041 | 4.173464 | 9.909097 | .3107011 | 1.124376 | .0811258 |
| #3     | .0032189 | 4.129738 | 9.870140 | .3086652 | 1.126624 | .0829143 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.101043 |
| Stddev | .003016  |
| %RSD   | .2739262 |
| #1     | 1.104509 |
| #2     | 1.099601 |
| #3     | 1.099019 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 966.6770 | 26536.57 | 5567.358 | 795.3237 | 1375.767 |
| Stddev    | 2.3263   | 98.13    | 21.631   | 1.7662   | 1.168    |
| %RSD      | .2406482 | .3698034 | .3885414 | .2220747 | .0848951 |
| #1        | 964.0638 | 26592.37 | 5549.681 | 793.5489 | 1374.508 |
| #2        | 967.4448 | 26594.08 | 5560.913 | 797.0812 | 1375.976 |
| #3        | 968.5223 | 26423.26 | 5591.479 | 795.3412 | 1376.816 |

Sample Name: P4880-06      Acquired: 11/20/2024 15:57:43      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH83      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1174701 | .0003902 | 1.092115 | .0141487 | .0034866 | 60.10865 | 1.362006 |
| Stddev | .0024353 | .0018297 | .015177  | .0076874 | .0020674 | .38154   | .010921  |
| %RSD   | 2.073107 | 468.9361 | 1.389658 | 54.33310 | 59.29481 | .6347542 | .8018163 |
| #1     | .1174367 | .0024198 | 1.085692 | .0059651 | .0034575 | 59.76358 | 1.352594 |
| #2     | .1199219 | -.001133 | 1.081206 | .0152625 | .0014339 | 60.51840 | 1.373980 |
| #3     | .1150517 | -.000116 | 1.109447 | .0212185 | .0055684 | 60.04396 | 1.359443 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0027519 | .0078209 | 28.10325 | .1110747 | .0589852 | .2677537 | 129.6766 |
| Stddev | .0001132 | .0001590 | .29762   | .0011907 | .0008448 | .0018507 | .6231    |
| %RSD   | 4.113503 | 2.033256 | 1.059009 | 1.071980 | 1.432207 | .6911880 | .4805368 |
| #1     | .0028748 | .0078941 | 27.86375 | .1117907 | .0581642 | .2659534 | 129.1467 |
| #2     | .0027289 | .0076384 | 28.43643 | .1097002 | .0589396 | .2696510 | 130.3631 |
| #3     | .0026519 | .0079300 | 28.00956 | .1117332 | .0598519 | .2676568 | 129.5199 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.458205 | 23.59537 | .1207583 | -.018079 | 1.358493 | .1393160 | 1.352529 |
| Stddev | .082477  | .17146   | .0006897 | .000164  | .185187  | .0048351 | .001541  |
| %RSD   | .9751095 | .7266540 | .5711439 | .9067338 | 13.63180 | 3.470577 | .1139120 |
| #1     | 8.389445 | 23.42612 | .1203118 | -.018193 | 1.442812 | .1386371 | 1.352548 |
| #2     | 8.549651 | 23.76895 | .1204105 | -.018153 | 1.486516 | .1348563 | 1.354060 |
| #3     | 8.435520 | 23.59103 | .1215527 | -.017891 | 1.146152 | .1444547 | 1.350978 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.857863 | 5.511972 | .1220234 | .0008119 | 1.383390 | 8.010287 | .0256433 |
| Stddev | .110306  | .029725  | .0022748 | .0004222 | .020960  | .070623  | .0013924 |
| %RSD   | 3.859733 | .5392724 | 1.864244 | 51.99840 | 1.515146 | .8816519 | 5.429679 |
| #1     | 2.958184 | 5.491467 | .1203474 | .0006734 | 1.359244 | 7.952522 | .0272136 |
| #2     | 2.875667 | 5.498386 | .1246130 | .0012859 | 1.396902 | 8.089019 | .0251571 |
| #3     | 2.739738 | 5.546061 | .1211098 | .0004764 | 1.394024 | 7.989321 | .0245592 |

Sample Name: P4880-06      Acquired: 11/20/2024 15:57:43      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH83      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.043693 | .0685947 | .0811424 |
| Stddev | .005213  | .0003500 | .0007468 |
| %RSD   | .4994993 | .5101790 | .9203132 |
| #1     | 1.040991 | .0689454 | .0806124 |
| #2     | 1.049703 | .0682454 | .0819964 |
| #3     | 1.040386 | .0685933 | .0808183 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 969.4598 | 26666.48 | 5332.895 | 801.3785 | 1599.352 |
| Stddev    | 2.9895   | 38.53    | 49.481   | 1.7188   | 8.516    |
| %RSD      | .3083701 | .1445044 | .9278502 | .2144754 | .5324362 |
| #1        | 968.7289 | 26637.97 | 5371.023 | 800.6137 | 1600.931 |
| #2        | 972.7470 | 26651.15 | 5276.978 | 800.1750 | 1606.968 |
| #3        | 966.9035 | 26710.32 | 5350.683 | 803.3470 | 1590.158 |

Sample Name: P4880-07      Acquired: 11/20/2024 16:02:09      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH84      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1295682 | .0010541 | 2.306688 | -.001598 | .0043309 | 60.01138 | 2.779837 |
| Stddev | .0059915 | .0039776 | .003247  | .008951  | .0036255 | .10658   | .001706  |
| %RSD   | 4.624174 | 377.3486 | .1407460 | 560.2431 | 83.71205 | .1776076 | .0613609 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1321514 | .0028267 | 2.304874 | .008459  | .0063129 | 60.07551 | 2.778043 |
| #2 | .1338349 | -.003502 | 2.304754 | -.008693 | .0001465 | 60.07028 | 2.780029 |
| #3 | .1227185 | .003837  | 2.310436 | -.004558 | .0065333 | 59.88834 | 2.781439 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0028060 | .0102547 | 107.3028 | .1260689 | .0597908 | .4805884 | 151.8854 |
| Stddev | .0000649 | .0003341 | .1451    | .0006920 | .0005213 | .0054180 | .2834    |
| %RSD   | 2.311222 | 3.257948 | .1352326 | .5489072 | .8718400 | 1.127371 | .1865912 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0027817 | .0100706 | 107.2450 | .1263976 | .0602813 | .4750430 | 152.0813 |
| #2 | .0027567 | .0100532 | 107.1955 | .1265353 | .0592434 | .4858694 | 152.0145 |
| #3 | .0028795 | .0106404 | 107.4679 | .1252738 | .0598477 | .4808529 | 151.5605 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.354276 | 48.97243 | .1272768 | -.017151 | 1.536347 | .1533360 | 2.376467 |
| Stddev | .006517  | .23820   | .0016625 | .000208  | .043844  | .0036993 | .017339  |
| %RSD   | .0780113 | .4864013 | 1.306240 | 1.211493 | 2.853775 | 2.412550 | .7296072 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.357483 | 49.21457 | .1259582 | -.016929 | 1.495650 | .1533272 | 2.388784 |
| #2 | 8.346777 | 48.96435 | .1267277 | -.017341 | 1.582774 | .1496411 | 2.383977 |
| #3 | 8.358569 | 48.73837 | .1291444 | -.017183 | 1.530615 | .1570397 | 2.356639 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.084825 | 7.958401 | .1471699 | .0030872 | 2.009911 | 7.980561 | .0640588 |
| Stddev | .119161  | .032509  | .0012019 | .0012159 | .008864  | .019700  | .0020251 |
| %RSD   | 3.862817 | .4084871 | .8166749 | 39.38488 | .4410387 | .2468481 | 3.161237 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.191574 | 7.929211 | .1484655 | .0044861 | 2.012470 | 7.974019 | .0618158 |
| #2 | 3.106635 | 7.952556 | .1460913 | .0022840 | 2.000048 | 7.964964 | .0657525 |
| #3 | 2.956265 | 7.993436 | .1469528 | .0024915 | 2.017214 | 8.002700 | .0646082 |

Sample Name: P4880-07      Acquired: 11/20/2024 16:02:09      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH84      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.188229 | .0582650 | .1708351 |
| Stddev | .001940  | .0002802 | .0004490 |
| %RSD   | .1632287 | .4809624 | .2628397 |
| #1     | 1.190023 | .0580189 | .1710317 |
| #2     | 1.188492 | .0582061 | .1711522 |
| #3     | 1.186171 | .0585700 | .1703213 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 964.8675 | 26719.06 | 5464.864 | 799.5052 | 1516.395 |
| Stddev    | .1208    | 111.21   | 16.575   | 7.9511   | 1.490    |
| %RSD      | .0125216 | .4162352 | .3032982 | .9945041 | .0982786 |
| #1        | 965.0070 | 26611.79 | 5445.766 | 792.5745 | 1517.137 |
| #2        | 964.7985 | 26711.55 | 5473.327 | 797.7559 | 1517.368 |
| #3        | 964.7971 | 26833.83 | 5475.499 | 808.1854 | 1514.679 |

Sample Name: P4880-08      Acquired: 11/20/2024 16:06:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH85      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0989749 | -.001475 | 9.592076 | -.002381 | .0064735 | 67.08277 |
| Stddev | .0088602 | .003683  | .046230  | .006849  | .0028936 | .46722   |
| %RSD   | 8.951967 | 249.8016 | .4819633 | 287.6561 | 44.69867 | .6964796 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0921525 | .000224  | 9.571304 | .001897  | .0031648 | 67.56590 |
| #2 | .0957835 | .001053  | 9.559875 | -.010281 | .0077250 | 67.04913 |
| #3 | .1089887 | -.005701 | 9.645048 | .001240  | .0085307 | 66.63328 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 10.35348 | .0038887 | .0178838 | 191.4976 | .1500378 | .0662620 |
| Stddev | .06966   | .0001445 | .0002921 | 1.0082   | .0011230 | .0005792 |
| %RSD   | .6727962 | 3.715105 | 1.633387 | .5264925 | .7485031 | .8740693 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.42814 | .0040545 | .0177171 | 192.5014 | .1487869 | .0655982 |
| #2 | 10.34209 | .0038218 | .0177133 | 191.5062 | .1503672 | .0666646 |
| #3 | 10.29023 | .0037898 | .0182211 | 190.4851 | .1509593 | .0665231 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6656112 | 141.9360 | 6.429062 | 49.88022 | .2010001 | -.013831 |
| Stddev | .0065206 | 1.0872   | .026886  | .36203   | .0017442 | .000483  |
| %RSD   | .9796348 | .7660008 | .4181939 | .7257940 | .8677504 | 3.495092 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6728291 | 143.0320 | 6.454346 | 50.29820 | .1995023 | -.014329 |
| #2 | .6638578 | 141.9183 | 6.432022 | 49.67735 | .2005830 | -.013802 |
| #3 | .6601465 | 140.8577 | 6.400819 | 49.66512 | .2029151 | -.013364 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.946762 | .1730137 | 6.870718 | 4.205231 | F 13.79154 | .1674446 |
| Stddev | .161408  | .0026182 | .069753  | .037450  | .07964     | .0010419 |
| %RSD   | 8.291078 | 1.513284 | 1.015216 | .8905591 | .5774200   | .6222515 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.881114 | .1720807 | 6.829867 | 4.246270 | 13.75195 | .1682086 |
| #2 | 2.130650 | .1759706 | 6.831029 | 4.196516 | 13.73946 | .1678676 |
| #3 | 1.828523 | .1709899 | 6.951259 | 4.172906 | 13.88321 | .1662577 |

Sample Name: P4880-08      Acquired: 11/20/2024 16:06:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH85      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0036402 | 4.935767 | 9.481107 | .1665681 | 1.655948 | .0750694 |
| Stddev | .0008059 | .018559  | .042264  | .0018221 | .013925  | .0013951 |
| %RSD   | 22.13886 | .3760078 | .4457667 | 1.093927 | .8409075 | 1.858432 |
| #1     | .0040278 | 4.917865 | 9.523291 | .1646734 | 1.671986 | .0763258 |
| #2     | .0027137 | 4.934516 | 9.481267 | .1683077 | 1.648922 | .0753144 |
| #3     | .0041789 | 4.954919 | 9.438764 | .1667234 | 1.646935 | .0735680 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .5390443 |
| Stddev | .0036681 |
| %RSD   | .6804754 |
| #1     | .5431790 |
| #2     | .5377725 |
| #3     | .5361814 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 981.6168 | 27184.58 | 5583.331 | 816.2737 | 1478.697 |
| Stddev    | 2.4761   | 75.17    | 24.465   | 7.1763   | 5.630    |
| %RSD      | .2522521 | .2765185 | .4381835 | .8791531 | .3807135 |
| #1        | 982.5483 | 27223.09 | 5559.518 | 821.2006 | 1478.768 |
| #2        | 983.4920 | 27232.69 | 5582.076 | 819.5802 | 1484.290 |
| #3        | 978.8099 | 27097.95 | 5608.400 | 808.0402 | 1473.032 |



Sample Name: P4880-09      Acquired: 11/20/2024 16:10:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH86      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1302527 | -.003074 | 12.27140 | -.004553 | .0117045 | 52.72954 |
| Stddev | .0089726 | .003923  | .02634   | .012057  | .0011788 | .61579   |
| %RSD   | 6.888629 | 127.6098 | .2146178 | 264.7932 | 10.07150 | 1.167837 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1227731 | .000778  | 12.25720 | .009360  | .0124509 | 52.10978 |
| #2 | .1277837 | -.002937 | 12.25521 | -.011951 | .0103455 | 53.34129 |
| #3 | .1402014 | -.007063 | 12.30179 | -.011069 | .0123171 | 52.73754 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 17.30638 | .0033916 | .0232308 | 314.6954 | .1616939 | .0639364 |
| Stddev | .22675   | .0000743 | .0002069 | 4.0099   | .0032047 | .0006552 |
| %RSD   | 1.310219 | 2.191984 | .8907044 | 1.274203 | 1.981961 | 1.024745 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 17.15798 | .0033335 | .0230166 | 310.3148 | .1638826 | .0634391 |
| #2 | 17.56740 | .0033660 | .0232463 | 318.1845 | .1631837 | .0636913 |
| #3 | 17.19377 | .0034754 | .0234295 | 315.5870 | .1580155 | .0646788 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .9484145 | 133.2082 | 7.316815 | 49.61088 | .2108289 | -.007568 |
| Stddev | .0081228 | 1.5923   | .086250  | .50940   | .0008664 | .001227  |
| %RSD   | .8564630 | 1.195315 | 1.178789 | 1.026788 | .4109326 | 16.20737 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9390654 | 131.4970 | 7.220957 | 49.08342 | .2118004 | -.007406 |
| #2 | .9537413 | 134.6462 | 7.388142 | 50.10005 | .2105500 | -.006431 |
| #3 | .9524368 | 133.4812 | 7.341346 | 49.64916 | .2101363 | -.008868 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.170506 | .1438093 | 12.09629 | 5.619879 | F 17.51521 | .1952743 |
| Stddev | .084471  | .0032702 | .17050   | .231135  | .03499     | .0027592 |
| %RSD   | 3.891743 | 2.273960 | 1.409525 | 4.112803 | .1997505   | 1.412959 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.267972 | .1402440 | 12.14545 | 5.360602 | 17.53212 | .1935082 |
| #2 | 2.118509 | .1466692 | 12.23681 | 5.804335 | 17.47498 | .1984538 |
| #3 | 2.125039 | .1445149 | 11.90661 | 5.694698 | 17.53853 | .1938610 |

Sample Name: P4880-09      Acquired: 11/20/2024 16:10:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH86      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0050259 | 6.549855 | 8.201367 | .3025581 | 2.172196 | .0574622 |
| Stddev | .0001457 | .014405  | .086482  | .0021220 | .022741  | .0004008 |
| %RSD   | 2.898922 | .2199296 | 1.054477 | .7013347 | 1.046903 | .6974857 |
| #1     | .0051771 | 6.562227 | 8.116253 | .3016852 | 2.153059 | .0578021 |
| #2     | .0048865 | 6.534041 | 8.289154 | .3010118 | 2.197336 | .0575642 |
| #3     | .0050140 | 6.553297 | 8.198695 | .3049773 | 2.166193 | .0570203 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .8382027 |
| Stddev | .0092896 |
| %RSD   | 1.108278 |
| #1     | .8288149 |
| #2     | .8473909 |
| #3     | .8384023 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 951.8434 | 26593.65 | 5465.631 | 797.5877 | 1441.265 |
| Stddev    | 3.0186   | 419.41   | 58.166   | 9.8070   | 3.955    |
| %RSD      | .3171337 | 1.577108 | 1.064212 | 1.229586 | .2744409 |
| #1        | 950.1260 | 26434.93 | 5529.498 | 794.1647 | 1440.311 |
| #2        | 955.3288 | 26276.77 | 5415.697 | 789.9510 | 1445.610 |
| #3        | 950.0752 | 27069.26 | 5451.696 | 808.6475 | 1437.873 |

Sample Name: P4880-10      Acquired: 11/20/2024 16:15:27      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH87      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1354192 | -.001311 | 9.702145 | .0027000 | .0046800 | 55.55713 |
| Stddev | .0072326 | .005019  | .034099  | .0083236 | .0025202 | .17594   |
| %RSD   | 5.340893 | 382.9292 | .3514578 | 308.2800 | 53.84874 | .3166805 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1430050 | -.003977 | 9.705312 | -.006422 | .0047055 | 55.66927 |
| #2 | .1346515 | -.004435 | 9.666573 | .009882  | .0071873 | 55.64776 |
| #3 | .1286010 | .004479  | 9.734550 | .004641  | .0021472 | 55.35435 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.381984 | .0034828 | .0186162 | 246.6083 | .1578047 | .0646771 |
| Stddev | .023151  | .0000458 | .0002199 | .4774    | .0010990 | .0008516 |
| %RSD   | .2762039 | 1.314618 | 1.181228 | .1935716 | .6964395 | 1.316700 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 8.404985 | .0034664 | .0184002 | 247.0017 | .1568249 | .0655811 |
| #2 | 8.358685 | .0035345 | .0186084 | 246.0772 | .1589931 | .0638900 |
| #3 | 8.382283 | .0034474 | .0188398 | 246.7458 | .1575960 | .0645601 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7399946 | 133.2088 | 7.483753 | 44.35468 | .1867135 | -.010763 |
| Stddev | .0038131 | .4991    | .028066  | .15805   | .0017158 | .000503  |
| %RSD   | .5152877 | .3746805 | .3750271 | .3563408 | .9189258 | 4.671329 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .7443197 | 133.1588 | 7.508684 | 44.31831 | .1882430 | -.011028 |
| #2 | .7371178 | 133.7311 | 7.453356 | 44.52775 | .1848582 | -.011078 |
| #3 | .7385464 | 132.7367 | 7.489221 | 44.21799 | .1870391 | -.010183 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.131465 | .1581014 | 7.220888 | 4.339942 | F 16.91660 | .1647022 |
| Stddev | .316190  | .0036669 | .014405  | .138411  | .06619     | .0015276 |
| %RSD   | 14.83439 | 2.319302 | .1994960 | 3.189232 | .3912619   | .9274809 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.467224 | .1577879 | 7.236080 | 4.483040 | 16.96209 | .1635737 |
| #2 | 2.087786 | .1546014 | 7.207425 | 4.206751 | 16.84066 | .1664405 |
| #3 | 1.839386 | .1619150 | 7.219159 | 4.330036 | 16.94703 | .1640924 |

Sample Name: P4880-10      Acquired: 11/20/2024 16:15:27      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH87      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0045457 | 4.136069 | 10.33246 | .2364057 | 1.507405 | .0588437 |
| Stddev | .0003854 | .029321  | .02758   | .0017419 | .007549  | .0010716 |
| %RSD   | 8.477849 | .7089206 | .2669240 | .7368330 | .5007797 | 1.821117 |
| #1     | .0047899 | 4.155120 | 10.36198 | .2345323 | 1.511409 | .0584625 |
| #2     | .0047457 | 4.102305 | 10.32806 | .2379765 | 1.512109 | .0600538 |
| #3     | .0041014 | 4.150784 | 10.30735 | .2367084 | 1.498698 | .0580148 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .5903285 |
| Stddev | .0023972 |
| %RSD   | .4060752 |
| #1     | .5930918 |
| #2     | .5888067 |
| #3     | .5890871 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 993.7584 | 27361.05 | 5627.373 | 814.1076 | 1501.347 |
| Stddev    | 2.6980   | 24.47    | 13.815   | 2.0616   | 5.153    |
| %RSD      | .2714960 | .0894274 | .2454906 | .2532381 | .3432575 |
| #1        | 992.6674 | 27332.80 | 5614.051 | 812.1510 | 1501.074 |
| #2        | 996.8311 | 27374.63 | 5626.436 | 813.9117 | 1506.631 |
| #3        | 991.7767 | 27375.71 | 5641.633 | 816.2602 | 1496.335 |

Sample Name: CCV036      Acquired: 11/20/2024 16:19:50      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV036      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.982603 | 4.682799 | 24.18713 | 4.687737 | 4.766841 | 402.1664 | 9.897136 |
| Stddev | .003069  | .009736  | .01824   | .025667  | .006232  | .8412    | .009842  |
| %RSD   | .0615962 | .2079144 | .0754084 | .5475283 | .1307395 | .2091636 | .0994383 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.985780 | 4.688377 | 24.17749 | 4.693922 | 4.773894 | 402.8316 | 9.893719 |
| #2 | 4.979655 | 4.671557 | 24.17573 | 4.659543 | 4.762077 | 401.2208 | 9.889459 |
| #3 | 4.982373 | 4.688463 | 24.20817 | 4.709746 | 4.764552 | 402.4467 | 9.908231 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4838883 | 2.426322 | 392.9991 | 14.71266 | 2.439151 | 14.53615 | 404.0748 |
| Stddev | .0031091 | .001141  | .5431    | .05253   | .005784  | .03180   | 1.0263   |
| %RSD   | .6425283 | .0470092 | .1381893 | .3570246 | .2371338 | .2187534 | .2539899 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4868056 | 2.425960 | 393.2195 | 14.70136 | 2.433426 | 14.56622 | 405.1913 |
| #2 | .4806175 | 2.425406 | 392.3805 | 14.66671 | 2.439036 | 14.50286 | 403.1725 |
| #3 | .4842418 | 2.427599 | 393.3974 | 14.76992 | 2.444992 | 14.53938 | 403.8605 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.14358 | 395.0173 | 2.415239 | 1.208770 | 402.3919 | 2.422685 | 13.96954 |
| Stddev | .00770   | 1.4753   | .001489  | .003605  | .8468    | .015296  | .00799   |
| %RSD   | .0544128 | .3734792 | .0616367 | .2981970 | .2104432 | .6313840 | .0572001 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.15037 | 396.6215 | 2.416500 | 1.205030 | 403.2235 | 2.423466 | 13.97833 |
| #2 | 14.13522 | 393.7188 | 2.413596 | 1.209060 | 401.5306 | 2.407013 | 13.96757 |
| #3 | 14.14515 | 394.7117 | 2.415620 | 1.212221 | 402.4217 | 2.437575 | 13.96272 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 147.0562 | 4.855916 | 5.143537 | 4.667412 | 4.965135 | 5.226331 | 4.855880 |
| Stddev | .4403    | .018066  | .024546  | .009160  | .008540  | .035661  | .003577  |
| %RSD   | .2994389 | .3720428 | .4772233 | .1962445 | .1719940 | .6823270 | .0736724 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 147.5224 | 4.854293 | 5.169670 | 4.677859 | 4.969675 | 5.259468 | 4.856653 |
| #2 | 146.6474 | 4.838716 | 5.120968 | 4.663616 | 4.970446 | 5.188594 | 4.851980 |
| #3 | 146.9987 | 4.874739 | 5.139972 | 4.660761 | 4.955285 | 5.230932 | 4.859008 |

Sample Name: CCV036      Acquired: 11/20/2024 16:19:50      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV036      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.861339 | 4.979660 | 4.911585 |
| Stddev | .005192  | .003929  | .032648  |
| %RSD   | .1068007 | .0789006 | .6647228 |
| #1     | 4.862745 | 4.983876 | 4.947712 |
| #2     | 4.855589 | 4.976101 | 4.884191 |
| #3     | 4.865683 | 4.979002 | 4.902853 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 730.1156 | 21563.30 | 4726.428 | 566.6776 | 1263.881 |
| Stddev    | 2.4169   | 77.76    | 31.130   | 1.0268   | 2.945    |
| %RSD      | .3310234 | .3606252 | .6586355 | .1811915 | .2330127 |
| #1        | 727.8197 | 21609.80 | 4700.341 | 565.8669 | 1260.888 |
| #2        | 729.8896 | 21606.57 | 4760.889 | 567.8322 | 1263.978 |
| #3        | 732.6375 | 21473.52 | 4718.055 | 566.3337 | 1266.776 |

Sample Name: CCB036      Acquired: 11/20/2024 16:24:12      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB036      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0039102 | -.001694 | .0013573 | .0050973 | -.000999 | .0069787 | -.003005 |
| Stddev | .0024588 | .001828  | .0035212 | .0023835 | .001332  | .0123338 | .000546  |
| %RSD   | 62.88154 | 107.8827 | 259.4337 | 46.75883 | 133.3129 | 176.7339 | 18.16703 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0017078 | -.002370 | -.001687 | .0044954 | -.001955 | -.005496 | -.003635 |
| #2 | .0065632 | -.003089 | .005214  | .0077241 | .000522  | .007265  | -.002681 |
| #3 | .0034598 | .000375  | .000545  | .0030725 | -.001564 | .019167  | -.002699 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000129 | -.000049 | .0106714 | .0003640 | -.000022 | .0018353 | .0014276 |
| Stddev | .000044  | .000077  | .0064361 | .0008845 | .000228  | .0005219 | .0108433 |
| %RSD   | 33.90463 | 157.5347 | 60.31187 | 242.9671 | 1023.860 | 28.43498 | 759.5239 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000129 | -.000133 | .0180914 | .0013437 | -.000185 | .0015400 | .0056463 |
| #2 | -.000172 | -.000035 | .0073240 | .0001246 | -.000121 | .0024379 | -.010891 |
| #3 | -.000085 | .000020  | .0065988 | -.000376 | .000239  | .0015281 | .009528  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0003949 | -.009762 | .0007940 | -.006924 | -.181970 | .0040419 | -.000686 |
| Stddev | .0002038 | .030533  | .0003903 | .000490  | .366805  | .0065209 | .000531  |
| %RSD   | 51.61650 | 312.7889 | 49.14898 | 7.073829 | 201.5748 | 161.3316 | 77.29202 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0003627 | -.010540 | .0012367 | -.006386 | .216936  | -.003145 | -.000075 |
| #2 | .0006129 | .021153  | .0006456 | -.007042 | -.504716 | .005690  | -.000958 |
| #3 | .0002091 | -.039898 | .0004998 | -.007345 | -.258129 | .009581  | -.001027 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.682919 | .0006517 | .0011521 | -.000038 | -.004899 | .0024207 | -.000316 |
| Stddev | .143009  | .0009571 | .0011565 | .000117  | .004626  | .0012146 | .001050  |
| %RSD   | 20.94090 | 146.8717 | 100.3829 | 304.0471 | 94.42451 | 50.17560 | 332.1341 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.549857 | .0016633 | .0020495 | -.000123 | -.008931 | .0022636 | -.001330 |
| #2 | -.664760 | .0005314 | .0015600 | -.000087 | -.005918 | .0012923 | .000767  |
| #3 | -.834141 | -.000240 | -.000153 | .000095  | .000151  | .0037063 | -.000386 |

Sample Name: CCB036      Acquired: 11/20/2024 16:24:12      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB036      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0005076 | -.008137 | -.000067 |
| Stddev | .0003873 | .001103  | .000055  |
| %RSD   | 76.30062 | 13.55003 | 83.22958 |
| #1     | .0002915 | -.007319 | -.000038 |
| #2     | .0002765 | -.009391 | -.000031 |
| #3     | .0009547 | -.007700 | -.000130 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 926.1122 | 25384.03 | 4983.486 | 771.3967 | 1767.948 |
| Stddev    | 2.7947   | 69.80    | 31.577   | 2.5629   | 4.194    |
| %RSD      | .3017692 | .2749623 | .6336393 | .3322461 | .2372019 |
| #1        | 925.4338 | 25304.63 | 4979.293 | 769.0944 | 1767.919 |
| #2        | 923.7192 | 25411.75 | 5016.950 | 770.9373 | 1763.768 |
| #3        | 929.1837 | 25435.70 | 4954.214 | 774.1582 | 1772.156 |



Sample Name: P4880-11      Acquired: 11/20/2024 16:28:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH88      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1242687 | -.002617 | 1.369139 | -.005148 | .0133391 | 63.04670 | .8554383 |
| Stddev | .0153014 | .003650  | .000927  | .003853  | .0015995 | .01931   | .0023259 |
| %RSD   | 12.31316 | 139.4922 | .0677192 | 74.84395 | 11.99134 | .0306242 | .2718898 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1384072 | -.006776 | 1.368248 | -.004511 | .0115943 | 63.03387 | .8574622 |
| #2 | .1263761 | -.001130 | 1.369070 | -.001653 | .0136869 | 63.06890 | .8559551 |
| #3 | .1080228 | .000055  | 1.370099 | -.009280 | .0147361 | 63.03731 | .8528975 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0032881 | .0211613 | 282.4990 | .1732916 | .0622663 | .3248177 | 186.7750 |
| Stddev | .0000123 | .0002318 | .6087    | .0014570 | .0003650 | .0026922 | .1600    |
| %RSD   | .3731774 | 1.095435 | .2154866 | .8407619 | .5861939 | .8288280 | .0856731 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0032828 | .0214165 | 282.8436 | .1716766 | .0624272 | .3233895 | 186.6038 |
| #2 | .0033021 | .0209638 | 282.8574 | .1736911 | .0625233 | .3279230 | 186.8007 |
| #3 | .0032794 | .0211036 | 281.7962 | .1745072 | .0618485 | .3231405 | 186.9207 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.570934 | 72.52397 | .1938556 | -.016090 | 2.677140 | .1654890 | 2.473626 |
| Stddev | .005061  | .24477   | .0006634 | .000308  | .283688  | .0018515 | .012878  |
| %RSD   | .1107276 | .3375033 | .3422220 | 1.916392 | 10.59670 | 1.118789 | .5206325 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.574398 | 72.35907 | .1931037 | -.016410 | 3.003011 | .1638319 | 2.487990 |
| #2 | 4.573278 | 72.40763 | .1941046 | -.015795 | 2.543102 | .1651478 | 2.463112 |
| #3 | 4.565126 | 72.80521 | .1943585 | -.016065 | 2.485307 | .1674874 | 2.469775 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.644094 | 9.957325 | .2044277 | .0112436 | 6.859584 | 11.40686 | .0322757 |
| Stddev | .050037  | .025893  | .0024933 | .0007185 | .008304  | .08726   | .0003614 |
| %RSD   | 1.373107 | .2600422 | 1.219664 | 6.390100 | .1210560 | .7649882 | 1.119831 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.609726 | 9.951306 | .2026642 | .0105640 | 6.864518 | 11.50679 | .0320501 |
| #2 | 3.621055 | 9.934972 | .2072803 | .0111714 | 6.849997 | 11.34567 | .0326926 |
| #3 | 3.701500 | 9.985698 | .2033387 | .0119955 | 6.864237 | 11.36813 | .0320844 |

Sample Name: P4880-11      Acquired: 11/20/2024 16:28:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH88      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.263004 | .0750614 | .4370078 |
| Stddev | .003264  | .0017318 | .0005037 |
| %RSD   | .2584074 | 2.307208 | .1152605 |
| #1     | 1.262295 | .0745486 | .4371534 |
| #2     | 1.266564 | .0769917 | .4374227 |
| #3     | 1.260153 | .0736438 | .4364474 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 932.4471 | 25928.53 | 5388.367 | 775.3538 | 1442.585 |
| Stddev    | 2.7500   | 23.21    | 24.702   | 2.1421   | 4.011    |
| %RSD      | .2949210 | .0895235 | .4584393 | .2762758 | .2780758 |
| #1        | 929.2985 | 25954.87 | 5360.447 | 772.8863 | 1438.005 |
| #2        | 933.6650 | 25919.63 | 5407.383 | 776.7358 | 1445.474 |
| #3        | 934.3778 | 25911.08 | 5397.271 | 776.4394 | 1444.276 |

Sample Name: P4880-12      Acquired: 11/20/2024 16:33:07      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH89      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0646253 | -.002490 | 2.720511 | -.005598 | .0080652 | 29.97146 |
| Stddev | .0035751 | .004828  | .005720  | .004268  | .0036808 | .07274   |
| %RSD   | 5.532003 | 193.8836 | .2102615 | 76.25060 | 45.63799 | .2427133 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0615327 | -.007258 | 2.724085 | -.004011 | .0062793 | 30.04065 |
| #2 | .0638035 | -.002607 | 2.713914 | -.010432 | .0056180 | 29.97810 |
| #3 | .0685398 | .002395  | 2.723536 | -.002350 | .0122982 | 29.89562 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | 1.029255 | .0019714 | .0122920 | F 910.9368 | .1000714 | .0337421 |
| Stddev | .002442  | .0000918 | .0000763 | 2.0876     | .0003832 | .0009820 |
| %RSD   | .2372767 | 4.657580 | .6205531 | .2291689   | .3829445 | 2.910177 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.031768 | .0020632 | .0122680 | 909.4237 | .1003659 | .0347381 |
| #2 | 1.029106 | .0018796 | .0123774 | 913.3184 | .0996381 | .0337134 |
| #3 | 1.026890 | .0019713 | .0122306 | 910.0682 | .1002102 | .0327748 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2660707 | 87.83592 | 5.980784 | 460.0904 | .1381244 | .0080054 |
| Stddev | .0035669 | .15823   | .012863  | 1.1425   | .0018354 | .0001501 |
| %RSD   | 1.340568 | .1801440 | .2150694 | .2483248 | 1.328824 | 1.875446 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2639370 | 88.01711 | 5.975110 | 460.6333 | .1392288 | .0080727 |
| #2 | .2701884 | 87.76571 | 5.995508 | 460.8602 | .1360056 | .0081101 |
| #3 | .2640865 | 87.72495 | 5.971734 | 458.7776 | .1391386 | .0078333 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.062299 | .0973581 | 2.625158 | 2.255264 | 6.661760 | .1273421 |
| Stddev | .274550  | .0062649 | .013275  | .124780  | .025941  | .0028988 |
| %RSD   | 13.31283 | 6.434889 | .5056930 | 5.532829 | .3894055 | 2.276383 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.857805 | .1022324 | 2.633309 | 2.397805 | 6.642828 | .1283891 |
| #2 | 1.954751 | .0902917 | 2.609840 | 2.165786 | 6.651124 | .1295720 |
| #3 | 2.374343 | .0995502 | 2.632326 | 2.202200 | 6.691329 | .1240653 |

Sample Name: P4880-12      Acquired: 11/20/2024 16:33:07      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH89      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0032453 | 13.79901 | 10.49032 | .0728808 | .6497470 | .0435188 |
| Stddev | .0005179 | .05973   | .03163   | .0019620 | .0032739 | .0006962 |
| %RSD   | 15.95729 | .4328903 | .3015169 | 2.692076 | .5038723 | 1.599742 |
| #1     | .0038071 | 13.75914 | 10.46215 | .0745432 | .6534490 | .0442350 |
| #2     | .0027869 | 13.77020 | 10.52454 | .0707166 | .6485595 | .0434768 |
| #3     | .0031421 | 13.86769 | 10.48428 | .0733825 | .6472326 | .0428446 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .4591694 |
| Stddev | .0010226 |
| %RSD   | .2226962 |
| #1     | .4597907 |
| #2     | .4597283 |
| #3     | .4579892 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 830.8256 | 22955.01 | 4969.381 | 684.9598 | 1255.279 |
| Stddev    | .1832    | 112.50   | 17.041   | 3.5752   | 2.504    |
| %RSD      | .0220511 | .4900804 | .3429130 | .5219556 | .1994467 |
| #1        | 830.8026 | 22848.73 | 4965.439 | 680.9296 | 1256.770 |
| #2        | 830.6550 | 22943.46 | 4954.657 | 687.7494 | 1256.677 |
| #3        | 831.0192 | 23072.84 | 4988.048 | 686.2005 | 1252.388 |

Sample Name: P4880-13      Acquired: 11/20/2024 16:37:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH90      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1216038 | .0000179 | 5.547329 | .0025642 | .0374685 | 50.07603 | 3.520652 |
| Stddev | .0014818 | .0023890 | .018232  | .0043152 | .0027901 | .19367   | .012159  |
| %RSD   | 1.218551 | 13348.57 | .3286637 | 168.2888 | 7.446500 | .3867432 | .3453570 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1206935 | -.002491 | 5.529406 | .0052102 | .0387710 | 49.85745 | 3.506755 |
| #2 | .1233137 | .002266  | 5.546727 | -.002415 | .0393691 | 50.22621 | 3.525872 |
| #3 | .1208042 | .000278  | 5.565855 | .004898  | .0342653 | 50.14444 | 3.529329 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0034905 | .0145617 | 295.4831 | .1919912 | .0528015 | 1.103922 | 111.4285 |
| Stddev | .0000450 | .0001155 | .9350    | .0033134 | .0006372 | .004105  | .4631    |
| %RSD   | 1.289716 | .7932888 | .3164184 | 1.725832 | 1.206780 | .3718416 | .4156128 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0034519 | .0144773 | 294.4373 | .1881705 | .0521634 | 1.099371 | 111.0053 |
| #2 | .0035400 | .0146933 | 296.2381 | .1937260 | .0534378 | 1.105048 | 111.9232 |
| #3 | .0034798 | .0145145 | 295.7739 | .1940770 | .0528034 | 1.107346 | 111.3569 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.794075 | 109.2870 | .1620601 | -.005754 | 1.957978 | .1530085 | 3.751744 |
| Stddev | .009647  | .2649    | .0004343 | .000472  | .165966  | .0082475 | .020458  |
| %RSD   | .1664969 | .2424293 | .2680037 | 8.205076 | 8.476415 | 5.390257 | .5452817 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.783086 | 109.0522 | .1625613 | -.006003 | 1.952640 | .1594471 | 3.732880 |
| #2 | 5.797989 | 109.5742 | .1617962 | -.006049 | 2.126548 | .1558664 | 3.748863 |
| #3 | 5.801150 | 109.2346 | .1618226 | -.005209 | 1.794745 | .1437122 | 3.773490 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.385246 | 9.457386 | .1367307 | .0064352 | 6.427660 | 10.59996 | .3201572 |
| Stddev | .178368  | .031862  | .0010456 | .0004895 | .014675  | .04970   | .0026447 |
| %RSD   | 7.477964 | .3368996 | .7647058 | 7.606978 | .2283085 | .4688540 | .8260482 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.236321 | 9.422118 | .1379343 | .0069851 | 6.415488 | 10.54894 | .3171038 |
| #2 | 2.582920 | 9.484094 | .1362107 | .0062733 | 6.443956 | 10.64823 | .3217252 |
| #3 | 2.336497 | 9.465945 | .1360470 | .0060471 | 6.423538 | 10.60271 | .3216426 |

Sample Name: P4880-13      Acquired: 11/20/2024 16:37:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH90      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.016236 | .0668684 | .4580735 |
| Stddev | .003519  | .0011627 | .0009965 |
| %RSD   | .3462752 | 1.738797 | .2175421 |
| #1     | 1.013076 | .0665327 | .4569901 |
| #2     | 1.020028 | .0659105 | .4589509 |
| #3     | 1.015603 | .0681620 | .4582796 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 934.6257 | 25538.13 | 5324.265 | 763.8130 | 1436.069 |
| Stddev    | 1.4479   | 146.17   | 19.556   | 3.0816   | 2.273    |
| %RSD      | .1549212 | .5723651 | .3672998 | .4034469 | .1582457 |
| #1        | 936.2902 | 25691.34 | 5334.749 | 766.8030 | 1438.664 |
| #2        | 933.6568 | 25522.86 | 5301.702 | 763.9888 | 1435.113 |
| #3        | 933.9301 | 25400.20 | 5336.342 | 760.6473 | 1434.431 |

Sample Name: P4880-14      Acquired: 11/20/2024 16:42:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1045868 | -.001569 | 4.280752 | .0004473 | .0088219 | 51.29445 |
| Stddev | .0029381 | .000908  | .008232  | .0028511 | .0030662 | .93324   |
| %RSD   | 2.809244 | 57.85278 | .1923053 | 637.3631 | 34.75651 | 1.819372 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1079466 | -.002333 | 4.271738 | -.000950 | .0087654 | 50.25265 |
| #2 | .1033147 | -.001807 | 4.282648 | -.001436 | .0057843 | 52.05392 |
| #3 | .1024992 | -.000566 | 4.287871 | .003728  | .0119159 | 51.57678 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.324671 | .0034377 | .0112083 | 269.5249 | .1327280 | .0596618 |
| Stddev | .043984  | .0001237 | .0000826 | 4.7772   | .0014297 | .0004149 |
| %RSD   | 1.892041 | 3.596693 | .7365871 | 1.772470 | 1.077165 | .6954286 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.277560 | .0033005 | .0111505 | 264.2941 | .1341131 | .0601366 |
| #2 | 2.364658 | .0035404 | .0113029 | 273.6573 | .1312575 | .0593690 |
| #3 | 2.331795 | .0034723 | .0111716 | 270.6234 | .1328134 | .0594798 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6209982 | 117.9117 | 5.484724 | 90.15011 | .1669141 | -.009516 |
| Stddev | .0114162 | 2.1876   | .090900  | 1.43099  | .0010661 | .000583  |
| %RSD   | 1.838370 | 1.855276 | 1.657324 | 1.587344 | .6387130 | 6.124037 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6083974 | 115.4503 | 5.387848 | 88.52131 | .1674494 | -.009829 |
| #2 | .6306521 | 119.6339 | 5.568148 | 91.20536 | .1656864 | -.008843 |
| #3 | .6239450 | 118.6508 | 5.498177 | 90.72365 | .1676065 | -.009875 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.153136 | .1523407 | 2.435374 | 3.223513 | F 10.57892 | .1396295 |
| Stddev | .109550  | .0022231 | .008069  | .142427  | .01381     | .0034281 |
| %RSD   | 5.087935 | 1.459270 | .3313259 | 4.418375 | .1305790   | 2.455172 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.146333 | .1498461 | 2.441028 | 3.082672 | 10.56839 | .1394261 |
| #2 | 2.047145 | .1530639 | 2.438961 | 3.220393 | 10.57381 | .1431548 |
| #3 | 2.265929 | .1541121 | 2.426134 | 3.367474 | 10.59456 | .1363076 |

Sample Name: P4880-14      Acquired: 11/20/2024 16:42:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0045955 | 3.908545 | 10.05219 | .1402228 | .9358062 | .0807669 |
| Stddev | .0000841 | .018573  | .09015   | .0030430 | .0135934 | .0021696 |
| %RSD   | 1.829888 | .4751987 | .8968212 | 2.170154 | 1.452583 | 2.686213 |
| #1     | .0045683 | 3.912628 | 9.94814  | .1427919 | .9204258 | .0785749 |
| #2     | .0046898 | 3.888270 | 10.10143 | .1410144 | .9462098 | .0829133 |
| #3     | .0045284 | 3.924738 | 10.10699 | .1368622 | .9407830 | .0808124 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3921271 |
| Stddev | .0073754 |
| %RSD   | 1.880857 |
| #1     | .3840167 |
| #2     | .3984321 |
| #3     | .3939324 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 950.5022 | 26243.58 | 5524.758 | 784.6139 | 1426.530 |
| Stddev    | 1.8046   | 129.85   | 72.326   | 4.7030   | 2.317    |
| %RSD      | .1898535 | .4947833 | 1.309133 | .5994083 | .1624333 |
| #1        | 948.6011 | 26332.36 | 5604.032 | 784.6292 | 1427.090 |
| #2        | 950.7137 | 26094.55 | 5462.365 | 779.9032 | 1428.517 |
| #3        | 952.1916 | 26303.82 | 5507.879 | 789.3093 | 1423.985 |



Sample Name: P4880-15      Acquired: 11/20/2024 16:46:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068     | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .1007388 | -.001711 | 4.610147 | .0027198 | .0082865   | 50.66000 |
| Stddev | .0135246 | .005803  | .041757  | .0044195 | .0024355   | .09786   |
| %RSD   | 13.42543 | 339.2599 | .9057609 | 162.4966 | 29.39109   | .1931615 |
| #1     | .1108822 | -.006707 | 4.657349 | .0064202 | .0089100   | 50.75907 |
| #2     | .0853836 | -.003080 | 4.578026 | -.002174 | .0055999   | 50.65752 |
| #3     | .1059505 | .004655  | 4.595065 | .003913  | .0103497   | 50.56340 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677     | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.339928 | .0033936 | .0111636 | 258.9014 | .1254410   | .0594437 |
| Stddev | .003138  | .0000638 | .0003859 | 1.0808   | .0014993   | .0004740 |
| %RSD   | .1341100 | 1.879154 | 3.456499 | .4174725 | 1.195196   | .7973427 |
| #1     | 2.340995 | .0033270 | .0114748 | 259.4145 | .1255252   | .0595249 |
| #2     | 2.342393 | .0033998 | .0112841 | 259.6301 | .1239015   | .0598719 |
| #3     | 2.336396 | .0034541 | .0107318 | 257.6596 | .1268965   | .0589344 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316     | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .5893846 | 121.2664 | 5.353676 | 86.78697 | .1547047   | -.011303 |
| Stddev | .0053872 | .1929    | .023670  | .26576   | .0022943   | .000290  |
| %RSD   | .9140470 | .1591042 | .4421216 | .3062228 | 1.483041   | 2.562179 |
| #1     | .5929442 | 121.0857 | 5.362234 | 86.53921 | .1573516   | -.011239 |
| #2     | .5920229 | 121.4696 | 5.371876 | 87.06766 | .1534793   | -.011619 |
| #3     | .5831867 | 121.2440 | 5.326918 | 86.75402 | .1532833   | -.011050 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.093474 | .1550516 | 2.371304 | 2.814446 | F 10.24186 | .1413787 |
| Stddev | .185622  | .0057950 | .017917  | .077383  | .11705     | .0009101 |
| %RSD   | 8.866711 | 3.737446 | .7555569 | 2.749476 | 1.142836   | .6437678 |
| #1     | 2.305121 | .1548149 | 2.385996 | 2.745070 | 10.37665   | .1420903 |
| #2     | 2.016968 | .1493786 | 2.351344 | 2.897902 | 10.18304   | .1403532 |
| #3     | 1.958331 | .1609612 | 2.376572 | 2.800366 | 10.16588   | .1416927 |

Sample Name: P4880-15      Acquired: 11/20/2024 16:46:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0042453 | 3.694515 | 10.55745 | .1342602 | .9404260 | .0797468 |
| Stddev | .0005585 | .062000  | .08252   | .0018811 | .0037997 | .0011996 |
| %RSD   | 13.15578 | 1.678174 | .7816144 | 1.401113 | .4040417 | 1.504288 |
| #1     | .0045635 | 3.764432 | 10.53598 | .1356453 | .9413091 | .0811286 |
| #2     | .0036004 | 3.672892 | 10.64858 | .1350168 | .9437064 | .0789726 |
| #3     | .0045720 | 3.646222 | 10.48778 | .1321186 | .9362625 | .0791391 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3949885 |
| Stddev | .0005883 |
| %RSD   | .1489397 |
| #1     | .3946161 |
| #2     | .3956668 |
| #3     | .3946828 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 950.7488 | 26590.64 | 5543.016 | 793.4384 | 1435.397 |
| Stddev    | 7.4459   | 140.67   | 30.009   | 6.6857   | 17.716   |
| %RSD      | .7831611 | .5290188 | .5413859 | .8426178 | 1.234206 |
| #1        | 942.2334 | 26487.21 | 5544.234 | 788.4269 | 1414.977 |
| #2        | 953.9780 | 26750.82 | 5512.417 | 801.0296 | 1444.548 |
| #3        | 956.0349 | 26533.89 | 5572.398 | 790.8587 | 1446.666 |

Sample Name: P4880-14LX5      Acquired: 11/20/2024 16:50:50      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0192042 | -.000817 | .8465585 | .0055341 | .0004792 | 11.17016 | .5021627 |
| Stddev | .0044663 | .000624  | .0065299 | .0052030 | .0018554 | .04211   | .0009415 |
| %RSD   | 23.25682 | 76.30688 | .7713500 | 94.01593 | 387.1534 | .3770152 | .1874956 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0173987 | -.001071 | .8540911 | .0081978 | .0008747 | 11.21877 | .5032332 |
| #2 | .0159234 | -.000107 | .8425009 | .0088660 | -.001542 | 11.14470 | .5014629 |
| #3 | .0242906 | -.001274 | .8430836 | -.000461 | .002105  | 11.14701 | .5017919 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008070 | .0019407 | 59.34344 | .0290331 | .0106568 | .1357326 | 26.75988 |
| Stddev | .0001489 | .0002471 | .13733   | .0013734 | .0004743 | .0015715 | .08790   |
| %RSD   | 18.45317 | 12.73241 | .2314209 | 4.730309 | 4.450952 | 1.157818 | .3284920 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009720 | .0021253 | 59.49164 | .0305095 | .0111055 | .1374721 | 26.86053 |
| #2 | .0007663 | .0020369 | 59.31822 | .0277937 | .0107045 | .1353102 | 26.69815 |
| #3 | .0006827 | .0016600 | 59.22047 | .0287962 | .0101605 | .1344154 | 26.72098 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.230426 | 19.82653 | .0334364 | -.005428 | .6105395 | .0371105 | .5358541 |
| Stddev | .003184  | .04532   | .0005745 | .000071  | .1960170 | .0045213 | .0062693 |
| %RSD   | .2587587 | .2286019 | 1.718296 | 1.311649 | 32.10554 | 12.18333 | 1.169965 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.234036 | 19.86415 | .0340240 | -.005409 | .7234227 | .0321703 | .5346497 |
| #2 | 1.229223 | 19.77621 | .0328758 | -.005368 | .7239971 | .0410428 | .5426382 |
| #3 | 1.228019 | 19.83923 | .0334093 | -.005507 | .3841988 | .0381183 | .5302744 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0530561 | 1.979438 | .0290012 | .0004244 | .7129426 | 2.313678 | .0240260 |
| Stddev | .1667620 | .026698  | .0018456 | .0003604 | .0147170 | .011547  | .0028671 |
| %RSD   | 314.3129 | 1.348763 | 6.364013 | 84.89993 | 2.064265 | .4990653 | 11.93343 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2444548 | 2.007410 | .0310208 | .0001961 | .7287875 | 2.324817 | .0260282 |
| #2 | -.060931 | 1.976675 | .0285806 | .0008399 | .7103395 | 2.314455 | .0253082 |
| #3 | -.024355 | 1.954229 | .0274021 | .0002374 | .6997008 | 2.301763 | .0207415 |

Sample Name: P4880-14LX5      Acquired: 11/20/2024 16:50:50      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2072175 | .0100729 | .0862055 |
| Stddev | .0005695 | .0013812 | .0003138 |
| %RSD   | .2748464 | 13.71236 | .3640393 |
| #1     | .2066436 | .0106753 | .0865663 |
| #2     | .2077826 | .0084928 | .0859963 |
| #3     | .2072264 | .0110506 | .0860538 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 930.2979 | 25559.57 | 5088.364 | 771.7292 | 1635.825 |
| Stddev    | 7.3494   | 10.43    | 24.810   | 6.4613   | 13.826   |
| %RSD      | .7899999 | .0408158 | .4875873 | .8372446 | .8452253 |
| #1        | 922.8312 | 25563.44 | 5066.018 | 771.0285 | 1620.090 |
| #2        | 930.5383 | 25547.75 | 5084.011 | 765.6469 | 1641.351 |
| #3        | 937.5240 | 25567.51 | 5115.062 | 778.5123 | 1646.033 |

Sample Name: P4880-16      Acquired: 11/20/2024 16:55:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2512495 | .1783360 | 4.211037 | .3014138 | .3213864 | 57.56783 |
| Stddev | .0070732 | .0047865 | .011564  | .0020895 | .0046521 | .15107   |
| %RSD   | 2.815210 | 2.683989 | .2746028 | .6932213 | 1.447503 | .2624224 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2591594 | .1829923 | 4.207524 | .3036613 | .3228607 | 57.69572 |
| #2 | .2490569 | .1734291 | 4.201638 | .2995302 | .3161758 | 57.60663 |
| #3 | .2455322 | .1785866 | 4.223950 | .3010500 | .3251228 | 57.40114 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 9.465053 | .1748266 | .2024065 | 263.8237 | .8580990 | 2.012967 |
| Stddev | .022324  | .0008696 | .0007135 | .6330    | .0047530 | .007154  |
| %RSD   | .2358604 | .4974157 | .3525104 | .2399269 | .5538962 | .3553823 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.488634 | .1754915 | .2023509 | 264.4862 | .8542779 | 2.011450 |
| #2 | 9.444245 | .1738425 | .2017224 | 263.2251 | .8634213 | 2.006695 |
| #3 | 9.462279 | .1751458 | .2031461 | 263.7598 | .8565978 | 2.020758 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.431243 | 120.0282 | 7.067150 | 88.86680 | 2.102702 | .1572931 |
| Stddev | .000344  | .3897    | .020610  | .28417   | .008717  | .0024095 |
| %RSD   | .0240415 | .3246628 | .2916267 | .3197721 | .4145502 | 1.531822 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.431212 | 120.3775 | 7.080148 | 88.97018 | 2.098787 | .1564799 |
| #2 | 1.431601 | 120.0992 | 7.043387 | 89.08481 | 2.096629 | .1600039 |
| #3 | 1.430915 | 119.6079 | 7.077915 | 88.54542 | 2.112690 | .1553954 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.992732 | 1.992823 | 3.824028 | 3.144877 | F 10.21970 | .1429745 |
| Stddev | .381261  | .010810  | .031139  | .139247  | .06545     | .0022577 |
| %RSD   | 19.13257 | .5424291 | .8143002 | 4.427732 | .6404444   | 1.579083 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.183992 | 1.980627 | 3.805825 | 3.301411 | 10.17591 | .1455798 |
| #2 | 1.553701 | 2.001223 | 3.859983 | 3.034793 | 10.18827 | .1417526 |
| #3 | 2.240504 | 1.996618 | 3.806276 | 3.098425 | 10.29494 | .1415911 |

Sample Name: P4880-16      Acquired: 11/20/2024 16:55:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0036357 | 3.763684 | 9.972797 | .1381220 | .9206239 | .0809963 |
| Stddev | .0008786 | .021563  | .049860  | .0024338 | .0015248 | .0000956 |
| %RSD   | 24.16725 | .5729201 | .4999643 | 1.762097 | .1656213 | .1180477 |
| #1     | .0044501 | 3.747267 | 10.00410 | .1380621 | .9202688 | .0809237 |
| #2     | .0027045 | 3.755681 | 9.91530  | .1357186 | .9222949 | .0809604 |
| #3     | .0037523 | 3.788104 | 9.99899  | .1405852 | .9193081 | .0811046 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3854176 |
| Stddev | .0008168 |
| %RSD   | .2119302 |
| #1     | .3863523 |
| #2     | .3848412 |
| #3     | .3850592 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 945.0242 | 26110.85 | 5442.466 | 777.3898 | 1436.805 |
| Stddev    | 2.3418   | 130.42   | 23.121   | 6.3500   | 4.855    |
| %RSD      | .2477980 | .4995027 | .4248274 | .8168403 | .3379171 |
| #1        | 943.1147 | 26151.42 | 5422.244 | 781.3000 | 1433.391 |
| #2        | 947.6370 | 25964.96 | 5467.673 | 770.0630 | 1442.363 |
| #3        | 944.3209 | 26216.17 | 5437.482 | 780.8065 | 1434.660 |

Sample Name: P4880-17      Acquired: 11/20/2024 16:59:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH92      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068     | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .0842131 | -.004360 | 3.425561 | -.001169 | .0081142   | 57.79929 |
| Stddev | .0037532 | .000916  | .011366  | .004140  | .0040791   | .19289   |
| %RSD   | 4.456768 | 21.00988 | .3317990 | 353.9883 | 50.27090   | .3337252 |
| #1     | .0833372 | -.003568 | 3.430095 | -.001859 | .0084741   | 58.02144 |
| #2     | .0883268 | -.005363 | 3.433960 | .003272  | .0120013   | 57.67430 |
| #3     | .0809753 | -.004148 | 3.412628 | -.004921 | .0038670   | 57.70214 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677     | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.865175 | .0041451 | .0104911 | 232.3268 | .1432675   | .0671411 |
| Stddev | .008672  | .0000272 | .0003107 | 1.1237   | .0015695   | .0004734 |
| %RSD   | .4649648 | .6565540 | 2.961230 | .4836853 | 1.095526   | .7051193 |
| #1     | 1.875102 | .0041528 | .0105338 | 233.6171 | .1441802   | .0669020 |
| #2     | 1.859073 | .0041149 | .0107782 | 231.5624 | .1441672   | .0668349 |
| #3     | 1.861349 | .0041677 | .0101613 | 231.8010 | .1414552   | .0676864 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316     | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .4545352 | 118.9505 | 6.852308 | 66.32915 | .1524319   | -.011761 |
| Stddev | .0047591 | .2825    | .032483  | .26048   | .0003042   | .000238  |
| %RSD   | 1.047027 | .2374894 | .4740485 | .3927085 | .1995763   | 2.026658 |
| #1     | .4567793 | 119.2758 | 6.889614 | 66.62043 | .1525755   | -.011606 |
| #2     | .4490690 | 118.7674 | 6.837035 | 66.11858 | .1526377   | -.011641 |
| #3     | .4577575 | 118.8082 | 6.830277 | 66.24843 | .1520824   | -.012036 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.752088 | .1598613 | 1.919675 | 3.928470 | F 11.05632 | .1468868 |
| Stddev | .174439  | .0027615 | .009579  | .061646  | .03885     | .0008388 |
| %RSD   | 9.956040 | 1.727461 | .4990017 | 1.569212 | .3513916   | .5710719 |
| #1     | 1.615648 | .1593325 | 1.908775 | 3.984124 | 11.03335   | .1469840 |
| #2     | 1.948631 | .1574024 | 1.926752 | 3.862209 | 11.10118   | .1476728 |
| #3     | 1.691984 | .1628490 | 1.923499 | 3.939076 | 11.03443   | .1460036 |

Sample Name: P4880-17      Acquired: 11/20/2024 16:59:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH92      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0044420 | 3.898178 | 10.33406 | .1771885 | 1.011411 | .0843455 |
| Stddev | .0004263 | .021276  | .04800   | .0013753 | .002621  | .0017581 |
| %RSD   | 9.596966 | .5457871 | .4645173 | .7761894 | .2591801 | 2.084367 |
| #1     | .0043233 | 3.875040 | 10.38255 | .1764401 | 1.014434 | .0862419 |
| #2     | .0049150 | 3.916899 | 10.28655 | .1763497 | 1.009769 | .0827700 |
| #3     | .0040876 | 3.902594 | 10.33307 | .1787757 | 1.010030 | .0840244 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3844277 |
| Stddev | .0015302 |
| %RSD   | .3980490 |
| #1     | .3861652 |
| #2     | .3832809 |
| #3     | .3838369 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 980.6621 | 26957.39 | 5595.164 | 801.4672 | 1455.383 |
| Stddev    | 3.1683   | 85.08    | 24.528   | 6.8046   | 4.240    |
| %RSD      | .3230736 | .3156162 | .4383813 | .8490136 | .2913302 |
| #1        | 980.4593 | 26985.52 | 5568.076 | 808.0152 | 1455.243 |
| #2        | 977.6001 | 26861.80 | 5601.543 | 794.4322 | 1451.215 |
| #3        | 983.9269 | 27024.84 | 5615.872 | 801.9542 | 1459.692 |



Sample Name: P4880-18      Acquired: 11/20/2024 17:03:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH93      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1460546 | .0000565 | 2.096865 | -.001172 | .0082455 | 68.67528 |
| Stddev | .0162487 | .0031025 | .010695  | .006736  | .0031763 | .48276   |
| %RSD   | 11.12509 | 5491.301 | .5100680 | 574.4741 | 38.52152 | .7029550 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1272946 | -.002777 | 2.108698 | -.002957 | .0078121 | 68.56037 |
| #2 | .1551768 | .003372  | 2.087886 | -.006836 | .0053081 | 68.26035 |
| #3 | .1556924 | -.000425 | 2.094012 | .006276  | .0116162 | 69.20512 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.585885 | .0042313 | .0131575 | 128.2923 | .1735546 | .1055734 |
| Stddev | .007517  | .0001075 | .0000637 | .8124    | .0008391 | .0006112 |
| %RSD   | .4740115 | 2.541499 | .4842593 | .6332375 | .4834560 | .5789624 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.585247 | .0043499 | .0130874 | 128.2757 | .1744360 | .1051138 |
| #2 | 1.578707 | .0041401 | .0132119 | 127.4884 | .1734621 | .1062671 |
| #3 | 1.593701 | .0042039 | .0131733 | 129.1129 | .1727656 | .1053393 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3580527 | 152.2554 | 9.131480 | 39.32452 | .1874689 | -.023132 |
| Stddev | .0031766 | .9741    | .050586  | .16345   | .0009603 | .000034  |
| %RSD   | .8871944 | .6397604 | .5539733 | .4156416 | .5122656 | .1461316 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3581336 | 152.2883 | 9.144795 | 39.22239 | .1880937 | -.023104 |
| #2 | .3548364 | 151.2653 | 9.075569 | 39.23814 | .1863631 | -.023122 |
| #3 | .3611881 | 153.2126 | 9.174077 | 39.51304 | .1879499 | -.023170 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.753502 | .1745549 | 1.356313 | 5.252083 | F 19.22528 | .1683441 |
| Stddev | .087837  | .0055350 | .006923  | .087450  | .04970     | .0024877 |
| %RSD   | 5.009219 | 3.170929 | .5104493 | 1.665063 | .2585049   | 1.477740 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.835382 | .1803612 | 1.361928 | 5.151125 | 19.24345 | .1712141 |
| #2 | 1.764398 | .1693385 | 1.348578 | 5.300773 | 19.16906 | .1670146 |
| #3 | 1.660726 | .1739648 | 1.358433 | 5.304351 | 19.26334 | .1668037 |

Sample Name: P4880-18      Acquired: 11/20/2024 17:03:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH93      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0055669 | 3.418010 | 8.654306 | .1199579 | .5284431 | .0844758 |
| Stddev | .0004321 | .012902  | .072181  | .0021422 | .0053684 | .0013191 |
| %RSD   | 7.761455 | .3774821 | .8340438 | 1.785775 | 1.015885 | 1.561565 |
| #1     | .0050847 | 3.432161 | 8.647856 | .1213674 | .5263341 | .0838695 |
| #2     | .0056973 | 3.414971 | 8.585567 | .1210136 | .5244494 | .0859891 |
| #3     | .0059188 | 3.406899 | 8.729496 | .1174928 | .5345457 | .0835688 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2476456 |
| Stddev | .0010985 |
| %RSD   | .4435769 |
| #1     | .2475728 |
| #2     | .2465853 |
| #3     | .2487787 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1103.010 | 30684.02 | 6317.142 | 918.6345 | 1482.136 |
| Stddev    | 4.794    | 56.24    | 55.709   | 5.5284   | 4.435    |
| %RSD      | .4345997 | .1832951 | .8818630 | .6018104 | .2992251 |
| #1        | 1097.577 | 30619.31 | 6306.733 | 912.5775 | 1477.275 |
| #2        | 1106.644 | 30721.19 | 6377.320 | 923.4088 | 1485.962 |
| #3        | 1104.808 | 30711.55 | 6267.372 | 919.9172 | 1483.171 |

Sample Name: P4880-19      Acquired: 11/20/2024 17:08:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH94      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0562962 | .0005859 | .6826126 | .0042584 | .0049888 | 61.38327 | .6608764 |
| Stddev | .0084142 | .0040561 | .0081456 | .0040532 | .0022518 | .28016   | .0027060 |
| %RSD   | 14.94625 | 692.3101 | 1.193303 | 95.17927 | 45.13659 | .4564053 | .4094627 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0650365 | -.004074 | .6870247 | .0015433 | .0046380 | 61.62235 | .6637658 |
| #2 | .0556006 | .003321  | .6876004 | .0089174 | .0029330 | 61.07500 | .6584015 |
| #3 | .0482514 | .002511  | .6732127 | .0023147 | .0073954 | 61.45246 | .6604621 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0032089 | .0075195 | 229.6899 | .1192192 | .0679168 | .1682163 | 145.2056 |
| Stddev | .0001361 | .0002110 | .8708    | .0001726 | .0005966 | .0043897 | .7402    |
| %RSD   | 4.241291 | 2.806391 | .3791371 | .1448028 | .8784224 | 2.609579 | .5097266 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0032175 | .0073361 | 230.6939 | .1191619 | .0682674 | .1731174 | 145.9046 |
| #2 | .0033405 | .0077501 | 229.2370 | .1194132 | .0672280 | .1646456 | 144.4302 |
| #3 | .0030687 | .0074723 | 229.1388 | .1190825 | .0682552 | .1668861 | 145.2821 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.340703 | 57.49063 | .1409208 | -.016735 | 1.465352 | .1524207 | .6651690 |
| Stddev | .023046  | .41640   | .0012242 | .000099  | .417915  | .0032754 | .0011454 |
| %RSD   | .5309216 | .7242869 | .8687047 | .5917346 | 28.51976 | 2.148921 | .1721993 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.365199 | 57.95930 | .1420390 | -.016793 | 1.004252 | .1557678 | .6649471 |
| #2 | 4.337460 | 57.16331 | .1396128 | -.016792 | 1.572642 | .1522721 | .6664091 |
| #3 | 4.319451 | 57.34929 | .1411107 | -.016621 | 1.819163 | .1492220 | .6641507 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.343898 | 7.050416 | .1466869 | .0008469 | 1.305818 | 8.987163 | .0231940 |
| Stddev | .107292  | .005902  | .0045437 | .0006073 | .007343  | .037686  | .0020319 |
| %RSD   | 2.007753 | .0837155 | 3.097530 | 71.71237 | .5623674 | .4193275 | 8.760304 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.355579 | 7.050943 | .1506672 | .0015014 | 1.312882 | 9.028858 | .0212978 |
| #2 | 5.231243 | 7.056038 | .1417365 | .0007378 | 1.298224 | 8.977101 | .0229455 |
| #3 | 5.444871 | 7.044268 | .1476569 | .0003015 | 1.306348 | 8.955529 | .0253387 |

Sample Name: P4880-19      Acquired: 11/20/2024 17:08:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH94      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.234647 | .0831665 | .2497883 |
| Stddev | .009509  | .0014047 | .0010907 |
| %RSD   | .7701687 | 1.689064 | .4366423 |
| #1     | 1.245162 | .0837530 | .2510476 |
| #2     | 1.226652 | .0815636 | .2491755 |
| #3     | 1.232127 | .0841830 | .2491418 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 993.4521 | 27606.51 | 5673.782 | 826.6429 | 1449.181 |
| Stddev    | 2.2870   | 33.59    | 20.162   | 2.4159   | 4.386    |
| %RSD      | .2302098 | .1216562 | .3553468 | .2922525 | .3026439 |
| #1        | 992.6272 | 27610.40 | 5656.939 | 827.6791 | 1447.067 |
| #2        | 991.6921 | 27571.15 | 5668.284 | 823.8818 | 1446.252 |
| #3        | 996.0372 | 27637.98 | 5696.122 | 828.3679 | 1454.223 |

Sample Name: P4880-20      Acquired: 11/20/2024 17:12:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH95      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1682189 | .0000369 | 6.818878 | .0081100 | .0102560 | 55.25884 |
| Stddev | .0059882 | .0045558 | .020752  | .0128101 | .0009503 | .01434   |
| %RSD   | 3.559772 | 12352.89 | .3043304 | 157.9543 | 9.265666 | .0259588 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1710898 | -.004940 | 6.795027 | .0228610 | .0109524 | 55.24780 |
| #2 | .1613358 | .001049  | 6.828808 | .0016847 | .0091734 | 55.25367 |
| #3 | .1722311 | .004002  | 6.832799 | -.000216 | .0106423 | 55.27505 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.753931 | .0051250 | .0136821 | 204.3548 | .1366719 | .0694875 |
| Stddev | .006581  | .0000767 | .0001755 | .3111    | .0004019 | .0005713 |
| %RSD   | .2389798 | 1.496884 | 1.282642 | .1522320 | .2940324 | .8221730 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.749574 | .0050991 | .0138204 | 204.0828 | .1371330 | .0692697 |
| #2 | 2.750717 | .0052114 | .0137411 | 204.2875 | .1363959 | .0701356 |
| #3 | 2.761501 | .0050646 | .0134847 | 204.6940 | .1364868 | .0690571 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8575393 | 138.4636 | 5.097999 | 37.00222 | .1478165 | -.007359 |
| Stddev | .0010776 | .0769    | .004512  | .07994   | .0007912 | .000328  |
| %RSD   | .1256653 | .0555126 | .0885029 | .2160345 | .5352868 | 4.460598 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .8574650 | 138.3774 | 5.093347 | 36.93797 | .1469048 | -.007119 |
| #2 | .8586521 | 138.4885 | 5.098293 | 36.97696 | .1482202 | -.007224 |
| #3 | .8565007 | 138.5250 | 5.102356 | 37.09174 | .1483244 | -.007733 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.627964 | .2182857 | 3.992937 | 5.057139 | F 24.60461 | .1565335 |
| Stddev | .125771  | .0040941 | .030180  | .146696  | .03102     | .0009650 |
| %RSD   | 4.785888 | 1.875558 | .7558444 | 2.900765 | .1260848   | .6164520 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.746601 | .2152502 | 3.975182 | 5.076633 | 24.58555 | .1555647 |
| #2 | 2.641189 | .2229421 | 4.027784 | 5.193113 | 24.58787 | .1574946 |
| #3 | 2.496103 | .2166649 | 3.975844 | 4.901671 | 24.64040 | .1565413 |

Sample Name: P4880-20      Acquired: 11/20/2024 17:12:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH95      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0116709 | 3.627834 | 9.215473 | .3938094 | .9419663 | .0745678 |
| Stddev | .0005234 | .018097  | .019084  | .0022736 | .0014912 | .0006260 |
| %RSD   | 4.484988 | .4988348 | .2070917 | .5773382 | .1583075 | .8395316 |
| #1     | .0116298 | 3.607032 | 9.201133 | .3963872 | .9411788 | .0744989 |
| #2     | .0111692 | 3.639952 | 9.208152 | .3929512 | .9410339 | .0739791 |
| #3     | .0122137 | 3.636519 | 9.237134 | .3920898 | .9436862 | .0752254 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .6663410 |
| Stddev | .0007777 |
| %RSD   | .1167152 |
| #1     | .6664957 |
| #2     | .6670298 |
| #3     | .6654976 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 942.9908 | 26057.69 | 5337.210 | 778.5439 | 1486.192 |
| Stddev    | .3844    | 68.54    | .950     | 5.9825   | 1.033    |
| %RSD      | .0407655 | .2630272 | .0177964 | .7684190 | .0695371 |
| #1        | 943.1659 | 26054.94 | 5336.349 | 780.4647 | 1487.070 |
| #2        | 943.2564 | 25990.56 | 5337.051 | 771.8369 | 1486.454 |
| #3        | 942.5499 | 26127.56 | 5338.229 | 783.3300 | 1485.053 |

Sample Name: P4880-21      Acquired: 11/20/2024 17:17:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH96      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3022382 | -.002266 | 5.637267 | .0134593 | -.008103 | 43.83039 |
| Stddev | .0108215 | .004280  | .023360  | .0021843 | .002702  | .22791   |
| %RSD   | 3.580465 | 188.8443 | .4143832 | 16.22871 | 33.34896 | .5199719 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3056369 | -.003430 | 5.655496 | .0115120 | -.004983 | 43.94612 |
| #2 | .2901253 | .002475  | 5.610935 | .0130447 | -.009676 | 43.97721 |
| #3 | .3109525 | -.005844 | 5.645370 | .0158211 | -.009651 | 43.56784 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.344477 | .0032412 | .0355566 | 248.9371 | .1232442 | .0433586 |
| Stddev | .014701  | .0001768 | .0001902 | 1.1586   | .0006109 | .0004989 |
| %RSD   | .4395534 | 5.455923 | .5349509 | .4654120 | .4956592 | 1.150582 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.359778 | .0030411 | .0357746 | 250.1287 | .1229217 | .0429666 |
| #2 | 3.343194 | .0033061 | .0354710 | 248.8680 | .1239488 | .0431891 |
| #3 | 3.330460 | .0033764 | .0354243 | 247.8146 | .1228622 | .0439202 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.543196 | 211.0577 | 5.674203 | 28.62248 | .1443055 | .0265156 |
| Stddev | .005234  | 1.1487   | .028308  | .14808   | .0017782 | .0004208 |
| %RSD   | .3391889 | .5442711 | .4988974 | .5173389 | 1.232226 | 1.587150 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.546699 | 211.2997 | 5.706010 | 28.61278 | .1456985 | .0267346 |
| #2 | 1.545710 | 212.0662 | 5.664828 | 28.77516 | .1423026 | .0260305 |
| #3 | 1.537179 | 209.8073 | 5.651772 | 28.47949 | .1449154 | .0267819 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 3.399382 | .1729285 | 9.234665 | 3.333557 | F 105.5493 | .2196938 |
| Stddev | .068394  | .0032535 | .049590  | .134303  | .4604      | .0051372 |
| %RSD   | 2.011968 | 1.881438 | .5369960 | 4.028820 | .4361590   | 2.338331 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.379428 | .1765680 | 9.289406 | 3.448157 | 105.9425 | .2235276 |
| #2 | 3.343183 | .1719155 | 9.221841 | 3.366741 | 105.0429 | .2216970 |
| #3 | 3.475534 | .1703020 | 9.192746 | 3.185772 | 105.6624 | .2138568 |

Sample Name: P4880-21      Acquired: 11/20/2024 17:17:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH96      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0097510 | 9.002807 | 9.225710 | 2.948036 | .7429467 | .0380513 |
| Stddev | .0011009 | .042914  | .063263  | .013509  | .0043553 | .0012724 |
| %RSD   | 11.29044 | .4766680 | .6857212 | .4582436 | .5862200 | 3.343867 |
| #1     | .0108574 | 9.026472 | 9.244083 | 2.960871 | .7463548 | .0377749 |
| #2     | .0097399 | 8.953271 | 9.277752 | 2.933941 | .7444454 | .0394391 |
| #3     | .0086557 | 9.028678 | 9.155294 | 2.949296 | .7380399 | .0369398 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 1.456355 |
| Stddev | .006622  |
| %RSD   | .4546964 |
| #1     | 1.460948 |
| #2     | 1.459352 |
| #3     | 1.448764 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 904.3901 | 24992.67 | 5184.013 | 742.5390 | 1473.039 |
| Stddev    | 1.4546   | 136.82   | 34.018   | 3.8683   | 7.257    |
| %RSD      | .1608429 | .5474554 | .6562007 | .5209562 | .4926564 |
| #1        | 902.8551 | 24835.82 | 5169.360 | 738.0845 | 1465.189 |
| #2        | 905.7481 | 25087.49 | 5159.777 | 744.4794 | 1479.503 |
| #3        | 904.5671 | 25054.70 | 5222.901 | 745.0530 | 1474.426 |



Sample Name: PB165050BL      Acquired: 11/20/2024 17:21:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS050      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0036899 | -.002238 | .0008818 | .0049442 | .0000712 | -.004278 | -.002327 |
| Stddev | .0077521 | .004320  | .0032509 | .0037797 | .0012255 | .004334  | .000517  |
| %RSD   | 210.0886 | 193.0132 | 368.6570 | 76.44770 | 1720.633 | 101.3075 | 22.23915 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0056511 | -.004494 | -.001396 | .0022998 | .0000134 | -.006404 | -.002904 |
| #2 | -.004854 | .002742  | .004605  | .0032595 | .0013246 | -.007138 | -.002172 |
| #3 | .010273  | -.004962 | -.000563 | .0092734 | -.001124 | .000708  | -.001905 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000086 | .0000592 | .0054630 | .0002036 | -.000315 | -.000602 | .0081194 |
| Stddev | .000063  | .0000898 | .0058060 | .0017697 | .000197  | .000850  | .0035761 |
| %RSD   | 73.32165 | 151.5152 | 106.2785 | 869.0406 | 62.57357 | 141.1211 | 44.04426 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000128 | .0001472 | .0034759 | -.000514 | -.000089 | -.001412 | .0052054 |
| #2 | -.000116 | .0000628 | .0120016 | .002219  | -.000409 | .000284  | .0070425 |
| #3 | -.000013 | -.000032 | .0009114 | -.001095 | -.000448 | -.000679 | .0121102 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001395 | .0087334 | .0008163 | -.006525 | .3346336 | -.001781 | -.000473 |
| Stddev | .0005432 | .0204883 | .0006142 | .000110  | .3518535 | .007742  | .000559  |
| %RSD   | 389.4014 | 234.5982 | 75.24136 | 1.680503 | 105.1459 | 434.6215 | 118.3677 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000223 | -.010444 | .0004369 | -.006530 | -.010244 | .001551  | .000048  |
| #2 | -.000122 | .006324  | .0015249 | -.006413 | .693071  | -.010632 | -.001064 |
| #3 | .000764  | .030320  | .0004871 | -.006632 | .321074  | .003737  | -.000402 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.694851 | .0017339 | -.005767 | .0001467 | -.000995 | .0025098 | -.000431 |
| Stddev | .115388  | .0004187 | .001255  | .0004921 | .004134  | .0005217 | .000912  |
| %RSD   | 16.60616 | 24.14572 | 21.75718 | 335.5079 | 415.3064 | 20.78823 | 211.5122 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.617189 | .0016594 | -.004333 | -.000414 | -.003106 | .0020308 | .000449  |
| #2 | -.639923 | .0013575 | -.006305 | .000348  | -.003648 | .0030658 | -.001372 |
| #3 | -.827442 | .0021848 | -.006663 | .000506  | .003768  | .0024328 | -.000371 |

Sample Name: PB165050BL      Acquired: 11/20/2024 17:21:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS050      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0000214 | -.010142 | -.000112 |
| Stddev | .0007037 | .000489  | .000140  |
| %RSD   | 3291.253 | 4.823974 | 125.5646 |
| #1     | .0008290 | -.009614 | -.000088 |
| #2     | -.000305 | -.010580 | -.000263 |
| #3     | -.000459 | -.010231 | .000015  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 912.5071 | 25360.15 | 4931.844 | 766.9051 | 1745.703 |
| Stddev    | 9.8914   | 51.11    | 1.592    | 3.8304   | 18.897   |
| %RSD      | 1.083984 | .2015536 | .0322851 | .4994684 | 1.082515 |
| #1        | 903.7771 | 25344.83 | 4933.543 | 762.6797 | 1728.907 |
| #2        | 923.2502 | 25318.44 | 4931.604 | 770.1500 | 1766.165 |
| #3        | 910.4938 | 25417.17 | 4930.386 | 767.8856 | 1742.036 |

Sample Name: PB165050BS      Acquired: 11/20/2024 17:25:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS050      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0184861 | .0532552 | .0220592 | .0691493 | .1097239 | .3958673 |
| Stddev | .0086364 | .0032592 | .0017999 | .0056956 | .0035461 | .0040397 |
| %RSD   | 46.71818 | 6.119899 | 8.159484 | 8.236643 | 3.231872 | 1.020467 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0226552 | .0533620 | .0240640 | .0751348 | .1077045 | .3992621 |
| #2 | .0085561 | .0564597 | .0215317 | .0685168 | .1076487 | .3913994 |
| #3 | .0242470 | .0499440 | .0205821 | .0637964 | .1138185 | .3969405 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4211275 | .0106997 | .0104003 | 10.80204 | .0223593 | .1007440 |
| Stddev | .0010693 | .0000800 | .0000834 | .06829   | .0003491 | .0004085 |
| %RSD   | .2539183 | .7478968 | .8018952 | .6321670 | 1.561311 | .4054757 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4212414 | .0106390 | .0104695 | 10.85807 | .0219760 | .1011264 |
| #2 | .4200057 | .0107904 | .0104236 | 10.72598 | .0226590 | .1003137 |
| #3 | .4221352 | .0106698 | .0103077 | 10.82208 | .0224429 | .1007918 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0517793 | .2244568 | .0338466 | 10.38966 | .0869277 | .0150418 |
| Stddev | .0014942 | .0116552 | .0005282 | .06483   | .0008936 | .0006114 |
| %RSD   | 2.885663 | 5.192643 | 1.560724 | .6239811 | 1.027928 | 4.064782 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0532789 | .2304054 | .0342453 | 10.39186 | .0868573 | .0149710 |
| #2 | .0502906 | .2110276 | .0332475 | 10.32376 | .0860714 | .0156855 |
| #3 | .0517684 | .2319374 | .0340471 | 10.45336 | .0878543 | .0144689 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.27668 | .1102338 | .1275611 | 9.234755 | .0187363 | F -.004622 |
| Stddev | .15117   | .0059255 | .0009458 | .151466  | .0019739 | .000920    |
| %RSD   | 1.471045 | 5.375391 | .7414838 | 1.640170 | 10.53537 | 19.91101   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.15898 | .1053091 | .1265253 | 9.267940 | .0197566 | -.004584 |
| #2 | 10.22390 | .1085824 | .1283789 | 9.069448 | .0199912 | -.003722 |
| #3 | 10.44717 | .1168098 | .1277791 | 9.366876 | .0164610 | -.005561 |

Sample Name: PB165050BS      Acquired: 11/20/2024 17:25:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS050      Custom ID2:      Custom ID3:  
Comment:

|        |            |          |            |          |          |            |
|--------|------------|----------|------------|----------|----------|------------|
| Elem   | Mo2020     | S_1820   | Si2516     | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm        | ppm      | ppm        | ppm      | ppm      | ppm        |
| Avg    | F .0195387 | .1906428 | F .4620990 | .0107356 | .2083113 | F .0191865 |
| Stddev | .0002625   | .0031859 | .0029812   | .0030880 | .0002094 | .0003916   |
| %RSD   | 1.343661   | 1.671116 | .6451493   | 28.76428 | .1005199 | 2.040916   |
| #1     | .0197746   | .1873211 | .4646567   | .0099014 | .2084053 | .0195401   |
| #2     | .0192558   | .1909343 | .4588248   | .0081504 | .2080713 | .0192537   |
| #3     | .0195856   | .1936728 | .4628155   | .0141550 | .2084572 | .0187656   |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2137680 |
| Stddev | .0009723 |
| %RSD   | .4548208 |
| #1     | .2144043 |
| #2     | .2126489 |
| #3     | .2142510 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 911.0430 | 24992.63 | 4981.518 | 758.6645 | 1684.196 |
| Stddev    | 2.5572   | 97.25    | 10.784   | 4.7585   | 1.407    |
| %RSD      | .2806876 | .3891110 | .2164805 | .6272146 | .0835386 |
| #1        | 908.9464 | 24970.72 | 4975.230 | 763.0750 | 1682.599 |
| #2        | 913.8920 | 24908.21 | 4993.971 | 753.6214 | 1685.252 |
| #3        | 910.2905 | 25098.97 | 4975.355 | 759.2971 | 1684.737 |

Sample Name: P4905-01      Acquired: 11/20/2024 17:30:29      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1001751 | -.002599 | 3.194892 | -.000729 | .0078391 | 62.47710 |
| Stddev | .0004713 | .004705  | .008137  | .009122  | .0036431 | .10853   |
| %RSD   | .4705293 | 181.0146 | .2546895 | 1251.596 | 46.47330 | .1737143 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0996962 | .001534  | 3.194276 | -.009542 | .0120417 | 62.59720 |
| #2 | .1006385 | -.001612 | 3.187080 | -.001318 | .0058993 | 62.44805 |
| #3 | .1001906 | -.007720 | 3.203319 | .008674  | .0055763 | 62.38605 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.209723 | .0042030 | .0147037 | 145.5971 | .1173788 | .0882253 |
| Stddev | .003039  | .0000917 | .0000405 | .2657    | .0028470 | .0006207 |
| %RSD   | .1375383 | 2.182543 | .2753061 | .1824872 | 2.425526 | .7035328 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.212111 | .0042588 | .0146572 | 145.7893 | .1178682 | .0875467 |
| #2 | 2.210756 | .0040971 | .0147233 | 145.7082 | .1143188 | .0887642 |
| #3 | 2.206302 | .0042531 | .0147307 | 145.2939 | .1199494 | .0883652 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4267194 | 165.1779 | 11.20969 | 33.88905 | .1801168 | -.021615 |
| Stddev | .0031182 | .1363    | .02326   | .19234   | .0004372 | .000886  |
| %RSD   | .7307326 | .0825161 | .2074812 | .5675657 | .2427093 | 4.098469 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4301830 | 165.2351 | 11.23110 | 33.81894 | .1796585 | -.021953 |
| #2 | .4258394 | 165.2762 | 11.21302 | 34.10661 | .1801625 | -.022283 |
| #3 | .4241358 | 165.0223 | 11.18495 | 33.74160 | .1805293 | -.020610 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.640639 | .1672852 | 2.115869 | 10.54270 | F 21.48719 | .2027991 |
| Stddev | .290904  | .0054752 | .032057  | .04511   | .07039     | .0022203 |
| %RSD   | 17.73111 | 3.272993 | 1.515093 | .4278956 | .3275812   | 1.094824 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.348647 | .1640769 | 2.134633 | 10.58569 | 21.42058 | .2051725 |
| #2 | 1.642828 | .1641714 | 2.078853 | 10.49573 | 21.48016 | .2007728 |
| #3 | 1.930442 | .1736072 | 2.134120 | 10.54667 | 21.56083 | .2024521 |

Sample Name: P4905-01      Acquired: 11/20/2024 17:30:29      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0046959 | 5.406680 | 13.64272 | .2444627 | 1.280971 | .0719787 |
| Stddev | .0002228 | .012659  | .13008   | .0070722 | .002168  | .0013964 |
| %RSD   | 4.745037 | .2341414 | .9534607 | 2.892959 | .1692529 | 1.940011 |
| #1     | .0049299 | 5.401164 | 13.72943 | .2379276 | 1.282792 | .0717109 |
| #2     | .0046716 | 5.397714 | 13.49315 | .2434893 | 1.281549 | .0707356 |
| #3     | .0044863 | 5.421161 | 13.70557 | .2519711 | 1.278573 | .0734896 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3454928 |
| Stddev | .0011329 |
| %RSD   | .3278981 |
| #1     | .3467117 |
| #2     | .3452944 |
| #3     | .3444722 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1066.322 | 29615.15 | 6070.890 | 881.8360 | 1498.265 |
| Stddev    | .600     | 326.27   | 11.315   | 8.6317   | 3.323    |
| %RSD      | .0562958 | 1.101706 | .1863883 | .9788313 | .2218177 |
| #1        | 1065.645 | 29586.73 | 6058.094 | 878.9398 | 1499.090 |
| #2        | 1066.792 | 29954.71 | 6079.576 | 891.5434 | 1501.099 |
| #3        | 1066.527 | 29304.02 | 6074.999 | 875.0249 | 1494.607 |

Sample Name: P4905-02      Acquired: 11/20/2024 17:34:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1033537 | -.004050 | 3.404259 | -.000009 | .0066076 | 65.47146 |
| Stddev | .0108933 | .005843  | .019022  | .002943  | .0021052 | .11889   |
| %RSD   | 10.53978 | 144.2459 | .5587657 | 33165.52 | 31.86032 | .1815960 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1148586 | .001306  | 3.395022 | .003245  | .0047139 | 65.40512 |
| #2 | .0931977 | -.003177 | 3.391620 | -.000788 | .0062344 | 65.40055 |
| #3 | .1020048 | -.010281 | 3.426136 | -.002484 | .0088744 | 65.60873 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.297448 | .0043111 | .0160321 | 142.2150 | .1413905 | .0919843 |
| Stddev | .002137  | .0001138 | .0000391 | .4035    | .0011271 | .0009239 |
| %RSD   | .0930232 | 2.640146 | .2437739 | .2837556 | .7971229 | 1.004414 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.299910 | .0044325 | .0160214 | 142.4611 | .1426476 | .0925397 |
| #2 | 2.296366 | .0042068 | .0160754 | 141.7492 | .1410534 | .0909178 |
| #3 | 2.296068 | .0042941 | .0159995 | 142.4346 | .1404705 | .0924954 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4480778 | 182.0351 | 11.67848 | 31.39883 | .2027841 | -.022728 |
| Stddev | .0018195 | .2908    | .02257   | .12129   | .0007400 | .000426  |
| %RSD   | .4060622 | .1597369 | .1932656 | .3862785 | .3649244 | 1.873217 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4487448 | 181.9318 | 11.69790 | 31.30326 | .2034553 | -.022616 |
| #2 | .4494696 | 181.8101 | 11.65372 | 31.35795 | .2019905 | -.023198 |
| #3 | .4460190 | 182.3634 | 11.68382 | 31.53527 | .2029066 | -.022369 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.898427 | .1796620 | 2.246079 | 10.36029 | F 21.58901 | .2103736 |
| Stddev | .122506  | .0005168 | .014902  | .03318   | .11597     | .0022505 |
| %RSD   | 6.453045 | .2876520 | .6634658 | .3202800 | .5371885   | 1.069757 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.772103 | .1802582 | 2.254568 | 10.39163 | 21.55274 | .2081951 |
| #2 | 2.016720 | .1793869 | 2.254797 | 10.36370 | 21.49550 | .2102360 |
| #3 | 1.906459 | .1793410 | 2.228872 | 10.32553 | 21.71878 | .2126897 |

Sample Name: P4905-02      Acquired: 11/20/2024 17:34:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0052333 | 4.685789 | 7.621452 | .1683768 | 1.297405 | .0796273 |
| Stddev | .0007061 | .037482  | .032806  | .0018232 | .003267  | .0004306 |
| %RSD   | 13.49300 | .7999092 | .4304407 | 1.082831 | .2518444 | .5407788 |
| #1     | .0059561 | 4.670288 | 7.597500 | .1701193 | 1.295747 | .0796329 |
| #2     | .0045452 | 4.658544 | 7.608012 | .1664823 | 1.295299 | .0800551 |
| #3     | .0051984 | 4.728535 | 7.658843 | .1685288 | 1.301169 | .0791939 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3640260 |
| Stddev | .0003656 |
| %RSD   | .1004314 |
| #1     | .3640662 |
| #2     | .3636420 |
| #3     | .3643698 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1076.046 | 29670.83 | 6083.736 | 886.1887 | 1505.784 |
| Stddev    | 3.648    | 64.28    | 21.722   | 5.9126   | 4.994    |
| %RSD      | .3389825 | .2166521 | .3570572 | .6671901 | .3316243 |
| #1        | 1078.651 | 29612.55 | 6088.211 | 881.1963 | 1509.840 |
| #2        | 1077.612 | 29739.78 | 6102.873 | 884.6518 | 1507.305 |
| #3        | 1071.878 | 29660.15 | 6060.125 | 892.7179 | 1500.207 |



Sample Name: P4905-03      Acquired: 11/20/2024 17:39:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068     | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .1134006 | -.004307 | 3.416725 | .0000639 | .0105559   | 65.18193 |
| Stddev | .0037537 | .003548  | .006607  | .0043104 | .0017277   | .70004   |
| %RSD   | 3.310147 | 82.36959 | .1933860 | 6748.788 | 16.36674   | 1.073980 |
| #1     | .1116697 | -.008381 | 3.413516 | -.004084 | .0125424   | 65.31495 |
| #2     | .1177075 | -.002637 | 3.424324 | -.000244 | .0094036   | 64.42492 |
| #3     | .1108246 | -.001903 | 3.412334 | .004520  | .0097218   | 65.80591 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677     | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.293229 | .0042773 | .0159241 | 148.8389 | .1377676   | .0922933 |
| Stddev | .023448  | .0001690 | .0002487 | 1.9692   | .0006750   | .0009832 |
| %RSD   | 1.022469 | 3.951639 | 1.561777 | 1.323025 | .4899455   | 1.065254 |
| #1     | 2.297942 | .0044707 | .0157155 | 148.1818 | .1371048   | .0911582 |
| #2     | 2.267783 | .0041575 | .0161993 | 147.2822 | .1384541   | .0928733 |
| #3     | 2.313962 | .0042038 | .0158576 | 151.0526 | .1377441   | .0928485 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316     | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .4419482 | 180.0548 | 11.68429 | 31.85398 | .1996360   | -.022301 |
| Stddev | .0058179 | 1.9000   | .11005   | .43859   | .0008233   | .000232  |
| %RSD   | 1.316410 | 1.055260 | .9418310 | 1.376890 | .4124075   | 1.039703 |
| #1     | .4458258 | 180.0011 | 11.68059 | 31.71669 | .1994366   | -.022087 |
| #2     | .4352585 | 178.1821 | 11.57614 | 31.50046 | .2005407   | -.022270 |
| #3     | .4447602 | 181.9811 | 11.79614 | 32.34480 | .1989308   | -.022548 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.787981 | .1773263 | 2.238196 | 10.27397 | F 21.70041 | .2081718 |
| Stddev | .258308  | .0039835 | .001788  | .11491   | .04923     | .0036523 |
| %RSD   | 14.44689 | 2.246438 | .0798977 | 1.118496 | .2268638   | 1.754457 |
| #1     | 1.538230 | .1727644 | 2.238698 | 10.36501 | 21.64586   | .2059155 |
| #2     | 1.771644 | .1790971 | 2.236210 | 10.14484 | 21.71383   | .2062143 |
| #3     | 2.054069 | .1801174 | 2.239679 | 10.31204 | 21.74154   | .2123855 |

Sample Name: P4905-03      Acquired: 11/20/2024 17:39:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0050490 | 4.710470 | 7.853711 | .1616602 | 1.293660 | .0788791 |
| Stddev | .0006558 | .012293  | .067891  | .0041675 | .012301  | .0003726 |
| %RSD   | 12.98859 | .2609757 | .8644400 | 2.577926 | .9508538 | .4724111 |
| #1     | .0052015 | 4.696276 | 7.878308 | .1590510 | 1.298058 | .0789407 |
| #2     | .0043304 | 4.717389 | 7.776950 | .1594631 | 1.279764 | .0792171 |
| #3     | .0056152 | 4.717744 | 7.905874 | .1664665 | 1.303157 | .0784795 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3680984 |
| Stddev | .0039994 |
| %RSD   | 1.086512 |
| #1     | .3679867 |
| #2     | .3641560 |
| #3     | .3721525 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1077.871 | 29655.05 | 6130.007 | 892.9477 | 1499.711 |
| Stddev    | 1.279    | 40.54    | 60.541   | 2.3512   | 2.140    |
| %RSD      | .1186800 | .1367192 | .9876099 | .2633056 | .1426868 |
| #1        | 1079.107 | 29687.01 | 6111.688 | 895.3378 | 1501.404 |
| #2        | 1077.953 | 29668.69 | 6197.592 | 892.8678 | 1497.306 |
| #3        | 1076.552 | 29609.44 | 6080.742 | 890.6375 | 1500.423 |

Sample Name: P4905-02LX5      Acquired: 11/20/2024 17:43:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0271369 | .0006678 | .7011725 | .0066043 | .0041258 | 15.62067 | .5494271 |
| Stddev | .0072553 | .0029672 | .0045404 | .0016350 | .0033979 | .08150   | .0005104 |
| %RSD   | 26.73576 | 444.2981 | .6475429 | 24.75716 | 82.35871 | .5217213 | .0928875 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0327655 | .0027799 | .7028785 | .0084449 | .0039943 | 15.52662 | .5488378 |
| #2 | .0189488 | .0019481 | .6960262 | .0053199 | .0007955 | 15.66504 | .5497257 |
| #3 | .0296964 | -.002725 | .7046128 | .0060481 | .0075876 | 15.67036 | .5497177 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011320 | .0028933 | 34.49791 | .0354046 | .0175794 | .1095930 | 44.72868 |
| Stddev | .0001037 | .0000848 | .06792   | .0010683 | .0003642 | .0016734 | .16586   |
| %RSD   | 9.159230 | 2.930473 | .1968788 | 3.017340 | 2.071558 | 1.526964 | .3708109 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0011471 | .0028472 | 34.42773 | .0360519 | .0177424 | .1114738 | 44.58871 |
| #2 | .0010216 | .0028416 | 34.50268 | .0341716 | .0171622 | .1090362 | 44.91187 |
| #3 | .0012274 | .0029912 | 34.56332 | .0359903 | .0178337 | .1082689 | 44.68547 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.871632 | 7.674848 | .0413589 | -.009935 | .4342500 | .0442866 | .5508997 |
| Stddev | .003201  | .034191  | .0002293 | .000368  | .3202423 | .0030467 | .0033849 |
| %RSD   | .1114741 | .4454969 | .5544435 | 3.700459 | 73.74607 | 6.879553 | .6144304 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.871796 | 7.686733 | .0412430 | -.010275 | .5760904 | .0466158 | .5487242 |
| #2 | 2.868352 | 7.701510 | .0412107 | -.009545 | .0675831 | .0408386 | .5547995 |
| #3 | 2.874748 | 7.636300 | .0416231 | -.009986 | .6590766 | .0454053 | .5491753 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.805179 | 4.288719 | .0471319 | .0007737 | .9095362 | 1.950631 | .0321665 |
| Stddev | .081195  | .050007  | .0009701 | .0004121 | .0086933 | .011521  | .0033015 |
| %RSD   | 4.497878 | 1.166008 | 2.058253 | 53.26319 | .9557960 | .5906147 | 10.26388 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.751815 | 4.304600 | .0463297 | .0005672 | .9113586 | 1.937331 | .0339718 |
| #2 | 1.898621 | 4.232700 | .0482101 | .0005057 | .9000761 | 1.957046 | .0283560 |
| #3 | 1.765102 | 4.328856 | .0468559 | .0012483 | .9171738 | 1.957517 | .0341718 |

Sample Name: P4905-02LX5      Acquired: 11/20/2024 17:43:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3157902 | .0104092 | .0880132 |
| Stddev | .0013066 | .0002576 | .0001705 |
| %RSD   | .4137514 | 2.475173 | .1937128 |
| #1     | .3158534 | .0101119 | .0878165 |
| #2     | .3170640 | .0105672 | .0881034 |
| #3     | .3144531 | .0105484 | .0881196 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 969.5325 | 26442.11 | 5264.213 | 796.6738 | 1680.414 |
| Stddev    | 6.8549   | 63.66    | 11.498   | 3.9712   | 11.427   |
| %RSD      | .7070288 | .2407690 | .2184160 | .4984688 | .6800169 |
| #1        | 965.7274 | 26460.91 | 5266.376 | 797.6226 | 1675.448 |
| #2        | 977.4459 | 26371.16 | 5251.787 | 792.3142 | 1693.484 |
| #3        | 965.4241 | 26494.25 | 5274.475 | 800.0847 | 1672.311 |

Sample Name: P4905-04      Acquired: 11/20/2024 17:48:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2557317 | .1725230 | 3.468806 | .2677738 | .2738265 | 70.94388 |
| Stddev | .0088791 | .0023860 | .015227  | .0083752 | .0034840 | .04114   |
| %RSD   | 3.472033 | 1.382987 | .4389729 | 3.127709 | 1.272324 | .0579872 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2455805 | .1749181 | 3.471725 | .2773720 | .2770593 | 70.92666 |
| #2 | .2595610 | .1701463 | 3.452330 | .2619497 | .2701365 | 70.91415 |
| #3 | .2620535 | .1725048 | 3.482362 | .2639998 | .2742837 | 70.99083 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.535141 | .1510238 | .1982779 | 141.0111 | .7712936 | 1.960680 |
| Stddev | .019628  | .0002250 | .0010922 | .1061    | .0021538 | .012004  |
| %RSD   | .2299721 | .1489880 | .5508636 | .0752321 | .2792431 | .6122217 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 8.531260 | .1512462 | .1991291 | 141.0214 | .7690381 | 1.968932 |
| #2 | 8.556420 | .1507963 | .1970463 | 141.1116 | .7733287 | 1.946909 |
| #3 | 8.517743 | .1510288 | .1986581 | 140.9002 | .7715139 | 1.966198 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.152409 | 184.6520 | 13.03711 | 31.26042 | 2.062905 | .1174275 |
| Stddev | .005289  | .3935    | .02493   | .11605   | .007849  | .0007431 |
| %RSD   | .4589773 | .2131100 | .1911907 | .3712203 | .3804875 | .6328220 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.158506 | 184.3945 | 13.05704 | 31.21695 | 2.067443 | .1171084 |
| #2 | 1.149681 | 184.4564 | 13.04514 | 31.17238 | 2.053841 | .1168973 |
| #3 | 1.149041 | 185.1050 | 13.00916 | 31.39192 | 2.067430 | .1182769 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.611467 | 1.779390 | 3.429326 | 10.23037 | F 21.30804 | .2124780 |
| Stddev | .076589  | .014244  | .013766  | .06915   | .04352     | .0013859 |
| %RSD   | 4.752722 | .8004890 | .4014116 | .6759142 | .2042626   | .6522313 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.688858 | 1.770575 | 3.439920 | 10.22637 | 21.29841 | .2140762 |
| #2 | 1.535707 | 1.795823 | 3.434291 | 10.16331 | 21.27014 | .2117489 |
| #3 | 1.609836 | 1.771773 | 3.413767 | 10.30143 | 21.35558 | .2116088 |

Sample Name: P4905-04      Acquired: 11/20/2024 17:48:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0050182 | 4.652125 | 7.574020 | .1683523 | 1.291682 | .0772865 |
| Stddev | .0006925 | .028471  | .004722  | .0027608 | .000962  | .0011691 |
| %RSD   | 13.79961 | .6120022 | .0623457 | 1.639896 | .0744850 | 1.512629 |
| #1     | .0058173 | 4.682678 | 7.579422 | .1679142 | 1.292754 | .0786266 |
| #2     | .0045926 | 4.626337 | 7.571959 | .1658367 | 1.290895 | .0767567 |
| #3     | .0046448 | 4.647360 | 7.570678 | .1713059 | 1.291397 | .0764761 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3619445 |
| Stddev | .0005751 |
| %RSD   | .1589032 |
| #1     | .3617875 |
| #2     | .3625819 |
| #3     | .3614642 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1067.000 | 29714.46 | 6128.307 | 888.7143 | 1494.437 |
| Stddev    | 3.763    | 27.66    | 18.895   | .1406    | 6.409    |
| %RSD      | .3526672 | .0930980 | .3083168 | .0158165 | .4288343 |
| #1        | 1067.500 | 29746.12 | 6132.959 | 888.6867 | 1492.957 |
| #2        | 1070.488 | 29694.97 | 6144.441 | 888.5897 | 1501.457 |
| #3        | 1063.012 | 29702.29 | 6107.521 | 888.8667 | 1488.898 |

Sample Name: P4905-05      Acquired: 11/20/2024 17:52:21      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1345479 | -.001976 | 3.934753 | .0001775 | .0073349 | 75.86152 |
| Stddev | .0073478 | .004432  | .013794  | .0138615 | .0014232 | .16194   |
| %RSD   | 5.461077 | 224.2698 | .3505558 | 7809.609 | 19.40265 | .2134726 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1265036 | -.006268 | 3.918846 | .0081065 | .0061769 | 76.04483 |
| #2 | .1409059 | .002584  | 3.943415 | -.015828 | .0089237 | 75.73785 |
| #3 | .1362342 | -.002244 | 3.941997 | .008254  | .0069041 | 75.80188 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.680484 | .0050546 | .0189887 | 158.4996 | .1405493 | .1084412 |
| Stddev | .001936  | .0000495 | .0005115 | .1989    | .0012838 | .0007247 |
| %RSD   | .0722219 | .9801375 | 2.693931 | .1254767 | .9134011 | .6682705 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.682681 | .0049974 | .0184971 | 158.6160 | .1408484 | .1079769 |
| #2 | 2.679028 | .0050806 | .0189510 | 158.2700 | .1391424 | .1092762 |
| #3 | 2.679744 | .0050857 | .0195180 | 158.6129 | .1416572 | .1080704 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5196640 | 192.3402 | 13.39906 | 37.02882 | .2261993 | -.024137 |
| Stddev | .0028711 | .6342    | .01681   | .17110   | .0023319 | .000346  |
| %RSD   | .5524826 | .3297240 | .1254501 | .4620751 | 1.030912 | 1.433885 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5221455 | 193.0578 | 13.40954 | 37.19703 | .2250256 | -.023869 |
| #2 | .5203270 | 191.8552 | 13.37968 | 36.85497 | .2288849 | -.024014 |
| #3 | .5165194 | 192.1075 | 13.40798 | 37.03446 | .2246875 | -.024528 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.682663 | .2007378 | 2.559951 | 11.66224 | F 25.73676 | .2261645 |
| Stddev | .119968  | .0018696 | .013952  | .06926   | .04711     | .0014027 |
| %RSD   | 7.129666 | .9313818 | .5450192 | .5939009 | .1830542   | .6202114 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.811885 | .2007049 | 2.575891 | 11.63473 | 25.70045 | .2277129 |
| #2 | 1.574825 | .1988848 | 2.549955 | 11.74103 | 25.71985 | .2258017 |
| #3 | 1.661278 | .2026237 | 2.554006 | 11.61096 | 25.79000 | .2249788 |

Sample Name: P4905-05      Acquired: 11/20/2024 17:52:21      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0061009 | 5.255117 | 10.36102 | .1825701 | 1.411938 | .0946176 |
| Stddev | .0004416 | .001742  | .07587   | .0039707 | .005826  | .0007747 |
| %RSD   | 7.238211 | .0331444 | .7322596 | 2.174890 | .4126463 | .8187635 |
| #1     | .0064659 | 5.255266 | 10.33546 | .1829728 | 1.418545 | .0937546 |
| #2     | .0062268 | 5.256779 | 10.30123 | .1784134 | 1.407537 | .0948454 |
| #3     | .0056101 | 5.253305 | 10.44637 | .1863241 | 1.409732 | .0952529 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .4155376 |
| Stddev | .0006928 |
| %RSD   | .1667206 |
| #1     | .4163103 |
| #2     | .4149718 |
| #3     | .4153309 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1100.992 | 30393.17 | 6265.874 | 909.3758 | 1476.400 |
| Stddev    | .899     | 108.35   | 22.700   | 5.9390   | 1.535    |
| %RSD      | .0816657 | .3565089 | .3622810 | .6530877 | .1039779 |
| #1        | 1101.198 | 30277.39 | 6259.968 | 902.5229 | 1476.334 |
| #2        | 1101.771 | 30409.96 | 6290.944 | 913.0272 | 1477.968 |
| #3        | 1100.008 | 30492.14 | 6246.711 | 912.5773 | 1474.900 |



Sample Name: CCV037      Acquired: 11/20/2024 17:56:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV037      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.916882 | 4.721936 | 24.03685 | 4.646909 | 4.724819 | 397.7862 | 9.751811 |
| Stddev | .087421  | .075053  | .37974   | .111604  | .109061  | 1.5754   | .029568  |
| %RSD   | 1.777968 | 1.589446 | 1.579810 | 2.401685 | 2.308256 | .3960448 | .3032096 |
| #1     | 5.006548 | 4.801235 | 24.41184 | 4.770800 | 4.843889 | 398.6560 | 9.767198 |
| #2     | 4.831895 | 4.652011 | 23.65254 | 4.554244 | 4.629773 | 395.9676 | 9.717722 |
| #3     | 4.912204 | 4.712562 | 24.04617 | 4.615681 | 4.700795 | 398.7349 | 9.770513 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4828902 | 2.408118 | 386.4680 | 14.62994 | 2.423459 | 14.39402 | 398.0177 |
| Stddev | .0023087 | .035907  | 1.4841   | .01744   | .034542  | .05145   | 1.6643   |
| %RSD   | .4780937 | 1.491084 | .3840166 | .1191988 | 1.425299 | .3574643 | .4181496 |
| #1     | .4850433 | 2.444748 | 387.0076 | 14.60981 | 2.458090 | 14.41250 | 398.8175 |
| #2     | .4804524 | 2.372981 | 384.7896 | 14.63994 | 2.389008 | 14.33588 | 396.1045 |
| #3     | .4831749 | 2.406625 | 387.6069 | 14.64009 | 2.423279 | 14.43368 | 399.1312 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 13.97948 | 388.5517 | 2.407798 | 1.200776 | 397.8815 | 2.403572 | 13.90886 |
| Stddev | .05037   | 1.4379   | .036087  | .004708  | 1.6413   | .020260  | .08892   |
| %RSD   | .3603368 | .3700620 | 1.498741 | .3920996 | .4125106 | .8429091 | .6393253 |
| #1     | 14.00399 | 389.2312 | 2.442029 | 1.195583 | 399.3114 | 2.408198 | 13.81002 |
| #2     | 13.92154 | 386.9000 | 2.370105 | 1.201978 | 396.0893 | 2.381400 | 13.93420 |
| #3     | 14.01290 | 389.5238 | 2.411260 | 1.204767 | 398.2439 | 2.421120 | 13.98236 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 146.2351 | 4.850686 | 5.125325 | 4.649352 | 4.934310 | 5.214026 | 4.833370 |
| Stddev | .5079    | .068995  | .032363  | .084985  | .052931  | .029525  | .059315  |
| %RSD   | .3473113 | 1.422374 | .6314311 | 1.827882 | 1.072713 | .5662591 | 1.227202 |
| #1     | 146.3260 | 4.920654 | 5.151509 | 4.743929 | 4.989211 | 5.236955 | 4.882471 |
| #2     | 145.6879 | 4.782707 | 5.089143 | 4.579396 | 4.883598 | 5.180711 | 4.767466 |
| #3     | 146.6914 | 4.848698 | 5.135323 | 4.624730 | 4.930121 | 5.224410 | 4.850174 |

Sample Name: CCV037      Acquired: 11/20/2024 17:56:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV037      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.789753 | 4.921075 | 4.905492 |
| Stddev | .023131  | .018649  | .009446  |
| %RSD   | .4829172 | .3789552 | .1925513 |
| #1     | 4.802706 | 4.929941 | 4.916392 |
| #2     | 4.763048 | 4.899648 | 4.899717 |
| #3     | 4.803505 | 4.933637 | 4.900366 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 732.5126 | 21640.71 | 4707.279 | 565.4231 | 1265.177 |
| Stddev    | 12.5842  | 92.56    | 8.369    | 4.3916   | 17.028   |
| %RSD      | 1.717945 | .4277110 | .1777920 | .7766906 | 1.345907 |
| #1        | 718.8972 | 21737.88 | 4705.539 | 570.4468 | 1248.906 |
| #2        | 743.7165 | 21553.58 | 4716.381 | 563.5095 | 1282.873 |
| #3        | 734.9240 | 21630.67 | 4699.917 | 562.3131 | 1263.751 |

Sample Name: CCB037      Acquired: 11/20/2024 18:01:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB037      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000365 | .0004188 | -.001785 | .0032114 | .0001734 | .0310466 | -.001981 |
| Stddev | .003340  | .0033969 | .002278  | .0043554 | .0024589 | .0089289 | .000120  |
| %RSD   | 915.8702 | 811.0341 | 127.5863 | 135.6239 | 1417.909 | 28.75968 | 6.064143 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.004076 | .0012874 | -.004111 | .0054115 | -.002273 | .0370821 | -.002120 |
| #2 | .002398  | .0032971 | -.001687 | -.001805 | .002645  | .0352680 | -.001902 |
| #3 | .000585  | -.003328 | .000442  | .006028  | .000148  | .0207897 | -.001922 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000108 | .0002554 | .0151213 | .0013055 | -.000105 | .0012770 | .0237145 |
| Stddev | .000114  | .0002232 | .0055266 | .0002990 | .001130  | .0014022 | .0096957 |
| %RSD   | 106.0089 | 87.38736 | 36.54862 | 22.90698 | 1074.821 | 109.7993 | 40.88529 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000236 | .0002363 | .0170448 | .0009669 | -.001076 | -.000176 | .0348753 |
| #2 | -.000072 | .0000424 | .0194291 | .0015333 | .001135  | .001385  | .0173695 |
| #3 | -.000016 | .0004876 | .0088899 | .0014163 | -.000375 | .002622  | .0188987 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000461 | .0324649 | .0010328 | -.006574 | .2225898 | -.003382 | -.000167 |
| Stddev | .0001419 | .0320087 | .0003067 | .000409  | .1152421 | .007771  | .000231  |
| %RSD   | 308.0364 | 98.59484 | 29.69755 | 6.222599 | 51.77328 | 229.7839 | 138.2850 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000021 | -.002689 | .0006843 | -.006359 | .2705217 | -.001824 | -.000029 |
| #2 | .000209  | .040157  | .0011525 | -.007046 | .3061304 | -.011814 | -.000039 |
| #3 | -.000049 | .059927  | .0012616 | -.006318 | .0911175 | .003492  | -.000433 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.569149 | .0004273 | .0005636 | .0001123 | -.007331 | .0027912 | .0007101 |
| Stddev | .140584  | .0026579 | .0015340 | .0007386 | .004162  | .0010701 | .0012603 |
| %RSD   | 24.70076 | 622.0734 | 272.1953 | 657.6338 | 56.77550 | 38.33753 | 177.4904 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.546885 | .0018042 | -.000845 | -.000703 | -.007579 | .0035080 | .0011428 |
| #2 | -.719537 | .0021141 | .000338  | .000303  | -.011364 | .0015612 | .0016970 |
| #3 | -.441025 | -.002637 | .002198  | .000737  | -.003050 | .0033044 | -.000710 |

Sample Name: CCB037      Acquired: 11/20/2024 18:01:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB037      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000914 | -.007860 | .0001929 |
| Stddev | .000812  | .000868  | .0001278 |
| %RSD   | 88.89300 | 11.04495 | 66.26816 |
| #1     | -.000558 | -.008788 | .0002903 |
| #2     | -.001843 | -.007724 | .0002403 |
| #3     | -.000340 | -.007068 | .0000482 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 919.3665 | 25207.54 | 4961.955 | 760.5522 | 1754.902 |
| Stddev    | 2.1116   | 65.34    | 41.620   | 1.9223   | 2.251    |
| %RSD      | .2296787 | .2591925 | .8387913 | .2527474 | .1282938 |
| #1        | 918.9556 | 25137.69 | 4944.564 | 762.2055 | 1756.082 |
| #2        | 917.4905 | 25217.76 | 5009.450 | 758.4429 | 1752.306 |
| #3        | 921.6533 | 25267.16 | 4931.850 | 761.0082 | 1756.319 |

Sample Name: P4905-06      Acquired: 11/20/2024 18:05:37      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1279671 | -.003752 | 2.292285 | .0067577 | .0096616 | 73.23357 |
| Stddev | .0266180 | .002339  | .012709  | .0051986 | .0012118 | .08750   |
| %RSD   | 20.80062 | 62.33551 | .5544338 | 76.92908 | 12.54240 | .1194744 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1074943 | -.006084 | 2.288364 | .0119396 | .0086849 | 73.17797 |
| #2 | .1580571 | -.001406 | 2.281998 | .0015425 | .0110177 | 73.33442 |
| #3 | .1183500 | -.003767 | 2.306493 | .0067909 | .0092822 | 73.18830 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.997452 | .0046280 | .0161790 | 160.0924 | .1186980 | .1082907 |
| Stddev | .001815  | .0002101 | .0003520 | .4129    | .0002632 | .0009050 |
| %RSD   | .0908616 | 4.539126 | 2.175682 | .2578976 | .2217606 | .8356829 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.997575 | .0043890 | .0161838 | 159.6947 | .1184325 | .1082325 |
| #2 | 1.999202 | .0047119 | .0158246 | 160.5189 | .1187026 | .1074162 |
| #3 | 1.995579 | .0047832 | .0165286 | 160.0636 | .1189589 | .1092233 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4136513 | 188.5228 | 12.70852 | 33.31905 | .1954276 | -.024801 |
| Stddev | .0015186 | .2737    | .03980   | .12327   | .0011078 | .000639  |
| %RSD   | .3671298 | .1451948 | .3131658 | .3699710 | .5668695 | 2.574553 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4140947 | 188.2197 | 12.67081 | 33.17755 | .1941488 | -.025420 |
| #2 | .4119603 | 188.7520 | 12.75012 | 33.40316 | .1960397 | -.024144 |
| #3 | .4148988 | 188.5968 | 12.70463 | 33.37644 | .1960944 | -.024840 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.905343 | .1854533 | 1.610948 | 9.545579 | F 21.30306 | .2137698 |
| Stddev | .209777  | .0021868 | .016306  | .147573  | .11107     | .0004079 |
| %RSD   | 11.00992 | 1.179187 | 1.012223 | 1.545983 | .5213842   | .1908288 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.044463 | .1870898 | 1.621297 | 9.387899 | 21.28983 | .2136761 |
| #2 | 1.664055 | .1863004 | 1.619396 | 9.568466 | 21.19920 | .2142164 |
| #3 | 2.007511 | .1829696 | 1.592151 | 9.680371 | 21.42016 | .2134169 |

Sample Name: P4905-06      Acquired: 11/20/2024 18:05:37      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0043622 | 4.061515 | 9.144543 | .1128859 | 1.472431 | .0867608 |
| Stddev | .0001967 | .007823  | .040484  | .0017386 | .007325  | .0007734 |
| %RSD   | 4.507917 | .1926064 | .4427083 | 1.540132 | .4974772 | .8914675 |
| #1     | .0043305 | 4.065139 | 9.098696 | .1110609 | 1.480736 | .0866447 |
| #2     | .0045728 | 4.066869 | 9.175372 | .1130741 | 1.466887 | .0875857 |
| #3     | .0041834 | 4.052538 | 9.159560 | .1145228 | 1.469672 | .0860519 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3670869 |
| Stddev | .0010598 |
| %RSD   | .2886997 |
| #1     | .3665268 |
| #2     | .3683092 |
| #3     | .3664247 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1105.806 | 30675.10 | 6387.256 | 915.9234 | 1471.145 |
| Stddev    | 6.610    | 186.96   | 40.666   | 6.7577   | 7.803    |
| %RSD      | .5977130 | .6094926 | .6366786 | .7377968 | .5303838 |
| #1        | 1104.412 | 30821.13 | 6433.868 | 912.5274 | 1471.568 |
| #2        | 1113.001 | 30464.38 | 6359.026 | 911.5373 | 1478.728 |
| #3        | 1100.004 | 30739.78 | 6368.873 | 923.7055 | 1463.140 |

Sample Name: P4905-07      Acquired: 11/20/2024 18:10:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0897181 | -.001556 | 4.663358 | .0041241 | .0075793 | 66.90254 |
| Stddev | .0090422 | .005904  | .011568  | .0075637 | .0016557 | .09903   |
| %RSD   | 10.07852 | 379.4498 | .2480704 | 183.4000 | 21.84511 | .1480189 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0873791 | -.000438 | 4.676673 | .0123871 | .0078057 | 66.79651 |
| #2 | .0820751 | .003709  | 4.655772 | -.002457 | .0058221 | 66.91847 |
| #3 | .0997000 | -.007939 | 4.657629 | .002442  | .0091102 | 66.99263 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.371562 | .0038075 | .0172218 | 49.01407 | .1433660 | .0693739 |
| Stddev | .004651  | .0000361 | .0002922 | .11087   | .0015118 | .0003323 |
| %RSD   | .1961285 | .9468246 | 1.696974 | .2261998 | 1.054526 | .4789590 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.370393 | .0038429 | .0174487 | 49.04643 | .1421545 | .0697574 |
| #2 | 2.376687 | .0037709 | .0173246 | 49.10515 | .1428831 | .0691918 |
| #3 | 2.367607 | .0038086 | .0168920 | 48.89061 | .1450602 | .0691724 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5372456 | 151.4223 | 7.162598 | 20.16005 | .2206166 | -.021568 |
| Stddev | .0021700 | .6234    | .027621  | .09890   | .0006586 | .000188  |
| %RSD   | .4039168 | .4117165 | .3856215 | .4905548 | .2985150 | .8724508 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5374057 | 150.7143 | 7.153399 | 20.05450 | .2211603 | -.021352 |
| #2 | .5350000 | 151.8890 | 7.193644 | 20.25058 | .2208052 | -.021663 |
| #3 | .5393311 | 151.6636 | 7.140751 | 20.17507 | .2198843 | -.021690 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.406383 | .1821874 | 3.147117 | 3.921024 | F 13.00120 | .1691100 |
| Stddev | .129283  | .0017136 | .018458  | .107542  | .02919     | .0020234 |
| %RSD   | 9.192586 | .9405903 | .5864948 | 2.742704 | .2245016   | 1.196522 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.282711 | .1840881 | 3.135953 | 3.807488 | 13.03404 | .1667761 |
| #2 | 1.395810 | .1807606 | 3.136975 | 3.934233 | 12.99134 | .1703711 |
| #3 | 1.540628 | .1817135 | 3.168421 | 4.021352 | 12.97822 | .1701829 |

Sample Name: P4905-07      Acquired: 11/20/2024 18:10:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0059529 | 5.074854 | 8.699285 | .1398025 | 1.385754 | .0755490 |
| Stddev | .0000307 | .022209  | .039324  | .0025714 | .003956  | .0007270 |
| %RSD   | .5161918 | .4376371 | .4520327 | 1.839272 | .2854940 | .9623407 |
| #1     | .0059513 | 5.100157 | 8.655572 | .1393427 | 1.381364 | .0763349 |
| #2     | .0059844 | 5.065822 | 8.731782 | .1425727 | 1.389044 | .0749005 |
| #3     | .0059230 | 5.058584 | 8.710501 | .1374921 | 1.386854 | .0754116 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .1882968 |
| Stddev | .0005403 |
| %RSD   | .2869516 |
| #1     | .1879795 |
| #2     | .1889207 |
| #3     | .1879902 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1066.538 | 29505.15 | 5959.729 | 883.3304 | 1573.975 |
| Stddev    | 1.372    | 48.70    | 18.421   | 3.9138   | 8.164    |
| %RSD      | .1286604 | .1650441 | .3090854 | .4430741 | .5187179 |
| #1        | 1064.981 | 29520.26 | 5974.531 | 882.3544 | 1564.645 |
| #2        | 1067.063 | 29544.50 | 5939.099 | 887.6399 | 1579.810 |
| #3        | 1067.570 | 29450.69 | 5965.556 | 879.9970 | 1577.471 |



Sample Name: P4905-08      Acquired: 11/20/2024 18:14:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHB0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068     | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .0677554 | -.000338 | 3.494178 | .0054996 | .0068227   | 59.65765 |
| Stddev | .0030273 | .003542  | .010308  | .0012800 | .0012043   | .06993   |
| %RSD   | 4.467986 | 1047.275 | .2950002 | 23.27381 | 17.65111   | .1172207 |
| #1     | .0711357 | -.003571 | 3.496594 | .0053051 | .0061773   | 59.64930 |
| #2     | .0668367 | -.000891 | 3.482877 | .0068657 | .0060787   | 59.59227 |
| #3     | .0652939 | .003448  | 3.503064 | .0043281 | .0082121   | 59.73138 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677     | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.113020 | .0032203 | .0141893 | 47.56130 | .1147940   | .0597029 |
| Stddev | .005062  | .0001420 | .0000979 | .08704   | .0006124   | .0001195 |
| %RSD   | .2395783 | 4.407765 | .6896289 | .1830137 | .5335095   | .2001843 |
| #1     | 2.107348 | .0031902 | .0140767 | 47.49644 | .1149030   | .0596901 |
| #2     | 2.114632 | .0033749 | .0142373 | 47.52723 | .1141345   | .0598283 |
| #3     | 2.117080 | .0030959 | .0142539 | 47.66022 | .1153447   | .0595903 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316     | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .4594338 | 135.7558 | 6.748081 | 20.20605 | .1758455   | -.019272 |
| Stddev | .0025237 | .3933    | .010482  | .12441   | .0016014   | .000790  |
| %RSD   | .5493063 | .2896780 | .1553263 | .6157285 | .9106900   | 4.097872 |
| #1     | .4618380 | 136.1228 | 6.738057 | 20.23029 | .1768804   | -.018446 |
| #2     | .4568055 | 135.3407 | 6.747219 | 20.07129 | .1740009   | -.019350 |
| #3     | .4596580 | 135.8039 | 6.758967 | 20.31655 | .1766552   | -.020019 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.215847 | .1570003 | 2.507130 | 2.310721 | F 11.92459 | .1434681 |
| Stddev | .013898  | .0045262 | .004631  | .081980  | .03802     | .0029353 |
| %RSD   | 1.143106 | 2.882919 | .1847141 | 3.547822 | .3188445   | 2.045975 |
| #1     | 1.230209 | .1592797 | 2.512476 | 2.362515 | 11.91811   | .1465906 |
| #2     | 1.214868 | .1517875 | 2.504340 | 2.216203 | 11.89023   | .1430485 |
| #3     | 1.202464 | .1599336 | 2.504574 | 2.353444 | 11.96544   | .1407651 |

Sample Name: P4905-08      Acquired: 11/20/2024 18:14:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHB0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0042201 | 3.185972 | 8.529486 | .0989400 | 1.104809 | .0701391 |
| Stddev | .0004347 | .022842  | .044855  | .0018338 | .003092  | .0005011 |
| %RSD   | 10.30147 | .7169638 | .5258852 | 1.853413 | .2799008 | .7144768 |
| #1     | .0039466 | 3.195981 | 8.478443 | .0968229 | 1.107559 | .0695923 |
| #2     | .0039924 | 3.202101 | 8.547394 | .0999686 | 1.105407 | .0705764 |
| #3     | .0047214 | 3.159834 | 8.562621 | .1000286 | 1.101461 | .0702485 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .1603464 |
| Stddev | .0001344 |
| %RSD   | .0838474 |
| #1     | .1602182 |
| #2     | .1603346 |
| #3     | .1604863 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1036.131 | 28608.76 | 5715.040 | 857.3881 | 1587.674 |
| Stddev    | .580     | 154.52   | 10.302   | 4.2684   | 3.828    |
| %RSD      | .0560133 | .5401015 | .1802546 | .4978376 | .2411152 |
| #1        | 1035.694 | 28448.41 | 5723.254 | 852.4631 | 1586.305 |
| #2        | 1036.789 | 28756.70 | 5718.384 | 860.0169 | 1591.999 |
| #3        | 1035.910 | 28621.18 | 5703.482 | 859.6842 | 1584.719 |

Sample Name: P4905-09      Acquired: 11/20/2024 18:18:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHB1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1113760 | -.001631 | 10.93350 | -.005863 | .0101093 | 77.93665 |
| Stddev | .0021968 | .002011  | .04979   | .002695  | .0007552 | 1.01124  |
| %RSD   | 1.972398 | 123.2648 | .4554029 | 45.95859 | 7.469888 | 1.297515 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1138898 | -.000202 | 10.90994 | -.002893 | .0103915 | 79.10301 |
| #2 | .1104128 | -.000761 | 10.89985 | -.006546 | .0092537 | 77.40143 |
| #3 | .1098253 | -.003931 | 10.99069 | -.008151 | .0106828 | 77.30550 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.911672 | .0049010 | .0304852 | 94.78095 | .1710263 | .0949778 |
| Stddev | .040828  | .0000255 | .0000765 | 1.03054  | .0009883 | .0004140 |
| %RSD   | 1.043758 | .5210710 | .2507610 | 1.087288 | .5778497 | .4358380 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.958121 | .0048824 | .0303987 | 95.97041 | .1699167 | .0948619 |
| #2 | 3.895432 | .0049301 | .0305131 | 94.21612 | .1718118 | .0946341 |
| #3 | 3.881462 | .0048904 | .0305438 | 94.15631 | .1713504 | .0954373 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .9430577 | 219.7563 | 9.092475 | 32.42203 | .2463271 | -.023236 |
| Stddev | .0096730 | 3.1712   | .074046  | .48309   | .0007901 | .000622  |
| %RSD   | 1.025703 | 1.443058 | .8143679 | 1.490017 | .3207341 | 2.677614 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9540449 | 223.4166 | 9.177944 | 32.97344 | .2455736 | -.023933 |
| #2 | .9358240 | 217.8345 | 9.051760 | 32.21934 | .2471492 | -.022736 |
| #3 | .9393043 | 218.0179 | 9.047721 | 32.07329 | .2462585 | -.023039 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.137147 | .2094002 | 5.153852 | 4.383497 | F 21.72780 | .2336264 |
| Stddev | .334965  | .0066259 | .030153  | .166425  | .10748     | .0029588 |
| %RSD   | 15.67348 | 3.164248 | .5850551 | 3.796618 | .4946469   | 1.266467 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.521598 | .2137453 | 5.121043 | 4.575225 | 21.67699 | .2370429 |
| #2 | 1.981657 | .2126814 | 5.160163 | 4.276340 | 21.65514 | .2319068 |
| #3 | 1.908185 | .2017739 | 5.180350 | 4.298926 | 21.85126 | .2319294 |

Sample Name: P4905-09      Acquired: 11/20/2024 18:18:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHB1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0071656 | 4.301120 | 12.97978 | .2125086 | 1.523054 | .0908398 |
| Stddev | .0006943 | .007249  | .17833   | .0043321 | .020067  | .0019415 |
| %RSD   | 9.689319 | .1685454 | 1.373918 | 2.038571 | 1.317570 | 2.137306 |
| #1     | .0063678 | 4.297186 | 13.18481 | .2079500 | 1.545250 | .0929205 |
| #2     | .0076330 | 4.296688 | 12.86073 | .2130041 | 1.506194 | .0905224 |
| #3     | .0074960 | 4.309486 | 12.89380 | .2165717 | 1.517719 | .0890766 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3164052 |
| Stddev | .0034423 |
| %RSD   | 1.087949 |
| #1     | .3203196 |
| #2     | .3150462 |
| #3     | .3138498 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1053.217 | 29318.99 | 5933.767 | 874.8914 | 1520.337 |
| Stddev    | 1.321    | 130.85   | 72.582   | 6.0229   | 5.885    |
| %RSD      | .1253987 | .4462954 | 1.223207 | .6884212 | .3870741 |
| #1        | 1054.110 | 29470.07 | 5851.409 | 881.6197 | 1522.273 |
| #2        | 1053.840 | 29245.05 | 5988.399 | 873.0516 | 1525.010 |
| #3        | 1051.699 | 29241.85 | 5961.494 | 870.0030 | 1513.728 |

Sample Name: P4905-10      Acquired: 11/20/2024 18:23:10      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0701781 | -.003910 | 7.379679 | .0048436 | .0145806 | 60.38528 |
| Stddev | .0052163 | .002397  | .016390  | .0093235 | .0049712 | .10452   |
| %RSD   | 7.432886 | 61.29007 | .2221018 | 192.4921 | 34.09451 | .1730808 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0701426 | -.001951 | 7.367702 | -.003152 | .0140783 | 60.27049 |
| #2 | .0754120 | -.003197 | 7.372976 | .015085  | .0098796 | 60.47495 |
| #3 | .0649796 | -.006582 | 7.398358 | .002598  | .0197839 | 60.41039 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.202521 | .0037740 | .0295435 | 180.3338 | .1666824 | .0740649 |
| Stddev | .011715  | .0001352 | .0000453 | .7019    | .0015989 | .0004651 |
| %RSD   | .3657981 | 3.582308 | .1533311 | .3892451 | .9592576 | .6278962 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.189169 | .0038145 | .0295515 | 179.5290 | .1654122 | .0737456 |
| #2 | 3.211072 | .0036232 | .0294947 | 180.6535 | .1661570 | .0738507 |
| #3 | 3.207323 | .0038844 | .0295843 | 180.8191 | .1684779 | .0745985 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5163058 | 184.5896 | 8.297238 | 45.48191 | .2587101 | -.017173 |
| Stddev | .0001258 | .0865    | .035647  | .10636   | .0016666 | .000657  |
| %RSD   | .0243714 | .0468784 | .4296308 | .2338467 | .6441952 | 3.827323 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5162742 | 184.5476 | 8.256116 | 45.37304 | .2568181 | -.017422 |
| #2 | .5164445 | 184.5321 | 8.319371 | 45.58557 | .2593519 | -.017669 |
| #3 | .5161989 | 184.6891 | 8.316228 | 45.48711 | .2599605 | -.016427 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.234574 | .1635679 | 5.614755 | 4.898021 | F 14.50350 | .2246710 |
| Stddev | .020293  | .0027077 | .007381  | .202372  | .01032     | .0027896 |
| %RSD   | .9081403 | 1.655422 | .1314499 | 4.131712 | .0711293   | 1.241655 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.258002 | .1608365 | 5.622228 | 4.817658 | 14.49661 | .2219499 |
| #2 | 2.223240 | .1662513 | 5.607471 | 5.128232 | 14.49853 | .2275245 |
| #3 | 2.222479 | .1636158 | 5.614566 | 4.748175 | 14.51536 | .2245386 |

Sample Name: P4905-10      Acquired: 11/20/2024 18:23:10      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0070388 | 5.138488 | 13.00255 | .1872142 | 1.446207 | .0718655 |
| Stddev | .0004995 | .006006  | .03733   | .0034186 | .003493  | .0003130 |
| %RSD   | 7.096072 | .1168924 | .2870667 | 1.826020 | .2414967 | .4355374 |
| #1     | .0066213 | 5.137665 | 12.98480 | .1839345 | 1.448185 | .0715337 |
| #2     | .0075921 | 5.132935 | 13.04543 | .1907565 | 1.442175 | .0719073 |
| #3     | .0069029 | 5.144863 | 12.97740 | .1869517 | 1.448262 | .0721555 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .5499457 |
| Stddev | .0012156 |
| %RSD   | .2210398 |
| #1     | .5485530 |
| #2     | .5507938 |
| #3     | .5504902 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 973.4595 | 26983.45 | 5584.901 | 807.6062 | 1484.522 |
| Stddev    | 1.4783   | 91.30    | 17.700   | 1.3885   | 3.936    |
| %RSD      | .1518648 | .3383547 | .3169217 | .1719338 | .2651240 |
| #1        | 975.1648 | 27026.22 | 5601.807 | 807.4540 | 1488.856 |
| #2        | 972.5390 | 27045.51 | 5586.393 | 809.0646 | 1483.539 |
| #3        | 972.6749 | 26878.61 | 5566.502 | 806.3000 | 1481.170 |

Sample Name: P4905-11      Acquired: 11/20/2024 18:27:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0950057 | .0010367 | 6.835463 | -.000613 | .0068912 | 65.31737 |
| Stddev | .0081262 | .0043410 | .015159  | .002132  | .0007546 | .18400   |
| %RSD   | 8.553344 | 418.7549 | .2217762 | 347.8857 | 10.95045 | .2817004 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0970882 | .0053114 | 6.849228 | -.003054 | .0060280 | 65.50969 |
| #2 | .0860409 | .0011663 | 6.819215 | .000883  | .0074254 | 65.14301 |
| #3 | .1018879 | -.003368 | 6.837944 | .000332  | .0072204 | 65.29941 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.149789 | .0038347 | .0272782 | 214.6787 | .1443771 | .0816384 |
| Stddev | .006678  | .0001634 | .0002885 | .4822    | .0022165 | .0008710 |
| %RSD   | .2120243 | 4.261338 | 1.057753 | .2246231 | 1.535217 | 1.066890 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.152726 | .0037592 | .0271816 | 214.9703 | .1445240 | .0820778 |
| #2 | 3.142146 | .0040222 | .0270504 | 214.1221 | .1420908 | .0806352 |
| #3 | 3.154496 | .0037226 | .0276027 | 214.9436 | .1465165 | .0822022 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4881139 | 178.6682 | 9.251175 | 43.68990 | .2165893 | -.016786 |
| Stddev | .0047093 | .5235    | .036144  | .10488   | .0004389 | .000171  |
| %RSD   | .9647980 | .2930189 | .3907000 | .2400602 | .2026298 | 1.019611 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4905448 | 179.1490 | 9.278140 | 43.80511 | .2164625 | -.016834 |
| #2 | .4826859 | 178.1105 | 9.210105 | 43.66461 | .2162279 | -.016928 |
| #3 | .4911109 | 178.7452 | 9.265281 | 43.59997 | .2170777 | -.016596 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.832657 | .1694203 | 4.819980 | 4.291135 | F 14.09896 | .2088401 |
| Stddev | .276445  | .0052234 | .022197  | .067918  | .05598     | .0036234 |
| %RSD   | 15.08440 | 3.083086 | .4605243 | 1.582749 | .3970384   | 1.735032 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.129890 | .1752329 | 4.803475 | 4.308368 | 14.15353 | .2104595 |
| #2 | 1.583236 | .1651198 | 4.845215 | 4.216261 | 14.04167 | .2046893 |
| #3 | 1.784845 | .1679082 | 4.811250 | 4.348777 | 14.10168 | .2113713 |

Sample Name: P4905-11      Acquired: 11/20/2024 18:27:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0055038 | 3.825366 | 11.27647 | .2557043 | 1.349912 | .0844867 |
| Stddev | .0002755 | .010956  | .04240   | .0024198 | .001035  | .0008919 |
| %RSD   | 5.005105 | .2864152 | .3759662 | .9463309 | .0766661 | 1.055604 |
| #1     | .0052501 | 3.837820 | 11.31150 | .2529117 | 1.351105 | .0834788 |
| #2     | .0054645 | 3.821066 | 11.22934 | .2570181 | 1.349359 | .0848075 |
| #3     | .0057969 | 3.817212 | 11.28857 | .2571829 | 1.349270 | .0851738 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .7087740 |
| Stddev | .0023339 |
| %RSD   | .3292891 |
| #1     | .7106553 |
| #2     | .7061622 |
| #3     | .7095046 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 983.7347 | 27312.58 | 5651.154 | 818.1616 | 1463.618 |
| Stddev    | 2.4389   | 15.24    | 25.416   | 2.7398   | 3.882    |
| %RSD      | .2479217 | .0557911 | .4497461 | .3348693 | .2652552 |
| #1        | 984.5462 | 27330.03 | 5630.749 | 820.2034 | 1461.630 |
| #2        | 985.6643 | 27305.81 | 5679.624 | 815.0480 | 1468.092 |
| #3        | 980.9935 | 27301.90 | 5643.089 | 819.2335 | 1461.133 |



Sample Name: P4905-12      Acquired: 11/20/2024 18:31:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0961358 | -.001648 | 4.657511 | -.000602 | .0089525 | 62.44218 |
| Stddev | .0061104 | .004169  | .015749  | .005499  | .0037408 | .02883   |
| %RSD   | 6.356027 | 253.0193 | .3381350 | 914.2361 | 41.78492 | .0461665 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0916604 | .002943  | 4.650754 | .005697  | .0116912 | 62.44600 |
| #2 | .0936496 | -.002689 | 4.675510 | -.003048 | .0104759 | 62.46891 |
| #3 | .1030974 | -.005197 | 4.646268 | -.004453 | .0046904 | 62.41163 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.564849 | .0033745 | .0158722 | 226.6608 | .1175280 | .0723006 |
| Stddev | .005083  | .0000729 | .0002170 | .5386    | .0003986 | .0003175 |
| %RSD   | .1981620 | 2.159239 | 1.367085 | .2376410 | .3391085 | .4391045 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.570706 | .0034415 | .0158091 | 226.9217 | .1179791 | .0726151 |
| #2 | 2.562243 | .0033850 | .0161138 | 226.0413 | .1173814 | .0719803 |
| #3 | 2.561598 | .0032969 | .0156938 | 227.0192 | .1172235 | .0723064 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4372303 | 155.0633 | 9.384412 | 29.14689 | .1521999 | -.013690 |
| Stddev | .0012261 | .0859    | .025257  | .04596   | .0017347 | .000315  |
| %RSD   | .2804327 | .0553667 | .2691351 | .1576683 | 1.139742 | 2.301754 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4362611 | 155.0340 | 9.411219 | 29.17083 | .1502160 | -.013969 |
| #2 | .4368211 | 154.9959 | 9.361061 | 29.09391 | .1529520 | -.013348 |
| #3 | .4386088 | 155.1599 | 9.380956 | 29.17594 | .1534315 | -.013752 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.673026 | .1550574 | 2.737576 | 4.643285 | F 14.25810 | .1955154 |
| Stddev | .234771  | .0039983 | .018959  | .051173  | .05255     | .0010887 |
| %RSD   | 14.03271 | 2.578596 | .6925363 | 1.102090 | .3685975   | .5568197 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.441363 | .1558711 | 2.741055 | 4.600811 | 14.20296 | .1967461 |
| #2 | 1.910786 | .1507148 | 2.754554 | 4.700098 | 14.26372 | .1951223 |
| #3 | 1.666929 | .1585862 | 2.717118 | 4.628946 | 14.30762 | .1946780 |

Sample Name: P4905-12      Acquired: 11/20/2024 18:31:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0036520 | 2.465284 | 9.594306 | .2386676 | 1.325740 | .0715461 |
| Stddev | .0004509 | .021957  | .031962  | .0007148 | .002315  | .0004526 |
| %RSD   | 12.34818 | .8906439 | .3331371 | .2995128 | .1746429 | .6325927 |
| #1     | .0034613 | 2.440012 | 9.603331 | .2386683 | 1.323080 | .0711930 |
| #2     | .0041669 | 2.476154 | 9.558802 | .2393821 | 1.326845 | .0713891 |
| #3     | .0033276 | 2.479685 | 9.620785 | .2379525 | 1.327297 | .0720563 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .7951472 |
| Stddev | .0014434 |
| %RSD   | .1815232 |
| #1     | .7966288 |
| #2     | .7950675 |
| #3     | .7937453 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 966.3954 | 26937.28 | 5537.775 | 805.3324 | 1474.921 |
| Stddev    | 1.9590   | 87.64    | 5.956    | 5.2359   | 2.749    |
| %RSD      | .2027139 | .3253486 | .1075548 | .6501520 | .1864122 |
| #1        | 966.3093 | 26999.08 | 5539.014 | 805.0209 | 1476.901 |
| #2        | 964.4809 | 26836.98 | 5543.014 | 800.2593 | 1471.782 |
| #3        | 968.3961 | 26975.78 | 5531.296 | 810.7171 | 1476.080 |

Sample Name: P4905-13      Acquired: 11/20/2024 18:36:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0994833 | .0004186 | 2.137736 | -.003503 | .0058975 | 87.22990 |
| Stddev | .0089144 | .0043661 | .004931  | .009135  | .0035973 | .30366   |
| %RSD   | 8.960731 | 1043.033 | .2306820 | 260.7840 | 60.99758 | .3481172 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1073998 | -.004368 | 2.132176 | -.003260 | .0018664 | 87.13468 |
| #2 | .1012227 | .004183  | 2.141583 | .005508  | .0070449 | 87.56976 |
| #3 | .0898274 | .001441  | 2.139447 | -.012756 | .0087811 | 86.98526 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.562130 | .0043893 | .0115227 | 127.4070 | .1180210 | .0991716 |
| Stddev | .005608  | .0001012 | .0001460 | .3738    | .0013986 | .0005057 |
| %RSD   | .3589980 | 2.306598 | 1.267048 | .2933676 | 1.185063 | .5099330 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.566424 | .0043733 | .0116342 | 127.7110 | .1164061 | .0987156 |
| #2 | 1.564180 | .0044975 | .0113575 | 127.5204 | .1188153 | .0997155 |
| #3 | 1.555785 | .0042969 | .0115766 | 126.9897 | .1188418 | .0990837 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3001991 | 185.8030 | 10.04475 | 24.22621 | .1457568 | -.021769 |
| Stddev | .0004279 | .6098    | .02393   | .17588   | .0007918 | .001099  |
| %RSD   | .1425338 | .3282117 | .2382408 | .7259718 | .5432279 | 5.049193 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2997327 | 185.4506 | 10.06852 | 24.11716 | .1453284 | -.022520 |
| #2 | .3002910 | 186.5072 | 10.04506 | 24.42910 | .1452714 | -.022279 |
| #3 | .3005735 | 185.4513 | 10.02066 | 24.13237 | .1466705 | -.020508 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.576611 | .2108974 | 1.199313 | 3.936324 | F 10.63731 | .1957274 |
| Stddev | .126520  | .0019452 | .004776  | .055804  | .02335     | .0004888 |
| %RSD   | 8.024836 | .9223695 | .3981949 | 1.417677 | .2194979   | .2497467 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.636730 | .2086570 | 1.193847 | 4.000452 | 10.61303 | .1956783 |
| #2 | 1.661863 | .2118788 | 1.202678 | 3.898797 | 10.63932 | .1962389 |
| #3 | 1.431240 | .2121565 | 1.201414 | 3.909724 | 10.65960 | .1952649 |

Sample Name: P4905-13      Acquired: 11/20/2024 18:36:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0042026 | 1.381553 | 7.468821 | .1420327 | 1.445340 | .0864228 |
| Stddev | .0002014 | .012031  | .037309  | .0040163 | .003222  | .0004443 |
| %RSD   | 4.792001 | .8708453 | .4995281 | 2.827753 | .2229008 | .5141576 |
| #1     | .0044220 | 1.391086 | 7.473396 | .1374579 | 1.444897 | .0867535 |
| #2     | .0040260 | 1.385540 | 7.503631 | .1449791 | 1.448760 | .0859177 |
| #3     | .0041599 | 1.368035 | 7.429435 | .1436611 | 1.442363 | .0865972 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .4726628 |
| Stddev | .0010035 |
| %RSD   | .2123056 |
| #1     | .4727557 |
| #2     | .4736166 |
| #3     | .4716161 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1038.557 | 28752.47 | 5844.561 | 863.4660 | 1518.136 |
| Stddev    | 2.949    | 200.54   | 15.038   | 2.0063   | 1.375    |
| %RSD      | .2839689 | .6974805 | .2572953 | .2323539 | .0905496 |
| #1        | 1037.514 | 28970.53 | 5847.169 | 865.7518 | 1518.959 |
| #2        | 1041.886 | 28710.90 | 5828.389 | 861.9968 | 1518.900 |
| #3        | 1036.271 | 28575.96 | 5858.124 | 862.6494 | 1516.549 |

Sample Name: P4905-14      Acquired: 11/20/2024 18:40:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1109291 | -.003891 | 1.989207 | -.005845 | .0069770 | 95.23737 |
| Stddev | .0036300 | .002760  | .010788  | .004619  | .0005335 | .11059   |
| %RSD   | 3.272369 | 70.93483 | .5423043 | 79.02253 | 7.646370 | .1161155 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1071380 | -.005827 | 1.994419 | -.007831 | .0070476 | 95.34006 |
| #2 | .1143731 | -.005117 | 1.976803 | -.000565 | .0064116 | 95.25176 |
| #3 | .1112761 | -.000731 | 1.996398 | -.009138 | .0074716 | 95.12030 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.545082 | .0051043 | .0149730 | 108.5534 | .1592906 | .1309302 |
| Stddev | .004389  | .0000402 | .0000068 | .2109    | .0013194 | .0004243 |
| %RSD   | .2840392 | .7882681 | .0454769 | .1943203 | .8282948 | .3240874 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.549581 | .0050590 | .0149662 | 108.7961 | .1577671 | .1306217 |
| #2 | 1.540813 | .0051181 | .0149730 | 108.4501 | .1600570 | .1307548 |
| #3 | 1.544851 | .0051359 | .0149798 | 108.4140 | .1600477 | .1314141 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3065157 | 212.2288 | 13.08919 | 24.81319 | .1978597 | -.028128 |
| Stddev | .0022498 | .3233    | .02615   | .06999   | .0003845 | .000180  |
| %RSD   | .7339777 | .1523121 | .1997838 | .2820580 | .1943444 | .6404002 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3046327 | 212.1292 | 13.11933 | 24.83395 | .1979588 | -.028185 |
| #2 | .3059073 | 212.5901 | 13.07567 | 24.87046 | .1974354 | -.027927 |
| #3 | .3090071 | 211.9671 | 13.07256 | 24.73518 | .1981850 | -.028273 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.819652 | .2165083 | 1.252647 | 4.662230 | F 10.40013 | .2180123 |
| Stddev | .110221  | .0050634 | .005274  | .060733  | .00816     | .0023389 |
| %RSD   | 6.057245 | 2.338687 | .4210356 | 1.302650 | .0784814   | 1.072850 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.740914 | .2114171 | 1.251940 | 4.618317 | 10.40955 | .2155256 |
| #2 | 1.945617 | .2215435 | 1.258238 | 4.731538 | 10.39537 | .2201683 |
| #3 | 1.772425 | .2165642 | 1.247762 | 4.636835 | 10.39546 | .2183432 |

Sample Name: P4905-14      Acquired: 11/20/2024 18:40:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHC9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0060764 | 1.503705 | 9.182645 | .1086278 | 1.627588 | .1218701 |
| Stddev | .0003414 | .004212  | .022488  | .0025040 | .004801  | .0004092 |
| %RSD   | 5.618715 | .2801341 | .2448955 | 2.305147 | .2950007 | .3357606 |
| #1     | .0063768 | 1.499482 | 9.167488 | .1060349 | 1.632009 | .1215414 |
| #2     | .0057051 | 1.507906 | 9.208483 | .1110323 | 1.622480 | .1217404 |
| #3     | .0061472 | 1.503728 | 9.171964 | .1088162 | 1.628276 | .1223284 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3386272 |
| Stddev | .0005103 |
| %RSD   | .1506975 |
| #1     | .3392153 |
| #2     | .3383663 |
| #3     | .3383001 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1116.627 | 30841.06 | 6326.297 | 924.2346 | 1504.380 |
| Stddev    | 2.762    | 54.45    | 10.079   | 3.2918   | 5.442    |
| %RSD      | .2473548 | .1765567 | .1593248 | .3561702 | .3617145 |
| #1        | 1113.474 | 30779.68 | 6319.556 | 921.2223 | 1498.416 |
| #2        | 1117.787 | 30883.55 | 6321.450 | 923.7330 | 1505.651 |
| #3        | 1118.619 | 30859.96 | 6337.884 | 927.7484 | 1509.074 |

Sample Name: P4905-15      Acquired: 11/20/2024 18:45:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0683359 | -.002979 | 1.834018 | .0005614 | .0049140 | 62.89948 |
| Stddev | .0080706 | .001881  | .011881  | .0049137 | .0030425 | .15666   |
| %RSD   | 11.81014 | 63.15364 | .6478229 | 875.2756 | 61.91509 | .2490621 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0773974 | -.004530 | 1.832516 | .0016052 | .0083222 | 63.06635 |
| #2 | .0619207 | -.000886 | 1.822959 | -.004790 | .0024718 | 62.75557 |
| #3 | .0656896 | -.003519 | 1.846578 | .004869  | .0039479 | 62.87649 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.389529 | .0041054 | .0105964 | 44.52319 | .1046781 | .0795605 |
| Stddev | .000894  | .0001096 | .0000311 | .02531   | .0000764 | .0013012 |
| %RSD   | .0643540 | 2.668375 | .2938628 | .0568422 | .0729493 | 1.635417 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.390539 | .0041918 | .0105766 | 44.53701 | .1045931 | .0801944 |
| #2 | 1.389209 | .0041423 | .0106323 | 44.49399 | .1047410 | .0780639 |
| #3 | 1.388839 | .0039822 | .0105803 | 44.53858 | .1047002 | .0804232 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2972457 | 156.9825 | 9.907049 | 16.90583 | .1538922 | -.023978 |
| Stddev | .0012490 | .6454    | .003927  | .10937   | .0009528 | .000271  |
| %RSD   | .4201811 | .4111424 | .0396375 | .6469563 | .6191502 | 1.128855 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2986776 | 157.6323 | 9.907822 | 17.03167 | .1549896 | -.023893 |
| #2 | .2966783 | 156.3416 | 9.910531 | 16.83363 | .1534118 | -.023761 |
| #3 | .2963811 | 156.9736 | 9.902793 | 16.85220 | .1532753 | -.024281 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.519674 | .1849309 | 1.463509 | 6.832838 | F 12.34714 | .1625393 |
| Stddev | .175337  | .0063002 | .003572  | .188898  | .04348     | .0017467 |
| %RSD   | 11.53781 | 3.406789 | .2440985 | 2.764567 | .3521763   | 1.074656 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.317525 | .1880847 | 1.459764 | 6.907986 | 12.36808 | .1617237 |
| #2 | 1.630498 | .1776766 | 1.463884 | 6.617930 | 12.29715 | .1645447 |
| #3 | 1.610998 | .1890313 | 1.466880 | 6.972597 | 12.37620 | .1613495 |

Sample Name: P4905-15      Acquired: 11/20/2024 18:45:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0038602 | 2.964754 | 13.02967 | .0751662 | 1.062904 | .0694450 |
| Stddev | .0001946 | .007625  | .04440   | .0006650 | .004741  | .0004473 |
| %RSD   | 5.041902 | .2571887 | .3407626 | .8847192 | .4460757 | .6440836 |
| #1     | .0038086 | 2.956288 | 13.07580 | .0759323 | 1.068378 | .0695314 |
| #2     | .0036966 | 2.966891 | 12.98722 | .0747379 | 1.060117 | .0689608 |
| #3     | .0040754 | 2.971082 | 13.02598 | .0748285 | 1.060216 | .0698427 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .1760966 |
| Stddev | .0002169 |
| %RSD   | .1231866 |
| #1     | .1763355 |
| #2     | .1760423 |
| #3     | .1759120 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1060.831 | 29478.75 | 5937.606 | 886.5129 | 1568.655 |
| Stddev    | 3.668    | 40.40    | 15.649   | 1.7422   | 3.880    |
| %RSD      | .3457784 | .1370561 | .2635621 | .1965270 | .2473727 |
| #1        | 1057.614 | 29522.63 | 5919.873 | 888.3920 | 1566.009 |
| #2        | 1064.826 | 29443.08 | 5949.483 | 886.1955 | 1573.109 |
| #3        | 1060.055 | 29470.55 | 5943.462 | 884.9511 | 1566.845 |



Sample Name: P4905-16      Acquired: 11/20/2024 18:49:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1193678 | -.002455 | 2.843291 | .0013057 | .0027119 | 68.30389 |
| Stddev | .0078981 | .004517  | .004124  | .0091388 | .0019917 | .19710   |
| %RSD   | 6.616588 | 184.0264 | .1450521 | 699.9076 | 73.44306 | .2885613 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1102508 | -.002583 | 2.838694 | .0000620 | .0039996 | 68.07954 |
| #2 | .1241256 | .002125  | 2.846667 | -.007148 | .0037181 | 68.44919 |
| #3 | .1237271 | -.006906 | 2.844511 | .011003  | .0004178 | 68.38295 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.885053 | .0048347 | .0150884 | 79.92336 | .1247855 | .0943166 |
| Stddev | .000515  | .0002357 | .0001079 | .01881   | .0004881 | .0004352 |
| %RSD   | .0273129 | 4.874532 | .7148110 | .0235393 | .3911375 | .4614380 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.884520 | .0045809 | .0149749 | 79.91035 | .1242250 | .0945913 |
| #2 | 1.885548 | .0048765 | .0151008 | 79.94493 | .1251167 | .0938148 |
| #3 | 1.885091 | .0050466 | .0151895 | 79.91481 | .1250148 | .0945437 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4473561 | 196.8902 | 11.39048 | 21.73102 | .1982763 | -.025252 |
| Stddev | .0020955 | .3512    | .01645   | .07284   | .0007711 | .000102  |
| %RSD   | .4684287 | .1783561 | .1444313 | .3351664 | .3889011 | .4027761 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4456194 | 196.5710 | 11.37169 | 21.65042 | .1990108 | -.025305 |
| #2 | .4496837 | 196.8333 | 11.40230 | 21.75054 | .1974732 | -.025135 |
| #3 | .4467653 | 197.2664 | 11.39745 | 21.79211 | .1983449 | -.025316 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.523174 | .2089893 | 2.128887 | 6.738945 | F 13.67637 | .1981245 |
| Stddev | .259893  | .0043953 | .002221  | .086559  | .01597     | .0012512 |
| %RSD   | 17.06260 | 2.103106 | .1043213 | 1.284460 | .1167676   | .6315382 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.647964 | .2089921 | 2.130101 | 6.792983 | 13.67273 | .1995527 |
| #2 | 1.697137 | .2045926 | 2.126324 | 6.784742 | 13.66254 | .1972209 |
| #3 | 1.224421 | .2133832 | 2.130237 | 6.639108 | 13.69385 | .1976000 |

Sample Name: P4905-16      Acquired: 11/20/2024 18:49:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0049936 | 2.575851 | 10.83797 | .1438509 | 1.022279 | .0800096 |
| Stddev | .0007690 | .016427  | .01783   | .0014020 | .003548  | .0008961 |
| %RSD   | 15.39988 | .6377318 | .1644792 | .9746294 | .3470343 | 1.120033 |
| #1     | .0054422 | 2.557428 | 10.85581 | .1425656 | 1.018258 | .0789785 |
| #2     | .0054330 | 2.588972 | 10.82015 | .1453460 | 1.023610 | .0806001 |
| #3     | .0041056 | 2.581153 | 10.83796 | .1436411 | 1.024968 | .0804503 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2308980 |
| Stddev | .0005353 |
| %RSD   | .2318456 |
| #1     | .2302807 |
| #2     | .2312345 |
| #3     | .2311788 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1070.907 | 29533.67 | 6036.059 | 885.0724 | 1538.171 |
| Stddev    | 2.747    | 17.96    | 12.828   | 2.0611   | .941     |
| %RSD      | .2565280 | .0608122 | .2125227 | .2328752 | .0611466 |
| #1        | 1072.990 | 29513.75 | 6034.879 | 884.6250 | 1537.115 |
| #2        | 1067.793 | 29548.61 | 6049.436 | 887.3204 | 1538.481 |
| #3        | 1071.937 | 29538.67 | 6023.862 | 883.2717 | 1538.918 |

Sample Name: P4905-17      Acquired: 11/20/2024 18:53:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1748539 | -.004901 | 5.508834 | -.004440 | .0070213 | 73.96042 |
| Stddev | .0069187 | .007251  | .018329  | .007135  | .0020833 | .18770   |
| %RSD   | 3.956865 | 147.9559 | .3327214 | 160.7037 | 29.67095 | .2537870 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1725737 | .002195  | 5.515036 | -.007445 | .0055509 | 74.07993 |
| #2 | .1693631 | -.012298 | 5.488209 | -.009581 | .0094053 | 74.05725 |
| #3 | .1826250 | -.004599 | 5.523258 | .003706  | .0061076 | 73.74407 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.591933 | .0053873 | .0192747 | 155.4040 | .1330416 | .1091902 |
| Stddev | .007046  | .0001313 | .0002030 | .1942    | .0018100 | .0009178 |
| %RSD   | .2718251 | 2.437809 | 1.053085 | .1249626 | 1.360475 | .8405532 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.599393 | .0053963 | .0190462 | 155.6265 | .1316904 | .1099745 |
| #2 | 2.585393 | .0052517 | .0193442 | 155.3170 | .1350980 | .1094152 |
| #3 | 2.591012 | .0055139 | .0194339 | 155.2685 | .1323363 | .1081808 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6147504 | 199.9020 | 14.95434 | 38.73452 | .2115109 | -.023809 |
| Stddev | .0011948 | .5766    | .04582   | .10759   | .0008851 | .000425  |
| %RSD   | .1943472 | .2884387 | .3064083 | .2777666 | .4184739 | 1.786956 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6152974 | 200.1794 | 15.00620 | 38.66917 | .2125211 | -.023842 |
| #2 | .6155737 | 200.2875 | 14.93748 | 38.85869 | .2111399 | -.023368 |
| #3 | .6133800 | 199.2392 | 14.91934 | 38.67569 | .2108715 | -.024217 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.900094 | .2282260 | 3.400600 | 8.110798 | F 16.89604 | .2078411 |
| Stddev | .053519  | .0052056 | .047800  | .039034  | .03040     | .0030849 |
| %RSD   | 2.816634 | 2.280894 | 1.405631 | .4812542 | .1799481   | 1.484277 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.903264 | .2224716 | 3.394664 | 8.153735 | 16.92164 | .2051204 |
| #2 | 1.951958 | .2295986 | 3.451090 | 8.101202 | 16.86243 | .2111927 |
| #3 | 1.845061 | .2326077 | 3.356045 | 8.077458 | 16.90405 | .2072102 |

Sample Name: P4905-17      Acquired: 11/20/2024 18:53:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0061930 | 3.692582 | 11.38506 | .2418577 | 1.074128 | .0938049 |
| Stddev | .0003160 | .016392  | .06948   | .0028833 | .005558  | .0004032 |
| %RSD   | 5.102937 | .4439149 | .6103158 | 1.192138 | .5174510 | .4298377 |
| #1     | .0059081 | 3.706188 | 11.33898 | .2451419 | 1.076814 | .0939905 |
| #2     | .0061381 | 3.674384 | 11.46498 | .2406890 | 1.077832 | .0933424 |
| #3     | .0065329 | 3.697175 | 11.35121 | .2397423 | 1.067737 | .0940819 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3728923 |
| Stddev | .0013123 |
| %RSD   | .3519266 |
| #1     | .3737825 |
| #2     | .3735092 |
| #3     | .3713852 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1072.615 | 29664.39 | 6146.357 | 885.2516 | 1478.198 |
| Stddev    | 2.407    | 149.29   | 16.452   | 11.0392  | 5.589    |
| %RSD      | .2243978 | .5032490 | .2676699 | 1.247018 | .3781005 |
| #1        | 1069.912 | 29674.16 | 6146.434 | 883.9428 | 1472.388 |
| #2        | 1073.408 | 29510.47 | 6129.867 | 874.9251 | 1483.536 |
| #3        | 1074.526 | 29808.56 | 6162.770 | 896.8869 | 1478.669 |

Sample Name: P4905-18      Acquired: 11/20/2024 18:58:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1456356 | .0025231 | 3.433553 | .0025574 | .0056996 | 67.27933 |
| Stddev | .0121649 | .0044112 | .013584  | .0084201 | .0014259 | .17576   |
| %RSD   | 8.352941 | 174.8344 | .3956387 | 329.2477 | 25.01808 | .2612341 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1338437 | .0076148 | 3.434414 | .0066747 | .0063069 | 67.23764 |
| #2 | .1581419 | -.000147 | 3.419558 | .0081265 | .0067213 | 67.12816 |
| #3 | .1449211 | .000101  | 3.446686 | -.007129 | .0040705 | 67.47218 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.168101 | .0048844 | .0158558 | 95.85615 | .1144236 | .0999496 |
| Stddev | .007342  | .0000604 | .0001035 | .28056   | .0006960 | .0002868 |
| %RSD   | .3386451 | 1.236705 | .6530264 | .2926873 | .6082456 | .2869275 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.175879 | .0048671 | .0158318 | 96.13235 | .1136296 | .0996546 |
| #2 | 2.167132 | .0049516 | .0157664 | 95.86467 | .1149281 | .0999668 |
| #3 | 2.161291 | .0048346 | .0159693 | 95.57143 | .1147132 | .1002274 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5993086 | 186.4027 | 15.05829 | 20.15364 | .1675990 | -.023862 |
| Stddev | .0043002 | .4887    | .07172   | .10785   | .0008012 | .000339  |
| %RSD   | .7175327 | .2621896 | .4762862 | .5351158 | .4780687 | 1.420809 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6034979 | 186.1398 | 15.13604 | 20.03446 | .1667392 | -.024054 |
| #2 | .5949054 | 186.1016 | 15.04412 | 20.18199 | .1677331 | -.023471 |
| #3 | .5995223 | 186.9666 | 14.99471 | 20.24448 | .1683247 | -.024062 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.617930 | .2040830 | 2.387887 | 7.240444 | F 16.48748 | .1952011 |
| Stddev | .169390  | .0017196 | .007431  | .100189  | .04388     | .0002217 |
| %RSD   | 10.46953 | .8425752 | .3111812 | 1.383741 | .2661194   | .1135682 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.713175 | .2043117 | 2.389424 | 7.290811 | 16.45268 | .1953741 |
| #2 | 1.422358 | .2022606 | 2.379808 | 7.125065 | 16.47299 | .1949512 |
| #3 | 1.718258 | .2056769 | 2.394429 | 7.305455 | 16.53677 | .1952779 |

Sample Name: P4905-18      Acquired: 11/20/2024 18:58:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0069836 | 2.719405 | 10.43048 | .2567927 | .9782120 | .0828546 |
| Stddev | .0002196 | .027509  | .02184   | .0005699 | .0059542 | .0007470 |
| %RSD   | 3.144985 | 1.011596 | .2093759 | .2219158 | .6086816 | .9016074 |
| #1     | .0069306 | 2.695217 | 10.45480 | .2564714 | .9742479 | .0835688 |
| #2     | .0072249 | 2.713667 | 10.41253 | .2564561 | .9753292 | .0829165 |
| #3     | .0067953 | 2.749331 | 10.42412 | .2574507 | .9850589 | .0820786 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3430131 |
| Stddev | .0005987 |
| %RSD   | .1745318 |
| #1     | .3437024 |
| #2     | .3426225 |
| #3     | .3427145 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1079.494 | 29787.43 | 6049.892 | 891.1705 | 1533.716 |
| Stddev    | 2.194    | 92.29    | 4.475    | 2.2521   | 4.664    |
| %RSD      | .2032189 | .3098343 | .0739666 | .2527093 | .3040793 |
| #1        | 1077.880 | 29832.67 | 6049.256 | 893.0855 | 1535.143 |
| #2        | 1081.991 | 29681.25 | 6045.769 | 891.7366 | 1537.499 |
| #3        | 1078.610 | 29848.38 | 6054.650 | 888.6894 | 1528.506 |

Sample Name: P4905-19      Acquired: 11/20/2024 19:02:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1969009 | .0011818 | 2.410875 | -.004168 | .0054791 | 76.56449 |
| Stddev | .0014554 | .0030568 | .002572  | .001749  | .0013260 | .06051   |
| %RSD   | .7391606 | 258.6477 | .1066774 | 41.97466 | 24.20075 | .0790368 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1979191 | -.000647 | 2.412428 | -.006066 | .0039809 | 76.62923 |
| #2 | .1952339 | .004711  | 2.407906 | -.002620 | .0059549 | 76.50935 |
| #3 | .1975497 | -.000519 | 2.412290 | -.003818 | .0065015 | 76.55490 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.869937 | .0051808 | .0179408 | 95.60374 | .1045674 | .1372258 |
| Stddev | .004529  | .0000853 | .0001965 | .22000   | .0013902 | .0009559 |
| %RSD   | .2421835 | 1.646419 | 1.095404 | .2301208 | 1.329494 | .6966207 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.875083 | .0052731 | .0179137 | 95.85776 | .1030082 | .1382762 |
| #2 | 1.868168 | .0051049 | .0177592 | 95.47480 | .1056778 | .1364068 |
| #3 | 1.866559 | .0051644 | .0181494 | 95.47864 | .1050163 | .1369944 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3866690 | 213.4005 | 23.46314 | 17.69748 | .1845434 | -.031691 |
| Stddev | .0008519 | .1642    | .05075   | .07610   | .0011009 | .000058  |
| %RSD   | .2203282 | .0769514 | .2162974 | .4299991 | .5965355 | .1840192 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3876195 | 213.3671 | 23.50563 | 17.61257 | .1846578 | -.031747 |
| #2 | .3859741 | 213.2555 | 23.40695 | 17.72032 | .1833898 | -.031694 |
| #3 | .3864133 | 213.5788 | 23.47686 | 17.75954 | .1855826 | -.031631 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.371897 | .2095768 | 1.364190 | 7.213397 | F 22.53997 | .2169511 |
| Stddev | .276332  | .0040916 | .010375  | .118739  | .05413     | .0022057 |
| %RSD   | 20.14236 | 1.952326 | .7604930 | 1.646083 | .2401488   | 1.016683 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.179611 | .2048639 | 1.375850 | 7.117059 | 22.54994 | .2194114 |
| #2 | 1.688560 | .2122210 | 1.355977 | 7.177079 | 22.48155 | .2162913 |
| #3 | 1.247520 | .2116455 | 1.360745 | 7.346053 | 22.58843 | .2151506 |

Sample Name: P4905-19      Acquired: 11/20/2024 19:02:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0112130 | 2.808918 | 8.689145 | .1858973 | .9802976 | .0906428 |
| Stddev | .0004751 | .027748  | .009303  | .0010700 | .0012872 | .0004521 |
| %RSD   | 4.236688 | .9878570 | .1070669 | .5756064 | .1313086 | .4987470 |
| #1     | .0108452 | 2.778443 | 8.691210 | .1868942 | .9792941 | .0908565 |
| #2     | .0110444 | 2.815590 | 8.678983 | .1860310 | .9798497 | .0909483 |
| #3     | .0117493 | 2.832723 | 8.697243 | .1847667 | .9817489 | .0901234 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3063808 |
| Stddev | .0001901 |
| %RSD   | .0620319 |
| #1     | .3064862 |
| #2     | .3061614 |
| #3     | .3064948 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1212.924 | 33563.85 | 6846.934 | 1009.791 | 1511.388 |
| Stddev    | 2.623    | 67.99    | 11.670   | 6.069    | 2.004    |
| %RSD      | .2162231 | .2025665 | .1704381 | .6010220 | .1325869 |
| #1        | 1211.535 | 33581.30 | 6833.479 | 1002.867 | 1509.407 |
| #2        | 1215.949 | 33488.83 | 6854.291 | 1012.311 | 1513.414 |
| #3        | 1211.288 | 33621.41 | 6853.033 | 1014.194 | 1511.343 |



Sample Name: P4905-20      Acquired: 11/20/2024 19:07:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1882459 | -.002099 | 3.727059 | -.003004 | .0104755 | 78.98082 |
| Stddev | .0138979 | .002832  | .008027  | .002378  | .0039575 | .20406   |
| %RSD   | 7.382820 | 134.9057 | .2153712 | 79.14916 | 37.77831 | .2583724 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1722391 | -.004904 | 3.719561 | -.002995 | .0130230 | 78.76512 |
| #2 | .1972428 | .000760  | 3.726088 | -.000631 | .0124871 | 79.00654 |
| #3 | .1952557 | -.002154 | 3.735527 | -.005387 | .0059163 | 79.17081 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.602219 | .0056869 | .0212607 | 156.3374 | .1450346 | .1287917 |
| Stddev | .007296  | .0000665 | .0000454 | .3196    | .0009132 | .0007230 |
| %RSD   | .2803583 | 1.169253 | .2135692 | .2044270 | .6296666 | .5613567 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.596646 | .0056609 | .0212869 | 156.0182 | .1458688 | .1280877 |
| #2 | 2.610476 | .0056373 | .0212083 | 156.6574 | .1440589 | .1287553 |
| #3 | 2.599534 | .0057625 | .0212869 | 156.3366 | .1451761 | .1295322 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5508050 | 219.2771 | 17.97468 | 28.08929 | .2291015 | -.027597 |
| Stddev | .0031788 | .8310    | .04947   | .15384   | .0025379 | .000190  |
| %RSD   | .5771151 | .3789896 | .2752378 | .5476654 | 1.107753 | .6873141 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5490284 | 218.4793 | 17.94328 | 27.93802 | .2267577 | -.027415 |
| #2 | .5544749 | 219.2140 | 18.03171 | 28.08427 | .2287501 | -.027581 |
| #3 | .5489117 | 220.1378 | 17.94905 | 28.24557 | .2317968 | -.027794 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.873235 | .2353783 | 2.753285 | 8.154021 | F 20.27568 | .2288457 |
| Stddev | .129666  | .0052527 | .015072  | .072763  | .07100     | .0008041 |
| %RSD   | 6.922056 | 2.231612 | .5474267 | .8923542 | .3501818   | .3513787 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.997346 | .2340852 | 2.736764 | 8.229927 | 20.20384 | .2292498 |
| #2 | 1.738648 | .2308928 | 2.766285 | 8.147262 | 20.27741 | .2279197 |
| #3 | 1.883711 | .2411568 | 2.756806 | 8.084873 | 20.34581 | .2293676 |

Sample Name: P4905-20      Acquired: 11/20/2024 19:07:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHD5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0085586 | 3.376905 | 11.36005 | .2573593 | 1.081203 | .0953738 |
| Stddev | .0003194 | .022230  | .01806   | .0009463 | .005985  | .0009459 |
| %RSD   | 3.731443 | .6582868 | .1589474 | .3676999 | .5535404 | .9918205 |
| #1     | .0082358 | 3.356508 | 11.34024 | .2583294 | 1.074314 | .0942832 |
| #2     | .0088744 | 3.373607 | 11.36435 | .2573097 | 1.084173 | .0958668 |
| #3     | .0085656 | 3.400599 | 11.37557 | .2564387 | 1.085121 | .0959713 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .3881639 |
| Stddev | .0009922 |
| %RSD   | .2556091 |
| #1     | .3870273 |
| #2     | .3888571 |
| #3     | .3886073 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1118.446 | 31097.58 | 6411.552 | 932.9121 | 1475.419 |
| Stddev    | .350     | 19.04    | 8.107    | 3.4010   | 2.450    |
| %RSD      | .0312987 | .0612284 | .1264371 | .3645606 | .1660259 |
| #1        | 1118.451 | 31084.65 | 6420.351 | 936.0790 | 1477.921 |
| #2        | 1118.794 | 31119.45 | 6409.920 | 929.3174 | 1475.311 |
| #3        | 1118.094 | 31088.65 | 6404.386 | 933.3400 | 1473.025 |

Sample Name: PB165101BL      Acquired: 11/20/2024 19:11:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS101      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002872 | -.001093 | .0014221 | .0053174 | -.002251 | .0117270 | -.002629 |
| Stddev | .004459  | .000944  | .0027757 | .0044493 | .001120  | .0122965 | .000173  |
| %RSD   | 155.2438 | 86.32512 | 195.1893 | 83.67583 | 49.74660 | 104.8569 | 6.562250 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.007422 | -.000559 | .0023522 | .0004377 | -.000972 | .0019103 | -.002828 |
| #2 | -.002685 | -.000538 | .0036132 | .0091495 | -.003055 | .0077510 | -.002522 |
| #3 | .001490  | -.002183 | -.001699 | .0063648 | -.002727 | .0255196 | -.002538 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000061 | -.000003 | .0032770 | .0006117 | -.000030 | .0008631 | .0248010 |
| Stddev | .000063  | .000030  | .0051717 | .0006746 | .000227  | .0011856 | .0046820 |
| %RSD   | 103.8136 | 990.2605 | 157.8158 | 110.2763 | 766.5037 | 137.3677 | 18.87826 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000011 | -.000031 | .0052732 | .0012773 | -.000197 | -.000152 | .0301953 |
| #2 | -.000132 | .000028  | -.002595 | .0006294 | .000229  | .000576  | .0224147 |
| #3 | -.000040 | -.000007 | .007153  | -.000072 | -.000121 | .002166  | .0217929 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0014157 | .0157784 | -.000048 | -.006826 | -.124869 | .0017940 | -.000946 |
| Stddev | .0001651 | .0305695 | .000428  | .000291  | .186094  | .0091690 | .000316  |
| %RSD   | 11.66365 | 193.7425 | 896.3944 | 4.259911 | 149.0313 | 511.0943 | 33.42991 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0015821 | -.015247 | -.000350 | -.007114 | .070099  | -.006492 | -.001050 |
| #2 | .0012519 | .016711  | -.000236 | -.006533 | -.300594 | .000230  | -.001196 |
| #3 | .0014131 | .045871  | .000442  | -.006830 | -.144113 | .011645  | -.000591 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.701205 | .0014448 | -.006053 | -.000128 | -.000950 | .0029961 | -.001154 |
| Stddev | .018403  | .0032998 | .001032  | .000522  | .002430  | .0006366 | .000079  |
| %RSD   | 2.624501 | 228.3957 | 17.05001 | 406.5589 | 255.6663 | 21.24719 | 6.816764 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.685142 | -.002267 | -.005698 | -.000458 | -.003363 | .0036891 | -.001128 |
| #2 | -.697187 | .002555  | -.005245 | -.000400 | -.000984 | .0024372 | -.001243 |
| #3 | -.721285 | .004046  | -.007216 | .000473  | .001496  | .0028621 | -.001092 |

Sample Name: PB165101BL      Acquired: 11/20/2024 19:11:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS101      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0006516 | -.010770 | -.000130 |
| Stddev | .0003388 | .001155  | .000008  |
| %RSD   | 51.99729 | 10.72392 | 6.388808 |
| #1     | .0004815 | -.011677 | -.000127 |
| #2     | .0010417 | -.009470 | -.000124 |
| #3     | .0004315 | -.011163 | -.000140 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 922.7389 | 25370.08 | 4977.801 | 768.9838 | 1759.592 |
| Stddev    | .7472    | 43.08    | 18.756   | 4.5275   | .185     |
| %RSD      | .0809717 | .1698250 | .3767895 | .5887617 | .0105251 |
| #1        | 923.6016 | 25405.78 | 4956.982 | 769.7434 | 1759.665 |
| #2        | 922.3084 | 25322.22 | 4983.043 | 764.1246 | 1759.729 |
| #3        | 922.3065 | 25382.24 | 4993.379 | 773.0834 | 1759.381 |

Sample Name: PB165101BS      Acquired: 11/20/2024 19:15:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS101      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0163382 | .0536811 | .0239773 | .0652396 | .1111937 | .4152506 |
| Stddev | .0004519 | .0008748 | .0042966 | .0045991 | .0030658 | .0039939 |
| %RSD   | 2.765961 | 1.629697 | 17.91932 | 7.049540 | 2.757202 | .9617967 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0167564 | .0545800 | .0273145 | .0616509 | .1136114 | .4188020 |
| #2 | .0158588 | .0528324 | .0254880 | .0636439 | .1077453 | .4109271 |
| #3 | .0163995 | .0536310 | .0191294 | .0704240 | .1122242 | .4160228 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4328781 | .0108575 | .0106238 | 11.01732 | .0230116 | .1032672 |
| Stddev | .0007909 | .0000771 | .0001668 | .01500   | .0004014 | .0001764 |
| %RSD   | .1827059 | .7101558 | 1.569661 | .1361492 | 1.744191 | .1708407 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4326091 | .0108319 | .0107552 | 11.03421 | .0230212 | .1031066 |
| #2 | .4322568 | .0107965 | .0106801 | 11.01222 | .0226055 | .1032390 |
| #3 | .4337684 | .0109442 | .0104362 | 11.00554 | .0234080 | .1034561 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0500146 | .2299836 | .0351539 | 10.52019 | .0885558 | .0159817 |
| Stddev | .0015122 | .0020596 | .0005943 | .02427   | .0006045 | .0003811 |
| %RSD   | 3.023588 | .8955428 | 1.690642 | .2306976 | .6826239 | 2.384473 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0504541 | .2278415 | .0345459 | 10.53995 | .0883407 | .0160839 |
| #2 | .0512585 | .2301598 | .0351824 | 10.49310 | .0880882 | .0163013 |
| #3 | .0483314 | .2319494 | .0357335 | 10.52752 | .0892384 | .0155600 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.83233 | .1123964 | .1292995 | 9.630563 | .0203714 | F -.004832 |
| Stddev | .18055   | .0054520 | .0003650 | .173071  | .0023937 | .001194    |
| %RSD   | 1.666777 | 4.850651 | .2822613 | 1.797099 | 11.75009 | 24.70424   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.82354 | .1159264 | .1296998 | 9.668941 | .0222158 | -.003468 |
| #2 | 11.01712 | .1061172 | .1292134 | 9.441524 | .0176665 | -.005689 |
| #3 | 10.65634 | .1151457 | .1289852 | 9.781223 | .0212321 | -.005337 |

Sample Name: PB165101BS      Acquired: 11/20/2024 19:15:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS101      Custom ID2:      Custom ID3:  
Comment:

|        |            |          |            |          |          |            |
|--------|------------|----------|------------|----------|----------|------------|
| Elem   | Mo2020     | S_1820   | Si2516     | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm        | ppm      | ppm        | ppm      | ppm      | ppm        |
| Avg    | F .0204193 | .1897256 | F .4710202 | .0115936 | .2115433 | F .0198961 |
| Stddev | .0000665   | .0015741 | .0022739   | .0015857 | .0003177 | .0008420   |
| %RSD   | .3257401   | .8296848 | .4827524   | 13.67741 | .1501812 | 4.231953   |
| #1     | .0203599   | .1915325 | .4690086   | .0118469 | .2118941 | .0208556   |
| #2     | .0204912   | .1886511 | .4705648   | .0098965 | .2114609 | .0192803   |
| #3     | .0204068   | .1889932 | .4734873   | .0130374 | .2112750 | .0195523   |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2193261 |
| Stddev | .0001606 |
| %RSD   | .0732194 |
| #1     | .2194252 |
| #2     | .2191408 |
| #3     | .2194123 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 917.2928 | 24997.31 | 4961.591 | 760.2507 | 1689.475 |
| Stddev    | .7256    | 92.09    | 17.144   | 3.4894   | 3.154    |
| %RSD      | .0791003 | .3683946 | .3455396 | .4589756 | .1866640 |
| #1        | 916.9258 | 24933.19 | 4963.115 | 758.9143 | 1687.813 |
| #2        | 918.1285 | 24955.92 | 4977.922 | 757.6271 | 1693.112 |
| #3        | 916.8240 | 25102.84 | 4943.736 | 764.2108 | 1687.499 |

Sample Name: P4728-19DLX2      Acquired: 11/20/2024 19:20:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBH9F6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0479122 | -.004678 | .0889968 | -.003198 | .0033211 | 16.19897 | .1304381 |
| Stddev | .0114325 | .001854  | .0053468 | .003131  | .0033545 | .06949   | .0007251 |
| %RSD   | 23.86130 | 39.62789 | 6.007807 | 97.89015 | 101.0050 | .4289771 | .5559159 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0549311 | -.002938 | .0832737 | -.006808 | .0023447 | 16.18071 | .1302621 |
| #2 | .0347201 | -.006627 | .0898529 | -.001217 | .0005632 | 16.27576 | .1312350 |
| #3 | .0540853 | -.004468 | .0938638 | -.001571 | .0070555 | 16.14043 | .1298171 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0018242 | .0023803 | 665.8389 | .0251775 | .0264813 | .0702379 | 69.98740 |
| Stddev | .0001337 | .0000977 | 2.7746   | .0023502 | .0003334 | .0006035 | .48854   |
| %RSD   | 7.331717 | 4.102275 | .4167130 | 9.334338 | 1.259061 | .8592532 | .6980397 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0017228 | .0024127 | 664.1384 | .0257899 | .0262979 | .0703343 | 69.96204 |
| #2 | .0017740 | .0022706 | 664.3375 | .0225818 | .0262799 | .0695919 | 70.48813 |
| #3 | .0019757 | .0024577 | 669.0407 | .0271608 | .0268662 | .0707874 | 69.51204 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.542047 | 34.66605 | .0769366 | .0002862 | 1.303455 | .0355125 | .3817800 |
| Stddev | .008220  | .40757   | .0003913 | .0002592 | .272597  | .0030876 | .0007031 |
| %RSD   | .3233491 | 1.175699 | .5085517 | 90.56822 | 20.91346 | 8.694522 | .1841734 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.540792 | 34.57881 | .0765221 | .0003381 | 1.617944 | .0327779 | .3812461 |
| #2 | 2.550822 | 35.11018 | .0769880 | .0005155 | 1.157690 | .0388610 | .3825767 |
| #3 | 2.534527 | 34.30917 | .0772996 | .0000050 | 1.134730 | .0348985 | .3815173 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 7.278271 | 1.094901 | .1240837 | -.001527 | .9098702 | 4.877663 | -.006985 |
| Stddev | .108843  | .001227  | .0032979 | .001145  | .0140171 | .015449  | .002389  |
| %RSD   | 1.495456 | .1121030 | 2.657829 | 74.97643 | 1.540555 | .3167241 | 34.20348 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.290116 | 1.095974 | .1269760 | -.002505 | .9192050 | 4.875761 | -.009515 |
| #2 | 7.380707 | 1.093563 | .1247830 | -.001809 | .9166539 | 4.893974 | -.004768 |
| #3 | 7.163989 | 1.095166 | .1204922 | -.000268 | .8937519 | 4.863253 | -.006672 |

Sample Name: P4728-19DLX2      Acquired: 11/20/2024 19:20:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBH9F6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1439527 | .0209237 | .7549064 |
| Stddev | .0007196 | .0011660 | .0033432 |
| %RSD   | .4999022 | 5.572839 | .4428628 |
| #1     | .1439827 | .0205347 | .7530692 |
| #2     | .1432186 | .0200019 | .7587653 |
| #3     | .1446569 | .0222345 | .7528847 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 899.1457 | 24654.92 | 5176.798 | 742.2257 | 1393.072 |
| Stddev    | 2.7632   | 47.11    | 17.028   | .3301    | 1.186    |
| %RSD      | .3073129 | .1910924 | .3289330 | .0444682 | .0851396 |
| #1        | 902.2502 | 24600.53 | 5186.486 | 742.4855 | 1394.365 |
| #2        | 898.2312 | 24683.30 | 5157.136 | 741.8543 | 1392.035 |
| #3        | 896.9556 | 24680.92 | 5186.772 | 742.3373 | 1392.815 |



Sample Name: P4879-01DLX2      Acquired: 11/20/2024 19:25:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0543158 | -.001576 | .0239758 | -.005912 | .0051969 | 9.400840 | .3951151 |
| Stddev | .0077570 | .003742  | .0027811 | .010699  | .0033284 | .057714  | .0003031 |
| %RSD   | 14.28124 | 237.4375 | 11.59960 | 180.9749 | 64.04471 | .6139195 | .0767178 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0453816 | -.004659 | .0257177 | .004064  | .0090369 | 9.369689 | .3954549 |
| #2 | .0593365 | -.002658 | .0254413 | -.004588 | .0031389 | 9.467435 | .3950179 |
| #3 | .0582291 | .002588  | .0207684 | -.017212 | .0034151 | 9.365394 | .3948724 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0006255 | .0018373 | 717.6273 | .0192895 | .0197082 | .0252877 | 47.41821 |
| Stddev | .0000845 | .0002109 | 4.2473   | .0014601 | .0008782 | .0002712 | .07689   |
| %RSD   | 13.51453 | 11.47613 | .5918476 | 7.569463 | 4.455987 | 1.072583 | .1621579 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0006846 | .0016785 | 713.3112 | .0209621 | .0189459 | .0253946 | 47.39905 |
| #2 | .0006633 | .0020766 | 717.7685 | .0186372 | .0195103 | .0249793 | 47.50288 |
| #3 | .0005287 | .0017569 | 721.8022 | .0182693 | .0206685 | .0254891 | 47.35271 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.399972 | 281.3086 | .0450195 | .0085311 | .9591949 | .0378908 | .0987862 |
| Stddev | .008576  | .0627    | .0006450 | .0003554 | .1529111 | .0046521 | .0010323 |
| %RSD   | .2522413 | .0222926 | 1.432634 | 4.165572 | 15.94161 | 12.27765 | 1.044951 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.401672 | 281.2949 | .0444481 | .0089404 | 1.134086 | .0422068 | .0994133 |
| #2 | 3.407571 | 281.3771 | .0457189 | .0083515 | .850735  | .0329631 | .0975948 |
| #3 | 3.390673 | 281.2539 | .0448916 | .0083013 | .892763  | .0385026 | .0993504 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4496592 | 1.192208 | .0781129 | .0072190 | 3.440162 | 2.454621 | -.006539 |
| Stddev | .0220413 | .008218  | .0015056 | .0002209 | .012807  | .009720  | .001226  |
| %RSD   | 4.901782 | .6893043 | 1.927502 | 3.060231 | .3722644 | .3960065 | 18.74591 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4749952 | 1.188443 | .0779207 | .0074096 | 3.449509 | 2.448897 | -.005656 |
| #2 | .4348975 | 1.186546 | .0797054 | .0072704 | 3.425565 | 2.465845 | -.007939 |
| #3 | .4390848 | 1.201633 | .0767126 | .0069769 | 3.445412 | 2.449123 | -.006022 |

Sample Name: P4879-01DLX2      Acquired: 11/20/2024 19:25:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1812689 | .0204576 | .5320789 |
| Stddev | .0040434 | .0009290 | .0006503 |
| %RSD   | 2.230638 | 4.541112 | .1222112 |
| #1     | .1848187 | .0194036 | .5314897 |
| #2     | .1821206 | .0211573 | .5327766 |
| #3     | .1768675 | .0208120 | .5319704 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 822.0694 | 22612.08 | 4849.490 | 679.6616 | 1328.388 |
| Stddev    | .2807    | 61.99    | 8.326    | 3.6563   | .790     |
| %RSD      | .0341418 | .2741235 | .1716946 | .5379660 | .0594510 |
| #1        | 822.1794 | 22542.80 | 4858.504 | 675.5531 | 1328.009 |
| #2        | 821.7504 | 22631.14 | 4842.087 | 682.5579 | 1329.296 |
| #3        | 822.2785 | 22662.29 | 4847.879 | 680.8738 | 1327.860 |

Sample Name: P4879-02DLX5      Acquired: 11/20/2024 19:29:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0123159 | -.005060 | .0064188 | -.001729 | -.002925 | 3.751140 | .0432158 |
| Stddev | .0024791 | .005099  | .0015788 | .010628  | .001885  | .020819  | .0006387 |
| %RSD   | 20.12942 | 100.7661 | 24.59634 | 614.5673 | 64.43711 | .5549933 | 1.477951 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0146398 | .000385  | .0064725 | .003769  | -.000935 | 3.727137 | .0428074 |
| #2 | .0097063 | -.005844 | .0048138 | .005023  | -.003158 | 3.762005 | .0439519 |
| #3 | .0126017 | -.009722 | .0079700 | -.013980 | -.004684 | 3.764279 | .0428882 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002438 | .0003213 | 417.0597 | .0080463 | .0028426 | .0081160 | 16.42743 |
| Stddev | .0001784 | .0002907 | .9739    | .0006417 | .0005901 | .0022198 | .03680   |
| %RSD   | 73.14803 | 90.47160 | .2335132 | 7.974810 | 20.76037 | 27.35056 | .2240198 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001437 | .0006380 | 417.1789 | .0078912 | .0026081 | .0060774 | 16.38520 |
| #2 | .0001380 | .0000664 | 416.0317 | .0074964 | .0024058 | .0104809 | 16.44447 |
| #3 | .0004497 | .0002597 | 417.9685 | .0087513 | .0035140 | .0077898 | 16.45262 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8090799 | 157.5730 | .0144771 | .0064995 | .9438574 | .0181776 | .0351510 |
| Stddev | .0020874 | .8478    | .0006849 | .0002966 | .1948853 | .0017354 | .0004583 |
| %RSD   | .2579973 | .5380293 | 4.730619 | 4.563368 | 20.64775 | 9.546955 | 1.303658 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .8113104 | 156.9577 | .0149327 | .0065660 | .8871769 | .0180228 | .0349099 |
| #2 | .8071735 | 158.5400 | .0136895 | .0067573 | 1.160800 | .0165248 | .0356794 |
| #3 | .8087559 | 157.2213 | .0148091 | .0061754 | .783596  | .0199853 | .0348636 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.149374 | .4715604 | .0309554 | .0031984 | 1.585611 | .8218987 | -.008932 |
| Stddev | .115247  | .0005625 | .0017908 | .0002554 | .003377  | .0035959 | .002573  |
| %RSD   | 77.15338 | .1192883 | 5.784959 | 7.986568 | .2129953 | .4375111 | 28.80817 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.043437 | .4718788 | .0300183 | .0030268 | 1.589252 | .8260418 | -.010248 |
| #2 | -.272091 | .4709109 | .0330203 | .0034919 | 1.585001 | .8195889 | -.010582 |
| #3 | -.132594 | .4718916 | .0298277 | .0030764 | 1.582581 | .8200655 | -.005967 |

Sample Name: P4879-02DLX5      Acquired: 11/20/2024 19:29:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: E29X2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0727305 | .0026310 | .3523840 |
| Stddev | .0009185 | .0012863 | .0001272 |
| %RSD   | 1.262814 | 48.89164 | .0360933 |
| #1     | .0726195 | .0022596 | .3522373 |
| #2     | .0718725 | .0040621 | .3524641 |
| #3     | .0736993 | .0015712 | .3524505 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 839.5701 | 22967.79 | 4824.675 | 694.1842 | 1418.380 |
| Stddev    | 1.3354   | 11.38    | 4.870    | 1.1373   | .871     |
| %RSD      | .1590540 | .0495448 | .1009397 | .1638284 | .0614396 |
| #1        | 838.0435 | 22965.79 | 4823.106 | 695.3937 | 1417.950 |
| #2        | 840.5213 | 22980.04 | 4820.782 | 693.1365 | 1419.383 |
| #3        | 840.1456 | 22957.54 | 4830.136 | 694.0224 | 1417.807 |

Sample Name: CCV038      Acquired: 11/20/2024 19:34:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV038      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.987469 | 4.708398 | 24.21681 | 4.703083 | 4.762016 | 404.0450 | 9.904464 |
| Stddev | .012586  | .015683  | .06351   | .011452  | .015820  | .5380    | .007522  |
| %RSD   | .2523557 | .3330826 | .2622361 | .2434988 | .3322199 | .1331520 | .0759407 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.998914 | 4.724888 | 24.28480 | 4.713179 | 4.764966 | 404.3375 | 9.899159 |
| #2 | 4.973990 | 4.693671 | 24.15903 | 4.690639 | 4.744928 | 404.3734 | 9.913072 |
| #3 | 4.989502 | 4.706634 | 24.20661 | 4.705430 | 4.776153 | 403.4241 | 9.901160 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4843072 | 2.428698 | 390.8928 | 14.71772 | 2.440948 | 14.53313 | 405.3176 |
| Stddev | .0028053 | .004791  | .2565    | .03767   | .001017  | .01763   | .9962    |
| %RSD   | .5792372 | .1972708 | .0656228 | .2559591 | .0416524 | .1213012 | .2457886 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4869117 | 2.434044 | 391.0916 | 14.71629 | 2.442036 | 14.54670 | 406.0159 |
| #2 | .4846729 | 2.424792 | 390.9836 | 14.75609 | 2.440023 | 14.53949 | 405.7602 |
| #3 | .4813370 | 2.427258 | 390.6033 | 14.68079 | 2.440785 | 14.51321 | 404.1768 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.12738 | 393.9606 | 2.421530 | 1.205656 | 403.5394 | 2.435529 | 13.97523 |
| Stddev | .01689   | .8813    | .003578  | .003773  | .5763    | .013616  | .03803   |
| %RSD   | .1195570 | .2237132 | .1477674 | .3129309 | .1428174 | .5590401 | .2720971 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.14027 | 394.9736 | 2.425364 | 1.203131 | 403.9159 | 2.425930 | 13.96776 |
| #2 | 14.13361 | 393.3696 | 2.418280 | 1.209993 | 403.8263 | 2.451112 | 14.01644 |
| #3 | 14.10826 | 393.5386 | 2.420944 | 1.203845 | 402.8759 | 2.429545 | 13.94150 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 148.1695 | 4.878098 | 5.155812 | 4.670915 | 4.969149 | 5.234834 | 4.875023 |
| Stddev | .4420    | .008645  | .031739  | .024524  | .006417  | .030223  | .018150  |
| %RSD   | .2982784 | .1772190 | .6155921 | .5250274 | .1291272 | .5773519 | .3723032 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 147.7227 | 4.868177 | 5.187740 | 4.664739 | 4.961933 | 5.266770 | 4.884453 |
| #2 | 148.6064 | 4.884012 | 5.155431 | 4.650070 | 4.971303 | 5.231051 | 4.854099 |
| #3 | 148.1793 | 4.882106 | 5.124266 | 4.697936 | 4.974211 | 5.206680 | 4.886516 |

Sample Name: CCV038      Acquired: 11/20/2024 19:34:06      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV038      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.866427 | 4.983491 | 4.939552 |
| Stddev | .009013  | .002891  | .017500  |
| %RSD   | .1852123 | .0580207 | .3542778 |
| #1     | 4.869929 | 4.981414 | 4.927639 |
| #2     | 4.873164 | 4.986793 | 4.959644 |
| #3     | 4.856189 | 4.982264 | 4.931373 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 731.8099 | 21619.52 | 4732.220 | 566.3941 | 1263.890 |
| Stddev    | 3.0277   | 35.47    | 23.725   | .9833    | 2.214    |
| %RSD      | .4137272 | .1640760 | .5013402 | .1735982 | .1751906 |
| #1        | 732.5783 | 21645.75 | 4711.698 | 566.7398 | 1261.450 |
| #2        | 734.3793 | 21579.16 | 4726.766 | 565.2847 | 1265.772 |
| #3        | 728.4720 | 21633.65 | 4758.197 | 567.1578 | 1264.447 |

Sample Name: CCB038      Acquired: 11/20/2024 19:38:27      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB038      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0015002 | .0021550 | .0009920 | .0044272 | -.001117 | .0206118 | -.002037 |
| Stddev | .0029399 | .0025576 | .0024716 | .0033156 | .001802  | .0048548 | .000487  |
| %RSD   | 195.9649 | 118.6829 | 249.1494 | 74.89186 | 161.2293 | 23.55367 | 23.88848 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0021413 | .0023988 | .0013900 | .0026144 | .000299  | .0258276 | -.002596 |
| #2 | -.001707 | -.000516 | .0032405 | .0024133 | -.000506 | .0162246 | -.001804 |
| #3 | .004067  | .004582  | -.001654 | .0082540 | -.003145 | .0197832 | -.001710 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000019 | .0000299 | .0239423 | .0002182 | .0000728 | .0007137 | .0118387 |
| Stddev | .000035  | .0001200 | .0153071 | .0007653 | .0004987 | .0022408 | .0096747 |
| %RSD   | 180.8365 | 401.1963 | 63.93323 | 350.6969 | 685.5185 | 313.9595 | 81.72036 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000030 | .0001208 | .0416170 | .0003039 | -.000076 | .0032368 | .0006802 |
| #2 | -.000047 | -.000106 | .0151966 | -.000586 | .000629  | -.000051 | .0169542 |
| #3 | .000020  | .000075  | .0150132 | .000937  | -.000334 | -.001045 | .0178817 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0005008 | -.017069 | .0010458 | -.006178 | .2450535 | -.002679 | -.000725 |
| Stddev | .0001108 | .046449  | .0005745 | .000167  | .2706356 | .006526  | .000532  |
| %RSD   | 22.11906 | 272.1309 | 54.93457 | 2.700548 | 110.4394 | 243.5994 | 73.33269 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0004577 | -.032094 | .0007016 | -.005990 | .0263093 | -.008703 | -.000319 |
| #2 | .0006266 | .035033  | .0007268 | -.006234 | .1611463 | -.003589 | -.000530 |
| #3 | .0004181 | -.054145 | .0017091 | -.006309 | .5477049 | .004254  | -.001327 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.575396 | .0005145 | .0001839 | -.000096 | -.006500 | .0026070 | -.000652 |
| Stddev | .032622  | .0028852 | .0006013 | .000598  | .000929  | .0004681 | .000223  |
| %RSD   | 5.669472 | 560.7270 | 326.9406 | 620.5676 | 14.28531 | 17.95639 | 34.15995 |

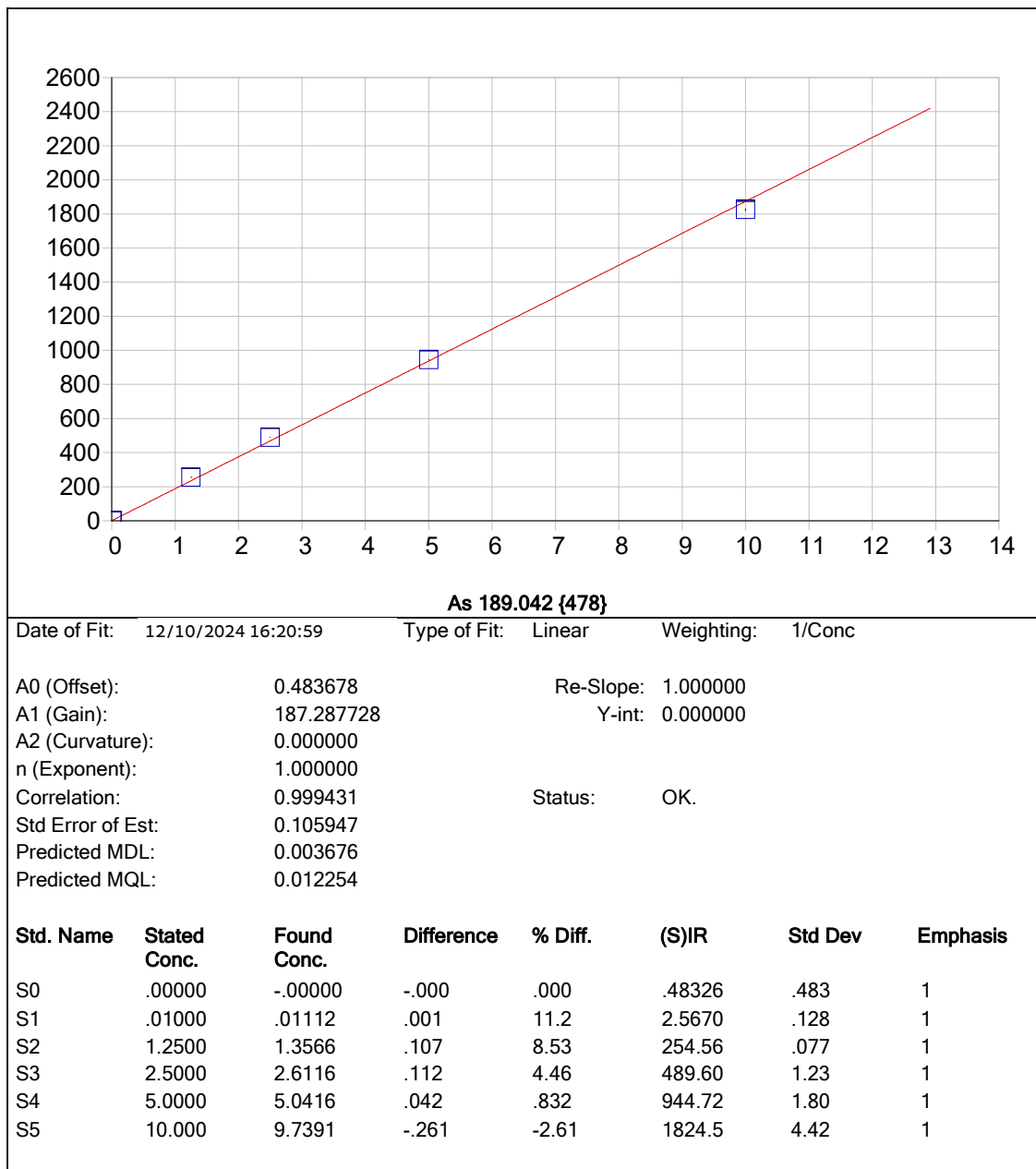
|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.595123 | -.002623 | .0004371 | .000562  | -.007487 | .0027807 | -.000466 |
| #2 | -.537742 | .003054  | -.000503 | -.000245 | -.005644 | .0020768 | -.000592 |
| #3 | -.593324 | .001113  | .000617  | -.000606 | -.006369 | .0029634 | -.000899 |

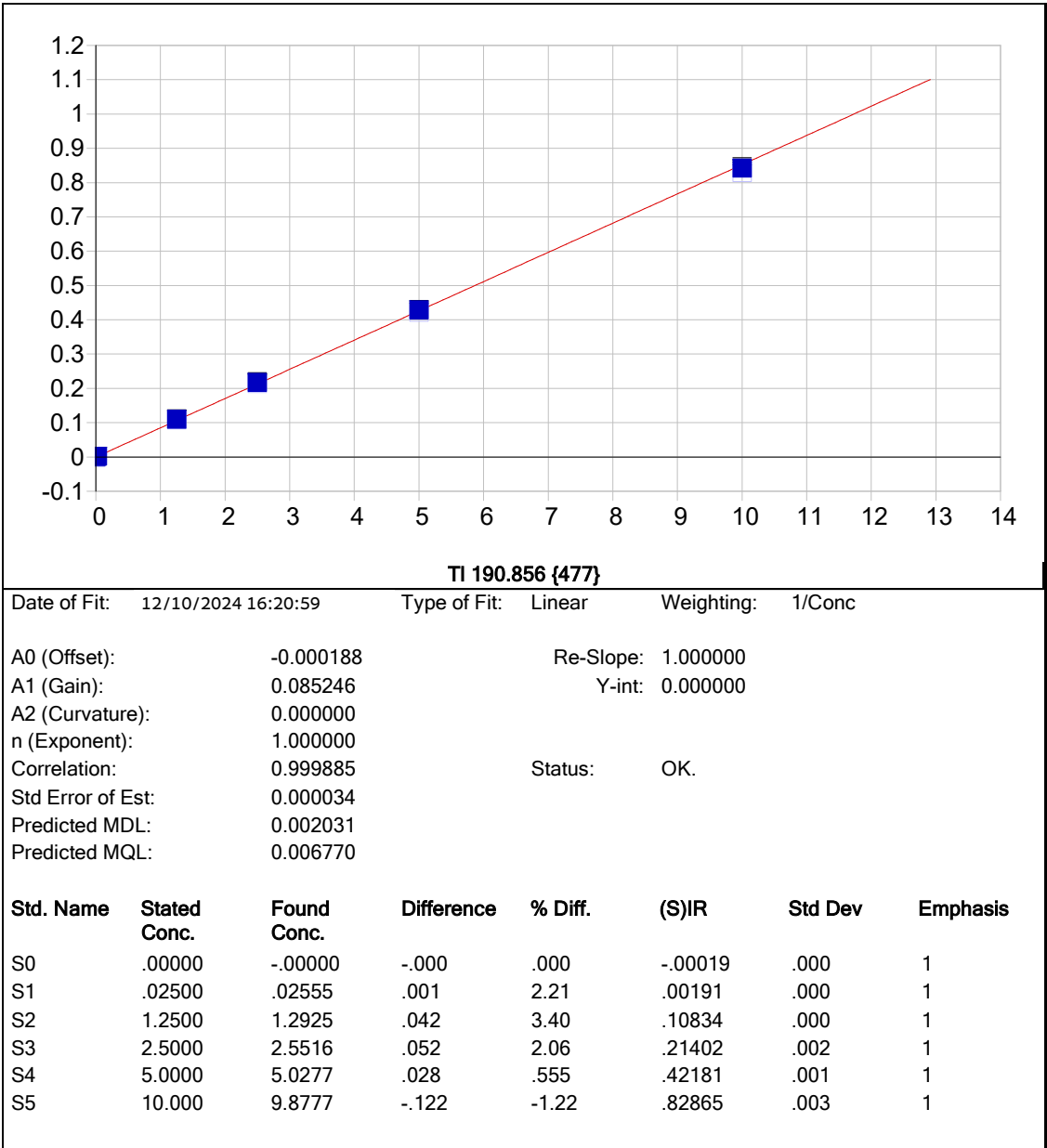
Sample Name: CCB038      Acquired: 11/20/2024 19:38:27      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v752)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB038      Custom ID2:      Custom ID3:  
Comment:

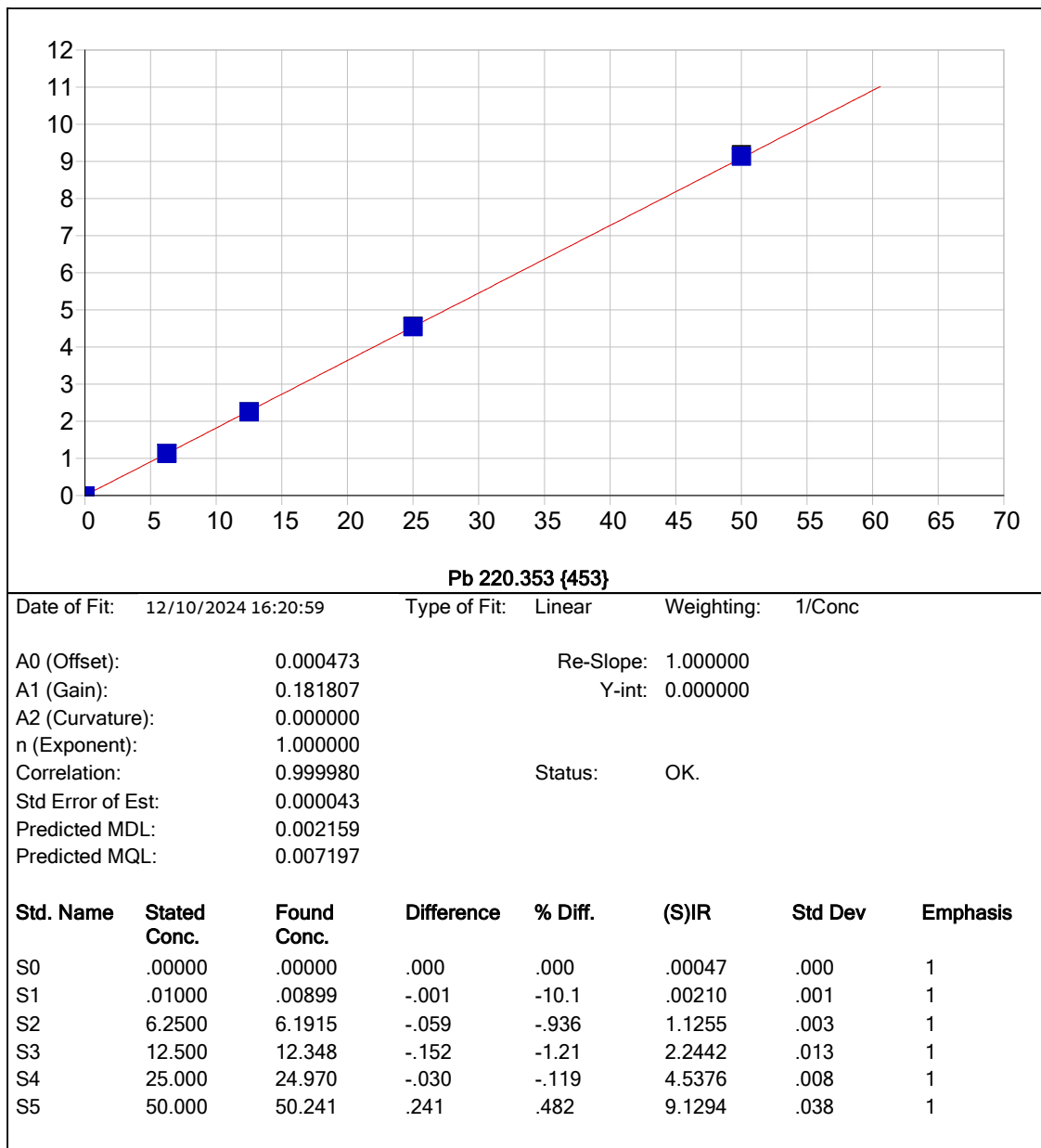
|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000348 | -.008407 | .0000706 |
| Stddev | .001567  | .001015  | .0000733 |
| %RSD   | 450.3466 | 12.07018 | 103.7946 |
| #1     | -.000105 | -.009317 | .0001246 |
| #2     | .001083  | -.007313 | .0001001 |
| #3     | -.002022 | -.008589 | -.000013 |

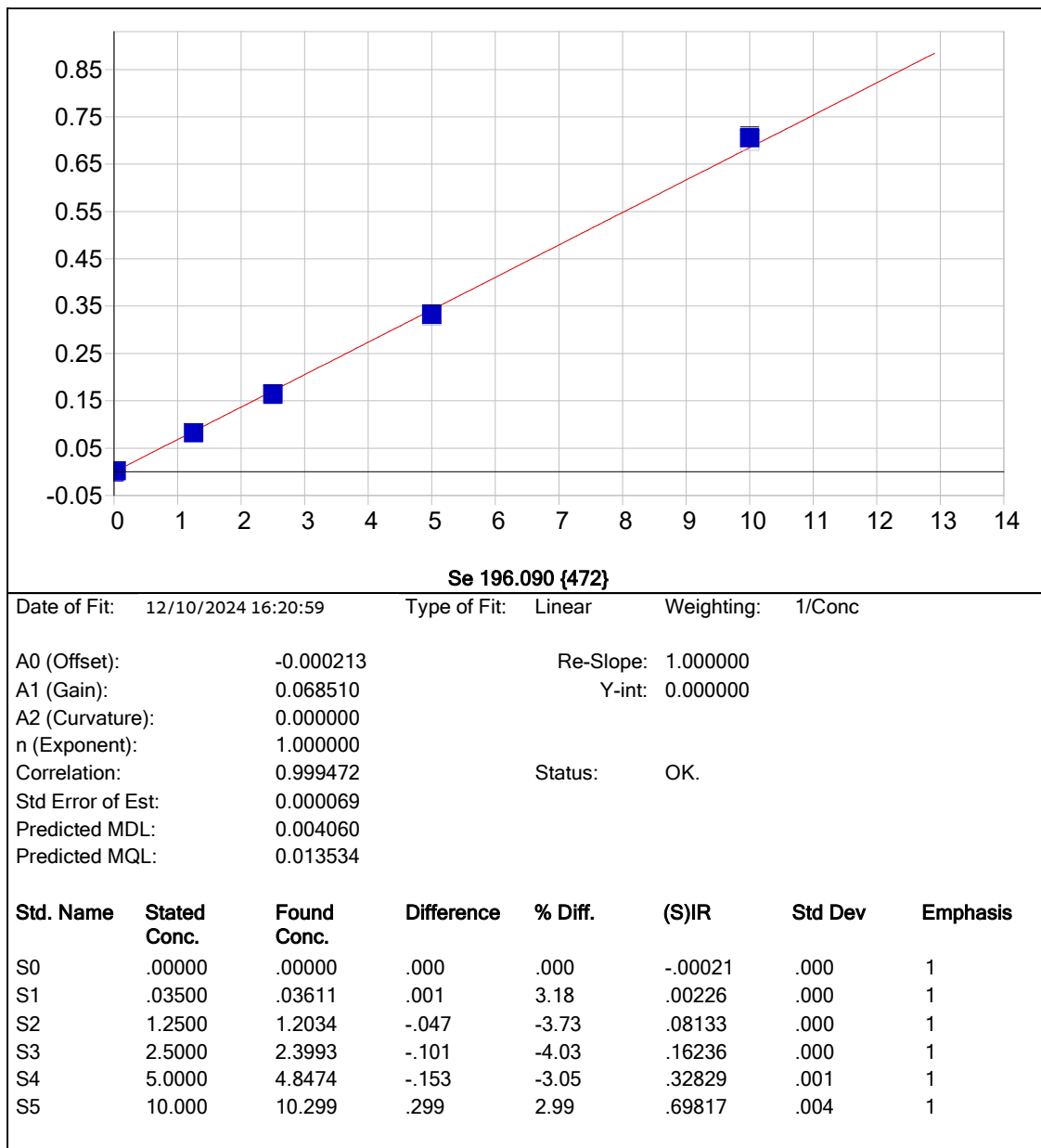
|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 921.1218 | 25135.57 | 4955.277 | 759.1988 | 1756.032 |
| Stddev    | 4.0581   | 82.55    | 28.016   | 2.9809   | 7.845    |
| %RSD      | .4405621 | .3284020 | .5653673 | .3926318 | .4467548 |
| #1        | 918.4299 | 25090.60 | 4931.886 | 756.7756 | 1750.106 |
| #2        | 919.1460 | 25085.28 | 4947.621 | 762.5274 | 1753.060 |
| #3        | 925.7894 | 25230.84 | 4986.325 | 758.2935 | 1764.928 |

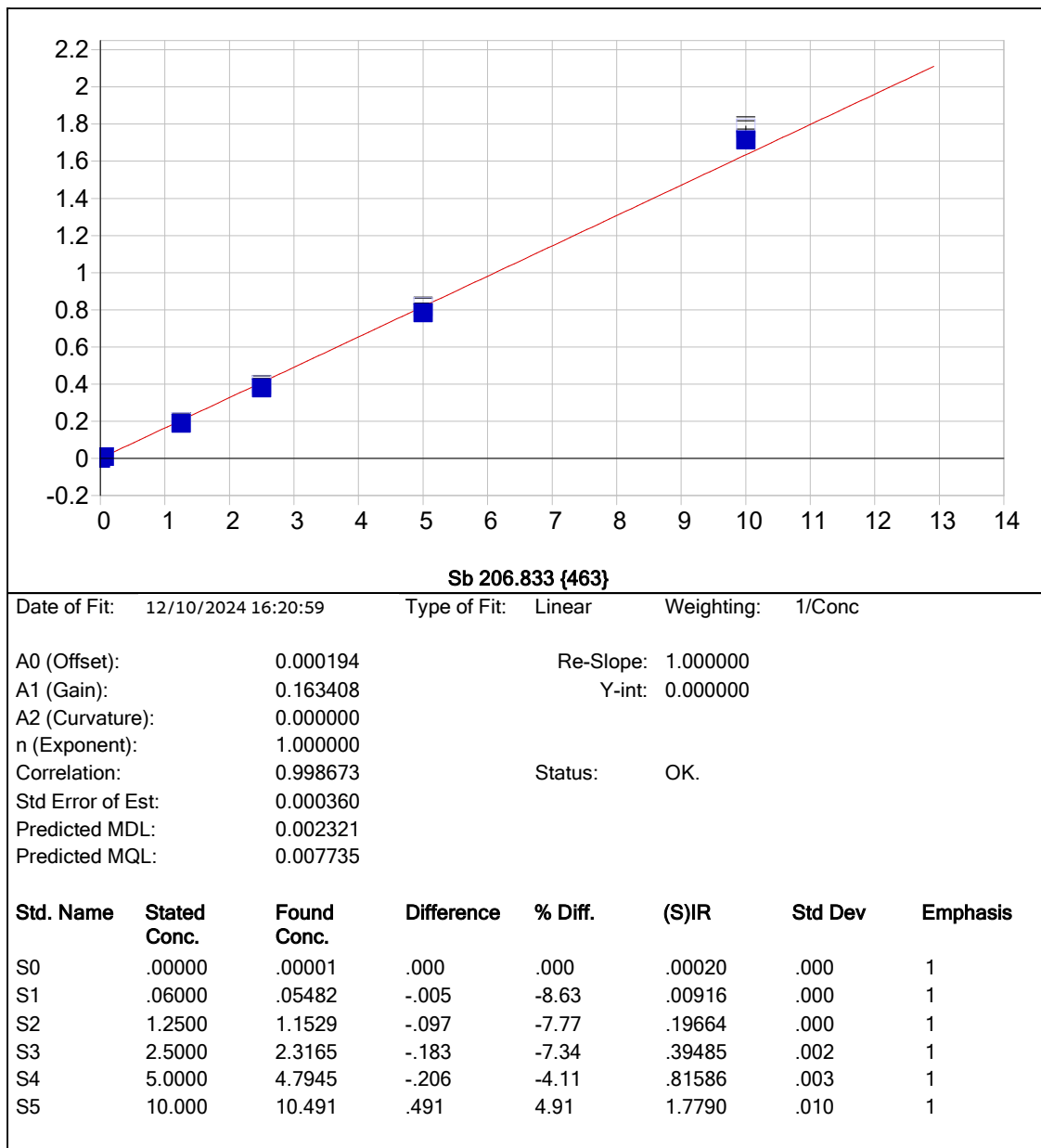


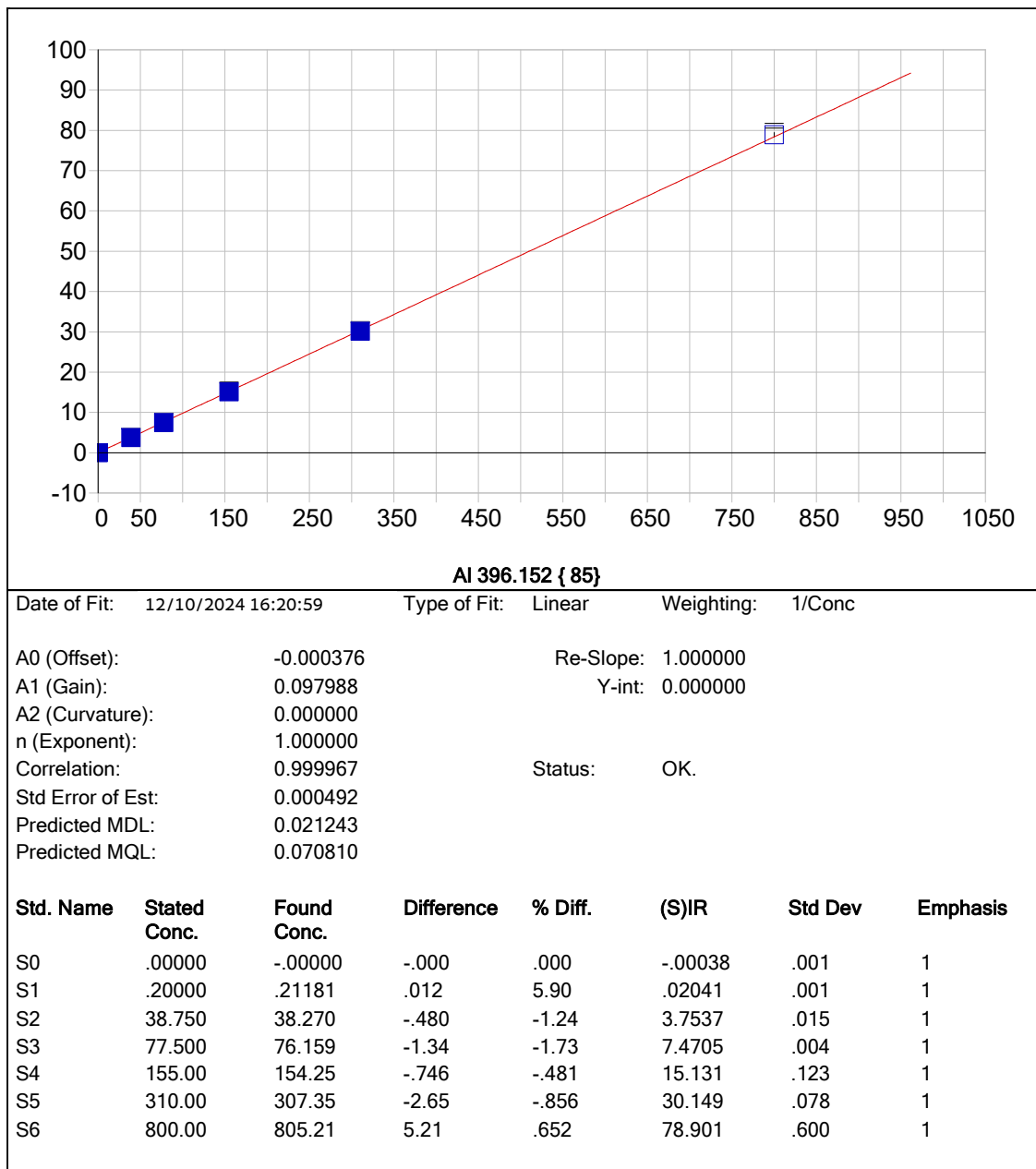


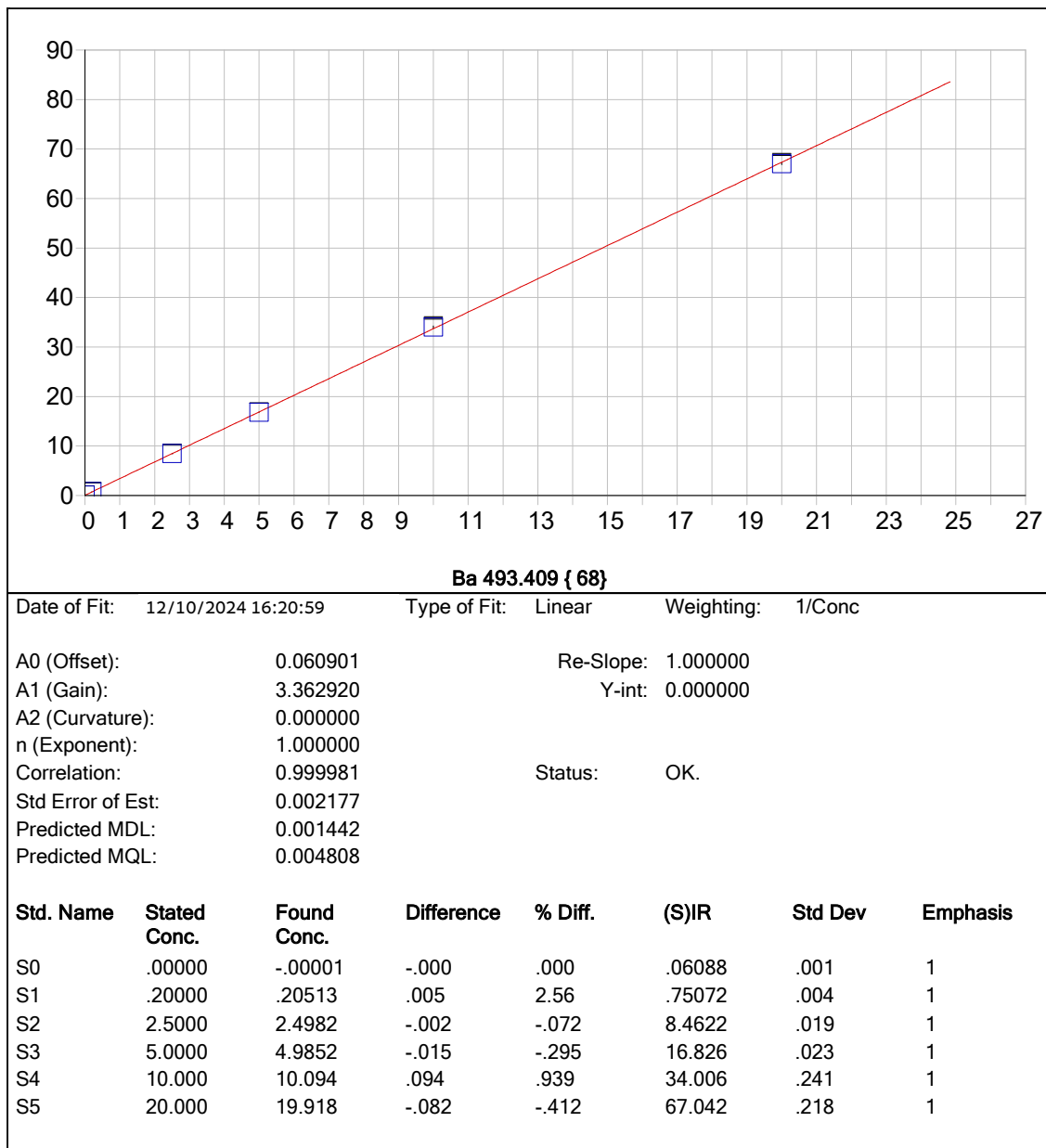


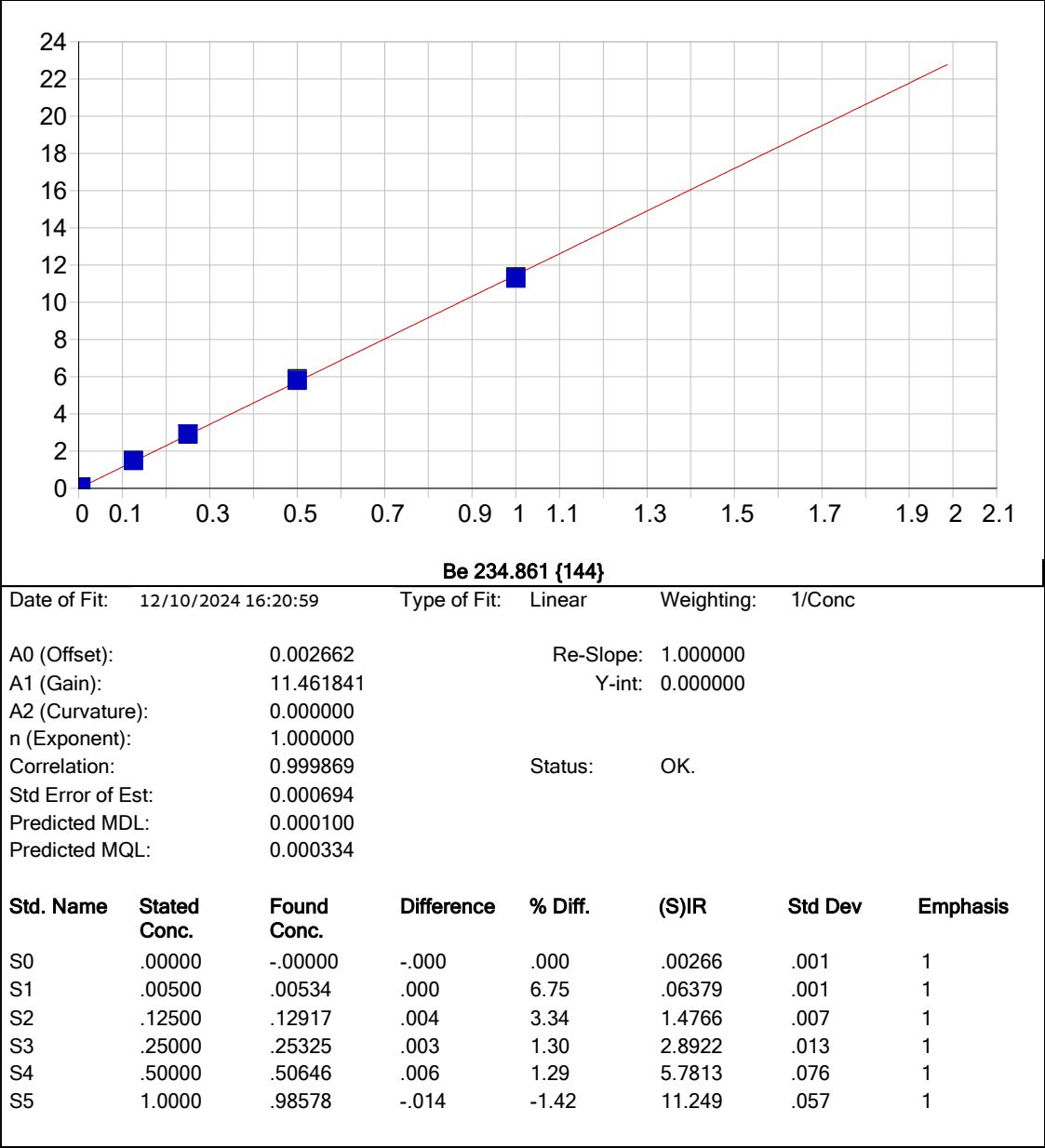




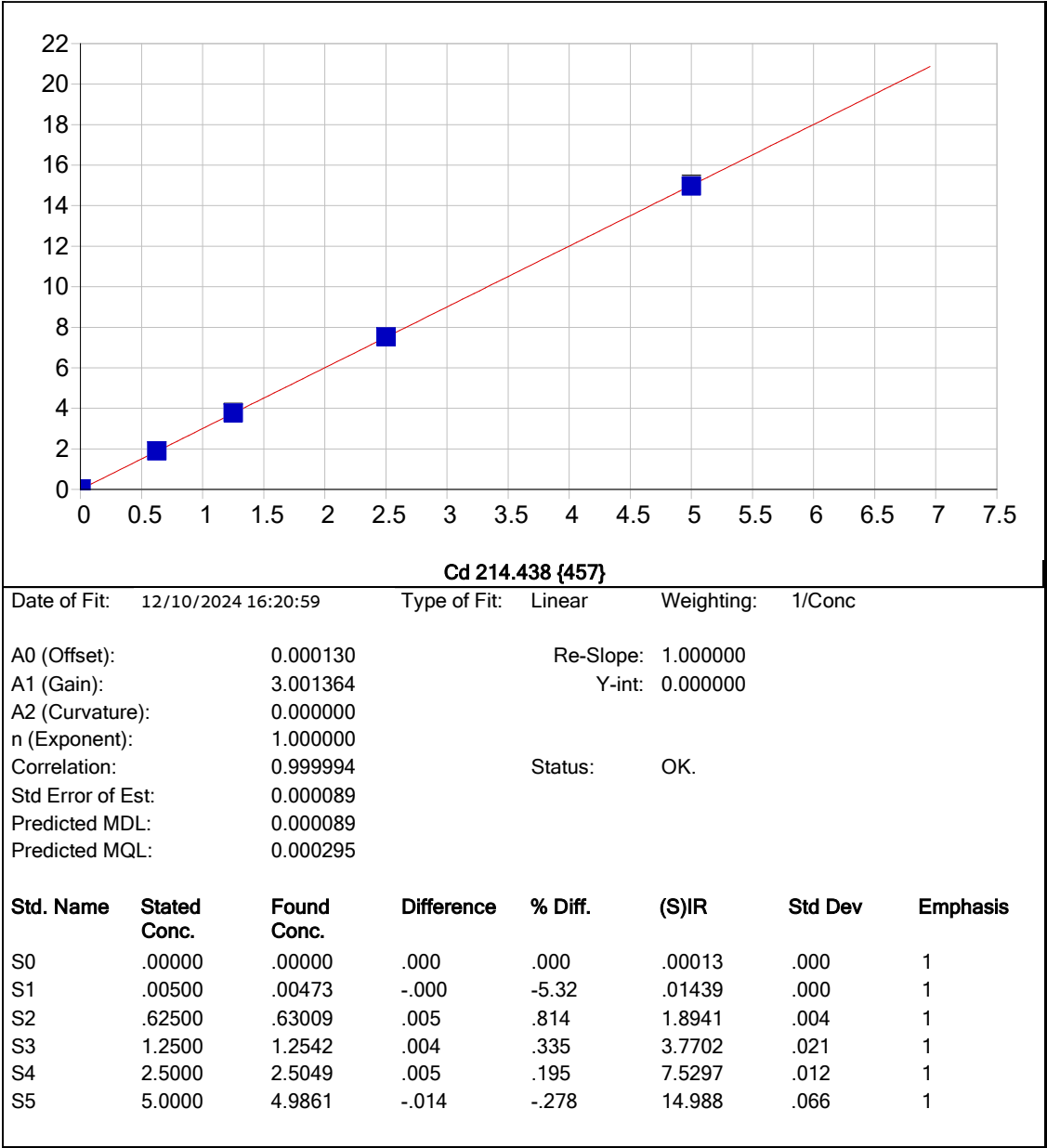


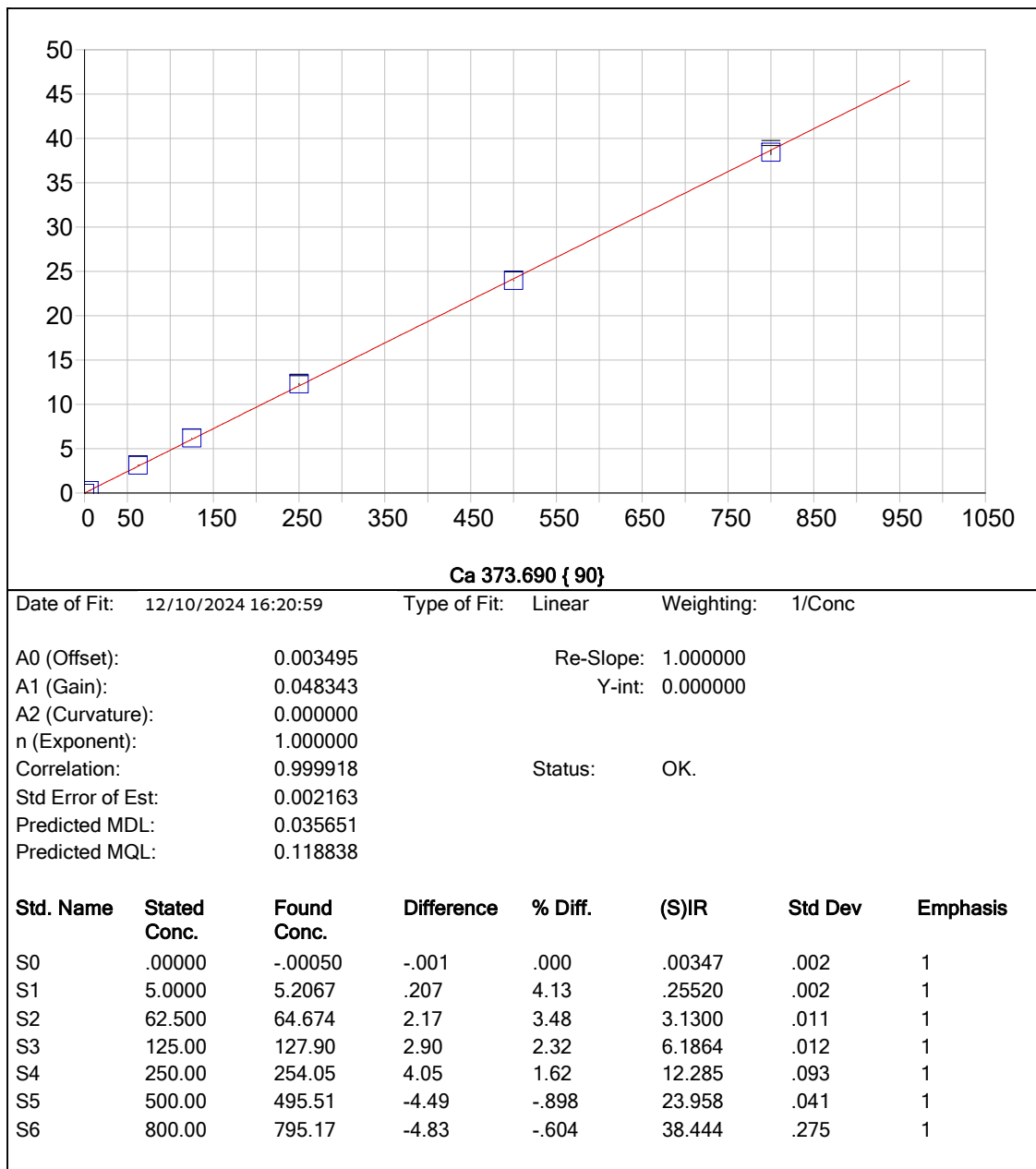


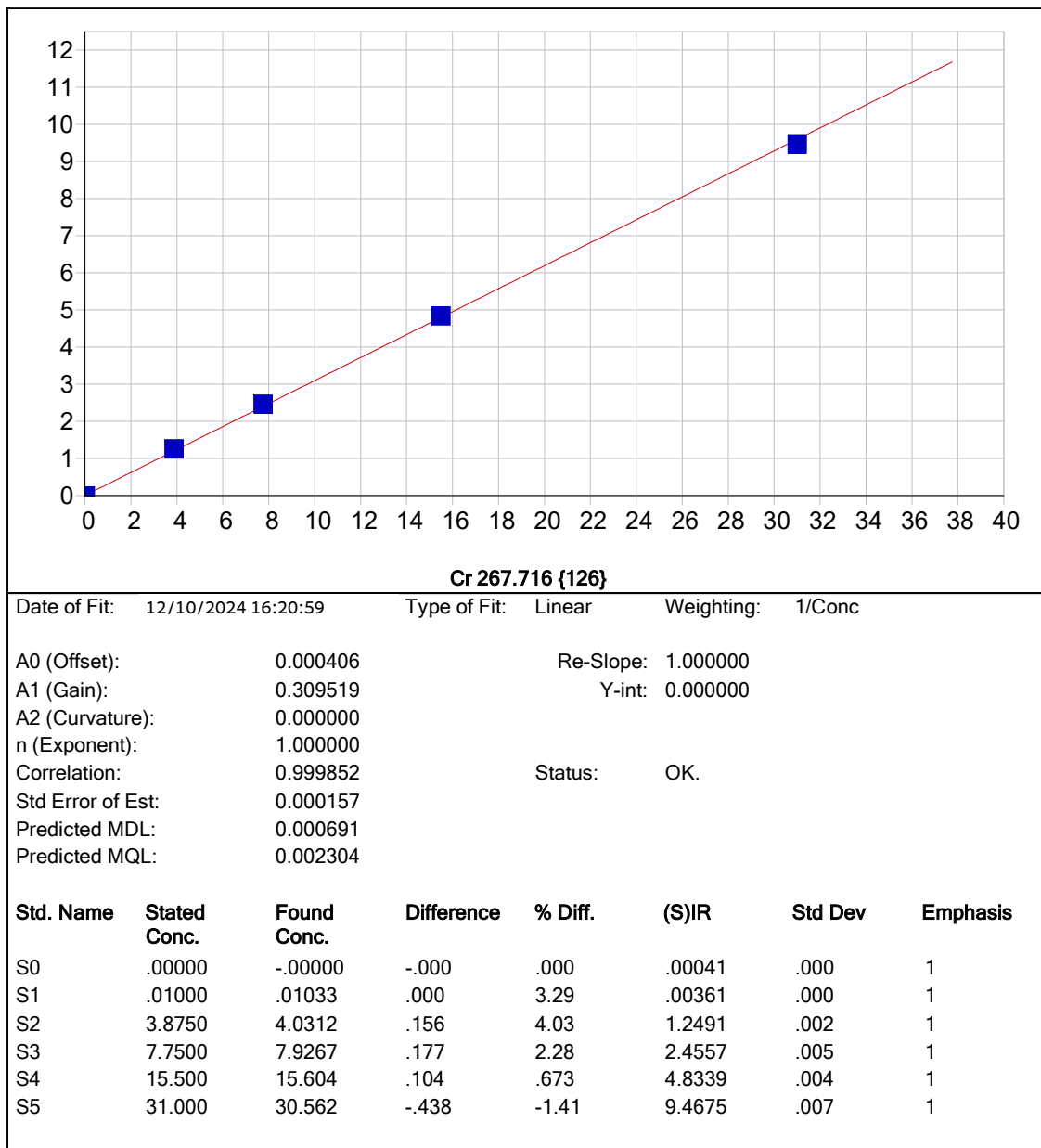


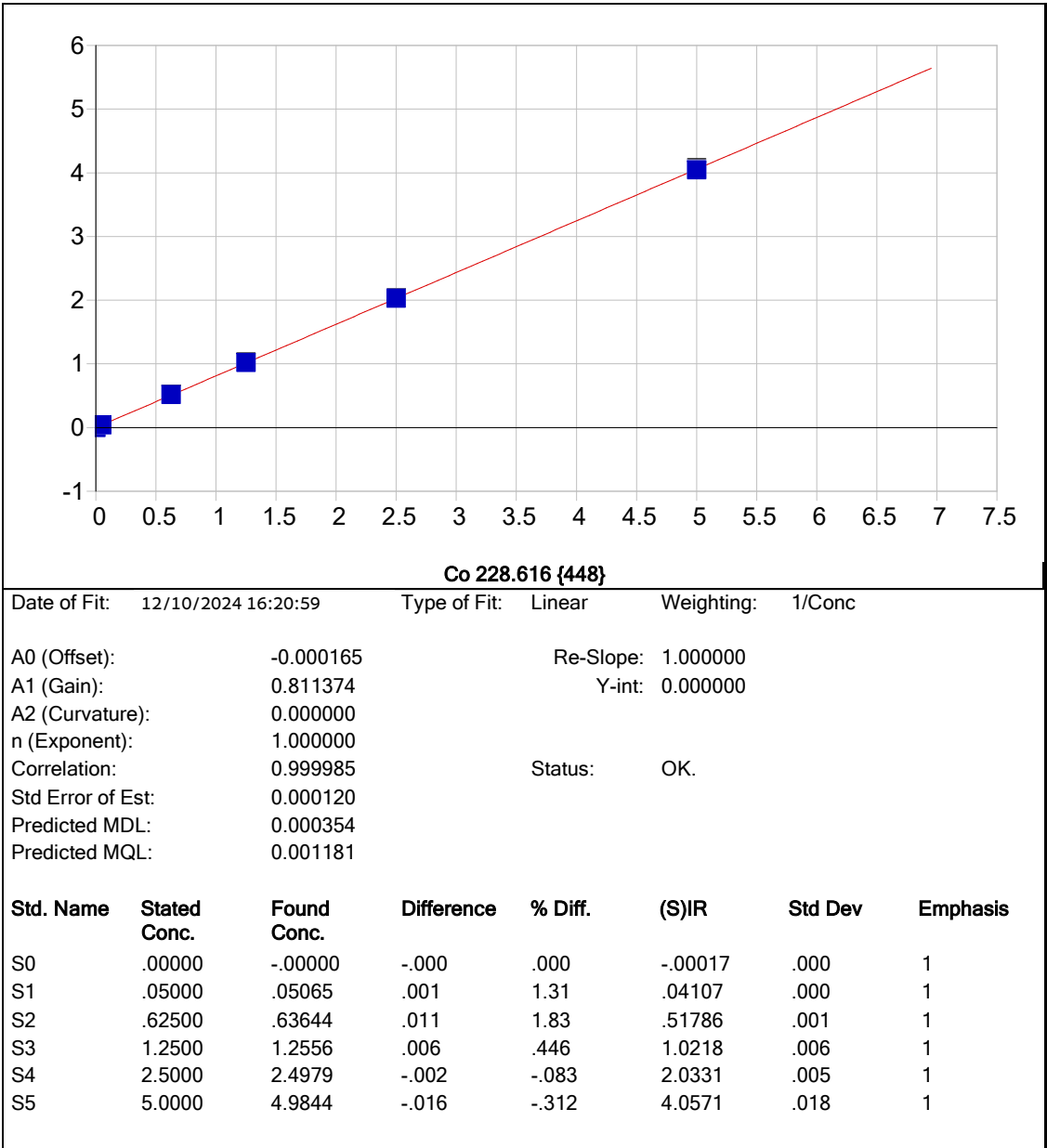


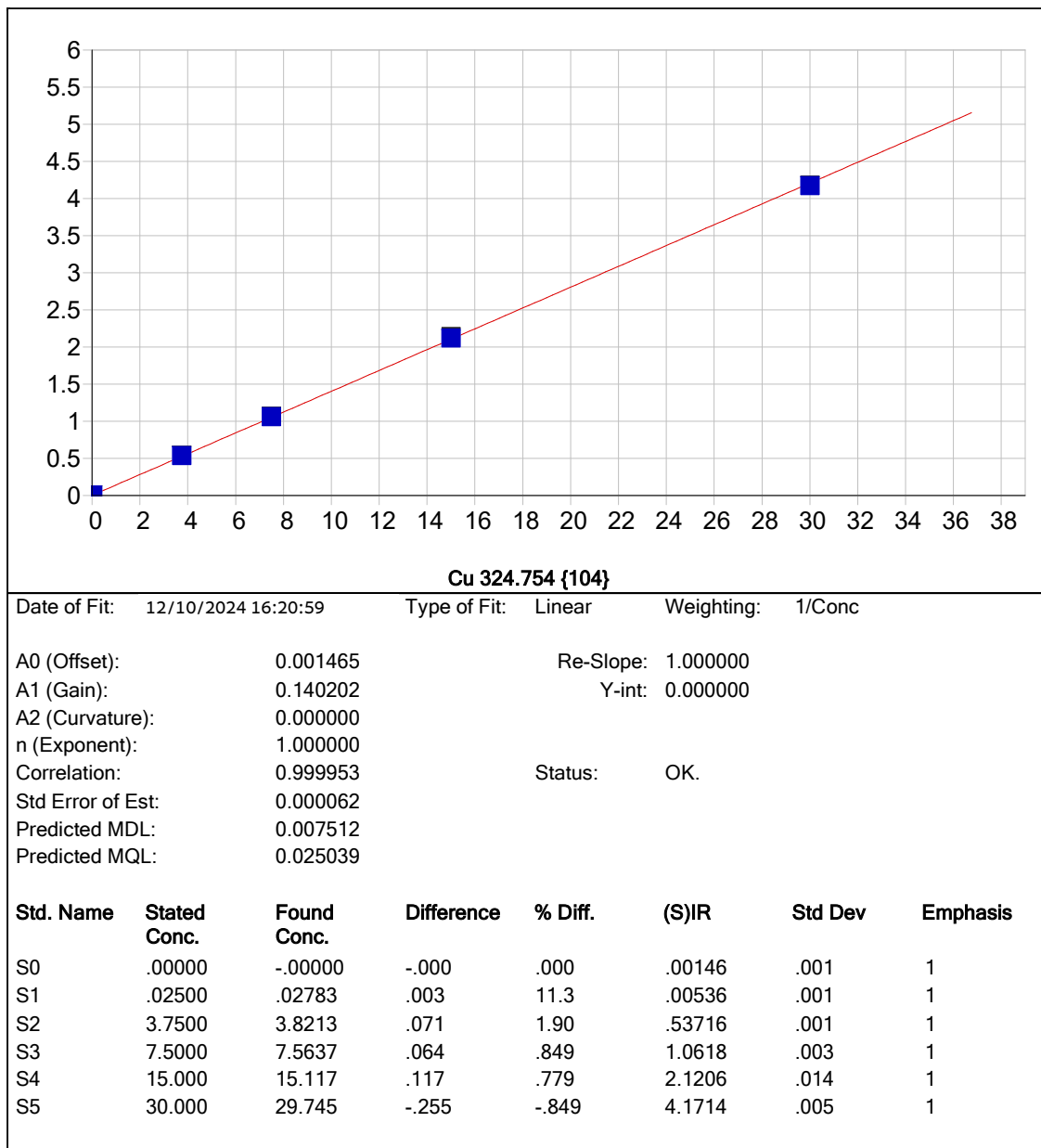


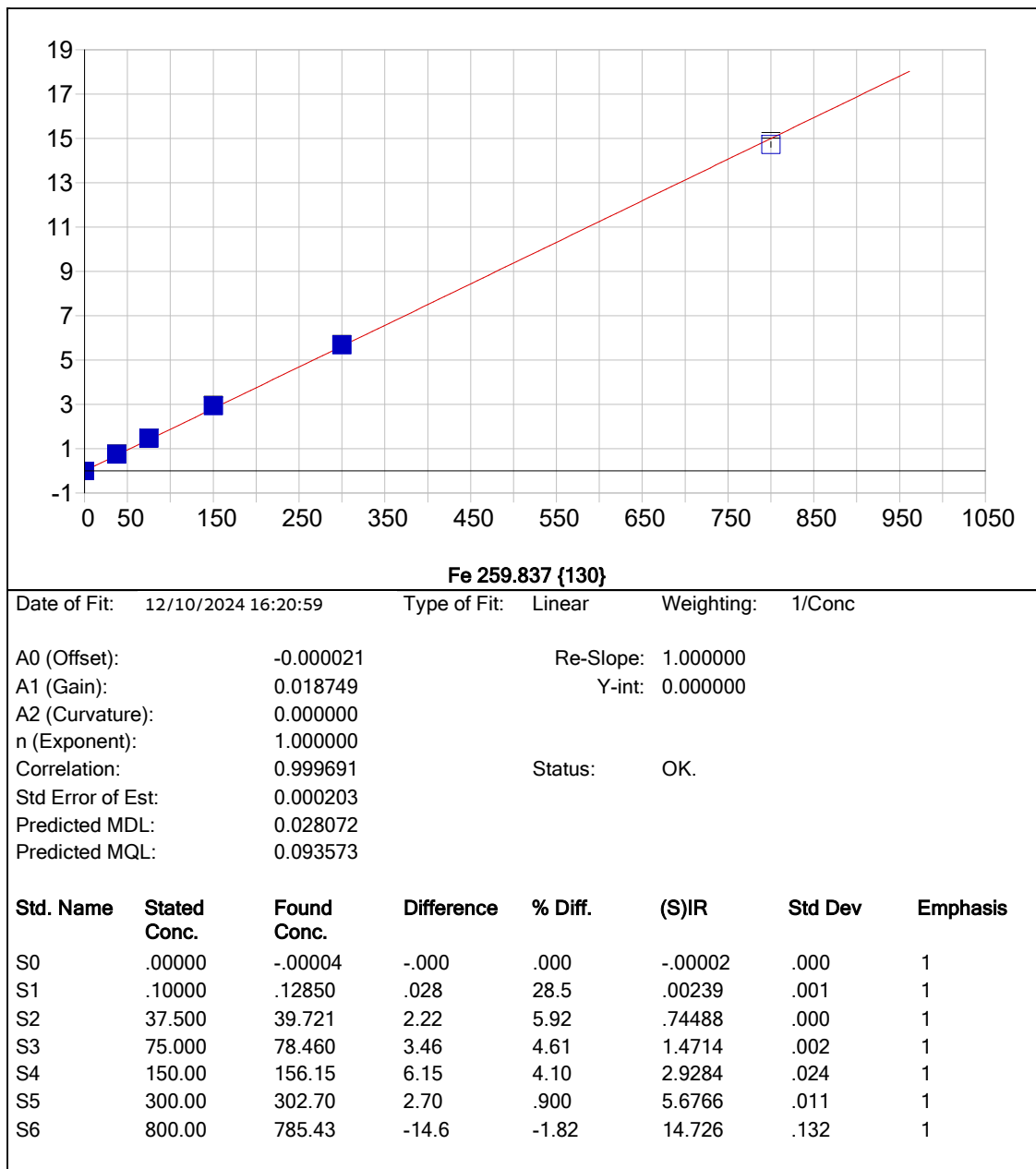


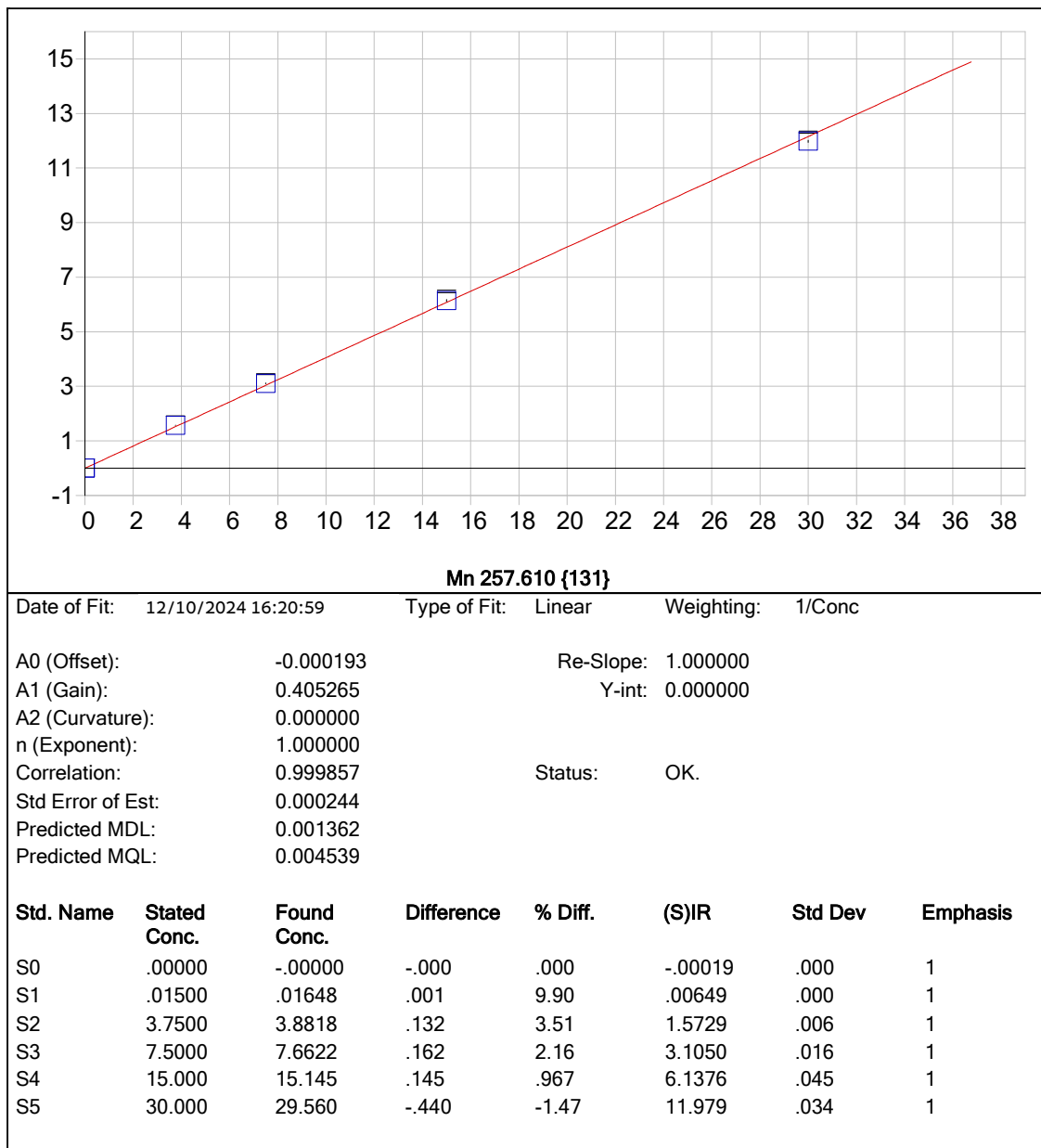


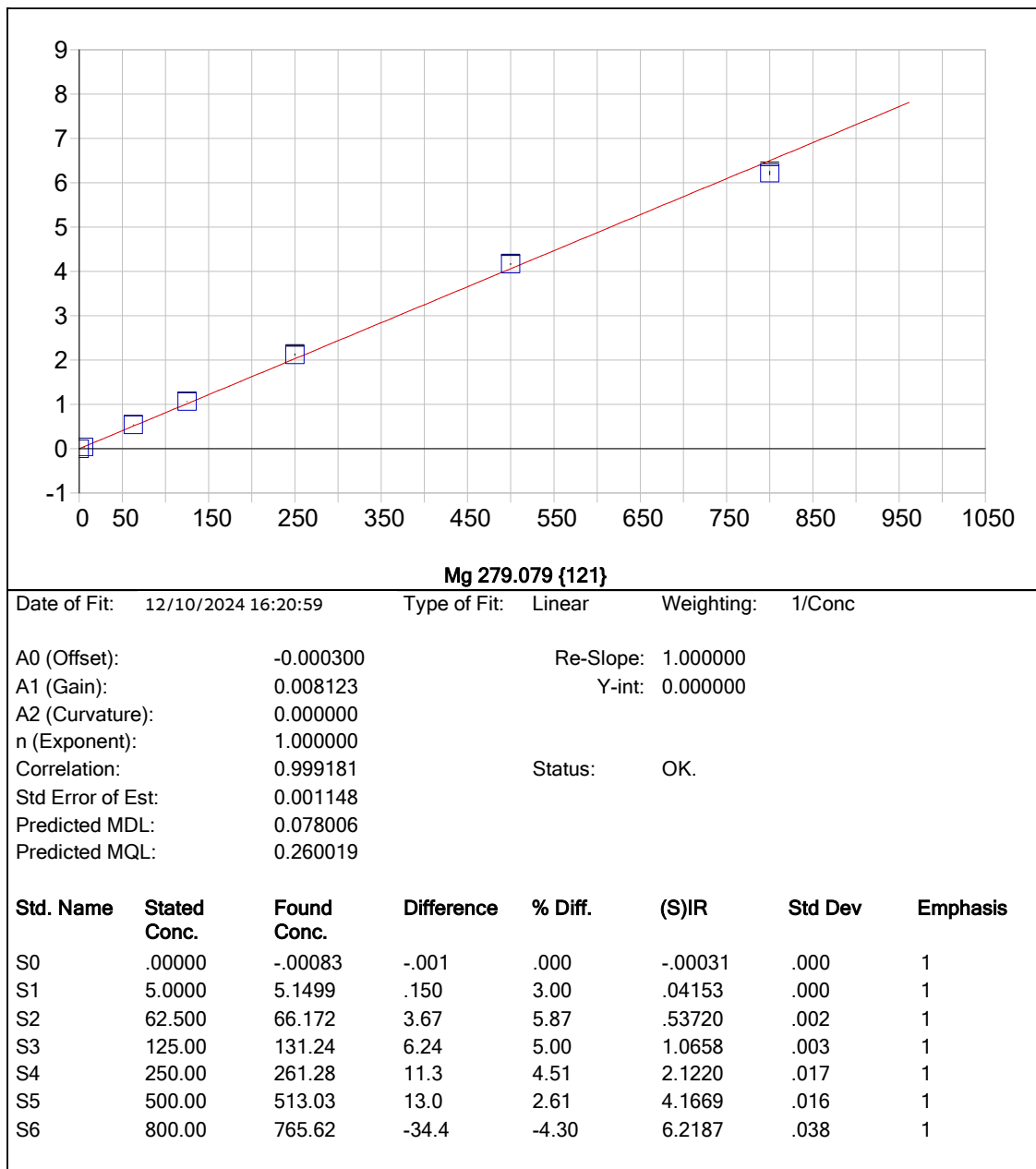




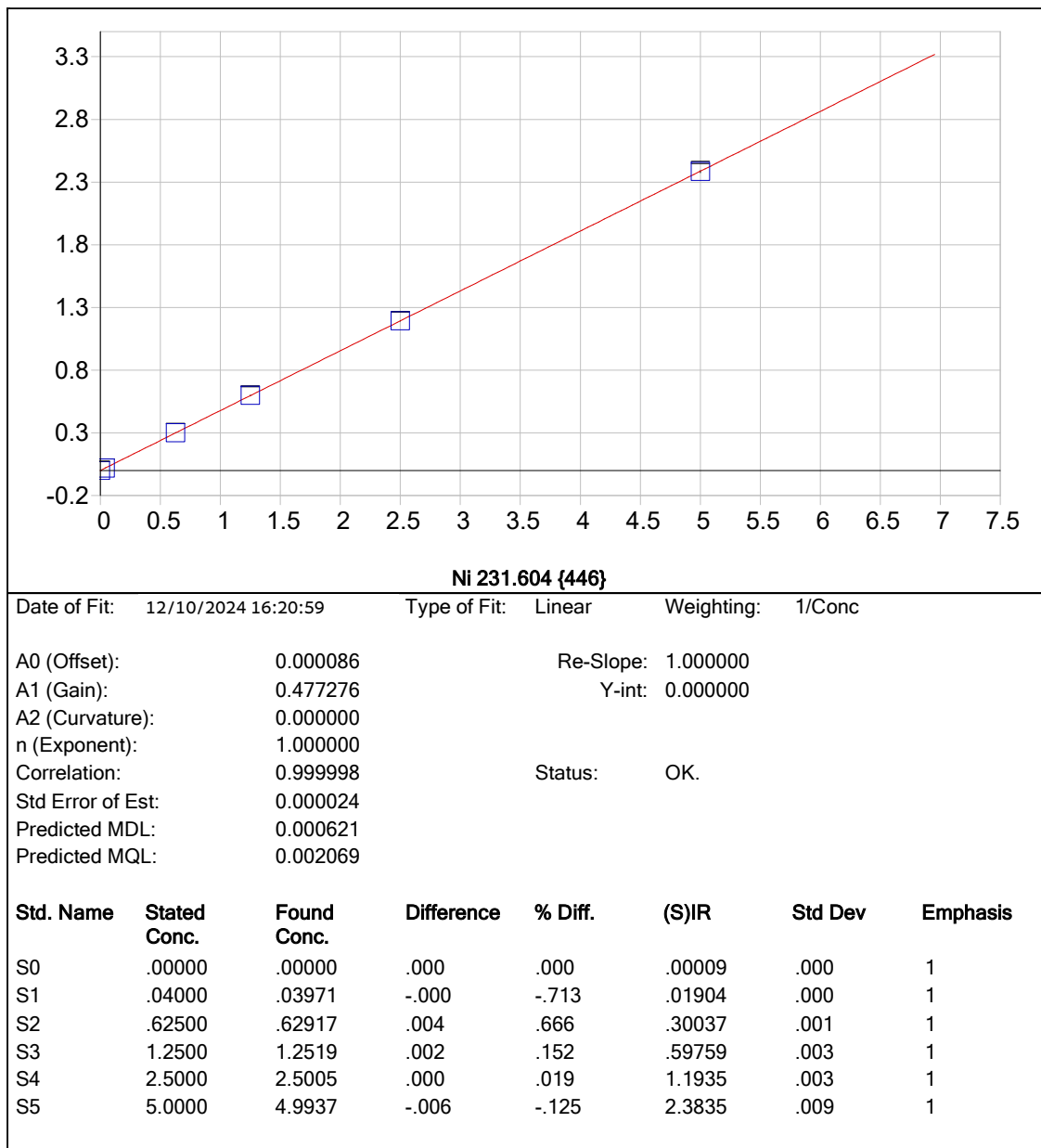


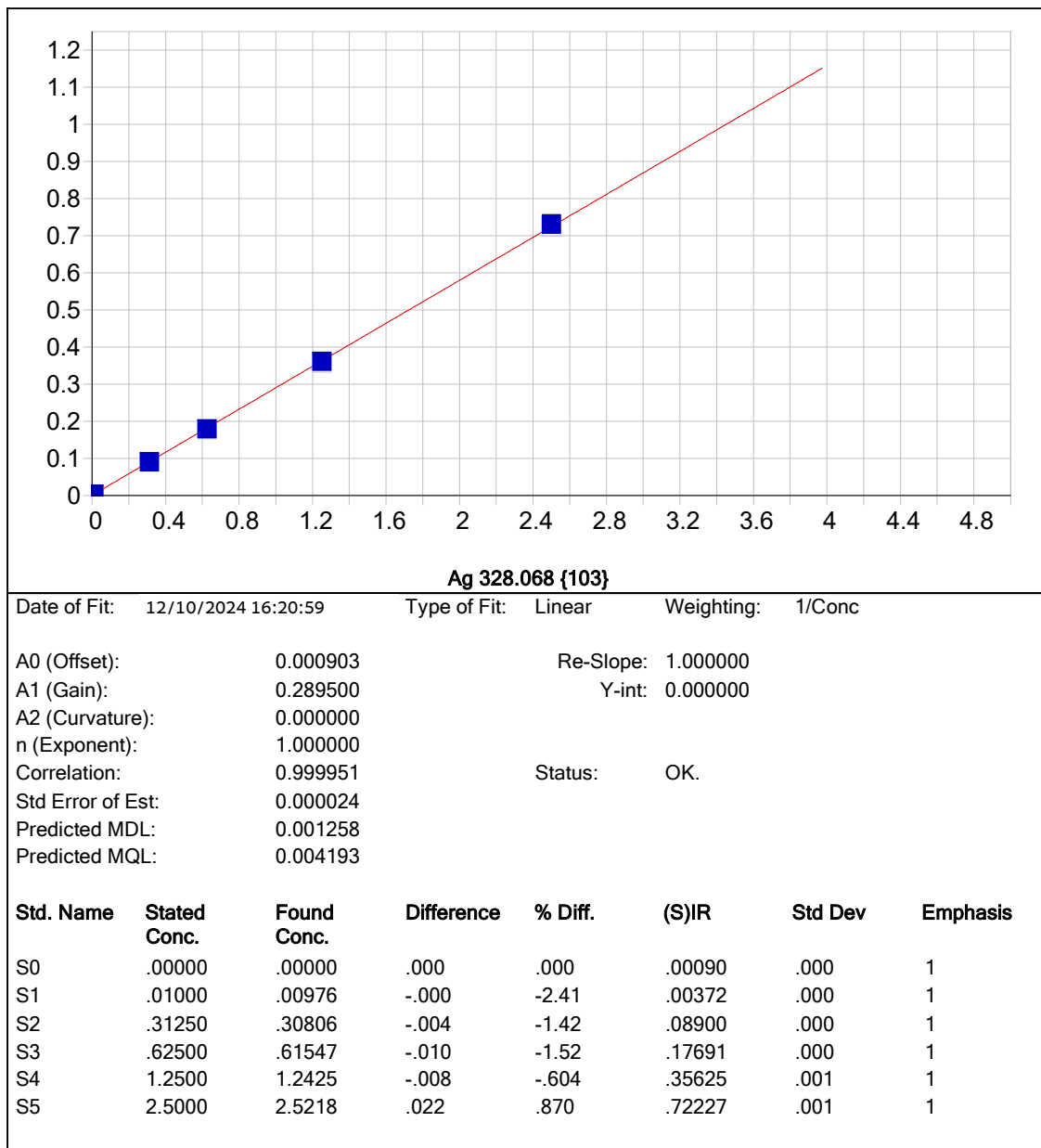


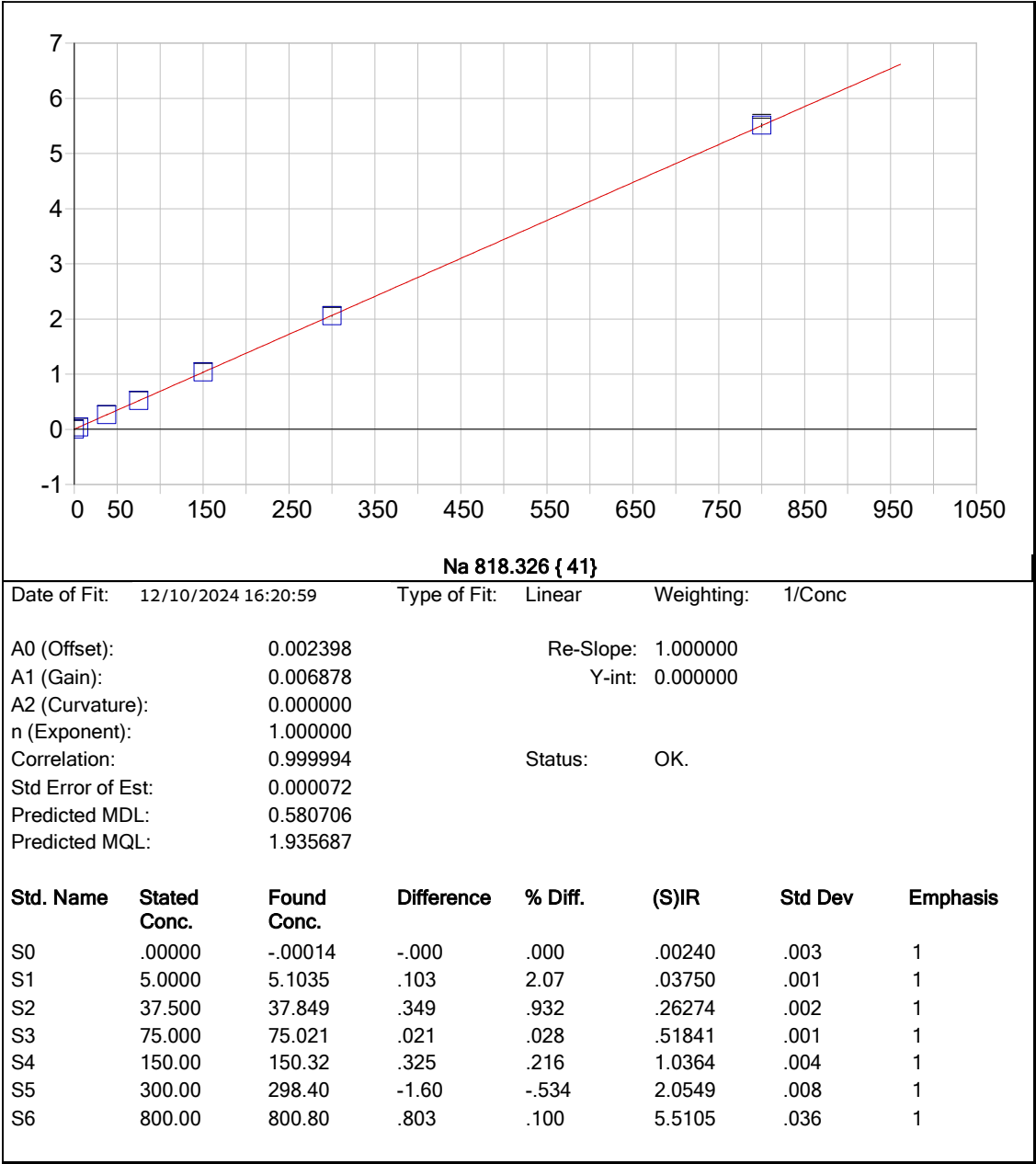


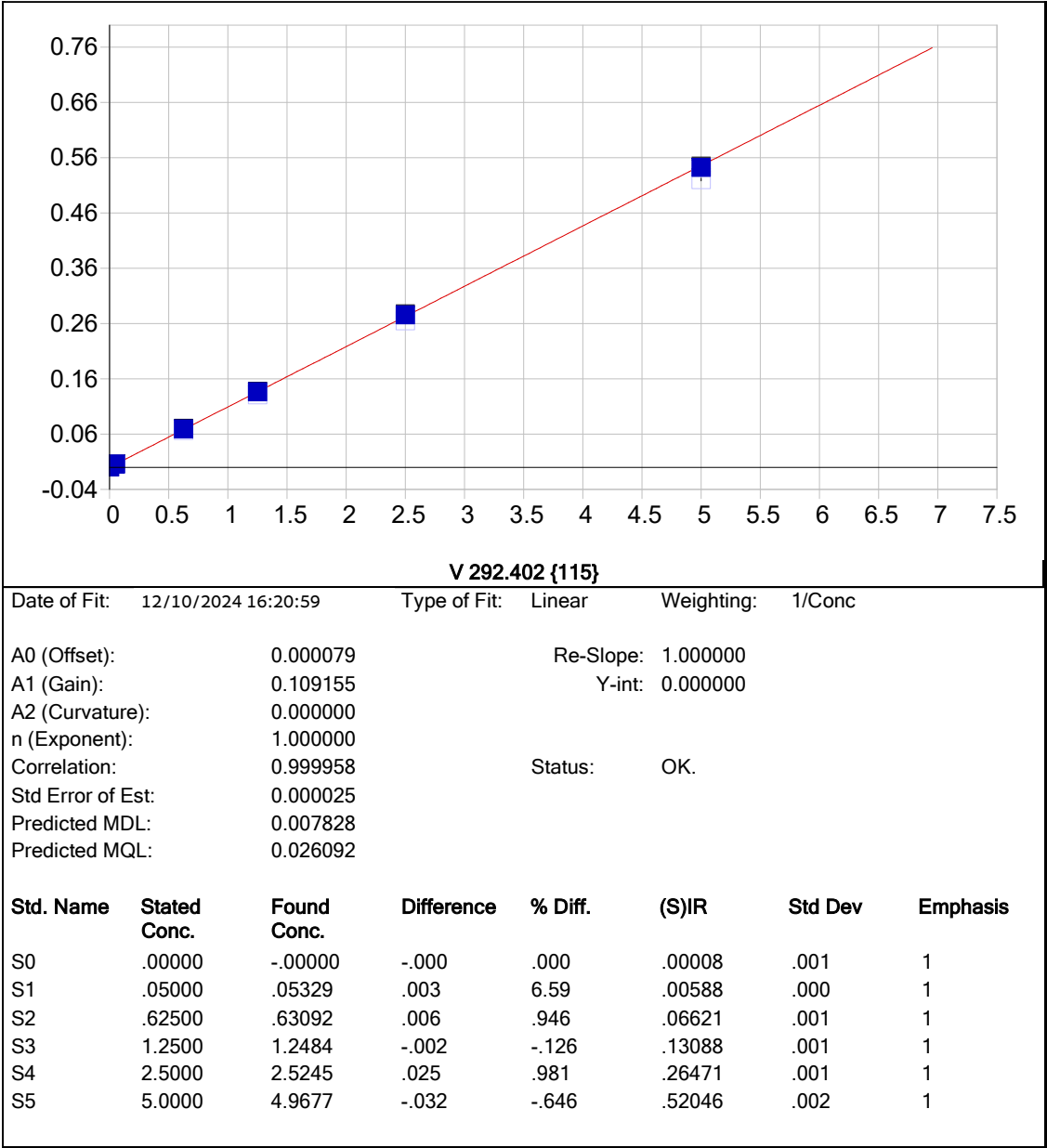


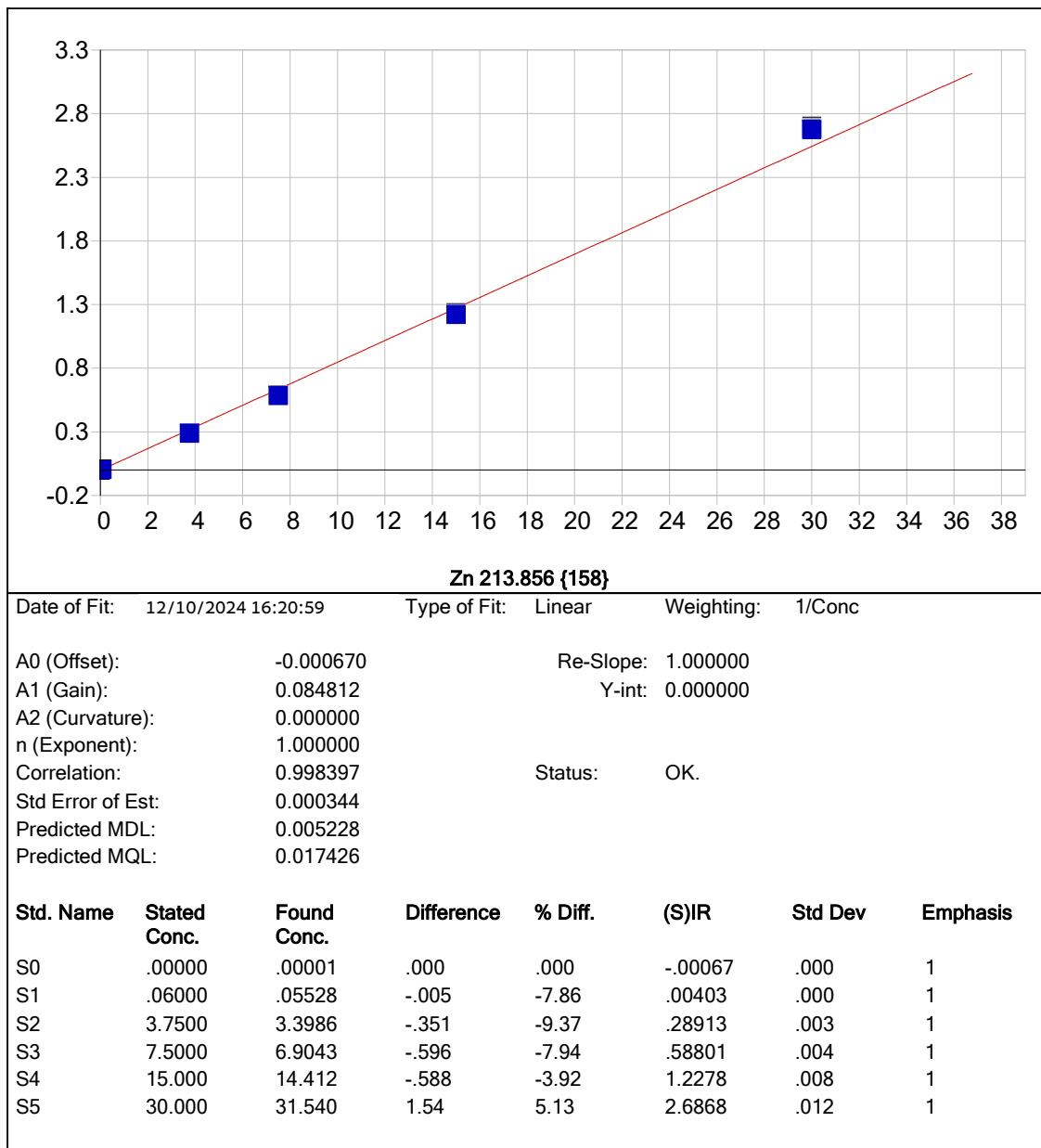


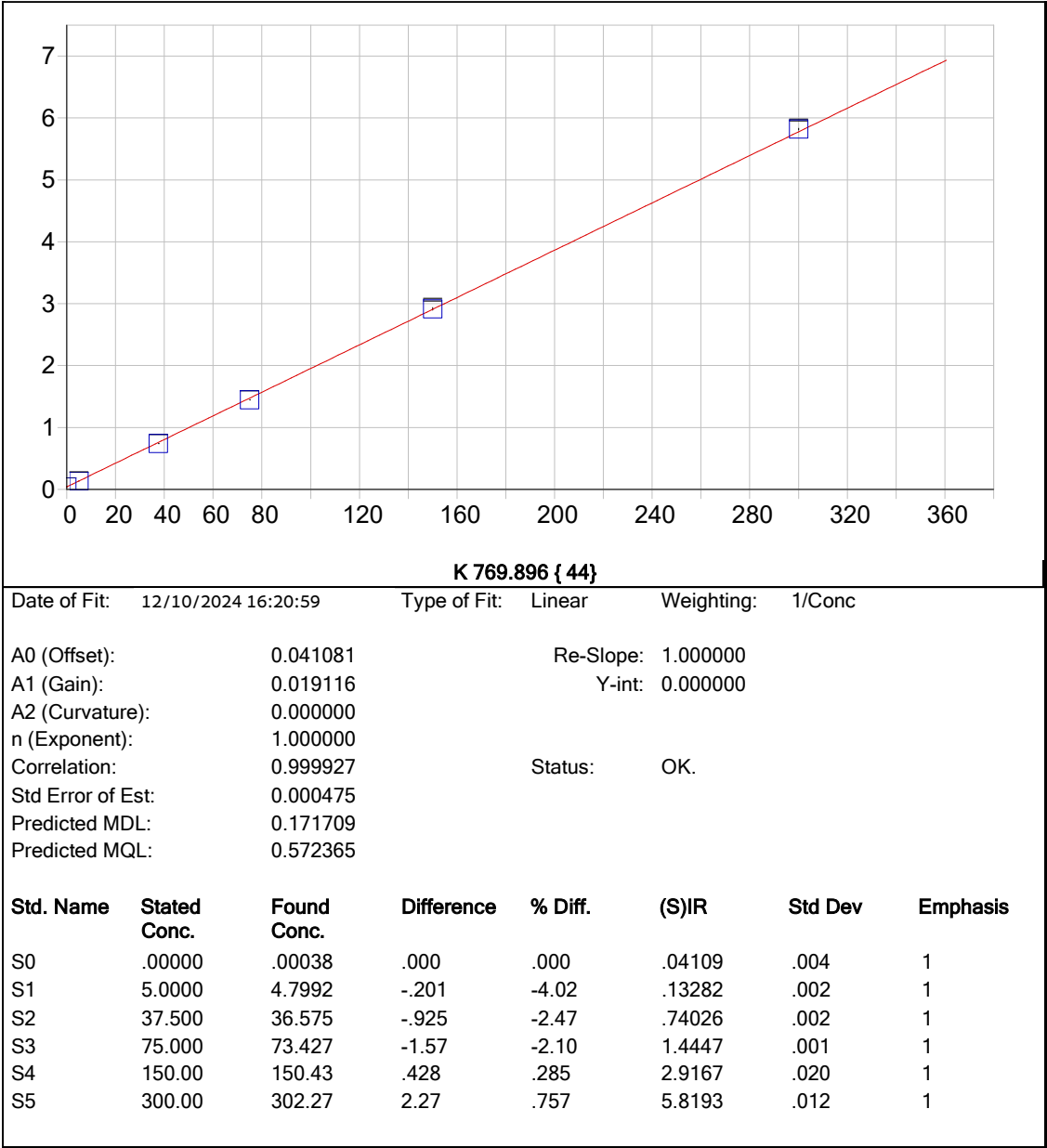


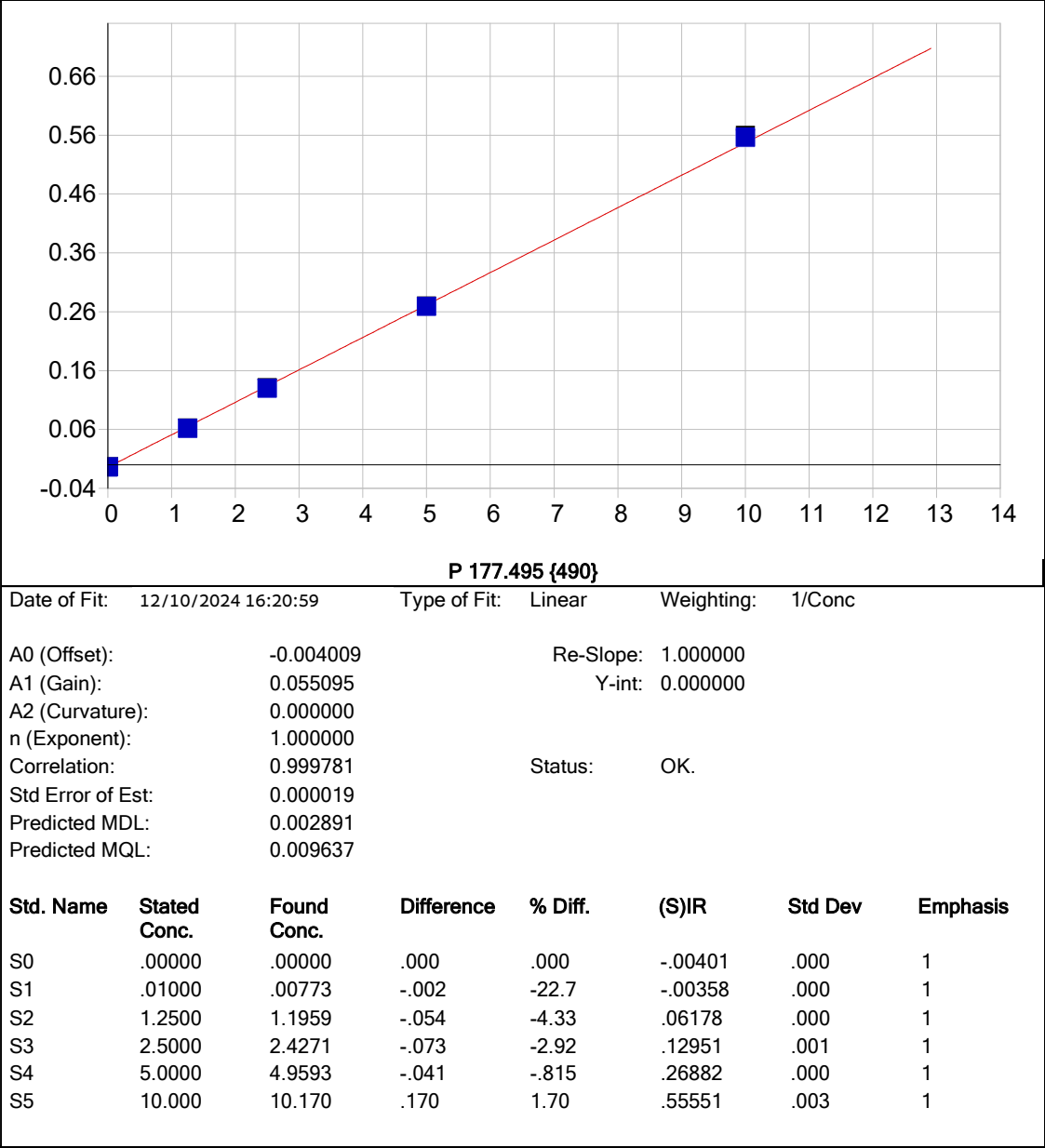


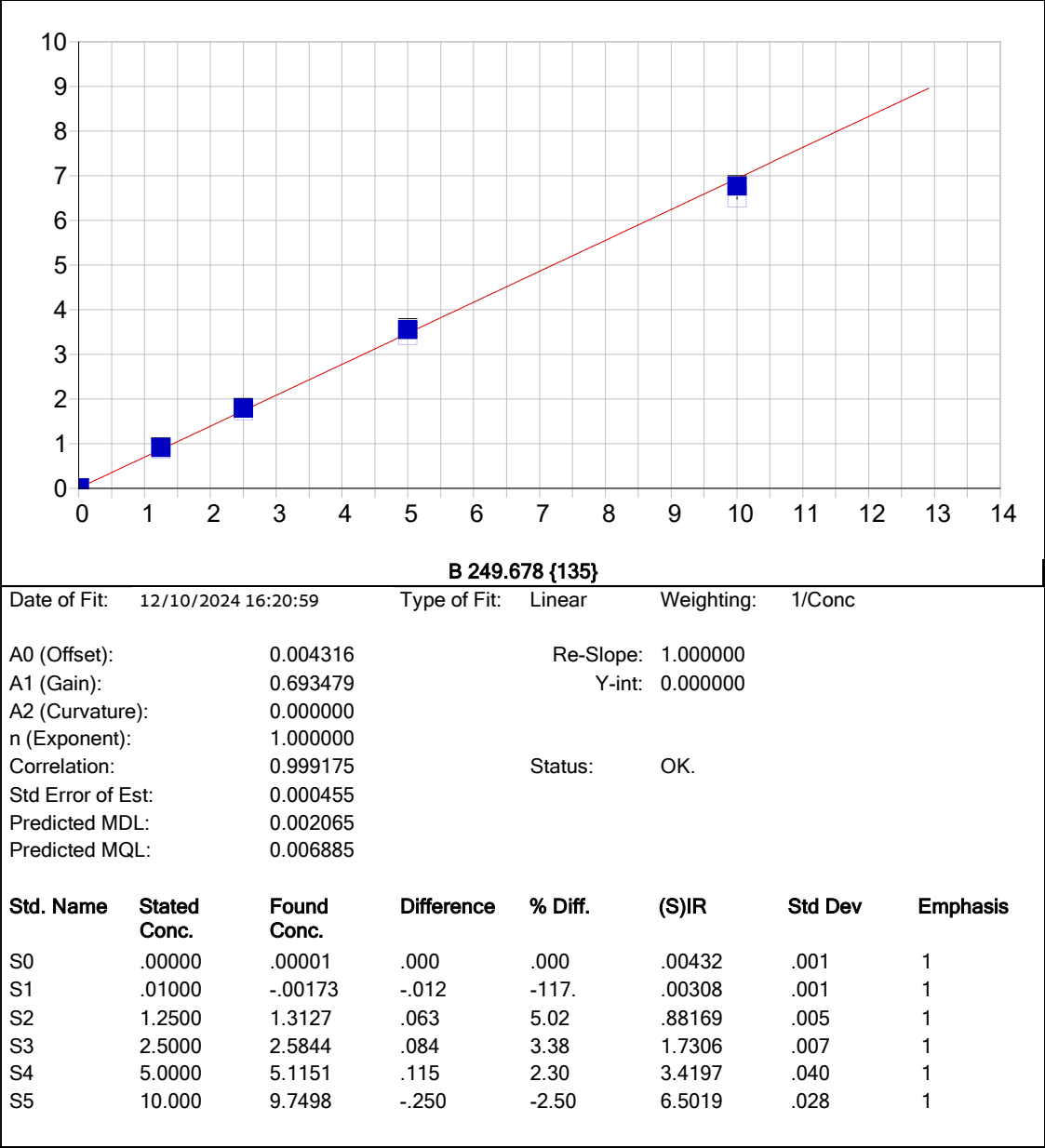




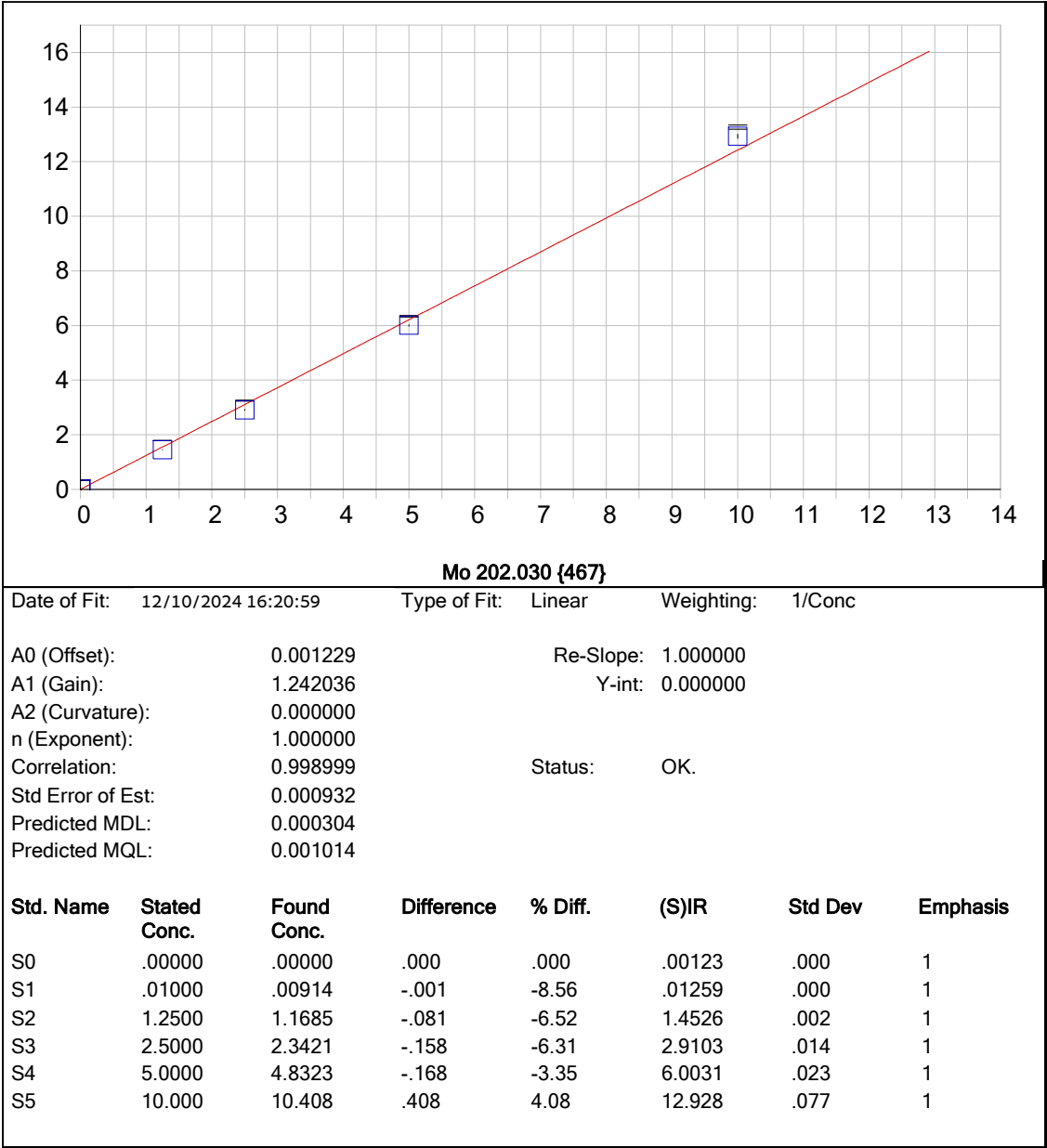


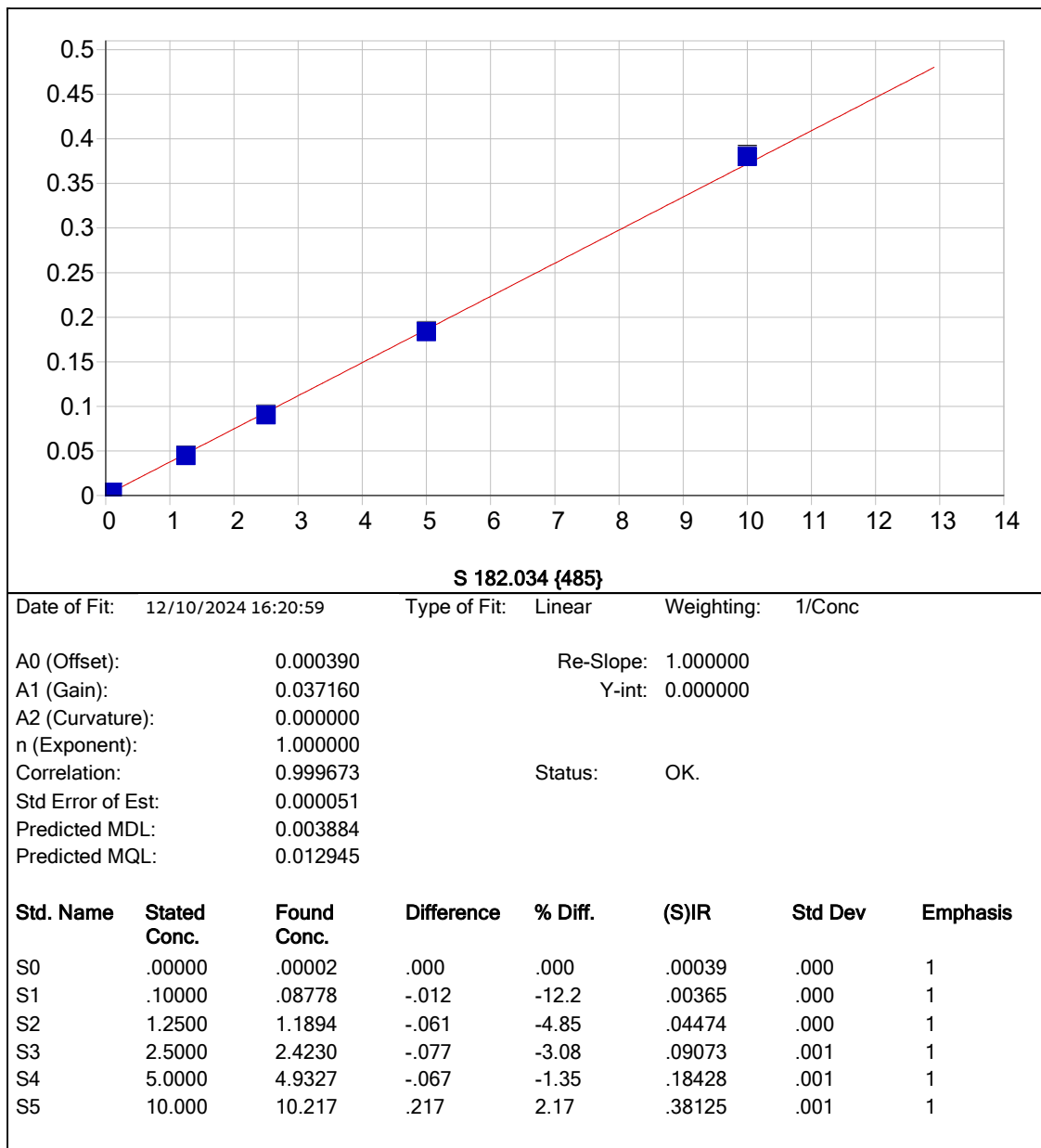


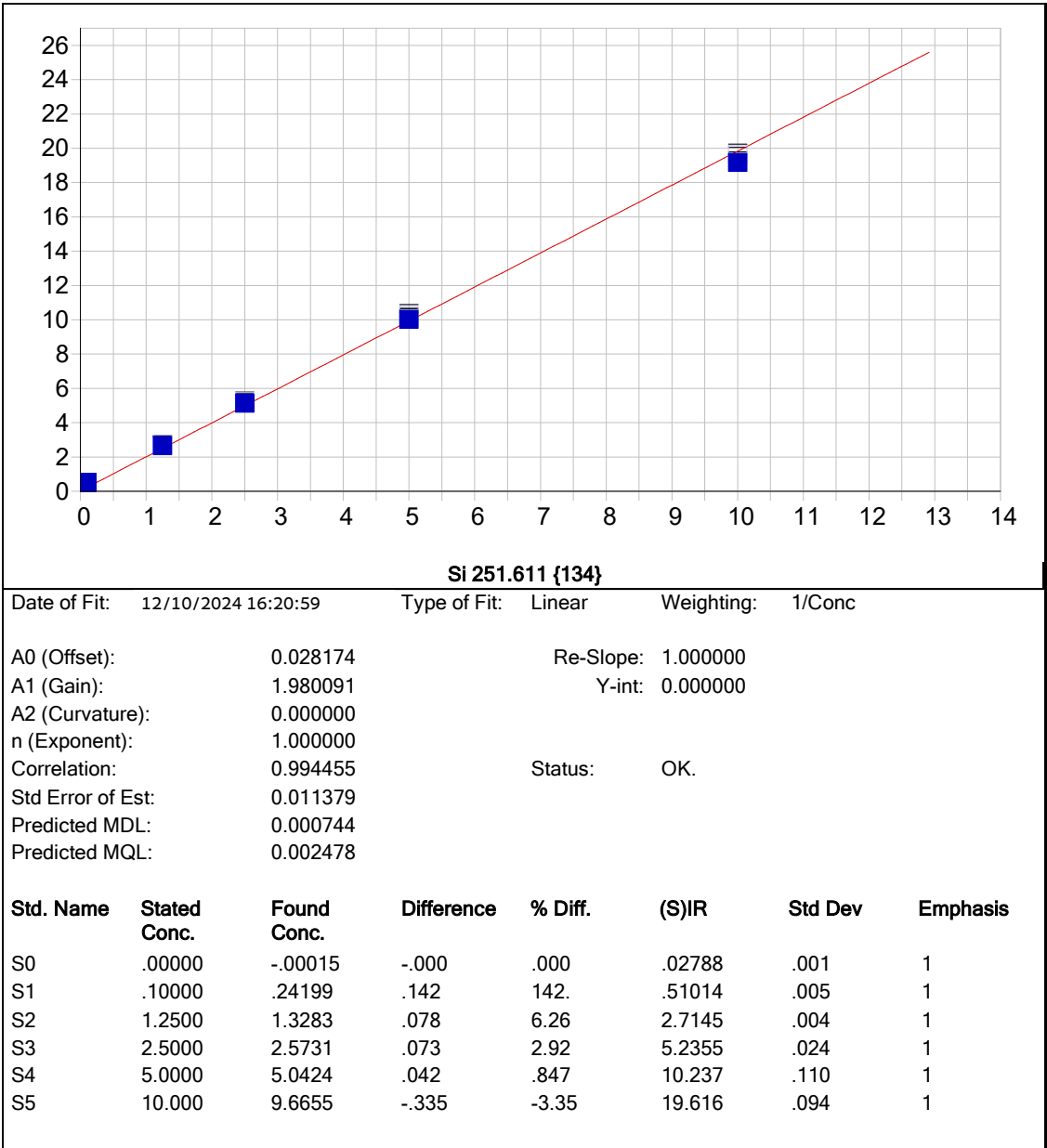


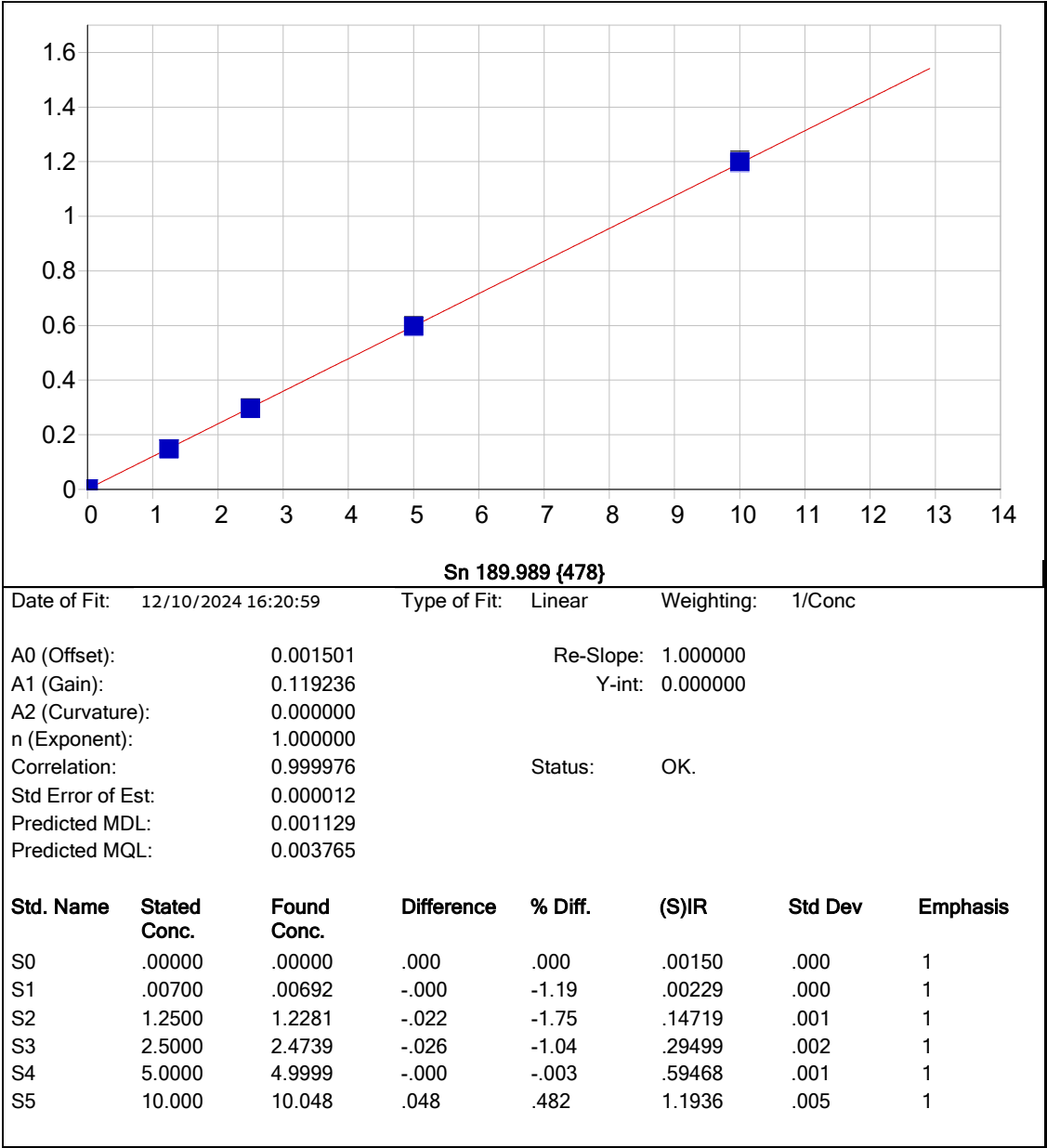


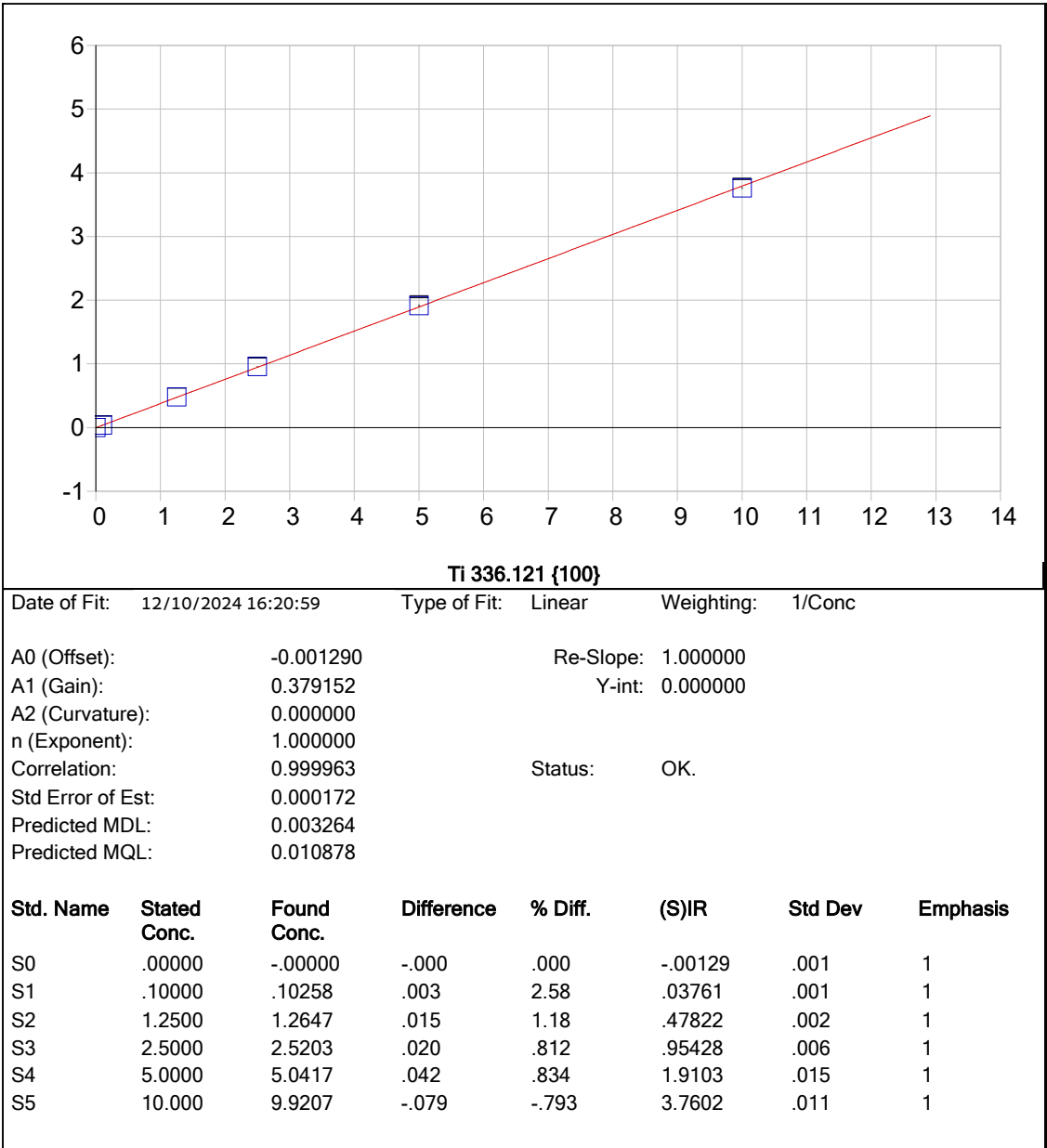


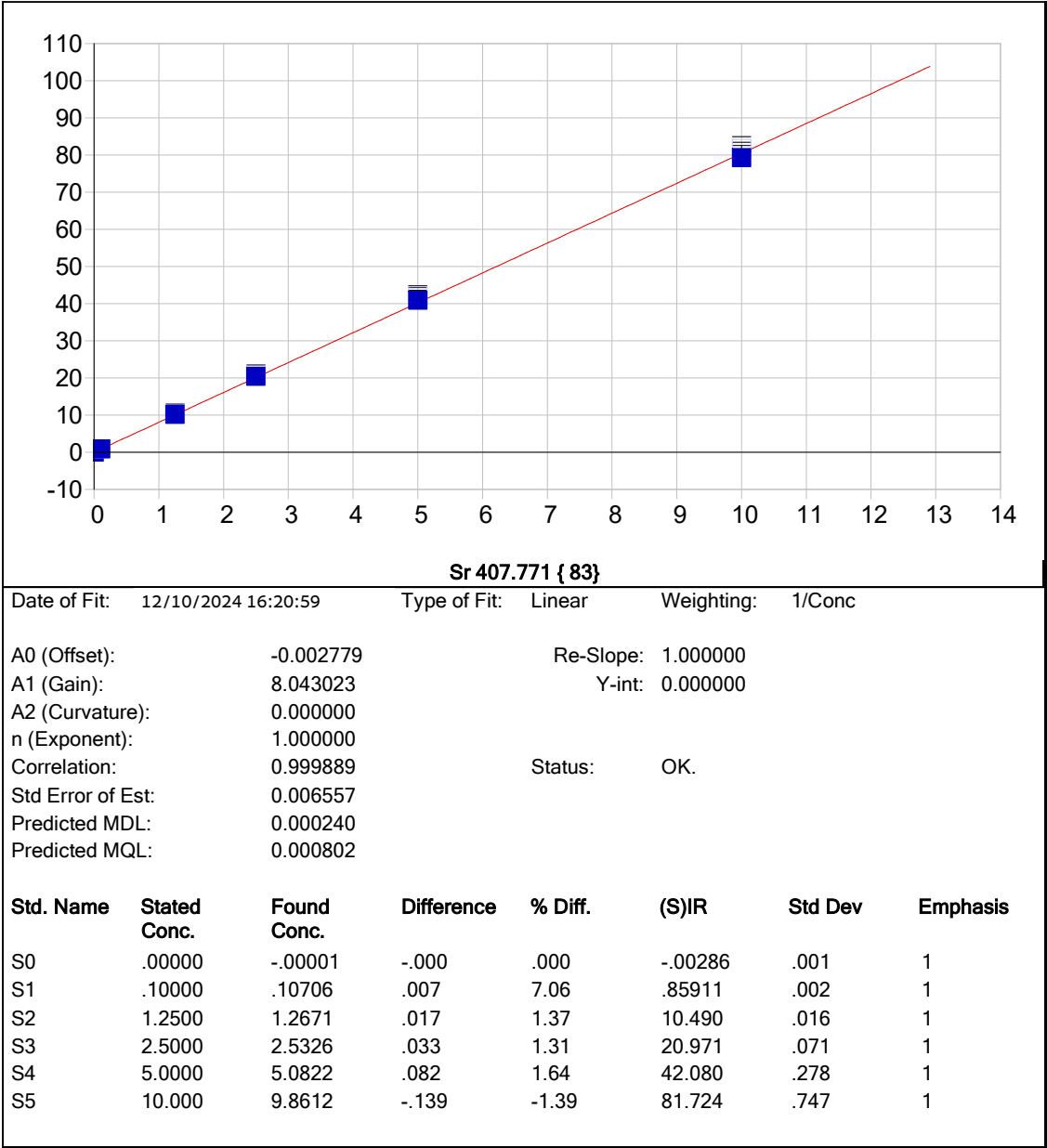


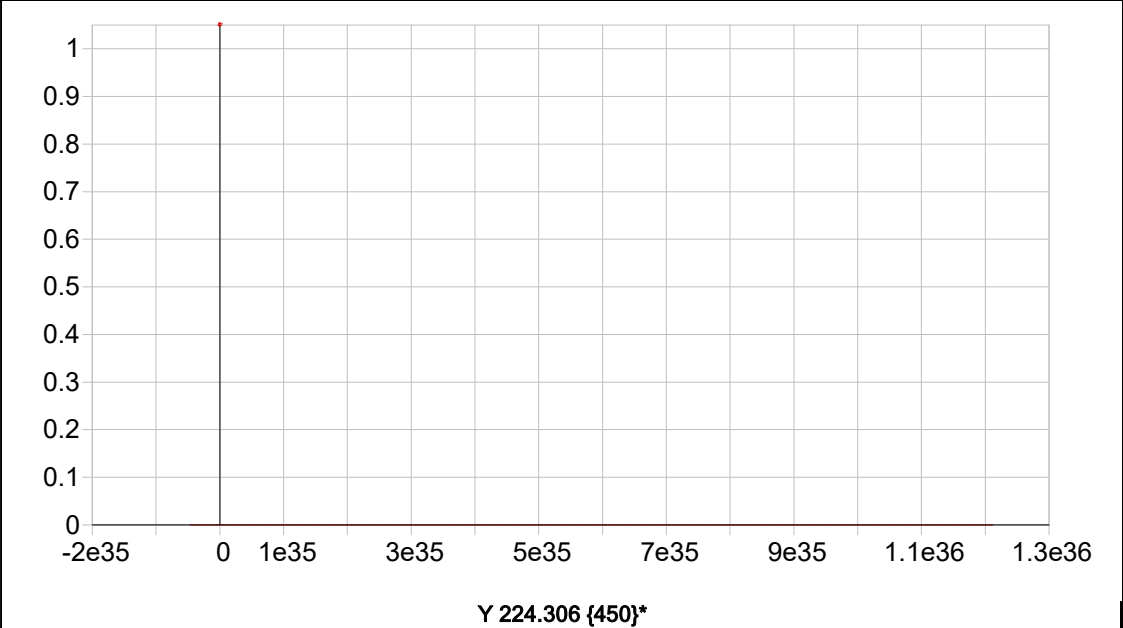




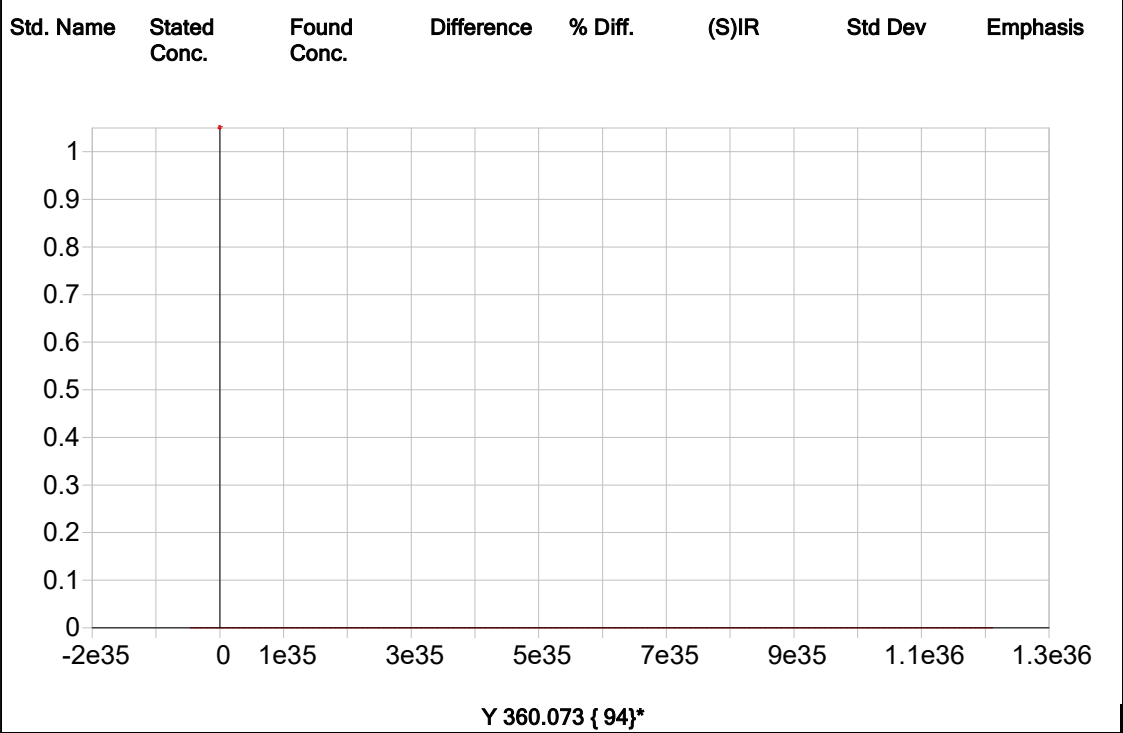


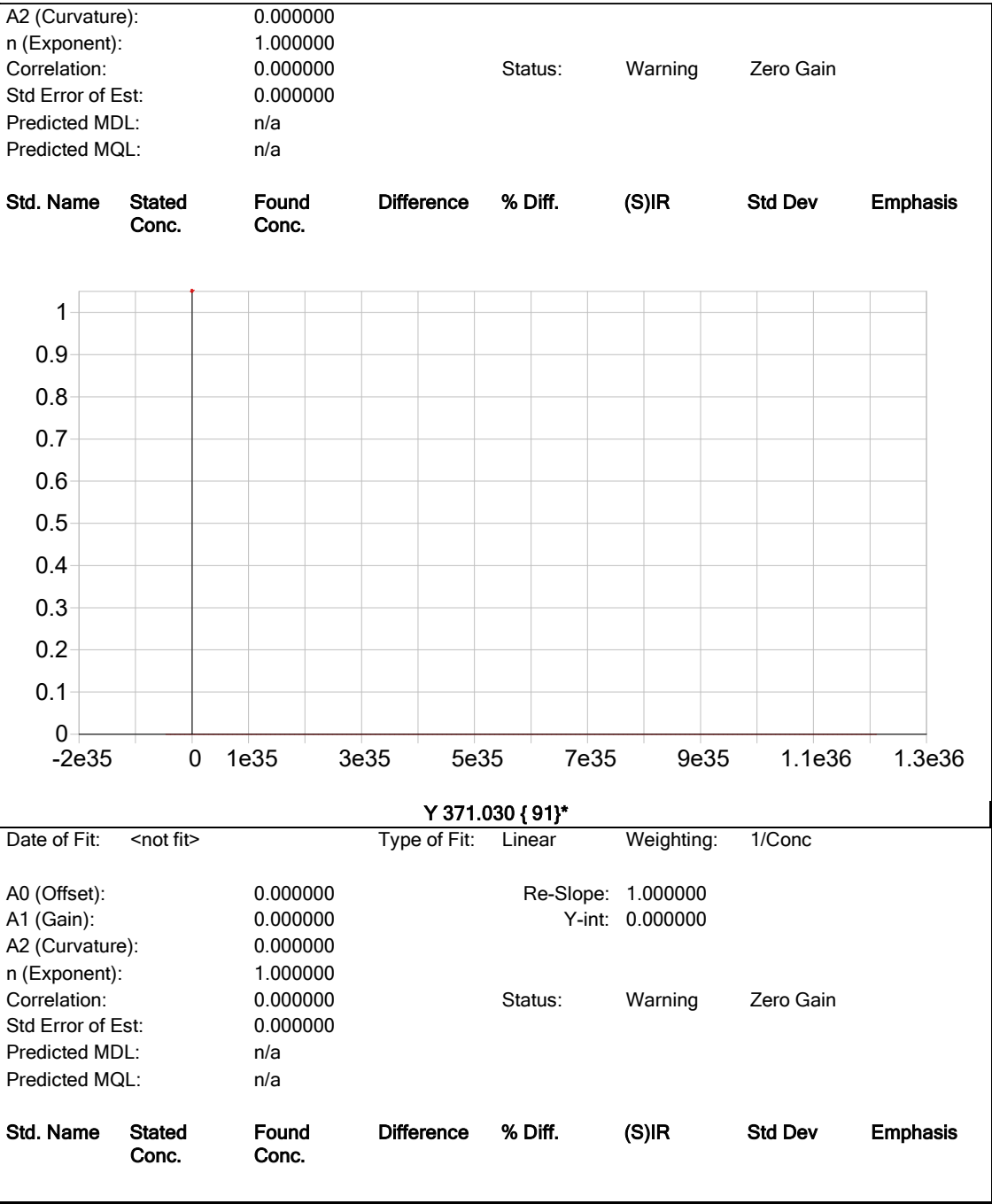




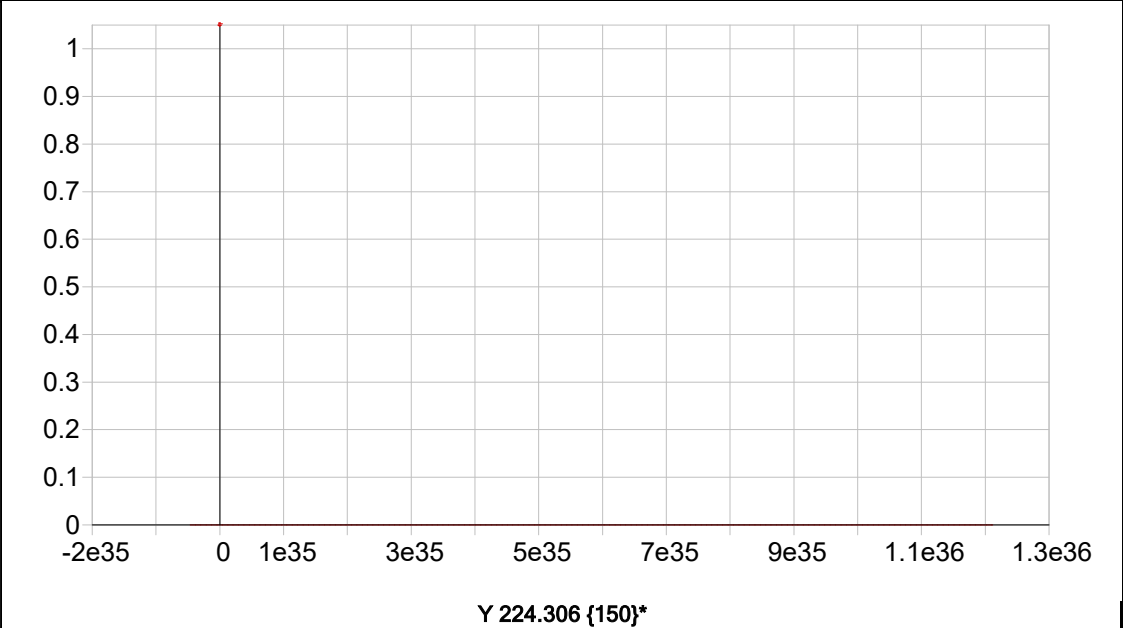


| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|-------|---------|----------|
|-----------|--------------|-------------|------------|---------|-------|---------|----------|

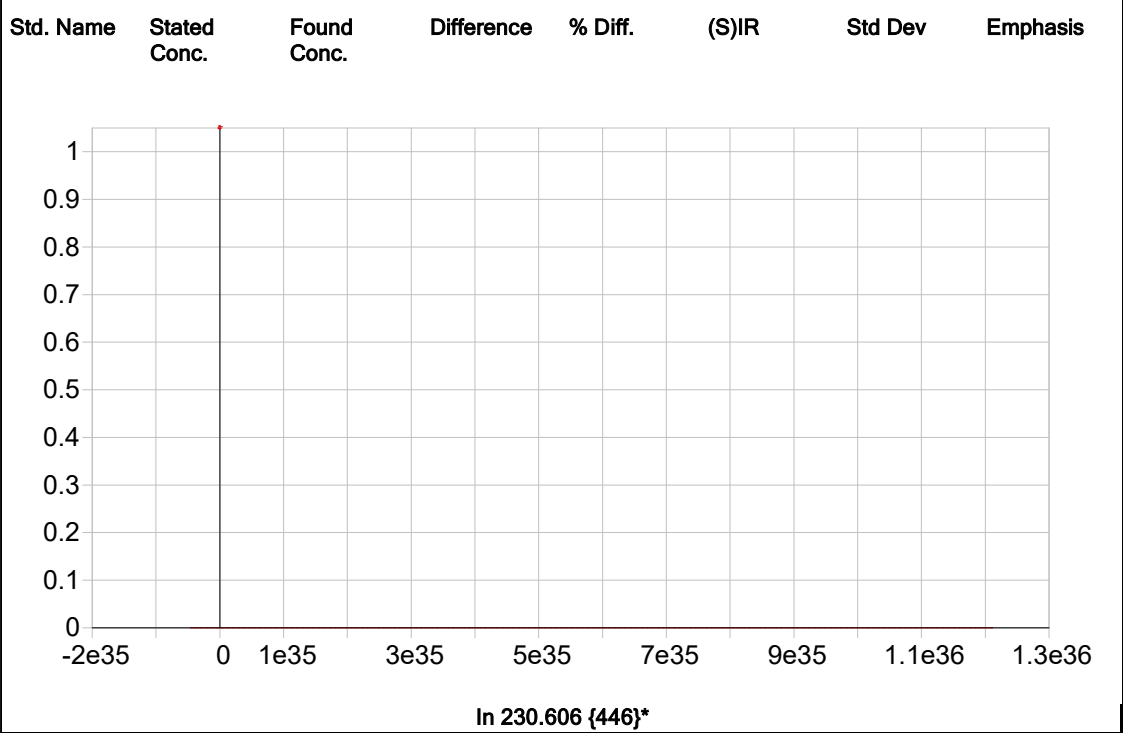


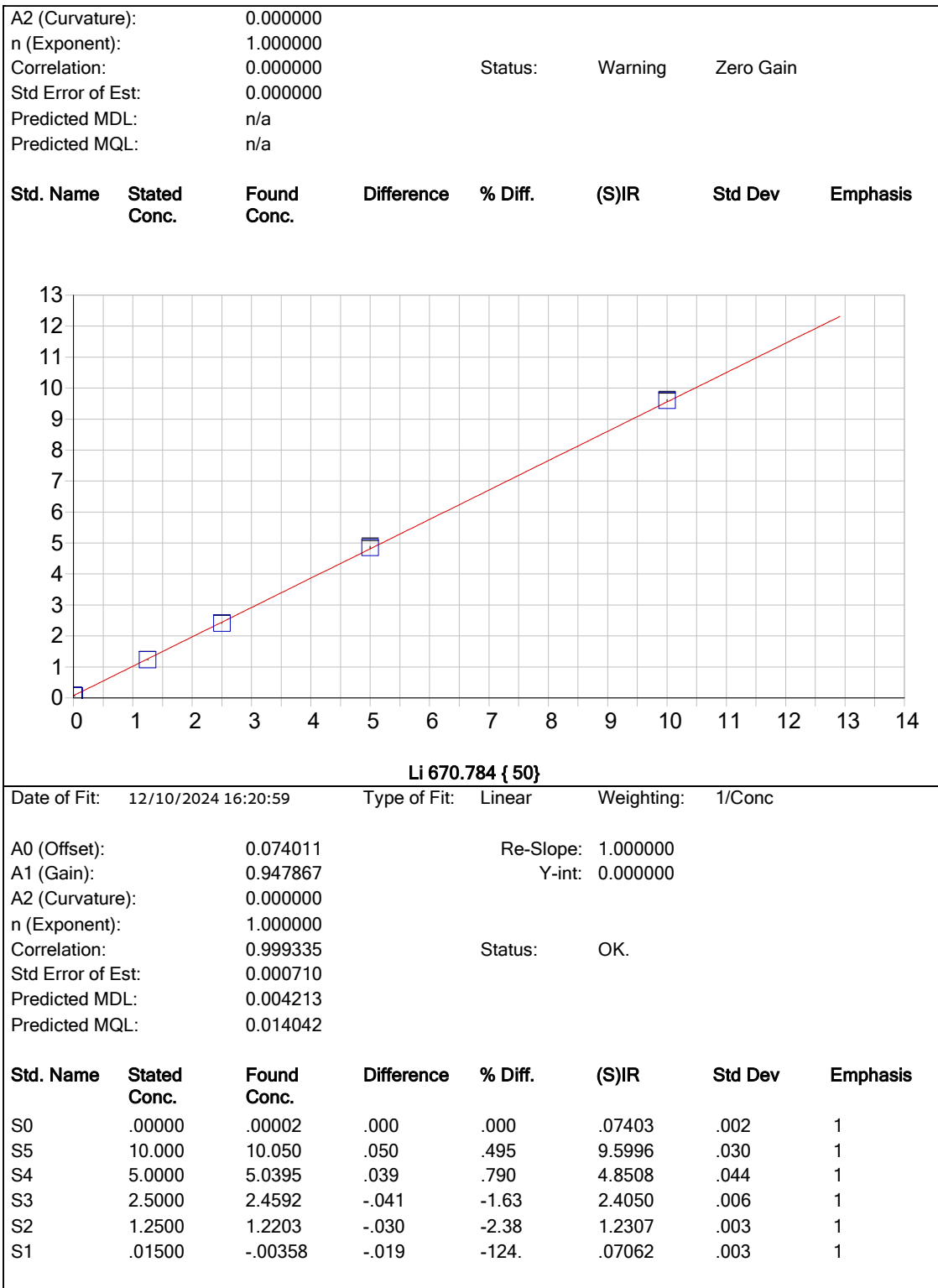






| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|-------|---------|----------|
|-----------|--------------|-------------|------------|---------|-------|---------|----------|





Sample Name: S0      Acquired: 12/10/2024 15:54:09      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S0      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | .48326  | -.00019 | .00047  | -.00021 | .00020  | -.00038 | .06088  | .00266  |
| Stddev | .48277  | .00012  | .00024  | .00028  | .00037  | .00120  | .00124  | .00106  |
| %RSD   | 99.900  | 64.400  | 49.878  | 130.58  | 187.84  | 318.94  | 2.0368  | 39.736  |
| #1     | .38681  | -.00021 | .00071  | -.00048 | .00061  | .00062  | .05993  | .00380  |
| #2     | .05599  | -.00029 | .00048  | .00007  | .00009  | -.00171 | .06229  | .00244  |
| #3     | 1.0070  | -.00006 | .00023  | -.00023 | -.00011 | -.00004 | .06043  | .00172  |
| Elem   | Cd2144  | Ca3736  | Cr2677  | Co2286  | Cu3247  | Fe2598  | Mn2576  | Mg2790  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | .00013  | .00347  | .00041  | -.00017 | .00146  | -.00002 | -.00019 | -.00031 |
| Stddev | .00004  | .00211  | .00005  | .00005  | .00053  | .00029  | .00035  | .00033  |
| %RSD   | 29.144  | 60.717  | 12.041  | 32.963  | 36.015  | 1320.0  | 179.14  | 106.80  |
| #1     | .00010  | .00527  | .00044  | -.00014 | .00200  | -.00019 | .00020  | -.00024 |
| #2     | .00012  | .00399  | .00043  | -.00013 | .00144  | .00031  | -.00030 | -.00066 |
| #3     | .00017  | .00115  | .00035  | -.00023 | .00095  | -.00019 | -.00047 | -.00002 |
| Elem   | Ni2316  | Ag3280  | Na8183  | V_2924  | Zn2138  | K_7698  | P_1774  | B_2496  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | .00009  | .00090  | .00240  | .00008  | -.00067 | .04109  | -.00401 | .00432  |
| Stddev | .00026  | .00046  | .00347  | .00115  | .00037  | .00357  | .00011  | .00056  |
| %RSD   | 302.14  | 50.599  | 144.62  | 1459.4  | 55.189  | 8.6945  | 2.6506  | 13.011  |
| #1     | .00036  | .00132  | -.00155 | -.00055 | -.00088 | .04230  | -.00392 | .00368  |
| #2     | -.00015 | .00098  | .00493  | -.00062 | -.00024 | .03707  | -.00397 | .00472  |
| #3     | .00005  | .00041  | .00382  | .00140  | -.00089 | .04390  | -.00413 | .00457  |
| Elem   | Mo2020  | S_1820  | Si2516  | Sn1899  | Ti3361  | Sr4077  | Li6707  |         |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |         |
| Avg    | .00123  | .00039  | .02788  | .00150  | -.00129 | -.00286 | .07403  |         |
| Stddev | .00019  | .00008  | .00068  | .00006  | .00111  | .00129  | .00194  |         |
| %RSD   | 15.534  | 20.405  | 2.4366  | 3.6675  | 85.967  | 45.259  | 2.6201  |         |
| #1     | .00131  | .00031  | .02713  | .00152  | -.00255 | -.00429 | .07305  |         |
| #2     | .00101  | .00047  | .02846  | .00155  | -.00045 | -.00176 | .07626  |         |
| #3     | .00137  | .00039  | .02805  | .00144  | -.00087 | -.00253 | .07277  |         |

Sample Name: S0      Acquired: 12/10/2024 15:54:09      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S0      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2501.2 | 27528. | 2637.3 | 1949.0 | 3933.2 |
| Stddev    | 5.6    | 17.    | 19.6   | 5.3    | 9.5    |
| %RSD      | .22584 | .06235 | .74159 | .27279 | .24266 |
| #1        | 2496.9 | 27508. | 2618.9 | 1953.3 | 3922.4 |
| #2        | 2507.6 | 27536. | 2635.0 | 1950.7 | 3940.4 |
| #3        | 2499.0 | 27539. | 2657.9 | 1943.1 | 3936.9 |

Sample Name: S1      Acquired: 12/10/2024 15:58:14      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | 2.5670 | .00191 | .00210 | .00226 | .00916 | .02041 | .75072  | .06379 |
| Stddev | .1280  | .00017 | .00063 | .00039 | .00015 | .00122 | .00372  | .00063 |
| %RSD   | 4.9858 | 8.6499 | 30.037 | 17.181 | 1.6841 | 5.9959 | .49558  | .99493 |
| #1     | 2.4793 | .00184 | .00160 | .00271 | .00902 | .02031 | .75343  | .06448 |
| #2     | 2.5077 | .00210 | .00281 | .00202 | .00933 | .02168 | .74648  | .06365 |
| #3     | 2.7138 | .00179 | .00189 | .00205 | .00913 | .01924 | .75225  | .06323 |
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576  | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .01439 | .25520 | .00361 | .04107 | .00536 | .00239 | .00649  | .04153 |
| Stddev | .00027 | .00157 | .00014 | .00027 | .00083 | .00071 | .00023  | .00040 |
| %RSD   | 1.8423 | .61360 | 3.8699 | .66256 | 15.416 | 29.757 | 3.5387  | .96761 |
| #1     | .01413 | .25359 | .00377 | .04110 | .00575 | .00278 | .00673  | .04199 |
| #2     | .01439 | .25529 | .00351 | .04078 | .00592 | .00157 | .00645  | .04127 |
| #3     | .01466 | .25672 | .00354 | .04132 | .00441 | .00282 | .00628  | .04132 |
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774  | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .01904 | .00372 | .03750 | .00588 | .00403 | .13282 | -.00358 | .00308 |
| Stddev | .00019 | .00028 | .00072 | .00036 | .00035 | .00192 | .00007  | .00099 |
| %RSD   | 1.0178 | 7.4286 | 1.9223 | 6.1928 | 8.7031 | 1.4425 | 2.0718  | 32.208 |
| #1     | .01926 | .00400 | .03793 | .00593 | .00443 | .13153 | -.00350 | .00370 |
| #2     | .01894 | .00344 | .03667 | .00622 | .00391 | .13191 | -.00359 | .00194 |
| #3     | .01892 | .00373 | .03790 | .00549 | .00376 | .13502 | -.00365 | .00360 |
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707  |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   |        |
| Avg    | .01259 | .00365 | .51014 | .00229 | .03761 | .85911 | .07062  |        |
| Stddev | .00010 | .00009 | .00508 | .00002 | .00105 | .00190 | .00269  |        |
| %RSD   | .75885 | 2.4433 | .99499 | 1.0777 | 2.8035 | .22084 | 3.8144  |        |
| #1     | .01260 | .00355 | .51113 | .00228 | .03858 | .85694 | .07035  |        |
| #2     | .01267 | .00373 | .51465 | .00232 | .03649 | .85993 | .07343  |        |
| #3     | .01248 | .00367 | .50465 | .00227 | .03774 | .86046 | .06806  |        |

Sample Name: S1      Acquired: 12/10/2024 15:58:14      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2509.7 | 27575. | 2653.6 | 1962.1 | 3927.2 |
| Stddev    | .9     | 123.   | 7.4    | 4.7    | 1.0    |
| %RSD      | .03740 | .44685 | .27852 | .23940 | .02493 |
| #1        | 2509.9 | 27674. | 2661.1 | 1964.0 | 3928.3 |
| #2        | 2508.7 | 27614. | 2646.3 | 1956.7 | 3926.3 |
| #3        | 2510.5 | 27437. | 2653.4 | 1965.5 | 3927.1 |

Sample Name: S2      Acquired: 12/10/2024 16:02:21      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S02      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 254.56 | .10834 | 1.1255 | .08133 | .19664 | 3.7537 | 8.4622 | 1.4766 |
| Stddev | .08    | .00031 | .0030  | .00019 | .00048 | .0149  | .0195  | .0069  |
| %RSD   | .03026 | .28234 | .26404 | .23935 | .24642 | .39689 | .23027 | .46815 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 254.56 | .10820 | 1.1265 | .08116 | .19652 | 3.7697 | 8.4832 | 1.4707 |
| #2 | 254.49 | .10813 | 1.1221 | .08154 | .19623 | 3.7402 | 8.4586 | 1.4749 |
| #3 | 254.64 | .10869 | 1.1278 | .08129 | .19717 | 3.7512 | 8.4447 | 1.4842 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.8941 | 3.1300 | 1.2491 | .51786 | .53716 | .74488 | 1.5729 | .53720 |
| Stddev | .0041  | .0111  | .0024  | .00121 | .00113 | .00030 | .0062  | .00204 |
| %RSD   | .21689 | .35552 | .18824 | .23459 | .21024 | .04029 | .39649 | .38050 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.8978 | 3.1420 | 1.2518 | .51869 | .53774 | .74490 | 1.5795 | .53941 |
| #2 | 1.8897 | 3.1281 | 1.2478 | .51647 | .53586 | .74517 | 1.5671 | .53538 |
| #3 | 1.8949 | 3.1200 | 1.2476 | .51843 | .53788 | .74457 | 1.5722 | .53680 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .30037 | .08900 | .26274 | .06621 | .28913 | .74026 | .06178 | .88169 |
| Stddev | .00071 | .00019 | .00173 | .00117 | .00279 | .00153 | .00019 | .00504 |
| %RSD   | .23769 | .20995 | .65934 | 1.7672 | .96480 | .20698 | .30830 | .57178 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .30078 | .08879 | .26191 | .06489 | .28910 | .73919 | .06199 | .88025 |
| #2 | .29955 | .08910 | .26157 | .06662 | .29193 | .74201 | .06163 | .87753 |
| #3 | .30079 | .08912 | .26473 | .06712 | .28635 | .73956 | .06171 | .88730 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.4526 | .04474 | 2.7145 | .14719 | .47822 | 10.490 | 1.2307 |
| Stddev | .0016  | .00012 | .0042  | .00060 | .00152 | .016   | .0034  |
| %RSD   | .11095 | .26988 | .15405 | .40519 | .31731 | .15324 | .27959 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.4533 | .04470 | 2.7122 | .14735 | .47700 | 10.506 | 1.2335 |
| #2 | 1.4508 | .04464 | 2.7119 | .14653 | .47992 | 10.474 | 1.2317 |
| #3 | 1.4538 | .04487 | 2.7193 | .14769 | .47774 | 10.490 | 1.2269 |

Sample Name: S2      Acquired: 12/10/2024 16:02:21      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S02      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2429.4 | 26726. | 2665.3 | 1876.0 | 3609.8 |
| Stddev    | 4.7    | 185.   | 5.8    | 12.9   | 11.1   |
| %RSD      | .19324 | .69151 | .21680 | .68746 | .30805 |
| #1        | 2428.5 | 26627. | 2668.1 | 1875.5 | 3604.0 |
| #2        | 2434.5 | 26612. | 2658.7 | 1863.4 | 3622.6 |
| #3        | 2425.3 | 26939. | 2669.2 | 1889.2 | 3602.7 |



Sample Name: S3      Acquired: 12/10/2024 16:06:12      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S03      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 489.60 | .21402 | 2.2442 | .16236 | .39485 | 7.4705 | 16.826 | 2.8922 |
| Stddev | 1.23   | .00182 | .0128  | .00045 | .00171 | .0039  | .023   | .0127  |
| %RSD   | .25036 | .84884 | .56973 | .27960 | .43185 | .05222 | .13471 | .43786 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 488.46 | .21367 | 2.2373 | .16229 | .39417 | 7.4697 | 16.852 | 2.8860 |
| #2 | 489.44 | .21241 | 2.2363 | .16195 | .39358 | 7.4670 | 16.816 | 2.9068 |
| #3 | 490.90 | .21599 | 2.2589 | .16285 | .39678 | 7.4747 | 16.810 | 2.8839 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 3.7702 | 6.1864 | 2.4557 | 1.0218 | 1.0618 | 1.4714 | 3.1050 | 1.0658 |
| Stddev | .0215  | .0116  | .0047  | .0058  | .0033  | .0022  | .0165  | .0033  |
| %RSD   | .56904 | .18671 | .19022 | .56656 | .31054 | .14865 | .53063 | .31310 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 3.7599 | 6.1996 | 2.4513 | 1.0194 | 1.0652 | 1.4712 | 3.1193 | 1.0696 |
| #2 | 3.7558 | 6.1780 | 2.4553 | 1.0177 | 1.0586 | 1.4736 | 3.1087 | 1.0635 |
| #3 | 3.7948 | 6.1817 | 2.4606 | 1.0285 | 1.0616 | 1.4693 | 3.0870 | 1.0641 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .59759 | .17691 | .51841 | .13088 | .58801 | 1.4447 | .12951 | 1.7306 |
| Stddev | .00320 | .00035 | .00073 | .00078 | .00369 | .0012  | .00071 | .0073  |
| %RSD   | .53621 | .19932 | .14074 | .59814 | .62743 | .08604 | .55161 | .42384 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .59640 | .17650 | .51908 | .13097 | .59190 | 1.4434 | .12947 | 1.7280 |
| #2 | .59515 | .17709 | .51763 | .13162 | .58456 | 1.4459 | .12882 | 1.7389 |
| #3 | .60122 | .17714 | .51852 | .13006 | .58758 | 1.4449 | .13025 | 1.7250 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.9103 | .09073 | 5.2355 | .29499 | .95428 | 20.971 | 2.4050 |
| Stddev | .0136  | .00063 | .0236  | .00222 | .00638 | .071   | .0062  |
| %RSD   | .46715 | .69329 | .45143 | .75379 | .66845 | .33931 | .25911 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.9058 | .09068 | 5.2162 | .29389 | .95926 | 21.051 | 2.4115 |
| #2 | 2.8994 | .09012 | 5.2618 | .29352 | .95650 | 20.916 | 2.3991 |
| #3 | 2.9255 | .09137 | 5.2284 | .29754 | .94709 | 20.944 | 2.4046 |

Sample Name: S3      Acquired: 12/10/2024 16:06:12      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S03      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2318.5 | 25853. | 2623.8 | 1790.1 | 3419.0 |
| Stddev    | 7.4    | 115.   | 2.2    | 5.1    | 11.9   |
| %RSD      | .31714 | .44456 | .08393 | .28644 | .34923 |
| #1        | 2313.6 | 25829. | 2626.3 | 1789.0 | 3413.6 |
| #2        | 2327.0 | 25978. | 2623.0 | 1795.7 | 3432.6 |
| #3        | 2315.0 | 25752. | 2622.1 | 1785.7 | 3410.6 |

Sample Name: S4      Acquired: 12/10/2024 16:09:58      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S04      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 944.72 | .42181 | 4.5376 | .32829 | .81586 | 15.131 | 34.006 | 5.7813 |
| Stddev | 1.80   | .00078 | .0079  | .00128 | .00332 | .123   | .241   | .0758  |
| %RSD   | .19009 | .18552 | .17397 | .39109 | .40704 | .81339 | .70942 | 1.3106 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 944.22 | .42100 | 4.5402 | .32831 | .81678 | 15.073 | 33.908 | 5.8105 |
| #2 | 943.22 | .42188 | 4.5288 | .32699 | .81218 | 15.048 | 33.829 | 5.6953 |
| #3 | 946.71 | .42256 | 4.5439 | .32956 | .81863 | 15.273 | 34.281 | 5.8381 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 7.5297 | 12.285 | 4.8339 | 2.0331 | 2.1206 | 2.9284 | 6.1376 | 2.1220 |
| Stddev | .0122  | .093   | .0036  | .0053  | .0140  | .0241  | .0445  | .0173  |
| %RSD   | .16215 | .75744 | .07469 | .25818 | .65818 | .82304 | .72550 | .81736 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 7.5269 | 12.217 | 4.8381 | 2.0333 | 2.1098 | 2.9152 | 6.0999 | 2.1102 |
| #2 | 7.5192 | 12.246 | 4.8322 | 2.0278 | 2.1157 | 2.9138 | 6.1261 | 2.1138 |
| #3 | 7.5431 | 12.391 | 4.8315 | 2.0383 | 2.1364 | 2.9562 | 6.1867 | 2.1419 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.1935 | .35625 | 1.0364 | .26471 | 1.2278 | 2.9167 | .26882 | 3.4197 |
| Stddev | .0027  | .00077 | .0039  | .00143 | .0081  | .0201  | .00022 | .0405  |
| %RSD   | .23021 | .21729 | .37541 | .53922 | .66355 | .68840 | .08068 | 1.1836 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.1920 | .35712 | 1.0354 | .26412 | 1.2205 | 2.9066 | .26861 | 3.4295 |
| #2 | 1.1919 | .35601 | 1.0330 | .26367 | 1.2366 | 2.9036 | .26881 | 3.3752 |
| #3 | 1.1967 | .35563 | 1.0407 | .26634 | 1.2263 | 2.9398 | .26904 | 3.4544 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 6.0031 | .18428 | 10.237 | .59468 | 1.9103 | 42.080 | 4.8508 |
| Stddev | .0228  | .00050 | .110   | .00069 | .0152  | .278   | .0442  |
| %RSD   | .37948 | .27380 | 1.0782 | .11587 | .79550 | .66176 | .91153 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 6.0066 | .18408 | 10.269 | .59472 | 1.8957 | 41.839 | 4.8250 |
| #2 | 5.9788 | .18391 | 10.114 | .59397 | 1.9092 | 42.017 | 4.8255 |
| #3 | 6.0240 | .18486 | 10.328 | .59535 | 1.9260 | 42.385 | 4.9018 |

Sample Name: S4      Acquired: 12/10/2024 16:09:58      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S04      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2160.1 | 25097. | 2564.8 | 1657.9 | 3226.8 |
| Stddev    | 5.9    | 53.    | 25.0   | 2.4    | 3.0    |
| %RSD      | .27344 | .20957 | .97288 | .14522 | .09243 |
| #1        | 2159.0 | 25136. | 2561.9 | 1656.6 | 3228.1 |
| #2        | 2166.5 | 25037. | 2591.0 | 1656.4 | 3228.9 |
| #3        | 2154.9 | 25118. | 2541.4 | 1660.6 | 3223.4 |

Sample Name: S5      Acquired: 12/10/2024 16:13:43      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S05      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1824.5 | .82865 | 9.1294 | .69817 | 1.7790 | 30.149 | 67.042 | 11.249 |
| Stddev | 4.4    | .00349 | .0383  | .00366 | .0097  | .078   | .218   | .057   |
| %RSD   | .24207 | .42158 | .41963 | .52426 | .54637 | .25954 | .32471 | .51089 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1819.6 | .82569 | 9.1000 | .69554 | 1.7715 | 30.064 | 66.792 | 11.297 |
| #2 | 1828.2 | .82776 | 9.1155 | .69661 | 1.7754 | 30.165 | 67.141 | 11.185 |
| #3 | 1825.7 | .83250 | 9.1728 | .70235 | 1.7900 | 30.218 | 67.193 | 11.265 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 14.988 | 23.958 | 9.4675 | 4.0571 | 4.1714 | 5.6766 | 11.979 | 4.1669 |
| Stddev | .066   | .041   | .0072  | .0180  | .0049  | .0114  | .034   | .0162  |
| %RSD   | .43785 | .16921 | .07595 | .44320 | .11775 | .20046 | .28573 | .38795 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 14.946 | 23.914 | 9.4617 | 4.0482 | 4.1714 | 5.6658 | 11.966 | 4.1572 |
| #2 | 14.955 | 23.967 | 9.4755 | 4.0454 | 4.1664 | 5.6885 | 11.954 | 4.1580 |
| #3 | 15.064 | 23.993 | 9.4653 | 4.0778 | 4.1762 | 5.6756 | 12.018 | 4.1856 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.3835 | .72227 | 2.0549 | .52046 | 2.6868 | 5.8193 | .55551 | 6.5019 |
| Stddev | .0089  | .00114 | .0081  | .00239 | .0125  | .0124  | .00299 | .0278  |
| %RSD   | .37178 | .15762 | .39595 | .45981 | .46420 | .21307 | .53850 | .42746 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.3771 | .72140 | 2.0455 | .51920 | 2.6743 | 5.8050 | .55315 | 6.5259 |
| #2 | 2.3798 | .72356 | 2.0587 | .51895 | 2.6992 | 5.8257 | .55450 | 6.4714 |
| #3 | 2.3936 | .72184 | 2.0604 | .52322 | 2.6869 | 5.8271 | .55888 | 6.5084 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 12.928 | .38125 | 19.616 | 1.1936 | 3.7602 | 81.724 | 9.5996 |
| Stddev | .077   | .00110 | .094   | .0054  | .0110  | .747   | .0304  |
| %RSD   | .59938 | .28814 | .47952 | .45322 | .29362 | .91465 | .31670 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 12.870 | .38067 | 19.703 | 1.1906 | 3.7488 | 80.861 | 9.5696 |
| #2 | 12.898 | .38056 | 19.516 | 1.1904 | 3.7610 | 82.178 | 9.5989 |
| #3 | 13.016 | .38252 | 19.629 | 1.1999 | 3.7708 | 82.133 | 9.6304 |

Sample Name: S5      Acquired: 12/10/2024 16:13:43      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S05      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 1917.4 | 23987. | 2548.4 | 1454.2 | 3021.2 |
| Stddev    | 7.9    | 79.    | 7.0    | 7.0    | 11.6   |
| %RSD      | .41027 | .33048 | .27597 | .48294 | .38335 |
| #1        | 1919.9 | 24074. | 2550.2 | 1460.7 | 3021.7 |
| #2        | 1923.8 | 23918. | 2554.4 | 1446.8 | 3032.5 |
| #3        | 1908.6 | 23968. | 2540.7 | 1455.1 | 3009.4 |

Sample Name: S6      Acquired: 12/10/2024 16:17:38      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S06      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Elem      | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 78.901 | 38.444 | 14.726 | 6.2187 | 5.5105 |
| Stddev    | .600   | .275   | .132   | .0382  | .0361  |
| %RSD      | .76102 | .71542 | .89793 | .61446 | .65461 |
| #1        | 79.325 | 38.635 | 14.824 | 6.2443 | 5.5264 |
| #2        | 79.164 | 38.569 | 14.779 | 6.2370 | 5.5360 |
| #3        | 78.214 | 38.129 | 14.576 | 6.1748 | 5.4692 |
| Int. Std. | Y_3710 |        |        |        |        |
| Units     | Cts/S  |        |        |        |        |
| Avg       | 2542.7 |        |        |        |        |
| Stddev    | 25.0   |        |        |        |        |
| %RSD      | .98291 |        |        |        |        |
| #1        | 2519.0 |        |        |        |        |
| #2        | 2540.2 |        |        |        |        |
| #3        | 2568.8 |        |        |        |        |

Sample Name: ICV014      Acquired: 12/10/2024 16:45:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICV014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.038133 | .9821663 | .9687233 | .9324097 | .9126922 | 2.427014 |
| Stddev | .003284  | .0023432 | .0045070 | .0012098 | .0034750 | .018037  |
| %RSD   | .3163694 | .2385762 | .4652488 | .1297539 | .3807459 | .7431855 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.039430 | .9848588 | .9739237 | .9331766 | .9166857 | 2.440929 |
| #2 | 1.040570 | .9810507 | .9659509 | .9310150 | .9103560 | 2.406636 |
| #3 | 1.034398 | .9805892 | .9662952 | .9330375 | .9110350 | 2.433478 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5185802 | .5224039 | .4768094 | 10.23094 | .5496085 | .5007285 |
| Stddev | .0058810 | .0066120 | .0012909 | .15363   | .0016435 | .0021732 |
| %RSD   | 1.134059 | 1.265693 | .2707446 | 1.501665 | .2990242 | .4340026 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5238998 | .5298136 | .4782849 | 10.37058 | .5511777 | .5032208 |
| #2 | .5195760 | .5202931 | .4762546 | 10.25588 | .5478997 | .4992289 |
| #3 | .5122649 | .5171050 | .4758886 | 10.06637 | .5497482 | .4997360 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4977854 | 10.55741 | .5266008 | 6.041075 | .5100435 | .2462849 |
| Stddev | .0095474 | .10428   | .0038743 | .030635  | .0025162 | .0009478 |
| %RSD   | 1.917968 | .9877732 | .7357243 | .5071099 | .4933254 | .3848486 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5063483 | 10.64908 | .5308768 | 6.063743 | .5128012 | .2473081 |
| #2 | .4874907 | 10.57920 | .5256019 | 6.053260 | .5094570 | .2454368 |
| #3 | .4995171 | 10.44395 | .5233238 | 6.006222 | .5078724 | .2461099 |

|        |          |          |          |          |            |            |
|--------|----------|----------|----------|----------|------------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm        |
| Avg    | 10.08662 | .5069642 | 1.096831 | 9.429420 | F -.002359 | F -.032586 |
| Stddev | .21868   | .0050430 | .007212  | .422215  | .003502    | .003140    |
| %RSD   | 2.168017 | .9947489 | .6575075 | 4.477633 | 148.4288   | 9.636940   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.32729 | .5104400 | 1.101781 | 9.662287 | -.003575 | -.034815 |
| #2 | 10.03248 | .5092724 | 1.088556 | 9.683924 | -.005092 | -.028994 |
| #3 | 9.90010  | .5011801 | 1.100155 | 8.942048 | .001589  | -.033948 |



Sample Name: ICV014      Acquired: 12/10/2024 16:45:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICV014      Custom ID2:      Custom ID3:  
Comment:

|        |            |            |            |            |            |            |
|--------|------------|------------|------------|------------|------------|------------|
| Elem   | Mo2020     | S_1820     | Si2516     | Sn1899     | Ti3361     | Sr4077     |
| Units  | ppm        | ppm        | ppm        | ppm        | ppm        | ppm        |
| Avg    | F -.001069 | F .0074127 | F .0013432 | F -.000939 | F -.000027 | F -.008887 |
| Stddev | .000175    | .0018892   | .0010893   | .000678    | .002017    | .000126    |
| %RSD   | 16.33394   | 25.48625   | 81.10183   | 72.20485   | 7465.555   | 1.414808   |
| #1     | -.001079   | .0088792   | .0016550   | -.001691   | -.002324   | -.008741   |
| #2     | -.001238   | .0080781   | .0022425   | -.000373   | .001455    | -.008964   |
| #3     | -.000890   | .0052808   | .0001319   | -.000754   | .000788    | -.008955   |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.020373 |
| Stddev | .002664    |
| %RSD   | 13.07509   |
| #1     | -.021425   |
| #2     | -.017344   |
| #3     | -.022349   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2503.473 | 27477.17 | 2700.638 | 1949.679 | 3878.282 |
| Stddev    | 8.473    | 90.58    | 32.112   | 3.045    | 14.101   |
| %RSD      | .3384453 | .3296673 | 1.189054 | .1562011 | .3635926 |
| #1        | 2495.289 | 27463.81 | 2666.152 | 1951.649 | 3863.485 |
| #2        | 2512.208 | 27394.02 | 2706.083 | 1946.171 | 3891.565 |
| #3        | 2502.923 | 27573.70 | 2729.679 | 1951.217 | 3879.797 |

Sample Name: ICB014      Acquired: 12/10/2024 16:51:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICB014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.003241 | .0020314 | .0002477 | .0024117 | .0018835 | -.000223 |
| Stddev | .000633  | .0009655 | .0017467 | .0014332 | .0012952 | .004033  |
| %RSD   | 19.52907 | 47.52791 | 705.1504 | 59.42922 | 68.76438 | 1808.974 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.002783 | .0031231 | -.000308 | .0037043 | .0004089 | -.004538 |
| #2 | -.003963 | .0012898 | -.001154 | .0008704 | .0024045 | .000417  |
| #3 | -.002977 | .0016814 | .002205  | .0026603 | .0028370 | .003452  |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0013678 | .0000193 | .0000879 | .0315601 | -.000789 | .0002502 |
| Stddev | .0005705 | .0001003 | .0001202 | .0289310 | .000210  | .0000890 |
| %RSD   | 41.71269 | 518.8848 | 136.6633 | 91.66958 | 26.65738 | 35.55627 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0016396 | .0000016 | .0001057 | .0621562 | -.000884 | .0001642 |
| #2 | .0007121 | .0001273 | -.000040 | .0046469 | -.000935 | .0003419 |
| #3 | .0017515 | -.000071 | .000198  | .0278773 | -.000548 | .0002446 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0045260 | -.011721 | -.000646 | -.041575 | -.000543 | -.000931 |
| Stddev | .0069477 | .003501  | .000286  | .071860  | .000488  | .000539  |
| %RSD   | 153.5059 | 29.86797 | 44.26562 | 172.8446 | 89.99307 | 57.86898 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0124126 | -.011515 | -.000376 | -.113639 | -.000055 | -.000598 |
| #2 | .0018565 | -.015321 | -.000946 | .030079  | -.001032 | -.001553 |
| #3 | -.000691 | -.008328 | -.000617 | -.041165 | -.000541 | -.000643 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.016806 | -.003525 | -.001431 | -.192227 | -.000198 | -.002333 |
| Stddev | .604295  | .002094  | .003271  | .138058  | .001506  | .002204  |
| %RSD   | 3595.704 | 59.40579 | 228.5216 | 71.82033 | 761.3906 | 94.49567 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .334283  | -.002884 | -.005076 | -.044874 | -.000964 | -.004217 |
| #2 | .329880  | -.005865 | -.000466 | -.318586 | -.001167 | .000091  |
| #3 | -.714581 | -.001827 | .001249  | -.213221 | .001538  | -.002873 |

Sample Name: ICB014      Acquired: 12/10/2024 16:51:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICB014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000676 | -.000294 | -.001849 | F -.008014 | .0031709 | .0000491 |
| Stddev | .000228  | .002736  | .000877  | .000142    | .0026107 | .0000706 |
| %RSD   | 33.76338 | 930.2102 | 47.45976 | 1.777056   | 82.33172 | 143.8092 |
| #1     | -.000918 | .002141  | -.001891 | -.007879   | .0002788 | .0001303 |
| #2     | -.000644 | .000231  | -.002704 | -.007999   | .0053533 | .0000150 |
| #3     | -.000465 | -.003255 | -.000951 | -.008163   | .0038807 | .0000020 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.024117 |
| Stddev | .003376    |
| %RSD   | 13.99680   |
| #1     | -.020908   |
| #2     | -.027637   |
| #3     | -.023805   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2501.749 | 27688.72 | 2662.750 | 1960.673 | 3920.342 |
| Stddev    | 4.228    | 292.82   | 23.298   | 21.041   | 8.536    |
| %RSD      | .1690122 | 1.057560 | .8749723 | 1.073135 | .2177482 |
| #1        | 2506.097 | 27659.44 | 2635.934 | 1960.227 | 3928.756 |
| #2        | 2501.499 | 27411.63 | 2674.285 | 1939.858 | 3911.688 |
| #3        | 2497.651 | 27995.08 | 2678.030 | 1981.932 | 3920.582 |

Sample Name: ICSA014      Acquired: 12/10/2024 17:21:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSA014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.009316 | .0076976 | -.009899 | -.016151 | -.006777 | 243.0741 |
| Stddev | .003449  | .0012353 | .002492  | .004140  | .002821  | .8857    |
| %RSD   | 37.02249 | 16.04818 | 25.16986 | 25.63269 | 41.62276 | .3643856 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.011812 | .0063986 | -.011192 | -.018481 | -.004179 | 242.5953 |
| #2 | -.005380 | .0078368 | -.007027 | -.011371 | -.009777 | 242.5309 |
| #3 | -.010755 | .0088575 | -.011478 | -.018600 | -.006376 | 244.0962 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0073104 | .0013640 | .0008535 | 248.9195 | .0521792 | .0315269 |
| Stddev | .0012721 | .0000257 | .0001104 | 1.0867   | .0006842 | .0007397 |
| %RSD   | 17.40106 | 1.880227 | 12.93146 | .4365838 | 1.311195 | 2.346152 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0058416 | .0013426 | .0009203 | 248.3768 | .0513991 | .0307627 |
| #2 | .0080531 | .0013571 | .0007261 | 248.2110 | .0524612 | .0315786 |
| #3 | .0080366 | .0013924 | .0009142 | 250.1707 | .0526773 | .0322393 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.007006 | 102.7715 | .0101976 | 254.7028 | .0051102 | -.007578 |
| Stddev | .001301  | .2110    | .0003556 | .8693    | .0009110 | .001531  |
| %RSD   | 18.57211 | .2052721 | 3.486808 | .3412996 | 17.82628 | 20.19669 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.008457 | 102.7065 | .0098677 | 253.9026 | .0048110 | -.008383 |
| #2 | -.005945 | 102.6006 | .0105743 | 254.5780 | .0043865 | -.008538 |
| #3 | -.006615 | 103.0073 | .0101509 | 255.6277 | .0061331 | -.005813 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | -.050593 | .0004836 | -.036147 | -.287852 | .0016573 | F -.315832 |
| Stddev | .719102  | .0103535 | .003477  | .185939  | .0011819 | .002925    |
| %RSD   | 1421.348 | 2141.135 | 9.617872 | 64.59545 | 71.31401 | .9262440   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .426291  | .0055576 | -.040154 | -.352057 | .0030209 | -.318752 |
| #2 | -.877715 | -.011428 | -.034344 | -.433180 | .0010258 | -.312901 |
| #3 | .299645  | .007321  | -.033942 | -.078319 | .0009254 | -.315843 |

Sample Name: ICSA014      Acquired: 12/10/2024 17:21:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSA014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.001618 | .0119570 | -.003369 | F .0089128 | -.000210 | .0043013 |
| Stddev | .000511  | .0020568 | .000647  | .0006501   | .001872  | .0007235 |
| %RSD   | 31.59322 | 17.20135 | 19.19310 | 7.294546   | 893.0594 | 16.82058 |
| #1     | -.002053 | .0140509 | -.003276 | .0095751   | .001284  | .0039491 |
| #2     | -.001747 | .0118807 | -.004058 | .0082755   | .000397  | .0038214 |
| #3     | -.001055 | .0099395 | -.002774 | .0088880   | -.002309 | .0051335 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.016973 |
| Stddev | .002948    |
| %RSD   | 17.36849   |
| #1     | -.015819   |
| #2     | -.014776   |
| #3     | -.020323   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2375.929 | 25459.86 | 2607.909 | 1840.195 | 3392.310 |
| Stddev    | 6.242    | 138.51   | 19.170   | 9.240    | 12.531   |
| %RSD      | .2627059 | .5440241 | .7350772 | .5020954 | .3694004 |
| #1        | 2377.524 | 25476.80 | 2596.429 | 1842.839 | 3394.255 |
| #2        | 2381.219 | 25313.66 | 2630.040 | 1829.921 | 3403.756 |
| #3        | 2369.045 | 25589.12 | 2597.259 | 1847.824 | 3378.920 |

Sample Name: ICSAB014      Acquired: 12/10/2024 17:27:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSAB014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0891728 | .1087786 | .0423905 | .0265995 | .5579911 | 249.8614 |
| Stddev | .0067044 | .0010827 | .0012290 | .0097367 | .0022440 | 1.7789   |
| %RSD   | 7.518399 | .9953717 | 2.899192 | 36.60468 | .4021630 | .7119633 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0877906 | .1075284 | .0422049 | .0154523 | .5592903 | 250.6155 |
| #2 | .0832672 | .1094143 | .0437017 | .0334410 | .5553999 | 251.1390 |
| #3 | .0964605 | .1093931 | .0412648 | .0309052 | .5592831 | 247.8296 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5452643 | .5455295 | 1.006569 | 256.5595 | .6214702 | .5421223 |
| Stddev | .0049155 | .0034723 | .001172  | 1.6677   | .0021124 | .0008119 |
| %RSD   | .9014851 | .6365099 | .1163851 | .6500155 | .3399078 | .1497692 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5466557 | .5490588 | 1.007736 | 257.7763 | .6217123 | .5427626 |
| #2 | .5493341 | .5454128 | 1.006577 | 257.2437 | .6192472 | .5412091 |
| #3 | .5398031 | .5421171 | 1.005393 | 254.6586 | .6234512 | .5423953 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4862811 | 105.4551 | .5456926 | 263.6768 | 1.077633 | .1879370 |
| Stddev | .0019497 | .6025    | .0043311 | 1.6630   | .003101  | .0008020 |
| %RSD   | .4009344 | .5713349 | .7936939 | .6306788 | .2877647 | .4267580 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4841677 | 105.8760 | .5493320 | 265.2499 | 1.081047 | .1887921 |
| #2 | .4880096 | 105.7243 | .5468434 | 263.8438 | 1.076864 | .1878175 |
| #3 | .4866659 | 104.7649 | .5409022 | 261.9366 | 1.074989 | .1872014 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | -.093579 | .5298564 | 1.051819 | -.602558 | .0039692 | F -.331678 |
| Stddev | .007023  | .0056390 | .008499  | .138229  | .0035359 | .003578    |
| %RSD   | 7.504433 | 1.064243 | .8080560 | 22.94032 | 89.08212 | 1.078629   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.099572 | .5360212 | 1.061352 | -.492280 | .0000736 | -.334358 |
| #2 | -.085852 | .5285888 | 1.049075 | -.757628 | .0069756 | -.333062 |
| #3 | -.095313 | .5249591 | 1.045031 | -.557766 | .0048586 | -.327616 |

Sample Name: ICSAB014      Acquired: 12/10/2024 17:27:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSAB014      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001313 | .0239760 | -.003112 | .0036819 | -.000539 | .0053830 |
| Stddev | .000361  | .0070270 | .000627  | .0022167 | .000950  | .0001514 |
| %RSD   | 27.52287 | 29.30848 | 20.15251 | 60.20648 | 176.1873 | 2.812137 |
| #1     | -.001089 | .0276575 | -.002651 | .0051198 | -.000095 | .0053309 |
| #2     | -.001729 | .0283975 | -.003826 | .0047969 | .000107  | .0055536 |
| #3     | -.001120 | .0158732 | -.002858 | .0011290 | -.001631 | .0052646 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.026064 |
| Stddev | .001522    |
| %RSD   | 5.840480   |
| #1     | -.027769   |
| #2     | -.025584   |
| #3     | -.024840   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2369.146 | 25424.04 | 2633.137 | 1830.951 | 3388.944 |
| Stddev    | 4.628    | 94.91    | 24.592   | 10.345   | 10.549   |
| %RSD      | .1953609 | .3733066 | .9339431 | .5650087 | .3112649 |
| #1        | 2367.599 | 25343.40 | 2613.974 | 1824.406 | 3380.424 |
| #2        | 2365.490 | 25400.09 | 2624.570 | 1825.569 | 3385.665 |
| #3        | 2374.350 | 25528.63 | 2660.867 | 1842.877 | 3400.742 |

Sample Name: CCV089      Acquired: 12/10/2024 17:48:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV089      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.991993 | 4.977525 | 25.34109 | 4.866938 | 4.910743 | 408.5371 |
| Stddev | .026604  | .014577  | .11977   | .021693  | .022669  | .6877    |
| %RSD   | .5329291 | .2928587 | .4726404 | .4457152 | .4616207 | .1683439 |
| #1     | 5.009469 | 4.976587 | 25.33609 | 4.856169 | 4.908401 | 409.0718 |
| #2     | 4.961376 | 4.963440 | 25.22389 | 4.852738 | 4.889336 | 408.7782 |
| #3     | 5.005135 | 4.992549 | 25.46328 | 4.891909 | 4.934493 | 407.7612 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 10.37154 | .5133734 | 2.549659 | 414.0573 | 15.83214 | 2.559715 |
| Stddev | .02294   | .0022107 | .011833  | .6444    | .00855   | .013648  |
| %RSD   | .2212014 | .4306144 | .4641113 | .1556227 | .0540188 | .5331948 |
| #1     | 10.39374 | .5150288 | 2.547661 | 414.7970 | 15.82783 | 2.558332 |
| #2     | 10.37296 | .5142286 | 2.538952 | 413.7565 | 15.82660 | 2.546810 |
| #3     | 10.34793 | .5108629 | 2.562364 | 413.6183 | 15.84199 | 2.574002 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.31721 | 417.3631 | 15.23792 | 418.6660 | 2.563457 | 1.275541 |
| Stddev | .04715   | .1071    | .05449   | 1.5947   | .011859  | .002021  |
| %RSD   | .3078058 | .0256521 | .3575927 | .3809035 | .4626150 | .1584532 |
| #1     | 15.37163 | 417.2907 | 15.29868 | 420.5049 | 2.564398 | 1.276291 |
| #2     | 15.28870 | 417.4861 | 15.22172 | 417.6624 | 2.551155 | 1.273252 |
| #3     | 15.29130 | 417.3125 | 15.19338 | 417.8308 | 2.574817 | 1.277080 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 408.5916 | 2.554473 | 14.81280 | 156.0263 | 5.086167 | F 4.226022 |
| Stddev | 1.1883   | .011428  | .12595   | .3582    | .014121  | .023726    |
| %RSD   | .2908174 | .4473669 | .8502770 | .2295867 | .2776317 | .5614330   |
| #1     | 409.8295 | 2.557102 | 14.71816 | 156.2850 | 5.089795 | 4.239805   |
| #2     | 407.4601 | 2.541959 | 14.76450 | 156.1765 | 5.070585 | 4.239636   |
| #3     | 408.4854 | 2.564357 | 14.95576 | 155.6174 | 5.098119 | 4.198626   |



Sample Name: CCV089      Acquired: 12/10/2024 17:48:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV089      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.894306 | 5.124721 | 5.026223 | 5.125622 | 5.109005 | 4.953363 |
| Stddev | .022312  | .022990  | .027103  | .026836  | .031662  | .016681  |
| %RSD   | .4558737 | .4486075 | .5392328 | .5235562 | .6197334 | .3367529 |
| #1     | 4.891604 | 5.128011 | 5.052912 | 5.121586 | 5.145476 | 4.971744 |
| #2     | 4.873467 | 5.100264 | 5.027031 | 5.101033 | 5.088563 | 4.949157 |
| #3     | 4.917845 | 5.145890 | 4.998724 | 5.154247 | 5.092975 | 4.939188 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | 5.144013 |
| Stddev | .010066  |
| %RSD   | .1956768 |
| #1     | 5.146953 |
| #2     | 5.152282 |
| #3     | 5.132805 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2096.438 | 24130.05 | 2572.861 | 1607.681 | 3084.730 |
| Stddev    | 5.036    | 54.17    | 7.733    | 5.502    | 8.610    |
| %RSD      | .2402341 | .2244934 | .3005530 | .3422302 | .2791210 |
| #1        | 2097.682 | 24190.52 | 2567.616 | 1613.500 | 3087.687 |
| #2        | 2100.736 | 24113.65 | 2569.226 | 1606.979 | 3091.472 |
| #3        | 2090.896 | 24085.97 | 2581.742 | 1602.564 | 3075.031 |

Sample Name: CCB089      Acquired: 12/10/2024 17:52:04      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB089      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001876 | .0011680 | -.000496 | .0075643 | .0014785 | .1281478 |
| Stddev | .000596  | .0013684 | .001029  | .0013682 | .0021895 | .0102046 |
| %RSD   | 31.76451 | 117.1628 | 207.3751 | 18.08823 | 148.0887 | 7.963108 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.002241 | .0024866 | .000611  | .0086013 | .0034289 | .1194935 |
| #2 | -.002199 | .0012626 | -.001422 | .0080781 | -.000890 | .1255497 |
| #3 | -.001189 | -.000245 | -.000678 | .0060135 | .001896  | .1394003 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0006440 | -.000041 | .0001051 | .0344954 | -.000462 | -.000044 |
| Stddev | .0011869 | .000007  | .0000298 | .0330769 | .000445  | .000346  |
| %RSD   | 184.3157 | 16.08311 | 28.33003 | 95.88787 | 96.26976 | 780.2851 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000016 | -.000037 | .0001084 | -.000015 | -.000909 | -.000414 |
| #2 | .002014  | -.000037 | .0000738 | .065923  | -.000459 | .000270  |
| #3 | -.000066 | -.000049 | .0001331 | .037579  | -.000019 | .000011  |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0148986 | .0212159 | .0016826 | .0081215 | -.000212 | .0012962 |
| Stddev | .0004585 | .0442502 | .0015387 | .0477296 | .000141  | .0009381 |
| %RSD   | 3.077181 | 208.5703 | 91.44977 | 587.6961 | 66.39710 | 72.37855 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0147313 | -.028564 | .0012678 | .0218834 | -.000215 | .0010166 |
| #2 | .0145473 | .056082  | .0003938 | .0474581 | -.000352 | .0023423 |
| #3 | .0154172 | .036131  | .0033861 | -.044977 | -.000070 | .0005296 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1500822 | -.000528 | .0045388 | .0101803 | -.000088 | .0090417 |
| Stddev | .4824192 | .011110  | .0071969 | .0685011 | .000732  | .0003024 |
| %RSD   | 321.4367 | 2102.754 | 158.5647 | 672.8780 | 828.3142 | 3.344104 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5282789 | -.007628 | -.003561 | -.027028 | -.000425 | .0090425 |
| #2 | .3151782 | -.006232 | .006979  | -.031665 | -.000591 | .0093437 |
| #3 | -.393211 | .012274  | .010199  | .089233  | .000751  | .0087389 |

Sample Name: CCB089      Acquired: 12/10/2024 17:52:04      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB089      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000430 | -.005065 | -.000315 | F -.010061 | .0024069 | .0005013 |
| Stddev | .000411  | .000892  | .000528  | .000663    | .0017968 | .0001766 |
| %RSD   | 95.59016 | 17.60920 | 167.7286 | 6.586545   | 74.65220 | 35.22525 |
| #1     | -.000414 | -.004358 | -.000063 | -.010304   | .0013342 | .0005624 |
| #2     | -.000849 | -.006067 | -.000921 | -.010568   | .0014053 | .0003023 |
| #3     | -.000027 | -.004769 | .000040  | -.009311   | .0044813 | .0006392 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.012063 |
| Stddev | .001306  |
| %RSD   | 10.82358 |
| #1     | -.012340 |
| #2     | -.013208 |
| #3     | -.010641 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2492.338 | 27540.93 | 2653.489 | 1948.224 | 3902.794 |
| Stddev    | 5.289    | 90.95    | 11.207   | 11.329   | 12.610   |
| %RSD      | .2122107 | .3302512 | .4223583 | .5815167 | .3230959 |
| #1        | 2486.469 | 27436.25 | 2649.511 | 1935.153 | 3888.277 |
| #2        | 2496.735 | 27585.90 | 2644.813 | 1955.220 | 3909.070 |
| #3        | 2493.810 | 27600.64 | 2666.142 | 1954.299 | 3911.033 |

Sample Name: PB165364BL      Acquired: 12/10/2024 17:56:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS364      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002282 | .0011688 | -.001368 | .0034675 | .0012701 | -.014200 |
| Stddev | .001178  | .0021536 | .001440  | .0032092 | .0024412 | .024124  |
| %RSD   | 51.63063 | 184.2509 | 105.2834 | 92.55255 | 192.1987 | 169.8851 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.001092 | .0033931 | -.001472 | -.000238 | .0038592 | -.020082 |
| #2 | -.003449 | -.000906 | -.002754 | .005284  | .0009408 | -.034840 |
| #3 | -.002306 | .001020  | .000121  | .005357  | -.000990 | .012321  |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002252 | -.000053 | .0000491 | -.004716 | -.000894 | .0000845 |
| Stddev | .0009271 | .000127  | .0000451 | .035547  | .000443  | .0002964 |
| %RSD   | 411.6797 | 239.3480 | 91.71720 | 753.8192 | 49.56872 | 350.9064 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000682 | -.000199 | .0000502 | .035815  | -.001000 | -.000086 |
| #2 | .001171  | .000012  | .0000937 | -.019364 | -.000407 | .000427  |
| #3 | .000187  | .000028  | .0000035 | -.030598 | -.001274 | -.000088 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.002356 | .0369219 | .0008714 | -.104887 | .0001321 | -.000511 |
| Stddev | .005100  | .0295119 | .0007710 | .056998  | .0006330 | .001252  |
| %RSD   | 216.4920 | 79.93058 | 88.48255 | 54.34208 | 479.1607 | 244.8343 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.007556 | .0141646 | .0014722 | -.042880 | -.000582 | .000594  |
| #2 | .002639  | .0263340 | .0000020 | -.154998 | .000623  | -.000258 |
| #3 | -.002151 | .0702671 | .0011400 | -.116782 | .000356  | -.001871 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.152182 | .0101984 | -.004549 | -.205403 | -.000021 | .0031030 |
| Stddev | .670882  | .0026232 | .002497  | .120645  | .003215  | .0008571 |
| %RSD   | 440.8408 | 25.72200 | 54.89227 | 58.73580 | 15269.95 | 27.62070 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .407482  | .0083635 | -.005136 | -.109416 | .003628  | .0025147 |
| #2 | .031843  | .0090287 | -.006700 | -.165960 | -.002438 | .0040863 |
| #3 | -.895872 | .0132030 | -.001811 | -.340833 | -.001254 | .0027079 |

Sample Name: PB165364BL      Acquired: 12/10/2024 17:56:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS364      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000597 | -.005492 | -.000774 | F -.011151 | .0055051 | -.000172 |
| Stddev | .000208  | .001950  | .000581  | .000769    | .0039116 | .000102  |
| %RSD   | 34.91264 | 35.51499 | 74.97986 | 6.894168   | 71.05440 | 58.92804 |
| #1     | -.000619 | -.007455 | -.001398 | -.011074   | .0069994 | -.000097 |
| #2     | -.000793 | -.003554 | -.000676 | -.011956   | .0010666 | -.000288 |
| #3     | -.000378 | -.005465 | -.000250 | -.010424   | .0084492 | -.000132 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.028936 |
| Stddev | .003091    |
| %RSD   | 10.68193   |
| #1     | -.031788   |
| #2     | -.029367   |
| #3     | -.025651   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2491.912 | 27969.30 | 2648.790 | 1974.589 | 3907.403 |
| Stddev    | 6.496    | 163.78   | 9.040    | 16.089   | 12.902   |
| %RSD      | .2607002 | .5855805 | .3413026 | .8148132 | .3301865 |
| #1        | 2495.368 | 27869.98 | 2659.073 | 1959.424 | 3920.400 |
| #2        | 2484.418 | 27879.58 | 2645.202 | 1972.878 | 3894.599 |
| #3        | 2495.949 | 28158.34 | 2642.094 | 1991.465 | 3907.208 |

Sample Name: PB165351BL      Acquired: 12/10/2024 18:04:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS351      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000955 | .0016947 | .0001522 | .0084685 | .0016027 | .0190964 |
| Stddev | .000878  | .0022935 | .0012219 | .0011783 | .0006423 | .0216212 |
| %RSD   | 91.92039 | 135.3376 | 802.8487 | 13.91328 | 40.07817 | 113.2211 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000994 | .0007742 | .0015394 | .0071090 | .0010384 | .0175347 |
| #2 | -.001813 | .0000044 | -.000765 | .0091025 | .0023017 | .0414561 |
| #3 | -.000058 | .0043055 | -.000318 | .0091940 | .0014680 | -.001702 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0006454 | -.000023 | .0000150 | .0208534 | -.001009 | .0001633 |
| Stddev | .0008413 | .000070  | .0000366 | .0219433 | .000361  | .0001840 |
| %RSD   | 130.3596 | 304.5415 | 243.7628 | 105.2263 | 35.78412 | 112.7195 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000316 | .000020  | .0000573 | .0417489 | -.001388 | .0002782 |
| #2 | .001246  | -.000104 | -.000006 | .0228170 | -.000969 | .0002606 |
| #3 | .001006  | .000015  | -.000006 | -.002006 | -.000669 | -.000049 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0017960 | .0084394 | .0005919 | -.093523 | -.000722 | .0001757 |
| Stddev | .0026163 | .0090155 | .0009738 | .066089  | .000488  | .0005393 |
| %RSD   | 145.6787 | 106.8267 | 164.5372 | 70.66629 | 67.60812 | 307.0196 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000271 | -.001832 | .0000445 | -.162441 | -.000174 | .0007698 |
| #2 | .000922  | .012107  | .0017162 | -.087445 | -.001110 | -.000283 |
| #3 | .004737  | .015043  | .0000149 | -.030683 | -.000882 | .000040  |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1355961 | .0016909 | -.000355 | -.243204 | -.001316 | -.000647 |
| Stddev | .7739738 | .0079338 | .002893  | .174543  | .000305  | .001816  |
| %RSD   | 570.7936 | 469.1979 | 814.2156 | 71.76808 | 23.17813 | 280.6754 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.022330 | .0020530 | .002682  | -.228092 | -.001037 | -.000150 |
| #2 | .976353  | -.006418 | -.003079 | -.076708 | -.001269 | -.002660 |
| #3 | -.547235 | .009438  | -.000669 | -.424811 | -.001642 | .000869  |

Sample Name: PB165351BL      Acquired: 12/10/2024 18:04:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS351      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000749 | -.002116 | -.000915 | F -.010793 | .0039613 | -.000047 |
| Stddev | .000220  | .001477  | .000161  | .000749    | .0039275 | .000091  |
| %RSD   | 29.40945 | 69.79352 | 17.54871 | 6.940391   | 99.14677 | 195.2248 |
| #1     | -.000965 | -.001338 | -.001077 | -.010844   | .0083476 | -.000036 |
| #2     | -.000756 | -.003819 | -.000756 | -.010019   | .0027654 | -.000142 |
| #3     | -.000525 | -.001191 | -.000912 | -.011515   | .0007707 | .000038  |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.039209 |
| Stddev | .004555    |
| %RSD   | 11.61764   |
| #1     | -.043110   |
| #2     | -.040314   |
| #3     | -.034203   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2514.464 | 27794.45 | 2685.244 | 1967.978 | 3924.405 |
| Stddev    | 1.358    | 68.50    | 14.786   | 10.889   | 2.716    |
| %RSD      | .0539909 | .2464408 | .5506477 | .5533327 | .0692141 |
| #1        | 2513.629 | 27721.37 | 2700.804 | 1955.443 | 3922.076 |
| #2        | 2516.030 | 27804.80 | 2671.378 | 1973.398 | 3923.752 |
| #3        | 2513.733 | 27857.18 | 2683.551 | 1975.095 | 3927.389 |

Sample Name: PB165364BS      Acquired: 12/10/2024 18:09:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS364      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0218092 | .0501499 | .0168783 | .0646998 | .1060886 | .4137468 |
| Stddev | .0033094 | .0005867 | .0011623 | .0029418 | .0008854 | .0262463 |
| %RSD   | 15.17415 | 1.169948 | 6.886599 | 4.546774 | .8346200 | 6.343576 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0254436 | .0497308 | .0171129 | .0654433 | .1051337 | .3965479 |
| #2 | .0189695 | .0498985 | .0179053 | .0614577 | .1068825 | .4439568 |
| #3 | .0210147 | .0508205 | .0156165 | .0671985 | .1062496 | .4007355 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4093234 | .0103618 | .0093700 | 10.22390 | .0208632 | .1002937 |
| Stddev | .0024665 | .0000884 | .0000599 | .03919   | .0005266 | .0003230 |
| %RSD   | .6025693 | .8536094 | .6388721 | .3833481 | 2.524091 | .3220006 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4105440 | .0102745 | .0093462 | 10.21896 | .0208304 | .1005760 |
| #2 | .4064847 | .0103597 | .0094381 | 10.18741 | .0203538 | .1003635 |
| #3 | .4109415 | .0104513 | .0093257 | 10.26533 | .0214055 | .0999415 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0550138 | .2193668 | .0316028 | 10.14897 | .0778661 | .0188729 |
| Stddev | .0044244 | .0168486 | .0015614 | .02646   | .0003908 | .0002442 |
| %RSD   | 8.042311 | 7.680543 | 4.940705 | .2606893 | .5018919 | 1.293688 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0587329 | .2024169 | .0329311 | 10.17713 | .0779452 | .0190549 |
| #2 | .0501209 | .2361121 | .0298829 | 10.14516 | .0782113 | .0185954 |
| #3 | .0561876 | .2195715 | .0319944 | 10.12463 | .0774418 | .0189683 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.24193 | .1025421 | .1084216 | 9.775685 | .0174045 | F -.000890 |
| Stddev | .16312   | .0028401 | .0075804 | .093843  | .0013003 | .002326    |
| %RSD   | 1.592717 | 2.769645 | 6.991631 | .9599684 | 7.470963 | 261.2638   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.11731 | .1000702 | .0996972 | 9.758308 | .0187656 | -.000716 |
| #2 | 10.18191 | .1019116 | .1133977 | 9.877003 | .0172729 | .001344  |
| #3 | 10.42656 | .1056444 | .1121698 | 9.691746 | .0161750 | -.003298 |



Sample Name: PB165364BS      Acquired: 12/10/2024 18:09:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS364      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |            |          |          |          |
|--------|----------|----------|------------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516     | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm        | ppm      | ppm      | ppm      |
| Avg    | .0177020 | .1749439 | F .4706532 | .0126482 | .2026342 | .2109831 |
| Stddev | .0002406 | .0005311 | .0030757   | .0003718 | .0012433 | .0002639 |
| %RSD   | 1.359136 | .3035613 | .6534882   | 2.939563 | .6135597 | .1250705 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0176900 | .1745130 | .4684243 | .0130774 | .2019728 | .2112876 |
| #2 | .0179484 | .1755372 | .4693732 | .0124241 | .2040684 | .2108397 |
| #3 | .0174677 | .1747816 | .4741622 | .0124432 | .2018615 | .2108219 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.006820 |
| Stddev | .004276    |
| %RSD   | 62.70046   |

|    |          |
|----|----------|
| #1 | -.009947 |
| #2 | -.008567 |
| #3 | -.001947 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2514.042 | 27545.77 | 2694.050 | 1954.770 | 3898.074 |
| Stddev    | 3.818    | 197.41   | 12.537   | 18.603   | 11.922   |
| %RSD      | .1518512 | .7166540 | .4653668 | .9516599 | .3058376 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2510.485 | 27573.02 | 2708.343 | 1960.741 | 3884.662 |
| #2 | 2513.565 | 27336.15 | 2688.898 | 1933.915 | 3902.093 |
| #3 | 2518.076 | 27728.13 | 2684.910 | 1969.654 | 3907.467 |

Sample Name: PB165351BS      Acquired: 12/10/2024 18:13:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS351      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0180158 | .0478752 | .0161490 | .0641013 | .1061401 | .3915164 |
| Stddev | .0022161 | .0004967 | .0017847 | .0024542 | .0014898 | .0024781 |
| %RSD   | 12.30088 | 1.037427 | 11.05142 | 3.828632 | 1.403576 | .6329419 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0183318 | .0483982 | .0140883 | .0648185 | .1044358 | .3888815 |
| #2 | .0200570 | .0478177 | .0171706 | .0613684 | .1067899 | .3938002 |
| #3 | .0156587 | .0474098 | .0171882 | .0661170 | .1071945 | .3918674 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4063930 | .0103646 | .0093516 | 10.16508 | .0210271 | .0995727 |
| Stddev | .0000211 | .0000542 | .0000121 | .03299   | .0002544 | .0000713 |
| %RSD   | .0051958 | .5233914 | .1297329 | .3245826 | 1.209691 | .0716467 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4063800 | .0103510 | .0093609 | 10.14696 | .0213122 | .0994913 |
| #2 | .4063817 | .0103184 | .0093559 | 10.20317 | .0209453 | .0996245 |
| #3 | .4064174 | .0104243 | .0093379 | 10.14513 | .0208236 | .0996023 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0619444 | .2263148 | .0333637 | 10.07216 | .0771604 | .0200963 |
| Stddev | .0017299 | .0239746 | .0013193 | .09581   | .0002714 | .0014192 |
| %RSD   | 2.792618 | 10.59348 | 3.954370 | .9512248 | .3517122 | 7.061884 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0618650 | .2071104 | .0318646 | 10.13777 | .0772415 | .0198870 |
| #2 | .0637126 | .2531848 | .0338784 | 10.11651 | .0768578 | .0187934 |
| #3 | .0602556 | .2186493 | .0343481 | 9.96222  | .0773821 | .0216085 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 9.757025 | .1059081 | .1107055 | 9.364334 | .0186681 | F -.001706 |
| Stddev | .375311  | .0021702 | .0083731 | .048857  | .0016554 | .000460    |
| %RSD   | 3.846576 | 2.049111 | 7.563364 | .5217329 | 8.867529 | 26.98960   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.976256 | .1064706 | .1109588 | 9.331583 | .0173758 | -.002200 |
| #2 | 9.971156 | .1035120 | .1189490 | 9.420490 | .0180945 | -.001289 |
| #3 | 9.323663 | .1077416 | .1022086 | 9.340929 | .0205340 | -.001628 |

Sample Name: PB165351BS      Acquired: 12/10/2024 18:13:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS351      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |            |          |          |          |
|--------|----------|----------|------------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516     | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm        | ppm      | ppm      | ppm      |
| Avg    | .0179941 | .1737289 | F .4733749 | .0131819 | .2000800 | .2099483 |
| Stddev | .0004035 | .0025405 | .0038842   | .0003639 | .0023169 | .0006641 |
| %RSD   | 2.242588 | 1.462339 | .8205377   | 2.760914 | 1.157988 | .3163205 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0183129 | .1764854 | .4766442 | .0128112 | .2018489 | .2104727 |
| #2 | .0181291 | .1732199 | .4743993 | .0135387 | .1974574 | .2101707 |
| #3 | .0175404 | .1714815 | .4690811 | .0131957 | .2009337 | .2092016 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.011335 |
| Stddev | .004071    |
| %RSD   | 35.91962   |

|    |          |
|----|----------|
| #1 | -.013720 |
| #2 | -.006634 |
| #3 | -.013651 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2482.952 | 27250.63 | 2653.928 | 1931.773 | 3863.191 |
| Stddev    | 3.917    | 12.16    | 10.195   | 2.610    | 9.436    |
| %RSD      | .1577585 | .0446216 | .3841528 | .1351267 | .2442596 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2483.966 | 27245.81 | 2646.682 | 1933.360 | 3865.799 |
| #2 | 2486.262 | 27241.62 | 2649.516 | 1933.199 | 3871.049 |
| #3 | 2478.627 | 27264.46 | 2665.586 | 1928.760 | 3852.726 |

Sample Name: PB165350BL      Acquired: 12/10/2024 18:17:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS350      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000526 | .0012202 | -.001306 | .0016929 | .0016674 | .0278021 |
| Stddev | .001609  | .0017605 | .000713  | .0019551 | .0012097 | .0046085 |
| %RSD   | 305.8720 | 144.2802 | 54.63499 | 115.4932 | 72.54836 | 16.57607 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000443 | .0024829 | -.000966 | .0034970 | .0021836 | .0230784 |
| #2 | -.002175 | -.000791 | -.002126 | -.000385 | .0025334 | .0280419 |
| #3 | .001040  | .001969  | -.000826 | .001966  | .0002853 | .0322861 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0020912 | -.000076 | .0000854 | -.048580 | -.001257 | .0002826 |
| Stddev | .0013316 | .000057  | .0000432 | .024389  | .000572  | .0003157 |
| %RSD   | 63.67714 | 74.34177 | 50.56318 | 50.20447 | 45.48476 | 111.7133 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0036198 | -.000141 | .0000591 | -.029527 | -.001900 | .0004327 |
| #2 | .0011825 | -.000041 | .0001353 | -.076066 | -.001063 | -.000080 |
| #3 | .0014714 | -.000046 | .0000619 | -.040146 | -.000807 | .000495  |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004174 | .0073270 | .0004953 | -.000541 | -.000709 | .0005378 |
| Stddev | .0035233 | .0108406 | .0014011 | .107363  | .000374  | .0003733 |
| %RSD   | 844.1248 | 147.9536 | 282.8742 | 19858.56 | 52.71445 | 69.40593 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000225 | -.004897 | -.001113 | .011469  | -.000501 | .0009581 |
| #2 | .004218  | .015774  | .001451  | -.113403 | -.000485 | .0002449 |
| #3 | -.002741 | .011104  | .001149  | .100313  | -.001140 | .0004104 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3181083 | -.002985 | -.002789 | -.334348 | -.000925 | -.003109 |
| Stddev | .1592376 | .006685  | .003674  | .017912  | .001639  | .002477  |
| %RSD   | 50.05766 | 223.9251 | 131.7386 | 5.357154 | 177.2205 | 79.67655 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2165882 | .004625  | .001081  | -.333921 | -.000272 | -.005718 |
| #2 | .5016345 | -.007909 | -.006230 | -.316654 | -.002789 | -.002821 |
| #3 | .2361021 | -.005672 | -.003218 | -.352469 | .000287  | -.000789 |

Sample Name: PB165350BL      Acquired: 12/10/2024 18:17:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: PBS350      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000778 | -.003173 | -.000757 | F -.010418 | .0016708 | .0001307 |
| Stddev | .000154  | .001098  | .000172  | .000363    | .0019980 | .0002157 |
| %RSD   | 19.86266 | 34.59157 | 22.75327 | 3.488684   | 119.5875 | 164.9867 |
| #1     | -.000873 | -.002718 | -.000622 | -.009999   | .0013449 | -.000114 |
| #2     | -.000599 | -.004426 | -.000951 | -.010649   | -.000144 | .000212  |
| #3     | -.000860 | -.002377 | -.000698 | -.010606   | .003812  | .000294  |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.040814 |
| Stddev | .003089    |
| %RSD   | 7.567428   |
| #1     | -.044372   |
| #2     | -.038828   |
| #3     | -.039242   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2508.071 | 27615.50 | 2655.583 | 1947.989 | 3929.348 |
| Stddev    | 2.732    | 182.05   | 16.573   | 13.453   | 10.928   |
| %RSD      | .1089375 | .6592327 | .6240879 | .6905966 | .2781068 |
| #1        | 2507.375 | 27443.94 | 2653.649 | 1935.103 | 3925.933 |
| #2        | 2511.083 | 27596.08 | 2640.062 | 1946.920 | 3941.576 |
| #3        | 2505.753 | 27806.48 | 2673.038 | 1961.945 | 3920.536 |

Sample Name: PB165350BS      Acquired: 12/10/2024 18:22:04      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS350      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0198793 | .0480192 | .0166842 | .0627768 | .1051420 | .4005138 |
| Stddev | .0029917 | .0009951 | .0019704 | .0015509 | .0007845 | .0014707 |
| %RSD   | 15.04946 | 2.072233 | 11.81012 | 2.470543 | .7461092 | .3671917 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0192531 | .0477948 | .0152591 | .0612046 | .1046675 | .3988457 |
| #2 | .0172503 | .0471555 | .0189328 | .0643055 | .1047111 | .4016230 |
| #3 | .0231346 | .0491073 | .0158608 | .0628202 | .1060475 | .4010728 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4082904 | .0104674 | .0093320 | 10.21888 | .0207430 | .1006185 |
| Stddev | .0006520 | .0001034 | .0000668 | .02404   | .0001587 | .0002395 |
| %RSD   | .1596977 | .9881879 | .7159520 | .2352077 | .7652365 | .2379941 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4090371 | .0104638 | .0093718 | 10.19791 | .0205842 | .1003478 |
| #2 | .4080005 | .0103657 | .0092549 | 10.21362 | .0207433 | .1007050 |
| #3 | .4078336 | .0105725 | .0093694 | 10.24511 | .0209017 | .1008027 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0532367 | .2152129 | .0331077 | 10.11124 | .0785051 | .0191622 |
| Stddev | .0049239 | .0310621 | .0010755 | .11884   | .0001641 | .0013433 |
| %RSD   | 9.249079 | 14.43317 | 3.248506 | 1.175321 | .2090621 | 7.009927 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0589208 | .1795739 | .0320996 | 10.20960 | .0786656 | .0180623 |
| #2 | .0502828 | .2295330 | .0329836 | 10.14493 | .0783375 | .0206593 |
| #3 | .0505064 | .2365319 | .0342399 | 9.97919  | .0785121 | .0187652 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 9.836501 | .0991553 | .1079875 | 9.627275 | .0160050 | F -.004365 |
| Stddev | .062424  | .0024963 | .0016207 | .090884  | .0031418 | .002708    |
| %RSD   | .6346109 | 2.517554 | 1.500859 | .9440239 | 19.63023 | 62.04891   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.778896 | .0977919 | .1077836 | 9.566303 | .0137213 | -.002033 |
| #2 | 9.902826 | .1020363 | .1064784 | 9.583792 | .0147056 | -.007335 |
| #3 | 9.827781 | .0976375 | .1097006 | 9.731732 | .0195881 | -.003725 |

Sample Name: PB165350BS      Acquired: 12/10/2024 18:22:04      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: LCS350      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |            |          |          |          |
|--------|----------|----------|------------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516     | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm        | ppm      | ppm      | ppm      |
| Avg    | .0179937 | .1759469 | F .4739915 | .0122529 | .1985120 | .2101155 |
| Stddev | .0003542 | .0005816 | .0008987   | .0011685 | .0044624 | .0008087 |
| %RSD   | 1.968675 | .3305804 | .1895959   | 9.536603 | 2.247949 | .3848859 |
| #1     | .0183734 | .1761481 | .4729539   | .0120719 | .1988629 | .2093282 |
| #2     | .0176721 | .1764012 | .4744986   | .0111854 | .2027886 | .2109441 |
| #3     | .0179355 | .1752914 | .4745221   | .0135013 | .1938845 | .2100742 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.009215 |
| Stddev | .001419    |
| %RSD   | 15.39640   |
| #1     | -.010445   |
| #2     | -.007663   |
| #3     | -.009536   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2493.475 | 27480.27 | 2659.990 | 1945.496 | 3876.824 |
| Stddev    | 10.464   | 8.33     | 7.810    | 5.765    | 13.732   |
| %RSD      | .4196398 | .0303161 | .2936001 | .2963023 | .3542195 |
| #1        | 2483.626 | 27472.49 | 2651.592 | 1950.720 | 3862.168 |
| #2        | 2504.461 | 27489.06 | 2667.034 | 1939.311 | 3889.395 |
| #3        | 2492.338 | 27479.26 | 2661.343 | 1946.457 | 3878.909 |

Sample Name: CCV090      Acquired: 12/10/2024 18:26:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV090      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.928887 | 4.901433 | 24.93959 | 4.760284 | 4.839254 | 399.5872 |
| Stddev | .023847  | .020221  | .09706   | .024082  | .016021  | 1.4996   |
| %RSD   | .4838223 | .4125565 | .3891860 | .5058902 | .3310555 | .3752917 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 4.923919 | 4.889471 | 24.86718 | 4.742673 | 4.824509 | 400.7595 |
| #2 | 4.907915 | 4.890048 | 24.90172 | 4.750453 | 4.836953 | 397.8974 |
| #3 | 4.954826 | 4.924780 | 25.04988 | 4.787726 | 4.856301 | 400.1048 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 10.12509 | .5041438 | 2.508260 | 405.2378 | 15.60971 | 2.526815 |
| Stddev | .04109   | .0046286 | .009799  | 1.1623   | .01204   | .010544  |
| %RSD   | .4058083 | .9181016 | .3906888 | .2868120 | .0771256 | .4172752 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.15170 | .5085485 | 2.499341 | 406.2728 | 15.60749 | 2.517898 |
| #2 | 10.07777 | .4993199 | 2.506687 | 403.9804 | 15.59893 | 2.524096 |
| #3 | 10.14580 | .5045630 | 2.518750 | 405.4601 | 15.62270 | 2.538453 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.06968 | 406.8036 | 14.96942 | 406.1755 | 2.521291 | 1.252044 |
| Stddev | .02058   | 1.7643   | .04752   | .5961    | .008692  | .000792  |
| %RSD   | .1365661 | .4337083 | .3174660 | .1467603 | .3447259 | .0632414 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 15.06344 | 408.2259 | 15.01648 | 405.7619 | 2.514600 | 1.251154 |
| #2 | 15.05294 | 404.8292 | 14.92144 | 405.9058 | 2.518160 | 1.252669 |
| #3 | 15.09265 | 407.3556 | 14.97036 | 406.8588 | 2.531115 | 1.252310 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 400.4574 | 2.518448 | 14.77530 | 152.5548 | 5.002156 | F 4.165039 |
| Stddev | .6264    | .011870  | .15856   | .4888    | .024410  | .037151    |
| %RSD   | .1564176 | .4713101 | 1.073122 | .3204097 | .4879895 | .8919611   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 400.6778 | 2.531473 | 14.68154 | 152.5408 | 4.980813 | 4.197484 |
| #2 | 399.7506 | 2.515629 | 14.95837 | 152.0732 | 4.996883 | 4.124513 |
| #3 | 400.9438 | 2.508242 | 14.68600 | 153.0505 | 5.028771 | 4.173120 |



Sample Name: CCV090      Acquired: 12/10/2024 18:26:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV090      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.825736 | 5.033655 | 4.935018 | 5.032312 | 5.017230 | 4.847350 |
| Stddev | .016000  | .029110  | .054995  | .023357  | .007957  | .007006  |
| %RSD   | .3315603 | .5783125 | 1.114388 | .4641330 | .1585933 | .1445345 |
| #1     | 4.811335 | 5.002915 | 4.984253 | 5.009445 | 5.023850 | 4.849892 |
| #2     | 4.822913 | 5.037249 | 4.875667 | 5.031362 | 5.019438 | 4.839427 |
| #3     | 4.842960 | 5.060801 | 4.945132 | 5.056129 | 5.008402 | 4.852729 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | 5.053269 |
| Stddev | .024428  |
| %RSD   | .4834179 |
| #1     | 5.074454 |
| #2     | 5.026548 |
| #3     | 5.058804 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2110.666 | 24155.30 | 2585.029 | 1607.210 | 3106.505 |
| Stddev    | 4.720    | 56.27    | 20.282   | 11.454   | 7.579    |
| %RSD      | .2236070 | .2329499 | .7845796 | .7126760 | .2439583 |
| #1        | 2116.115 | 24218.05 | 2566.253 | 1611.626 | 3115.243 |
| #2        | 2108.027 | 24109.32 | 2606.539 | 1594.205 | 3102.557 |
| #3        | 2107.855 | 24138.54 | 2582.294 | 1615.799 | 3101.716 |

Sample Name: CCB090      Acquired: 12/10/2024 18:29:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB090      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001496 | .0017547 | -.000025 | .0067262 | .0002541 | .0057372 |
| Stddev | .002335  | .0010944 | .001330  | .0033896 | .0005715 | .0240778 |
| %RSD   | 156.0426 | 62.37322 | 5304.558 | 50.39481 | 224.9386 | 419.6764 |
| #1     | .000115  | .0028461 | -.000027 | .0094100 | -.000130 | -.017977 |
| #2     | -.000430 | .0006573 | -.001355 | .0029170 | .000911  | .005027  |
| #3     | -.004174 | .0017605 | .001306  | .0078516 | -.000019 | .030163  |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0003336 | -.000035 | .0000794 | .0602072 | -.001083 | .0001745 |
| Stddev | .0012691 | .000104  | .0000422 | .0198071 | .000493  | .0000915 |
| %RSD   | 380.4373 | 298.1970 | 53.17854 | 32.89821 | 45.53038 | 52.43496 |
| #1     | -.000912 | .000059  | .0001232 | .0507472 | -.001341 | .0002793 |
| #2     | .000287  | -.000146 | .0000760 | .0469039 | -.001394 | .0001103 |
| #3     | .001625  | -.000017 | .0000390 | .0829706 | -.000514 | .0001341 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010158 | .0221267 | .0010530 | -.019814 | -.000212 | -.000942 |
| Stddev | .0012131 | .0400294 | .0017237 | .127146  | .000611  | .001234  |
| %RSD   | 119.4257 | 180.9096 | 163.7035 | 641.6850 | 288.3008 | 131.0000 |
| #1     | -.000050 | .0600912 | -.000836 | .054139  | .000353  | -.002157 |
| #2     | .000761  | -.019689 | .002540  | -.166629 | -.000861 | -.000981 |
| #3     | .002336  | .025978  | .001456  | .053046  | -.000127 | .000311  |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.198652 | .0011064 | .0001775 | -.035395 | -.002861 | .0117732 |
| Stddev | .478711  | .0050230 | .0060336 | .195654  | .002162  | .0003786 |
| %RSD   | 240.9798 | 453.9808 | 3399.177 | 552.7672 | 75.54715 | 3.215806 |
| #1     | -.607849 | -.004232 | -.006494 | -.186749 | -.002376 | .0120204 |
| #2     | -.315897 | .005739  | .001776  | .185539  | -.005224 | .0113374 |
| #3     | .327789  | .001812  | .005251  | -.104976 | -.000984 | .0119619 |

Sample Name: CCB090      Acquired: 12/10/2024 18:29:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB090      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000513 | -.006070 | -.000356 | F -.010088 | .0042525 | .0002400 |
| Stddev | .000193  | .004857  | .000450  | .000282    | .0035783 | .0002583 |
| %RSD   | 37.71562 | 80.01954 | 126.5313 | 2.796533   | 84.14578 | 107.6251 |
| #1     | -.000481 | -.001032 | -.000726 | -.009767   | .0007006 | .0004886 |
| #2     | -.000337 | -.006453 | -.000486 | -.010203   | .0078567 | .0002587 |
| #3     | -.000720 | -.010723 | .000145  | -.010295   | .0042002 | -.000027 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.022281 |
| Stddev | .002152    |
| %RSD   | 9.657544   |
| #1     | -.022728   |
| #2     | -.019941   |
| #3     | -.024174   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2529.547 | 27820.01 | 2688.185 | 1968.046 | 3941.010 |
| Stddev    | 15.361   | 49.98    | 4.735    | 6.863    | 22.852   |
| %RSD      | .6072625 | .1796422 | .1761558 | .3487096 | .5798599 |
| #1        | 2530.031 | 27762.36 | 2691.221 | 1960.576 | 3943.271 |
| #2        | 2544.660 | 27851.04 | 2690.605 | 1974.072 | 3962.648 |
| #3        | 2513.949 | 27846.63 | 2682.728 | 1969.491 | 3917.111 |

Sample Name: P5041-01      Acquired: 12/10/2024 18:33:50      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2394960 | .0074021 | 9.663514 | .0034025 | -.005291 | 65.59257 |
| Stddev | .0036207 | .0025113 | .025281  | .0031466 | .000868  | .17505   |
| %RSD   | 1.511810 | 33.92628 | .2616155 | 92.47965 | 16.40689 | .2668757 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2434550 | .0092437 | 9.638658 | -.000129 | -.004930 | 65.62083 |
| #2 | .2386801 | .0045415 | 9.662684 | .004430  | -.006282 | 65.75177 |
| #3 | .2363528 | .0084212 | 9.689200 | .005907  | -.004662 | 65.40510 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.475690 | .0067769 | .0114871 | 172.8325 | .1614559 | .1107733 |
| Stddev | .010073  | .0000810 | .0000319 | .4137    | .0018697 | .0007578 |
| %RSD   | .4068748 | 1.194772 | .2776449 | .2393439 | 1.158041 | .6840959 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.472467 | .0066838 | .0115236 | 173.1189 | .1611983 | .1101468 |
| #2 | 2.486979 | .0068159 | .0114650 | 173.0204 | .1597284 | .1105575 |
| #3 | 2.467622 | .0068311 | .0114726 | 172.3582 | .1634411 | .1116156 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4421211 | 133.5144 | 9.472684 | 23.59242 | .1888673 | -.007249 |
| Stddev | .0033218 | .2355    | .030617  | .07932   | .0005789 | .001090  |
| %RSD   | .7513399 | .1763752 | .3232161 | .3362240 | .3065350 | 15.03764 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4421052 | 133.5844 | 9.496777 | 23.57610 | .1886465 | -.007049 |
| #2 | .4454508 | 133.7069 | 9.483046 | 23.67864 | .1884312 | -.006272 |
| #3 | .4388072 | 133.2518 | 9.438231 | 23.52253 | .1895241 | -.008425 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 1.124758 | .3563445 | 3.079255 | 7.987114 | F 18.47128 | -.338955 |
| Stddev | .282646  | .0049433 | .021587  | .152292  | .03534     | .006419  |
| %RSD   | 25.12948 | 1.387219 | .7010469 | 1.906720 | .1913014   | 1.893888 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .899451  | .3575977 | 3.077556 | 7.993373 | 18.44257 | -.342255 |
| #2 | 1.032921 | .3605406 | 3.058568 | 7.831788 | 18.46052 | -.331557 |
| #3 | 1.441902 | .3508953 | 3.101641 | 8.136179 | 18.51074 | -.343054 |

Sample Name: P5041-01      Acquired: 12/10/2024 18:33:50      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0212035 | 3.458861 | 4.905383 | .2101124 | .8283080 | .6221564 |
| Stddev | .0001649 | .013347  | .002529  | .0003207 | .0030113 | .0024813 |
| %RSD   | .7777195 | .3858788 | .0515471 | .1526083 | .3635523 | .3988297 |
| #1     | .0213242 | 3.443680 | 4.904763 | .2098061 | .8286774 | .6240185 |
| #2     | .0212706 | 3.464150 | 4.908164 | .2104457 | .8311176 | .6231112 |
| #3     | .0210156 | 3.468753 | 4.903222 | .2100854 | .8251290 | .6193395 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0911111 |
| Stddev | .0043257 |
| %RSD   | 4.747737 |
| #1     | .0883201 |
| #2     | .0889191 |
| #3     | .0960940 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2927.112 | 31689.08 | 3172.789 | 2268.878 | 3813.693 |
| Stddev    | 7.914    | 349.13   | 10.630   | 27.179   | 18.200   |
| %RSD      | .2703830 | 1.101747 | .3350223 | 1.197917 | .4772242 |
| #1        | 2934.536 | 31948.02 | 3184.735 | 2282.887 | 3829.451 |
| #2        | 2928.016 | 31827.20 | 3169.257 | 2286.195 | 3817.857 |
| #3        | 2918.785 | 31292.02 | 3164.375 | 2237.552 | 3793.773 |

Sample Name: P5041-02      Acquired: 12/10/2024 18:37:40      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2312064 | .0059890 | 9.560599 | .0029381 | -.003994 | 65.53130 |
| Stddev | .0035231 | .0007677 | .046451  | .0051157 | .001969  | .15461   |
| %RSD   | 1.523794 | 12.81808 | .4858538 | 174.1197 | 49.29545 | .2359321 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2308943 | .0058351 | 9.590432 | -.002632 | -.003166 | 65.56120 |
| #2 | .2348751 | .0053099 | 9.584285 | .004020  | -.002575 | 65.36393 |
| #3 | .2278497 | .0068219 | 9.507080 | .007426  | -.006242 | 65.66879 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.453205 | .0067272 | .0114550 | 171.8328 | .1583459 | .1098403 |
| Stddev | .002098  | .0000407 | .0001111 | .4116    | .0003159 | .0007823 |
| %RSD   | .0855049 | .6043810 | .9702341 | .2395441 | .1995243 | .7121918 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.454939 | .0067318 | .0115593 | 172.0433 | .1580010 | .1103990 |
| #2 | 2.450873 | .0066844 | .0114674 | 171.3585 | .1584154 | .1101757 |
| #3 | 2.453803 | .0067653 | .0113381 | 172.0966 | .1586213 | .1089463 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4379902 | 132.3762 | 9.462725 | 23.62938 | .1875676 | -.006985 |
| Stddev | .0076794 | .4436    | .029987  | .12781   | .0010868 | .000266  |
| %RSD   | 1.753326 | .3351277 | .3168997 | .5409027 | .5794308 | 3.802452 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4298476 | 132.3216 | 9.488471 | 23.75641 | .1885970 | -.007291 |
| #2 | .4390208 | 131.9624 | 9.429800 | 23.63093 | .1876746 | -.006822 |
| #3 | .4451023 | 132.8446 | 9.469905 | 23.50080 | .1864312 | -.006840 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .6967740 | .3525237 | 3.053755 | 7.948310 | F 18.21283 | -.338265 |
| Stddev | .6714712 | .0037073 | .003885  | .182515  | .08816     | .001865  |
| %RSD   | 96.36858 | 1.051659 | .1272086 | 2.296271 | .4840340   | .5512225 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9678575 | .3568039 | 3.049568 | 7.796693 | 18.27565 | -.336430 |
| #2 | 1.190326 | .3504482 | 3.057243 | 7.897347 | 18.25078 | -.340158 |
| #3 | -.067861 | .3503191 | 3.054455 | 8.150889 | 18.11205 | -.338208 |

Sample Name: P5041-02      Acquired: 12/10/2024 18:37:40      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0211180 | 3.392633 | 4.876054 | .2072082 | .8297093 | .6242348 |
| Stddev | .0001344 | .020719  | .019206  | .0010451 | .0051540 | .0027929 |
| %RSD   | .6364508 | .6107062 | .3938822 | .5043873 | .6211764 | .4474148 |
| #1     | .0212718 | 3.411758 | 4.870651 | .2060309 | .8356603 | .6271561 |
| #2     | .0210231 | 3.395518 | 4.860128 | .2080267 | .8266793 | .6215910 |
| #3     | .0210591 | 3.370623 | 4.897382 | .2075669 | .8267884 | .6239575 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0900102 |
| Stddev | .0016495 |
| %RSD   | 1.832570 |
| #1     | .0914886 |
| #2     | .0882310 |
| #3     | .0903110 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2890.768 | 31584.35 | 3116.520 | 2252.510 | 3786.376 |
| Stddev    | 9.721    | 35.45    | 15.768   | 3.797    | 15.791   |
| %RSD      | .3362808 | .1122413 | .5059419 | .1685568 | .4170570 |
| #1        | 2886.887 | 31607.67 | 3122.430 | 2256.410 | 3781.342 |
| #2        | 2883.586 | 31543.55 | 3128.479 | 2252.295 | 3773.716 |
| #3        | 2901.830 | 31601.83 | 3098.651 | 2248.825 | 3804.071 |

Sample Name: P5041-01LX5      Acquired: 12/10/2024 18:41:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0480449 | .0021125 | 1.984514 | .0054391 | -.002851 | 14.94117 | .5656299 |
| Stddev | .0031876 | .0011559 | .002557  | .0014450 | .000414  | .04999   | .0028004 |
| %RSD   | 6.634574 | 54.71421 | .1288386 | 26.56699 | 14.53237 | .3345956 | .4950989 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0513175 | .0019220 | 1.986683 | .0048473 | -.003123 | 14.88715 | .5636429 |
| #2 | .0478674 | .0033518 | 1.985162 | .0070860 | -.003055 | 14.95057 | .5644141 |
| #3 | .0449498 | .0010638 | 1.981695 | .0043839 | -.002374 | 14.98580 | .5688328 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0015834 | .0022981 | 39.63291 | .0351345 | .0331792 | .0988898 | 30.66144 |
| Stddev | .0001408 | .0001080 | .08785   | .0007395 | .0005109 | .0056262 | .08445   |
| %RSD   | 8.893621 | 4.701456 | .2216628 | 2.104757 | 1.539798 | 5.689407 | .2754116 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0014436 | .0024181 | 39.57734 | .0351773 | .0334443 | .0946320 | 30.68492 |
| #2 | .0015813 | .0022676 | 39.73419 | .0358517 | .0325903 | .0967692 | 30.56774 |
| #3 | .0017252 | .0022086 | 39.58720 | .0343745 | .0335031 | .1052682 | 30.73167 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.181671 | 5.358811 | .0373478 | -.002630 | .4552964 | .0779713 | .6902641 |
| Stddev | .007057  | .080061  | .0010120 | .001542  | .5407217 | .0087086 | .0087114 |
| %RSD   | .3234862 | 1.493998 | 2.709689 | 58.61925 | 118.7626 | 11.16898 | 1.262043 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.175456 | 5.334859 | .0373985 | -.001856 | -.109236 | .0706589 | .6985061 |
| #2 | 2.189343 | 5.448113 | .0383334 | -.004405 | .506570  | .0756494 | .6811490 |
| #3 | 2.180213 | 5.293460 | .0363113 | -.001629 | .968555  | .0876055 | .6911372 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.568746 | 3.718199 | -.080254 | .0040837 | .6839369 | 1.134186 | .0345187 |
| Stddev | .086944  | .004487  | .000633  | .0002351 | .0021807 | .003163  | .0006358 |
| %RSD   | 5.542269 | .1206899 | .7882227 | 5.756649 | .3188388 | .2788811 | 1.841768 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.468552 | 3.722841 | -.080420 | .0039652 | .6857207 | 1.130542 | .0347995 |
| #2 | 1.624328 | 3.713884 | -.079555 | .0039315 | .6815059 | 1.136214 | .0337908 |
| #3 | 1.613358 | 3.717871 | -.080788 | .0043545 | .6845841 | 1.135803 | .0349656 |



Sample Name: P5041-01LX5      Acquired: 12/10/2024 18:41:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1867954 | .1424149 | -.002460 |
| Stddev | .0040717 | .0010537 | .004661  |
| %RSD   | 2.179752 | .7398631 | 189.4717 |
| #1     | .1872423 | .1416273 | .002826  |
| #2     | .1906252 | .1436118 | -.004226 |
| #3     | .1825187 | .1420055 | -.005981 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2582.949 | 28469.79 | 2754.704 | 2012.852 | 3850.310 |
| Stddev    | 5.370    | 113.23   | 15.805   | 6.056    | 5.980    |
| %RSD      | .2078849 | .3977122 | .5737304 | .3008870 | .1553011 |
| #1        | 2578.543 | 28451.21 | 2770.983 | 2012.739 | 3845.922 |
| #2        | 2588.930 | 28591.16 | 2739.421 | 2018.964 | 3857.121 |
| #3        | 2581.373 | 28367.00 | 2753.710 | 2006.853 | 3847.888 |

Sample Name: P5041-03      Acquired: 12/10/2024 18:45:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3182951 | .0981249 | 9.494938 | .1507188 | .1529614 | 69.14714 |
| Stddev | .0026020 | .0027555 | .056698  | .0011682 | .0009796 | 2.63245  |
| %RSD   | .8174961 | 2.808192 | .5971349 | .7751115 | .6404248 | 3.807022 |
| #1     | .3156196 | .0996914 | 9.557741 | .1505873 | .1530117 | 72.18658 |
| #2     | .3184488 | .0997401 | 9.479551 | .1496218 | .1519575 | 67.66095 |
| #3     | .3208169 | .0949432 | 9.447522 | .1519472 | .1539148 | 67.59388 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 6.096958 | .0974655 | .1039023 | 171.8238 | .5249846 | 1.086831 |
| Stddev | .217635  | .0031448 | .0006352 | 6.4375   | .0107018 | .007009  |
| %RSD   | 3.569570 | 3.226622 | .6113100 | 3.746589 | 2.038504 | .6449085 |
| #1     | 6.348260 | .1010482 | .1046156 | 179.2526 | .5127969 | 1.094208 |
| #2     | 5.971944 | .0951610 | .1036935 | 168.3357 | .5328459 | 1.086026 |
| #3     | 5.970668 | .0961873 | .1033979 | 167.8831 | .5293111 | 1.080259 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8669256 | 134.7619 | 10.29128 | 23.42294 | 1.172917 | .0740759 |
| Stddev | .0392467 | 5.2682   | .35234   | .90772   | .008709  | .0001488 |
| %RSD   | 4.527110 | 3.909299 | 3.423669 | 3.875366 | .7424753 | .2008809 |
| #1     | .9116518 | 140.8302 | 10.69793 | 24.46731 | 1.182039 | .0740098 |
| #2     | .8382397 | 132.0958 | 10.07718 | 22.97772 | 1.172023 | .0739716 |
| #3     | .8508854 | 131.3595 | 10.09872 | 22.82378 | 1.164690 | .0742463 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .9006630 | 1.266608 | 3.753619 | 8.052604 | F 17.99994 | -.330767 |
| Stddev | .6871720 | .056620  | .062363  | .262596  | .09551     | .011340  |
| %RSD   | 76.29625 | 4.470186 | 1.661397 | 3.261009 | .5306182   | 3.428275 |
| #1     | .7465166 | 1.331300 | 3.684660 | 8.354610 | 18.10450   | -.342592 |
| #2     | .3036556 | 1.242450 | 3.806059 | 7.878129 | 17.97804   | -.319985 |
| #3     | 1.651817 | 1.226075 | 3.770137 | 7.925072 | 17.91728   | -.329726 |

Sample Name: P5041-03      Acquired: 12/10/2024 18:45:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0209460 | 3.383938 | 4.806402 | .2049373 | .8222690 | .6163751 |
| Stddev | .0001743 | .017572  | .150459  | .0027520 | .0274326 | .0203945 |
| %RSD   | .8319475 | .5192637 | 3.130394 | 1.342856 | 3.336203 | 3.308775 |
| #1     | .0209128 | 3.399463 | 4.976164 | .2075368 | .8536505 | .6398604 |
| #2     | .0207906 | 3.387490 | 4.689528 | .2052204 | .8028437 | .6031278 |
| #3     | .0211344 | 3.364862 | 4.753514 | .2020547 | .8103128 | .6061371 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0900121 |
| Stddev | .0073629 |
| %RSD   | 8.179896 |
| #1     | .0972064 |
| #2     | .0903384 |
| #3     | .0824915 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2923.196 | 32354.17 | 3135.787 | 2294.206 | 3839.623 |
| Stddev    | 9.698    | 466.63   | 109.773  | 31.426   | 19.813   |
| %RSD      | .3317564 | 1.442260 | 3.500663 | 1.369781 | .5160267 |
| #1        | 2915.191 | 32859.17 | 3010.081 | 2329.611 | 3819.916 |
| #2        | 2920.417 | 31938.96 | 3212.736 | 2269.616 | 3839.412 |
| #3        | 2933.980 | 32264.39 | 3184.545 | 2283.392 | 3859.541 |

Sample Name: P5042-01      Acquired: 12/10/2024 18:49:13      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1284278 | .0072712 | 2.500005 | -.001371 | -.002788 | 68.96950 | 1.497378 |
| Stddev | .0015994 | .0007306 | .036268  | .003693  | .004879  | 1.00226  | .023163  |
| %RSD   | 1.245375 | 10.04760 | 1.450723 | 269.3792 | 175.0115 | 1.453188 | 1.546881 |
| #1     | .1293541 | .0077421 | 2.480720 | -.005348 | -.008378 | 69.48077 | 1.505848 |
| #2     | .1293483 | .0064296 | 2.541841 | -.000714 | .000613  | 67.81472 | 1.471173 |
| #3     | .1265809 | .0076420 | 2.477454 | .001949  | -.000598 | 69.61302 | 1.515114 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0072107 | .0084479 | 133.2050 | .1171192 | .1257808 | .4904064 | 173.2357 |
| Stddev | .0000873 | .0001017 | 1.9199   | .0007401 | .0015443 | .0139856 | 2.3778   |
| %RSD   | 1.210971 | 1.203335 | 1.441340 | .6319437 | 1.227727 | 2.851835 | 1.372605 |
| #1     | .0072795 | .0084770 | 134.1903 | .1173508 | .1247044 | .4980386 | 174.5500 |
| #2     | .0072401 | .0085318 | 130.9924 | .1177159 | .1275502 | .4742652 | 170.4908 |
| #3     | .0071124 | .0083349 | 134.4321 | .1162910 | .1250878 | .4989154 | 174.6663 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 13.37916 | 38.44643 | .1971514 | -.011429 | .8740198 | .1570916 | 1.661234 |
| Stddev | .20132   | .40923   | .0019440 | .000419  | .6916265 | .0031173 | .014887  |
| %RSD   | 1.504739 | 1.064405 | .9860301 | 3.663329 | 79.13168 | 1.984406 | .8961693 |
| #1     | 13.47756 | 38.74188 | .1965034 | -.011720 | 1.200717 | .1581122 | 1.659446 |
| #2     | 13.14756 | 37.97934 | .1993366 | -.011619 | .079562  | .1535919 | 1.647322 |
| #3     | 13.51234 | 38.61809 | .1956142 | -.010949 | 1.341780 | .1595706 | 1.676935 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 9.459074 | 8.663444 | -.460350 | .0059322 | 2.754918 | 5.828430 | .3464366 |
| Stddev | .156874  | .124066  | .002676  | .0002050 | .045025  | .047354  | .0059447 |
| %RSD   | 1.658447 | 1.432062 | .5812980 | 3.455954 | 1.634361 | .8124656 | 1.715967 |
| #1     | 9.430450 | 8.605680 | -.461060 | .0057527 | 2.724742 | 5.878723 | .3469719 |
| #2     | 9.318483 | 8.805859 | -.457391 | .0058883 | 2.806672 | 5.784700 | .3520955 |
| #3     | 9.628288 | 8.578792 | -.462600 | .0061556 | 2.733342 | 5.821867 | .3402423 |

Sample Name: P5042-01      Acquired: 12/10/2024 18:49:13      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .6196112 | .9512900 | .0385422 |
| Stddev | .0105070 | .0158011 | .0044963 |
| %RSD   | 1.695742 | 1.661013 | 11.66580 |
| #1     | .6204938 | .9594490 | .0406038 |
| #2     | .6086907 | .9330774 | .0333848 |
| #3     | .6296490 | .9613437 | .0416380 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2989.100 | 32574.78 | 3264.621 | 2321.097 | 3726.991 |
| Stddev    | 24.880   | 122.15   | 14.544   | 5.455    | 42.280   |
| %RSD      | .8323669 | .3749706 | .4455028 | .2350074 | 1.134415 |
| #1        | 2996.495 | 32711.81 | 3248.533 | 2327.197 | 3748.018 |
| #2        | 2961.361 | 32477.34 | 3276.838 | 2316.688 | 3678.320 |
| #3        | 3009.445 | 32535.20 | 3268.491 | 2319.406 | 3754.634 |

Sample Name: P5042-02      Acquired: 12/10/2024 18:53:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1287286 | .0072564 | 2.491583 | -.000657 | -.003992 | 69.04628 | 1.508956 |
| Stddev | .0011875 | .0008990 | .004015  | .001615  | .000722  | .61159   | .009107  |
| %RSD   | .9224953 | 12.38934 | .1611304 | 245.7596 | 18.08776 | .8857624 | .6035320 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1279456 | .0068121 | 2.491863 | .001183  | -.004346 | 68.60917 | 1.504070 |
| #2 | .1281452 | .0066660 | 2.495450 | -.001841 | -.004467 | 68.78448 | 1.503334 |
| #3 | .1300950 | .0082910 | 2.487436 | -.001313 | -.003161 | 69.74518 | 1.519463 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0071765 | .0083805 | 133.9119 | .1165361 | .1244751 | .5014670 | 174.2288 |
| Stddev | .0001950 | .0001311 | 1.1960   | .0019817 | .0003093 | .0080319 | 1.4948   |
| %RSD   | 2.716550 | 1.564828 | .8931553 | 1.700496 | .2484470 | 1.601672 | .8579558 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0070522 | .0084815 | 133.1699 | .1175168 | .1241470 | .4933870 | 173.1481 |
| #2 | .0070762 | .0084278 | 133.2742 | .1142553 | .1245170 | .5094498 | 173.6035 |
| #3 | .0074012 | .0082323 | 135.2917 | .1178362 | .1247612 | .5015643 | 175.9347 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 13.38729 | 38.39321 | .1945308 | -.010049 | .8509782 | .1665441 | 1.641094 |
| Stddev | .13591   | .47782   | .0010745 | .000809  | .4227719 | .0022895 | .026162  |
| %RSD   | 1.015246 | 1.244535 | .5523289 | 8.050461 | 49.68070 | 1.374695 | 1.594206 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 13.31380 | 38.25545 | .1954610 | -.009962 | 1.117258 | .1689645 | 1.656924 |
| #2 | 13.30395 | 37.99941 | .1947767 | -.009287 | 1.072179 | .1644131 | 1.610896 |
| #3 | 13.54413 | 38.92478 | .1933547 | -.010898 | .363497  | .1662546 | 1.655463 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 9.494141 | 8.644209 | -.463560 | .0060098 | 2.747731 | 5.802488 | .3471474 |
| Stddev | .176594  | .012872  | .012528  | .0002148 | .009979  | .116631  | .0011658 |
| %RSD   | 1.860032 | .1489099 | 2.702520 | 3.574785 | .3631891 | 2.010017 | .3358099 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 9.318739 | 8.640905 | -.458666 | .0060022 | 2.755970 | 5.746154 | .3476830 |
| #2 | 9.491779 | 8.658411 | -.454218 | .0057989 | 2.736635 | 5.724718 | .3458101 |
| #3 | 9.671904 | 8.633311 | -.477796 | .0062283 | 2.750589 | 5.936592 | .3479491 |

Sample Name: P5042-02      Acquired: 12/10/2024 18:53:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .6248292 | .9515195 | .0379391 |
| Stddev | .0047785 | .0097704 | .0021149 |
| %RSD   | .7647750 | 1.026824 | 5.574424 |
| #1     | .6202262 | .9478598 | .0403633 |
| #2     | .6244956 | .9441072 | .0369828 |
| #3     | .6297658 | .9625914 | .0364712 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3019.799 | 32905.82 | 3285.676 | 2351.826 | 3762.324 |
| Stddev    | 8.130    | 396.52   | 50.358   | 29.943   | 9.016    |
| %RSD      | .2692397 | 1.205024 | 1.532653 | 1.273160 | .2396466 |
| #1        | 3012.354 | 32770.50 | 3309.574 | 2349.318 | 3751.944 |
| #2        | 3018.568 | 33352.29 | 3319.635 | 2382.944 | 3766.814 |
| #3        | 3028.475 | 32594.67 | 3227.818 | 2323.216 | 3768.214 |

Sample Name: P5042-01LX5      Acquired: 12/10/2024 18:56:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0241831 | .0028728 | .4962245 | .0004008 | -.001211 | 15.82763 | .3478329 |
| Stddev | .0010472 | .0011334 | .0057135 | .0023017 | .001806  | .02190   | .0012219 |
| %RSD   | 4.330419 | 39.45128 | 1.151388 | 574.2424 | 149.1140 | .1383808 | .3512970 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0246696 | .0023939 | .5015312 | .0012413 | -.002292 | 15.80418 | .3486038 |
| #2 | .0229811 | .0041670 | .4969657 | -.002203 | .000874  | 15.83114 | .3484709 |
| #3 | .0248987 | .0020575 | .4901766 | .002164  | -.002215 | 15.84757 | .3464240 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0016763 | .0016867 | 30.88387 | .0258782 | .0331510 | .1153704 | 40.28345 |
| Stddev | .0001230 | .0000045 | .03725   | .0013073 | .0001367 | .0037585 | .06975   |
| %RSD   | 7.335398 | .2685833 | .1206252 | 5.051759 | .4124349 | 3.257770 | .1731386 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0018179 | .0016868 | 30.85901 | .0270430 | .0331989 | .1196276 | 40.35897 |
| #2 | .0016144 | .0016912 | 30.86589 | .0244643 | .0332574 | .1139724 | 40.26994 |
| #3 | .0015965 | .0016822 | 30.92670 | .0261275 | .0329968 | .1125112 | 40.22145 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.110861 | 8.874163 | .0383027 | -.003026 | .1901624 | .0412734 | .3813697 |
| Stddev | .008797  | .064238  | .0006507 | .000598  | .5528979 | .0056571 | .0055297 |
| %RSD   | .2827947 | .7238772 | 1.698756 | 19.77565 | 290.7505 | 13.70642 | 1.449958 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.111187 | 8.809738 | .0385812 | -.003438 | -.427903 | .0440385 | .3858685 |
| #2 | 3.101906 | 8.938213 | .0387678 | -.003299 | .360657  | .0450161 | .3751962 |
| #3 | 3.119492 | 8.874539 | .0375591 | -.002339 | .637733  | .0347655 | .3830443 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.877256 | 1.692451 | -.113003 | .0006976 | .5357538 | 1.404674 | .0589650 |
| Stddev | .086719  | .014187  | .001793  | .0002669 | .0059965 | .003340  | .0014701 |
| %RSD   | 4.619479 | .8382520 | 1.586924 | 38.25490 | 1.119257 | .2377944 | 2.493224 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.912112 | 1.708403 | -.113231 | .0009973 | .5423831 | 1.406890 | .0594036 |
| #2 | 1.941124 | 1.687701 | -.114671 | .0004856 | .5307080 | 1.406300 | .0573255 |
| #3 | 1.778532 | 1.681248 | -.111107 | .0006100 | .5341702 | 1.400832 | .0601659 |



Sample Name: P5042-01LX5      Acquired: 12/10/2024 18:56:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1435485 | .2201422 | -.024976 |
| Stddev | .0028228 | .0007407 | .003522  |
| %RSD   | 1.966429 | .3364738 | 14.09993 |
| #1     | .1408574 | .2205652 | -.024463 |
| #2     | .1464867 | .2192869 | -.028726 |
| #3     | .1433015 | .2205746 | -.021739 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2613.962 | 28879.13 | 2803.304 | 2049.178 | 3845.175 |
| Stddev    | 14.834   | 135.52   | 19.267   | 13.026   | 29.014   |
| %RSD      | .5674795 | .4692698 | .6872932 | .6356926 | .7545684 |
| #1        | 2596.923 | 28772.75 | 2801.635 | 2035.115 | 3811.820 |
| #2        | 2620.967 | 29031.71 | 2784.927 | 2060.831 | 3859.128 |
| #3        | 2623.996 | 28832.93 | 2823.352 | 2051.589 | 3864.576 |

Sample Name: P5042-03      Acquired: 12/10/2024 19:00:46      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2088738 | .0965660 | 2.449293 | .1429665 | .1485082 | 70.40306 | 4.864656 |
| Stddev | .0036036 | .0014167 | .022883  | .0055797 | .0036991 | .38372   | .023451  |
| %RSD   | 1.725257 | 1.467120 | .9342577 | 3.902808 | 2.490833 | .5450399 | .4820618 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2062010 | .0955819 | 2.439630 | .1373071 | .1483574 | 69.96485 | 4.837640 |
| #2 | .2074483 | .0981898 | 2.432828 | .1431293 | .1448868 | 70.56541 | 4.876576 |
| #3 | .2129721 | .0959263 | 2.475423 | .1484630 | .1522803 | 70.67893 | 4.879753 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0933524 | .1022395 | 129.1797 | .4840034 | 1.116597 | .8841488 | 169.1462 |
| Stddev | .0009647 | .0007842 | .7380    | .0011454 | .011198  | .0066528 | 1.0804   |
| %RSD   | 1.033368 | .7670429 | .5713260 | .2366506 | 1.002849 | .7524565 | .6387241 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0922398 | .1018224 | 128.4515 | .4852567 | 1.111209 | .8829309 | 167.9222 |
| #2 | .0939545 | .1017520 | 129.1603 | .4837426 | 1.109112 | .8781891 | 169.5490 |
| #3 | .0938630 | .1031442 | 129.9272 | .4830108 | 1.129471 | .8913265 | 169.9673 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 13.81748 | 37.36702 | 1.196208 | .0689656 | .6873765 | 1.031279 | 2.365487 |
| Stddev | .10443   | .11396   | .009255  | .0006211 | .4020434 | .002571  | .012002  |
| %RSD   | .7557667 | .3049776 | .7737255 | .9005418 | 58.48954 | .2492662 | .5073890 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 13.71746 | 37.27073 | 1.191008 | .0682589 | .2247923 | 1.029723 | 2.376904 |
| #2 | 13.80917 | 37.33750 | 1.190723 | .0692133 | .9525912 | 1.034246 | 2.352975 |
| #3 | 13.92582 | 37.49284 | 1.206894 | .0694245 | .8847461 | 1.029868 | 2.366582 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.966198 | 8.335409 | -.458427 | .0061559 | 2.653700 | 5.928839 | .3341879 |
| Stddev | .135207  | .070221  | .003204  | .0001773 | .029956  | .063632  | .0021489 |
| %RSD   | 1.507960 | .8424394 | .6989479 | 2.879740 | 1.128828 | 1.073259 | .6430261 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.845989 | 8.293933 | -.454753 | .0063462 | 2.639808 | 5.855824 | .3321357 |
| #2 | 8.940029 | 8.295808 | -.460641 | .0061258 | 2.633213 | 5.958238 | .3340060 |
| #3 | 9.112577 | 8.416486 | -.459887 | .0059955 | 2.688080 | 5.972456 | .3364220 |

Sample Name: P5042-03      Acquired: 12/10/2024 19:00:46      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .6181173 | .9176298 | .0313650 |
| Stddev | .0032964 | .0077689 | .0015543 |
| %RSD   | .5332974 | .8466299 | 4.955488 |
| #1     | .6144889 | .9098644 | .0295721 |
| #2     | .6189353 | .9176226 | .0323334 |
| #3     | .6209277 | .9254023 | .0321893 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2970.309 | 32696.43 | 3281.037 | 2323.296 | 3746.581 |
| Stddev    | 14.640   | 31.43    | 33.976   | 2.406    | 24.874   |
| %RSD      | .4928839 | .0961322 | 1.035514 | .1035758 | .6639088 |
| #1        | 2980.398 | 32679.30 | 3320.197 | 2325.489 | 3757.446 |
| #2        | 2977.011 | 32732.70 | 3263.514 | 2323.679 | 3764.175 |
| #3        | 2953.517 | 32677.28 | 3259.401 | 2320.722 | 3718.123 |

Sample Name: P5043-01      Acquired: 12/10/2024 19:04:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0468702 | -.002836 | .2504523 | .0018773 | .0013268 | 70.07477 | .6247701 |
| Stddev | .0031431 | .002183  | .0007550 | .0042499 | .0003088 | .18127   | .0031678 |
| %RSD   | 6.705963 | 76.96988 | .3014393 | 226.3877 | 23.27412 | .2586819 | .5070369 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0450814 | -.001039 | .2512597 | -.002785 | .0011059 | 70.25900 | .6278076 |
| #2 | .0504994 | -.005266 | .2503334 | .005535  | .0016796 | 69.89661 | .6214864 |
| #3 | .0450298 | -.002204 | .2497638 | .002881  | .0011948 | 70.06870 | .6250162 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0060278 | .0023003 | 37.35375 | .0827810 | .0746474 | .1270341 | 150.5426 |
| Stddev | .0001490 | .0001089 | .16095   | .0012778 | .0004766 | .0033214 | .6672    |
| %RSD   | 2.472310 | 4.734375 | .4308888 | 1.543562 | .6384178 | 2.614562 | .4432188 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0060283 | .0022122 | 37.49809 | .0825036 | .0744427 | .1248261 | 151.2654 |
| #2 | .0058785 | .0022667 | 37.18019 | .0841747 | .0743073 | .1308538 | 149.9502 |
| #3 | .0061766 | .0024221 | 37.38296 | .0816648 | .0751921 | .1254223 | 150.4122 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.297124 | 17.80525 | .1025876 | -.013897 | .7169306 | .1623280 | .3244434 |
| Stddev | .012362  | .02163   | .0005502 | .000313  | .4560405 | .0051725 | .0096491 |
| %RSD   | .3749233 | .1214818 | .5363207 | 2.254127 | 63.61013 | 3.186441 | 2.974061 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.310312 | 17.78029 | .1025591 | -.013990 | .7477897 | .1655011 | .3354787 |
| #2 | 3.285800 | 17.81854 | .1020521 | -.013547 | 1.156758 | .1563593 | .3175949 |
| #3 | 3.295260 | 17.81693 | .1031514 | -.014152 | .246244  | .1651236 | .3202565 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.466233 | 3.385891 | -.427399 | .0023911 | .8940549 | 6.137211 | .0125612 |
| Stddev | .084290  | .017726  | .007688  | .0001440 | .0094077 | .019433  | .0006883 |
| %RSD   | 3.417774 | .5235360 | 1.798725 | 6.023090 | 1.052250 | .3166503 | 5.479513 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.372343 | 3.376551 | -.424442 | .0024349 | .8890833 | 6.136175 | .0131544 |
| #2 | 2.490965 | 3.374788 | -.436127 | .0022303 | .8881761 | 6.157142 | .0127228 |
| #3 | 2.535390 | 3.406334 | -.421630 | .0025082 | .9049054 | 6.118316 | .0118065 |

Sample Name: P5043-01      Acquired: 12/10/2024 19:04:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .7646850 | -.057937 | .0520618 |
| Stddev | .0074394 | .000524  | .0019422 |
| %RSD   | .9728670 | .9045836 | 3.730543 |
| #1     | .7661187 | -.058388 | .0513013 |
| #2     | .7566331 | -.058060 | .0542691 |
| #3     | .7713031 | -.057362 | .0506149 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2861.773 | 31449.88 | 3057.875 | 2225.932 | 3868.589 |
| Stddev    | 12.132   | 126.04   | 12.109   | 3.874    | 19.559   |
| %RSD      | .4239495 | .4007617 | .3959782 | .1740310 | .5055768 |
| #1        | 2863.148 | 31407.27 | 3048.544 | 2221.770 | 3872.526 |
| #2        | 2873.159 | 31350.67 | 3053.523 | 2229.433 | 3885.880 |
| #3        | 2849.011 | 31591.70 | 3071.558 | 2226.594 | 3847.361 |

Sample Name: P5043-02      Acquired: 12/10/2024 19:08:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0467148 | -.001754 | .2496880 | -.002476 | .0021646 | 70.03459 | .6276288 |
| Stddev | .0024427 | .000491  | .0017528 | .003028  | .0007055 | .14002   | .0012399 |
| %RSD   | 5.229007 | 28.01092 | .7019970 | 122.3175 | 32.59332 | .1999231 | .1975479 |
| #1     | .0440390 | -.001196 | .2487697 | -.004970 | .0015148 | 69.87487 | .6262121 |
| #2     | .0472799 | -.002122 | .2485852 | .000894  | .0020640 | 70.13617 | .6281587 |
| #3     | .0488254 | -.001944 | .2517092 | -.003350 | .0029151 | 70.09273 | .6285157 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0060370 | .0023366 | 37.23224 | .0837481 | .0747448 | .1305523 | 150.7711 |
| Stddev | .0001517 | .0001237 | .05859   | .0011437 | .0001461 | .0078955 | .3703    |
| %RSD   | 2.513177 | 5.294022 | .1573697 | 1.365679 | .1954835 | 6.047786 | .2456259 |
| #1     | .0059298 | .0023387 | 37.20082 | .0824374 | .0748839 | .1221445 | 150.3435 |
| #2     | .0059707 | .0022119 | 37.29984 | .0845440 | .0747578 | .1378092 | 150.9890 |
| #3     | .0062106 | .0024592 | 37.19606 | .0842627 | .0745926 | .1317031 | 150.9808 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.294371 | 17.71818 | .1032219 | -.013207 | 1.040113 | .1590573 | .3176123 |
| Stddev | .011895  | .02203   | .0002114 | .000567  | .112743  | .0104113 | .0051212 |
| %RSD   | .3610657 | .1243504 | .2047581 | 4.294430 | 10.83945 | 6.545624 | 1.612407 |
| #1     | 3.290918 | 17.70877 | .1030610 | -.013541 | 1.169273 | .1470799 | .3163768 |
| #2     | 3.307611 | 17.74336 | .1031433 | -.012552 | .989648  | .1641506 | .3232382 |
| #3     | 3.284585 | 17.70242 | .1034612 | -.013527 | .961418  | .1659415 | .3132218 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.467511 | 3.412450 | -.424268 | .0021655 | .8982200 | 6.118127 | .0141735 |
| Stddev | .103507  | .022934  | .002709  | .0001713 | .0043514 | .023889  | .0001916 |
| %RSD   | 4.194793 | .6720706 | .6384593 | 7.910969 | .4844435 | .3904621 | 1.351606 |
| #1     | 2.568630 | 3.401798 | -.421864 | .0020743 | .9008790 | 6.120779 | .0142926 |
| #2     | 2.361771 | 3.396778 | -.423738 | .0020590 | .8931984 | 6.093023 | .0142754 |
| #3     | 2.472131 | 3.438773 | -.427203 | .0023631 | .9005827 | 6.140580 | .0139525 |

Sample Name: P5043-02      Acquired: 12/10/2024 19:08:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .7591919 | -.057967 | .0494344 |
| Stddev | .0074457 | .000426  | .0036033 |
| %RSD   | .9807377 | .7348833 | 7.289032 |
| #1     | .7560149 | -.057503 | .0535875 |
| #2     | .7676991 | -.058059 | .0475758 |
| #3     | .7538617 | -.058340 | .0471399 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2875.936 | 31717.68 | 3088.501 | 2245.841 | 3873.752 |
| Stddev    | 7.600    | 284.46   | 6.310    | 14.547   | 12.244   |
| %RSD      | .2642514 | .8968561 | .2043155 | .6477428 | .3160733 |
| #1        | 2877.114 | 31959.94 | 3088.752 | 2254.992 | 3874.715 |
| #2        | 2882.878 | 31404.45 | 3082.069 | 2229.067 | 3885.487 |
| #3        | 2867.816 | 31788.64 | 3094.682 | 2253.465 | 3861.056 |

Sample Name: P5043-01LX5      Acquired: 12/10/2024 19:12:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0108586 | -.001458 | .0507955 | .0022038 | .0005621 | 15.62458 | .1400574 |
| Stddev | .0046896 | .001805  | .0018775 | .0010499 | .0018358 | .05686   | .0020346 |
| %RSD   | 43.18763 | 123.7882 | 3.696210 | 47.64220 | 326.6292 | .3639123 | 1.452672 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0076725 | -.001785 | .0495517 | .0020094 | -.000176 | 15.58372 | .1390412 |
| #2 | .0162436 | .000488  | .0498796 | .0033374 | -.000790 | 15.68951 | .1423999 |
| #3 | .0086597 | -.003077 | .0529551 | .0012646 | .002652  | 15.60050 | .1387312 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0013235 | .0005125 | 8.392441 | .0180676 | .0170827 | .0275839 | 33.71058 |
| Stddev | .0000310 | .0000192 | .037117  | .0011014 | .0001237 | .0022234 | .08290   |
| %RSD   | 2.340339 | 3.743545 | .4422621 | 6.096129 | .7240222 | 8.060497 | .2459106 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0013033 | .0005337 | 8.435284 | .0180973 | .0171528 | .0300077 | 33.69930 |
| #2 | .0013592 | .0005075 | 8.370034 | .0169516 | .0171554 | .0271051 | 33.79854 |
| #3 | .0013081 | .0004963 | 8.372004 | .0191538 | .0169399 | .0256389 | 33.63390 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7469713 | 3.958011 | .0203066 | -.003619 | .2161651 | .0386551 | .0698225 |
| Stddev | .0036190 | .086919  | .0001180 | .000167  | .2866416 | .0030342 | .0048767 |
| %RSD   | .4844929 | 2.196017 | .5811117 | 4.621929 | 132.6031 | 7.849360 | 6.984379 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .7494726 | 4.057779 | .0202189 | -.003557 | -.062271 | .0352381 | .0733776 |
| #2 | .7428215 | 3.917593 | .0202601 | -.003491 | .510362  | .0396931 | .0718269 |
| #3 | .7486197 | 3.898661 | .0204408 | -.003808 | .200404  | .0410340 | .0642630 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1065655 | .6975489 | -.101973 | -.000233 | .1818661 | 1.423573 | -.005961 |
| Stddev | .1574021 | .0020302 | .001603  | .000293  | .0034128 | .013114  | .000820  |
| %RSD   | 147.7046 | .2910548 | 1.572324 | 125.6204 | 1.876561 | .9211734 | 13.75752 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0061630 | .6978177 | -.103631 | -.000471 | .1794361 | 1.429265 | -.005056 |
| #2 | .2879724 | .6953976 | -.101858 | -.000323 | .1857679 | 1.432880 | -.006172 |
| #3 | .0255610 | .6994314 | -.100430 | .000094  | .1803944 | 1.408576 | -.006654 |



Sample Name: P5043-01LX5      Acquired: 12/10/2024 19:12:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1729576 | -.012775 | -.020273 |
| Stddev | .0032859 | .000202  | .002436  |
| %RSD   | 1.899812 | 1.584319 | 12.01670 |
| #1     | .1695033 | -.012764 | -.022890 |
| #2     | .1733255 | -.012579 | -.019858 |
| #3     | .1760441 | -.012983 | -.018071 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2613.850 | 28979.69 | 2799.739 | 2052.676 | 3930.678 |
| Stddev    | 7.963    | 291.59   | 20.765   | 24.980   | 10.851   |
| %RSD      | .3046618 | 1.006177 | .7416635 | 1.216966 | .2760592 |
| #1        | 2606.331 | 28876.55 | 2793.180 | 2049.850 | 3921.785 |
| #2        | 2622.194 | 29308.83 | 2783.047 | 2078.949 | 3942.769 |
| #3        | 2613.025 | 28753.69 | 2822.992 | 2029.228 | 3927.481 |

Sample Name: P5043-03      Acquired: 12/10/2024 19:16:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1312930 | .0891965 | .2894326 | .1529458 | .1608943 | 72.97117 | 4.315334 |
| Stddev | .0010919 | .0018836 | .0015882 | .0020275 | .0023773 | .24265   | .014711  |
| %RSD   | .8316584 | 2.111769 | .5487259 | 1.325614 | 1.477543 | .3325253 | .3409120 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1324403 | .0901015 | .2908303 | .1532199 | .1595382 | 72.76570 | 4.303869 |
| #2 | .1311721 | .0870312 | .2897620 | .1507951 | .1636393 | 73.23887 | 4.331922 |
| #3 | .1302666 | .0904568 | .2877055 | .1548222 | .1595055 | 72.90895 | 4.310213 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0977499 | .0968166 | 37.38537 | .4753820 | 1.073400 | .5666482 | 151.9548 |
| Stddev | .0008757 | .0006294 | .15908   | .0016524 | .004504  | .0050811 | .5119    |
| %RSD   | .8958856 | .6500565 | .4255200 | .3475920 | .4195606 | .8966975 | .3368732 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0973748 | .0974850 | 37.24617 | .4766572 | 1.078005 | .5719976 | 151.6345 |
| #2 | .0971242 | .0967296 | 37.55877 | .4735153 | 1.073188 | .5660606 | 152.5451 |
| #3 | .0987507 | .0962353 | 37.35117 | .4759736 | 1.069006 | .5618865 | 151.6847 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.249494 | 17.67094 | 1.122833 | .0703476 | .5334384 | 1.087667 | 1.102634 |
| Stddev | .023977  | .07158   | .005945  | .0002216 | .2096579 | .009853  | .011752  |
| %RSD   | .5642391 | .4050573 | .5294875 | .3150233 | 39.30311 | .9058827 | 1.065800 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.241762 | 17.60674 | 1.128538 | .0704358 | .3912619 | 1.086755 | 1.105867 |
| #2 | 4.276383 | 17.74812 | 1.123287 | .0705115 | .7742199 | 1.097945 | 1.112432 |
| #3 | 4.230336 | 17.65796 | 1.116673 | .0700954 | .4348334 | 1.078302 | 1.089605 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.397137 | 3.433001 | -.442048 | .0019320 | .9269723 | 6.161765 | .0134899 |
| Stddev | .170859  | .019624  | .003149  | .0000741 | .0027161 | .029936  | .0016774 |
| %RSD   | 7.127610 | .5716269 | .7124052 | 3.837365 | .2930087 | .4858306 | 12.43437 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.218380 | 3.452292 | -.445244 | .0019764 | .9298730 | 6.159772 | .0140624 |
| #2 | 2.558814 | 3.433653 | -.441952 | .0019732 | .9265548 | 6.132875 | .0148061 |
| #3 | 2.414217 | 3.413060 | -.438948 | .0018464 | .9244892 | 6.192647 | .0116013 |

Sample Name: P5043-03      Acquired: 12/10/2024 19:16:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKM2S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .7636629 | -.058845 | .0485860 |
| Stddev | .0087466 | .000444  | .0019226 |
| %RSD   | 1.145345 | .7541782 | 3.957171 |
| #1     | .7584118 | -.058439 | .0484767 |
| #2     | .7737598 | -.058778 | .0467203 |
| #3     | .7588169 | -.059319 | .0505609 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2890.268 | 31948.82 | 3114.283 | 2278.155 | 3889.673 |
| Stddev    | 10.977   | 91.89    | 10.120   | 10.370   | 16.298   |
| %RSD      | .3797932 | .2876019 | .3249635 | .4551965 | .4190008 |
| #1        | 2879.755 | 31842.83 | 3110.625 | 2268.385 | 3871.368 |
| #2        | 2901.656 | 32005.97 | 3125.724 | 2289.036 | 3902.610 |
| #3        | 2889.392 | 31997.66 | 3106.500 | 2277.044 | 3895.040 |

Sample Name: P4977-03      Acquired: 12/10/2024 19:20:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0138540 | .0122074 | .0328907 | -.037477 | -.017691 | 14.20222 |
| Stddev | .0017275 | .0016874 | .0013319 | .003650  | .000201  | .17264   |
| %RSD   | 12.46944 | 13.82258 | 4.049467 | 9.738504 | 1.135882 | 1.215574 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0118888 | .0116933 | .0343988 | -.038793 | -.017706 | 14.30954 |
| #2 | .0151331 | .0140921 | .0323982 | -.033352 | -.017483 | 14.29405 |
| #3 | .0145400 | .0108369 | .0318753 | -.040286 | -.017884 | 14.00307 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0649781 | .0013763 | .0009147 | F 1296.241 | .0393410 | .0659914 |
| Stddev | .0017659 | .0001342 | .0000303 | 18.561     | .0005649 | .0006834 |
| %RSD   | 2.717656 | 9.750539 | 3.316009 | 1.431913   | 1.435892 | 1.035576 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0666441 | .0013887 | .0009408 | 1308.604 | .0388784 | .0666070 |
| #2 | .0651632 | .0015039 | .0008814 | 1305.223 | .0399706 | .0652560 |
| #3 | .0631269 | .0012363 | .0009221 | 1274.898 | .0391740 | .0661113 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0486635 | 41.86525 | 2.387758 | 191.1119 | .0730500 | -.003593 |
| Stddev | .0094139 | .52253   | .031352  | 2.4529   | .0004896 | .001951  |
| %RSD   | 19.34488 | 1.248125 | 1.313030 | 1.283503 | .6702653 | 54.29680 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0462483 | 42.25641 | 2.404106 | 191.8862 | .0728470 | -.005803 |
| #2 | .0406925 | 42.06752 | 2.407556 | 193.0842 | .0726945 | -.002867 |
| #3 | .0590497 | 41.27182 | 2.351610 | 188.3652 | .0736085 | -.002109 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6119801 | .0621205 | .1395470 | .7332986 | 2.028418 | -.092208 |
| Stddev | .2534865 | .0044583 | .0024535 | .0433736 | .007547  | .003566  |
| %RSD   | 41.42072 | 7.176814 | 1.758212 | 5.914862 | .3720479 | 3.867078 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3575348 | .0655817 | .1423801 | .7808112 | 2.032569 | -.093156 |
| #2 | .6139088 | .0570897 | .1381233 | .7232604 | 2.032979 | -.088264 |
| #3 | .8644968 | .0636902 | .1381375 | .6958243 | 2.019707 | -.095204 |

Sample Name: P4977-03      Acquired: 12/10/2024 19:20:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0045780 | 2.819679 | 1.859659 | .0357120 | .4522572 | 1.042790 |
| Stddev | .0008396 | .011336  | .015799  | .0028119 | .0075886 | .015057  |
| %RSD   | 18.33906 | .4020144 | .8495628 | 7.873895 | 1.677929 | 1.443910 |
| #1     | .0039565 | 2.828230 | 1.853576 | .0387079 | .4569943 | 1.051380 |
| #2     | .0042444 | 2.823987 | 1.877596 | .0331299 | .4562727 | 1.051587 |
| #3     | .0055330 | 2.806821 | 1.847807 | .0352983 | .4435046 | 1.025405 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.026160 |
| Stddev | .002283  |
| %RSD   | 8.726485 |
| #1     | -.023538 |
| #2     | -.027705 |
| #3     | -.027237 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2419.958 | 26351.86 | 2786.971 | 1876.958 | 3232.122 |
| Stddev    | 5.697    | 192.62   | 19.547   | 12.617   | 13.396   |
| %RSD      | .2354350 | .7309570 | .7013658 | .6722123 | .4144497 |
| #1        | 2414.512 | 26138.86 | 2777.601 | 1865.653 | 3217.682 |
| #2        | 2419.485 | 26513.83 | 2773.874 | 1890.569 | 3234.541 |
| #3        | 2425.877 | 26402.88 | 2809.439 | 1874.651 | 3244.144 |

Sample Name: P4977-04      Acquired: 12/10/2024 19:23:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0086500 | .0120320 | .0320997 | -.033496 | -.018392 | 14.29031 |
| Stddev | .0031408 | .0011305 | .0004921 | .003073  | .001437  | .07181   |
| %RSD   | 36.30982 | 9.395885 | 1.532908 | 9.172698 | 7.812466 | .5024993 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0116589 | .0113645 | .0320521 | -.030104 | -.017606 | 14.35284 |
| #2 | .0053921 | .0133373 | .0316332 | -.036091 | -.017520 | 14.30622 |
| #3 | .0088991 | .0113943 | .0326139 | -.034294 | -.020050 | 14.21189 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0646136 | .0014580 | .0008677 | F 1298.225 | .0391374 | .0664910 |
| Stddev | .0005551 | .0000415 | .0000575 | 5.076      | .0007132 | .0006278 |
| %RSD   | .8591475 | 2.843831 | 6.625906 | .3910134   | 1.822384 | .9441153 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0639727 | .0015038 | .0009173 | 1300.324 | .0399561 | .0658664 |
| #2 | .0649209 | .0014230 | .0008047 | 1301.915 | .0386507 | .0664848 |
| #3 | .0649471 | .0014472 | .0008812 | 1292.436 | .0388054 | .0671219 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0529879 | 41.96544 | 2.401117 | 193.4014 | .0716415 | -.004520 |
| Stddev | .0021220 | .05856   | .010759  | .6977    | .0006375 | .000395  |
| %RSD   | 4.004755 | .1395316 | .4480771 | .3607302 | .8898026 | 8.742314 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0536149 | 42.00922 | 2.406999 | 193.9314 | .0716441 | -.004225 |
| #2 | .0547258 | 41.98818 | 2.407653 | 193.6617 | .0710028 | -.004368 |
| #3 | .0506230 | 41.89893 | 2.388700 | 192.6110 | .0722777 | -.004969 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7702172 | .0563929 | .1310328 | .9476001 | 2.002600 | -.086222 |
| Stddev | .2680462 | .0078771 | .0041262 | .1651489 | .008275  | .000614  |
| %RSD   | 34.80138 | 13.96819 | 3.148965 | 17.42812 | .4132027 | .7124039 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4616336 | .0474716 | .1352814 | 1.052446 | 1.994018 | -.085767 |
| #2 | .9037511 | .0593182 | .1307759 | 1.033125 | 2.003252 | -.086921 |
| #3 | .9452669 | .0623887 | .1270410 | .757229  | 2.010529 | -.085979 |

Sample Name: P4977-04      Acquired: 12/10/2024 19:23:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0044236 | 2.785631 | 1.870576 | .0353324 | .4587017 | 1.048950 |
| Stddev | .0000991 | .017467  | .009321  | .0003133 | .0069787 | .002904  |
| %RSD   | 2.240649 | .6270536 | .4982806 | .8867385 | 1.521409 | .2768760 |
| #1     | .0044731 | 2.765587 | 1.875380 | .0353728 | .4598597 | 1.050252 |
| #2     | .0043095 | 2.797603 | 1.876514 | .0350009 | .4650289 | 1.050975 |
| #3     | .0044883 | 2.793702 | 1.859833 | .0356236 | .4512163 | 1.045622 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.025368 |
| Stddev | .001537  |
| %RSD   | 6.060621 |
| #1     | -.026546 |
| #2     | -.025928 |
| #3     | -.023629 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2405.551 | 26166.17 | 2729.981 | 1859.511 | 3224.383 |
| Stddev    | 3.019    | 106.51   | 23.387   | 8.760    | 9.264    |
| %RSD      | .1254861 | .4070653 | .8566729 | .4710664 | .2873020 |
| #1        | 2404.301 | 26086.46 | 2710.170 | 1849.426 | 3231.944 |
| #2        | 2408.994 | 26124.90 | 2723.995 | 1865.216 | 3227.155 |
| #3        | 2403.358 | 26287.14 | 2755.780 | 1863.893 | 3214.050 |

Sample Name: P4977-03LX5      Acquired: 12/10/2024 19:27:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0028671 | .0079843 | .0037898 | -.020107 | -.012362 | 2.899261 | .0130660 |
| Stddev | .0016478 | .0011916 | .0010555 | .001722  | .004092  | .027042  | .0017794 |
| %RSD   | 57.47361 | 14.92396 | 27.85155 | 8.566080 | 33.10395 | .9327233 | 13.61884 |
| #1     | .0045171 | .0081962 | .0033278 | -.021139 | -.012146 | 2.909738 | .0113450 |
| #2     | .0028627 | .0067010 | .0030440 | -.018118 | -.008382 | 2.919497 | .0148986 |
| #3     | .0012215 | .0090557 | .0049975 | -.021063 | -.016558 | 2.868548 | .0129544 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002742 | .0002201 | 272.0228 | .0078855 | .0349498 | .0313635 | 8.947834 |
| Stddev | .0000930 | .0000287 | 1.7995   | .0011278 | .0006425 | .0012593 | .111933  |
| %RSD   | 33.92048 | 13.04228 | .6615197 | 14.30203 | 1.838224 | 4.015119 | 1.250955 |
| #1     | .0001775 | .0002274 | 273.5614 | .0091372 | .0350273 | .0301414 | 9.049587 |
| #2     | .0002822 | .0002445 | 272.4630 | .0075711 | .0355501 | .0326570 | 8.965979 |
| #3     | .0003630 | .0001885 | 270.0441 | .0069483 | .0342722 | .0312921 | 8.827937 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5065541 | 40.56664 | .0141856 | -.000795 | .1634799 | .0093692 | .0361974 |
| Stddev | .0040413 | .28545   | .0003321 | .000611  | .3709517 | .0012023 | .0036632 |
| %RSD   | .7978040 | .7036519 | 2.340924 | 76.80176 | 226.9097 | 12.83224 | 10.11994 |
| #1     | .5099851 | 40.85340 | .0145071 | -.001250 | .5827314 | .0105520 | .0394450 |
| #2     | .5075778 | 40.56401 | .0142058 | -.000101 | -.122148 | .0081483 | .0322266 |
| #3     | .5020994 | 40.28252 | .0138438 | -.001034 | .029856  | .0094074 | .0369205 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.139623 | .3792637 | -.019776 | -.000781 | .5189821 | .3914192 | -.002669 |
| Stddev | .086421  | .0007413 | .000847  | .000396  | .0041879 | .0005903 | .000405  |
| %RSD   | 61.89600 | .1954568 | 4.280677 | 50.70920 | .8069485 | .1508091 | 15.18862 |
| #1     | -.136649 | .3800710 | -.018802 | -.000324 | .5144996 | .3911482 | -.002939 |
| #2     | -.227493 | .3786136 | -.020196 | -.001031 | .5196519 | .3920963 | -.002203 |
| #3     | -.054727 | .3791064 | -.020332 | -.000988 | .5227947 | .3910130 | -.002866 |



Sample Name: P4977-03LX5      Acquired: 12/10/2024 19:27:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0945555 | .2148845 | -.037308 |
| Stddev | .0024405 | .0016491 | .003828  |
| %RSD   | 2.581063 | .7674359 | 10.26010 |
| #1     | .0973698 | .2156094 | -.035677 |
| #2     | .0932761 | .2160470 | -.034566 |
| #3     | .0930208 | .2129972 | -.041681 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2456.756 | 26879.14 | 2688.953 | 1908.141 | 3610.063 |
| Stddev    | 5.999    | 131.89   | 7.888    | 12.474   | 12.082   |
| %RSD      | .2441969 | .4906729 | .2933602 | .6537072 | .3346783 |
| #1        | 2449.830 | 26809.48 | 2684.490 | 1906.937 | 3596.433 |
| #2        | 2460.099 | 27031.26 | 2684.308 | 1921.172 | 3619.456 |
| #3        | 2460.339 | 26796.70 | 2698.061 | 1896.312 | 3614.300 |

Sample Name: P4977-05      Acquired: 12/10/2024 19:31:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0953931 | .1048117 | .0717050 | .1346839 | .1643813 | 18.09933 |
| Stddev | .0015185 | .0029982 | .0036049 | .0080156 | .0059456 | .07626   |
| %RSD   | 1.591873 | 2.860559 | 5.027374 | 5.951391 | 3.616982 | .4213142 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0945407 | .1051849 | .0697461 | .1341974 | .1638043 | 18.07030 |
| #2 | .0944922 | .1076059 | .0758652 | .1429316 | .1705944 | 18.04184 |
| #3 | .0971463 | .1016444 | .0695038 | .1269227 | .1587452 | 18.18583 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | 4.003864 | .1010746 | .0992275 | F 1285.531 | .4451658 | 1.090208 |
| Stddev | .007830  | .0004166 | .0062730 | 1.640      | .0031568 | .069191  |
| %RSD   | .1955726 | .4122085 | 6.321872 | .1275982   | .7091230 | 6.346604 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 4.000335 | .1013605 | .0977139 | 1284.796 | .4475955 | 1.077211 |
| #2 | 3.998420 | .1012667 | .1061189 | 1284.386 | .4463042 | 1.164976 |
| #3 | 4.012838 | .1005966 | .0938498 | 1287.410 | .4415977 | 1.028437 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5192062 | 43.68773 | 3.317240 | 189.0780 | 1.101692 | .0901801 |
| Stddev | .0057488 | .14154   | .013728  | .0810    | .072001  | .0010649 |
| %RSD   | 1.107236 | .3239830 | .4138242 | .0428313 | 6.535483 | 1.180894 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5205707 | 43.54443 | 3.303924 | 189.1479 | 1.085614 | .0889505 |
| #2 | .5128979 | 43.69132 | 3.331345 | 189.0969 | 1.180373 | .0908012 |
| #3 | .5241501 | 43.82744 | 3.316450 | 188.9893 | 1.039090 | .0907887 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3904774 | 1.062655 | .9957305 | .9366562 | 2.036975 | -.089005 |
| Stddev | .6174638 | .001744  | .0111885 | .3665443 | .133602  | .001235  |
| %RSD   | 158.1305 | .1641127 | 1.123649 | 39.13328 | 6.558823 | 1.387783 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.303687 | 1.063222 | 1.002478 | .7601443 | 2.012950 | -.087978 |
| #2 | .878497  | 1.064044 | 1.001898 | 1.358060 | 2.180959 | -.090375 |
| #3 | .596622  | 1.060698 | .982815  | .691765  | 1.917016 | -.088662 |

Sample Name: P4977-05      Acquired: 12/10/2024 19:31:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0045718 | 2.867857 | 1.969741 | .0385081 | .4577228 | 1.027613 |
| Stddev | .0002357 | .180153  | .012974  | .0022260 | .0017377 | .001163  |
| %RSD   | 5.155181 | 6.281802 | .6586439 | 5.780521 | .3796328 | .1132121 |
| #1     | .0043474 | 2.822129 | 1.973506 | .0392401 | .4594505 | 1.026451 |
| #2     | .0045507 | 3.066468 | 1.980415 | .0402760 | .4577426 | 1.028778 |
| #3     | .0048173 | 2.714975 | 1.955301 | .0360084 | .4559753 | 1.027611 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.029137 |
| Stddev | .001706  |
| %RSD   | 5.854324 |
| #1     | -.027625 |
| #2     | -.030986 |
| #3     | -.028800 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2400.234 | 26561.20 | 2761.474 | 1883.737 | 3208.356 |
| Stddev    | 121.652  | 58.96    | 4.779    | 16.718   | 181.039  |
| %RSD      | 5.068320 | .2219837 | .1730702 | .8874659 | 5.642728 |
| #1        | 2422.296 | 26519.03 | 2756.235 | 1871.379 | 3237.647 |
| #2        | 2269.061 | 26535.99 | 2762.593 | 1877.073 | 3014.458 |
| #3        | 2509.344 | 26628.57 | 2765.595 | 1902.758 | 3372.963 |

Sample Name: P4976-09      Acquired: 12/10/2024 19:35:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1392199 | .0093157 | .0373771 | -.037828 | -.015700 | 19.00518 |
| Stddev | .0022868 | .0017875 | .0018947 | .004583  | .001838  | .20222   |
| %RSD   | 1.642603 | 19.18824 | 5.069050 | 12.11588 | 11.70924 | 1.064024 |
| #1     | .1385691 | .0072539 | .0357747 | -.039965 | -.017404 | 19.08505 |
| #2     | .1373290 | .0102627 | .0394683 | -.032566 | -.013751 | 18.77523 |
| #3     | .1417615 | .0104304 | .0368883 | -.040952 | -.015944 | 19.15528 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0893084 | .0017511 | .0010623 | F 1212.068 | .0504120 | .0791808 |
| Stddev | .0013535 | .0001137 | .0000423 | 14.348     | .0006177 | .0001254 |
| %RSD   | 1.515542 | 6.491889 | 3.977931 | 1.183801   | 1.225363 | .1583639 |
| #1     | .0896525 | .0018730 | .0011101 | 1217.172   | .0500151 | .0791108 |
| #2     | .0878160 | .0016480 | .0010300 | 1195.865   | .0511237 | .0791060 |
| #3     | .0904566 | .0017322 | .0010468 | 1223.166   | .0500971 | .0793255 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0710250 | 61.89210 | 2.599354 | 183.0021 | .0920637 | -.006246 |
| Stddev | .0034643 | .68861   | .036410  | 2.4549   | .0003150 | .000912  |
| %RSD   | 4.877598 | 1.112591 | 1.400724 | 1.341458 | .3421622 | 14.60814 |
| #1     | .0723682 | 62.08657 | 2.614571 | 184.3675 | .0917227 | -.007296 |
| #2     | .0736167 | 61.12718 | 2.557804 | 180.1680 | .0923437 | -.005650 |
| #3     | .0670903 | 62.46256 | 2.625687 | 184.4707 | .0921249 | -.005792 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5537688 | .0635562 | .1803677 | .9710127 | 1.857735 | -.149678 |
| Stddev | .5633796 | .0084901 | .0031118 | .0751315 | .003959  | .001071  |
| %RSD   | 101.7355 | 13.35832 | 1.725256 | 7.737438 | .2131044 | .7155910 |
| #1     | .0944023 | .0612909 | .1771772 | 1.057401 | 1.862223 | -.150581 |
| #2     | 1.182367 | .0564286 | .1805316 | .934717  | 1.856244 | -.149958 |
| #3     | .384537  | .0729492 | .1833943 | .920921  | 1.854738 | -.148495 |

Sample Name: P4976-09      Acquired: 12/10/2024 19:35:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0131714 | 14.60892 | 2.227650 | .0041016 | .7002656 | 1.068431 |
| Stddev | .0003380 | .06204   | .027326  | .0002746 | .0088778 | .015922  |
| %RSD   | 2.566233 | .4246618 | 1.226672 | 6.694788 | 1.267779 | 1.490259 |
| #1     | .0134173 | 14.67051 | 2.251919 | .0042931 | .7074711 | 1.073323 |
| #2     | .0127860 | 14.54644 | 2.198052 | .0042247 | .6903481 | 1.050637 |
| #3     | .0133108 | 14.60982 | 2.232979 | .0037870 | .7029777 | 1.081333 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.022022 |
| Stddev | .004115  |
| %RSD   | 18.68359 |
| #1     | -.018938 |
| #2     | -.020435 |
| #3     | -.026694 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2435.940 | 26559.29 | 2793.445 | 1895.680 | 3248.364 |
| Stddev    | 15.333   | 37.93    | 30.440   | 5.034    | 19.996   |
| %RSD      | .6294577 | .1428265 | 1.089689 | .2655492 | .6155668 |
| #1        | 2418.625 | 26590.80 | 2775.047 | 1893.345 | 3225.622 |
| #2        | 2441.397 | 26569.89 | 2828.581 | 1901.458 | 3256.283 |
| #3        | 2447.799 | 26517.19 | 2776.707 | 1892.238 | 3263.188 |

Sample Name: P4976-08L      Acquired: 12/10/2024 19:39:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0271997 | .0095381 | .0054718 | -.021720 | -.014047 | 3.930555 | .0177175 |
| Stddev | .0004531 | .0020508 | .0008835 | .002614  | .001223  | .044991  | .0016462 |
| %RSD   | 1.666018 | 21.50131 | 16.14712 | 12.03461 | 8.706200 | 1.144636 | 9.291431 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0274666 | .0087407 | .0054730 | -.023049 | -.012990 | 3.958310 | .0161447 |
| #2 | .0266765 | .0118679 | .0063548 | -.023403 | -.015387 | 3.878646 | .0175794 |
| #3 | .0274560 | .0080058 | .0045877 | -.018709 | -.013766 | 3.954709 | .0194284 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004014 | .0002545 | 255.2171 | .0108906 | .0365831 | .0156652 | 13.22677 |
| Stddev | .0000180 | .0000363 | 2.4736   | .0004460 | .0003948 | .0050020 | .14107   |
| %RSD   | 4.475709 | 14.25539 | .9692157 | 4.095489 | 1.079224 | 31.93090 | 1.066581 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0004196 | .0002871 | 256.4484 | .0106440 | .0361583 | .0163141 | 13.28814 |
| #2 | .0003837 | .0002610 | 252.3695 | .0114055 | .0366523 | .0103704 | 13.06540 |
| #3 | .0004007 | .0002154 | 256.8335 | .0106223 | .0369387 | .0203111 | 13.32676 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5539006 | 38.72186 | .0177013 | -.001231 | -.299703 | .0141863 | .0396995 |
| Stddev | .0058126 | .44593   | .0004787 | .001067  | .578087  | .0084096 | .0016995 |
| %RSD   | 1.049392 | 1.151619 | 2.704468 | 86.73947 | 192.8867 | 59.28020 | 4.280911 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5582569 | 38.98114 | .0171501 | -.002380 | .312051  | .0238386 | .0395366 |
| #2 | .5473005 | 38.20695 | .0179406 | -.000271 | -.374275 | .0084403 | .0414745 |
| #3 | .5561443 | 38.97748 | .0180132 | -.001040 | -.836885 | .0102799 | .0380872 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.187912 | .3468666 | -.035053 | .0005316 | 2.702554 | .5547748 | -.008374 |
| Stddev | .138274  | .0020003 | .001232  | .0001848 | .010360  | .0013667 | .000592  |
| %RSD   | 73.58461 | .5766760 | 3.514015 | 34.75415 | .3833260 | .2463610 | 7.073884 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.267659 | .3449184 | -.035035 | .0007032 | 2.690616 | .5551051 | -.008927 |
| #2 | -.267831 | .3489152 | -.036294 | .0005556 | 2.707864 | .5559460 | -.008445 |
| #3 | -.028247 | .3467660 | -.033831 | .0003360 | 2.709182 | .5532731 | -.007749 |

Sample Name: P4976-08L      Acquired: 12/10/2024 19:39:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1502225 | .2213202 | -.044604 |
| Stddev | .0032046 | .0018057 | .003432  |
| %RSD   | 2.133260 | .8158564 | 7.693187 |
| #1     | .1521457 | .2220801 | -.043004 |
| #2     | .1465231 | .2192587 | -.048544 |
| #3     | .1519987 | .2226216 | -.042265 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2486.079 | 27252.27 | 2742.320 | 1935.509 | 3643.266 |
| Stddev    | 16.682   | 228.28   | 15.613   | 13.279   | 25.791   |
| %RSD      | .6710306 | .8376548 | .5693428 | .6860491 | .7079123 |
| #1        | 2502.359 | 27291.48 | 2739.508 | 1936.825 | 3669.275 |
| #2        | 2486.857 | 27458.40 | 2759.148 | 1948.081 | 3642.824 |
| #3        | 2469.021 | 27006.92 | 2728.304 | 1921.622 | 3617.699 |

Sample Name: P4976-10      Acquired: 12/10/2024 19:43:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2156361 | .1021860 | .0795526 | .1308681 | .1600943 | 22.90204 |
| Stddev | .0023484 | .0014030 | .0024362 | .0042514 | .0030968 | .19884   |
| %RSD   | 1.089041 | 1.373011 | 3.062347 | 3.248611 | 1.934364 | .8682239 |
| #1     | .2172839 | .1033811 | .0779464 | .1309319 | .1568841 | 23.12685 |
| #2     | .2129472 | .1025357 | .0823557 | .1265852 | .1630637 | 22.83006 |
| #3     | .2166773 | .1006412 | .0783557 | .1350873 | .1603352 | 22.74921 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | 4.032282 | .1019428 | .0967985 | F 1203.479 | .4680124 | 1.075608 |
| Stddev | .022877  | .0004756 | .0006863 | 7.537      | .0101362 | .008014  |
| %RSD   | .5673390 | .4665630 | .7089716 | .6262759   | 2.165791 | .7450647 |
| #1     | 4.057363 | .1024415 | .0961497 | 1211.545   | .4624293 | 1.069836 |
| #2     | 4.026922 | .1014942 | .0967289 | 1202.275   | .4618952 | 1.072230 |
| #3     | 4.012561 | .1018925 | .0975169 | 1196.616   | .4797125 | 1.084758 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5286961 | 63.32057 | 3.572638 | 183.0764 | 1.095572 | .0890700 |
| Stddev | .0017038 | .42166   | .026222  | 1.2507   | .008367  | .0012199 |
| %RSD   | .3222706 | .6659110 | .7339669 | .6831316 | .7636861 | 1.369553 |
| #1     | .5271331 | 63.79466 | 3.592209 | 184.4235 | 1.087838 | .0881404 |
| #2     | .5284429 | 63.17954 | 3.582861 | 182.8535 | 1.094424 | .0886183 |
| #3     | .5305124 | 62.98750 | 3.542845 | 181.9522 | 1.104453 | .0904513 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.249673 | 1.075830 | 1.059341 | .9759569 | 1.811119 | -.155561 |
| Stddev | .283825  | .009638  | .022004  | .0154624 | .020969  | .001551  |
| %RSD   | 22.71197 | .8958450 | 2.077100 | 1.584329 | 1.157792 | .9970905 |
| #1     | 1.576232 | 1.081466 | 1.050170 | .9586422 | 1.800136 | -.157340 |
| #2     | 1.062392 | 1.081322 | 1.043406 | .9808410 | 1.797922 | -.154852 |
| #3     | 1.110394 | 1.064701 | 1.084446 | .9883874 | 1.835298 | -.154491 |



Sample Name: P4976-10      Acquired: 12/10/2024 19:43:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0129732 | 14.11294 | 2.469358 | .0052995 | .7083326 | 1.062306 |
| Stddev | .0002777 | .07169   | .002592  | .0004695 | .0058738 | .006861  |
| %RSD   | 2.140636 | .5079843 | .1049708 | 8.859124 | .8292483 | .6458462 |
| #1     | .0132594 | 14.05673 | 2.467802 | .0051969 | .7148946 | 1.068191 |
| #2     | .0129553 | 14.08842 | 2.472351 | .0048898 | .7065375 | 1.063957 |
| #3     | .0127048 | 14.19368 | 2.467922 | .0058118 | .7035659 | 1.054770 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.022993 |
| Stddev | .003628  |
| %RSD   | 15.77903 |
| #1     | -.023867 |
| #2     | -.019007 |
| #3     | -.026104 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2442.782 | 26035.18 | 2745.866 | 1852.264 | 3267.087 |
| Stddev    | 16.424   | 457.07   | 12.635   | 34.517   | 20.720   |
| %RSD      | .6723371 | 1.755600 | .4601323 | 1.863514 | .6342091 |
| #1        | 2458.953 | 26249.18 | 2731.795 | 1867.083 | 3289.432 |
| #2        | 2443.274 | 26346.00 | 2749.562 | 1876.898 | 3263.318 |
| #3        | 2426.117 | 25510.37 | 2756.240 | 1812.812 | 3248.509 |

Sample Name: P5040-01      Acquired: 12/10/2024 19:47:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0247386 | .0076033 | .2486966 | -.018645 | -.011294 | 53.50545 | .8876287 |
| Stddev | .0024365 | .0032107 | .0010958 | .004747  | .001588  | .56028   | .0108418 |
| %RSD   | 9.848812 | 42.22781 | .4406059 | 25.46024 | 14.05765 | 1.047153 | 1.221432 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0226172 | .0039136 | .2498760 | -.023445 | -.009502 | 53.13623 | .8846709 |
| #2 | .0241989 | .0091350 | .2485038 | -.018539 | -.011858 | 54.15014 | .8996424 |
| #3 | .0273996 | .0097614 | .2477101 | -.013953 | -.012524 | 53.22998 | .8785727 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0040868 | .0030742 | 568.8245 | .0852587 | .1002602 | .1534119 | 132.4700 |
| Stddev | .0001680 | .0000408 | 5.9765   | .0021060 | .0001826 | .0038113 | 1.4016   |
| %RSD   | 4.109938 | 1.325597 | 1.050681 | 2.470134 | .1821097 | 2.484345 | 1.058077 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0039767 | .0030925 | 565.9645 | .0828298 | .1000675 | .1498527 | 132.0756 |
| #2 | .0042801 | .0030275 | 575.6936 | .0863692 | .1004307 | .1574331 | 134.0265 |
| #3 | .0040037 | .0031026 | 564.8153 | .0865771 | .1002824 | .1529498 | 131.3078 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 7.741337 | 132.5268 | .1538312 | -.011679 | 1.050359 | .1482565 | .4260388 |
| Stddev | .069099  | 1.1151   | .0018995 | .000930  | .695771  | .0059319 | .0129188 |
| %RSD   | .8925924 | .8414454 | 1.234791 | 7.959327 | 66.24129 | 4.001082 | 3.032305 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.703128 | 131.9785 | .1546533 | -.010644 | .470660  | .1414091 | .4137065 |
| #2 | 7.821102 | 133.8100 | .1516591 | -.011950 | 1.821934 | .1518261 | .4394734 |
| #3 | 7.699782 | 131.7921 | .1551812 | -.012442 | .858482  | .1515344 | .4249364 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.696525 | 8.564021 | -.342769 | .0021918 | 1.152232 | 3.678304 | .0452870 |
| Stddev | .210099  | .037371  | .006745  | .0003018 | .005371  | .051151  | .0014018 |
| %RSD   | 3.688189 | .4363773 | 1.967931 | 13.77163 | .4661135 | 1.390627 | 3.095459 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.739646 | 8.604098 | -.334992 | .0018497 | 1.156549 | 3.628611 | .0463064 |
| #2 | 5.881718 | 8.530127 | -.347033 | .0023049 | 1.146218 | 3.730799 | .0436884 |
| #3 | 5.468211 | 8.557837 | -.346282 | .0024208 | 1.153929 | 3.675502 | .0458662 |

Sample Name: P5040-01      Acquired: 12/10/2024 19:47:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .9655599 | .5371474 | .0473804 |
| Stddev | .0080162 | .0043158 | .0036156 |
| %RSD   | .8302146 | .8034585 | 7.631065 |
| #1     | .9563230 | .5345508 | .0475611 |
| #2     | .9706982 | .5421293 | .0509023 |
| #3     | .9696583 | .5347620 | .0436778 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2720.235 | 29573.13 | 3007.952 | 2103.364 | 3442.572 |
| Stddev    | 3.690    | 291.77   | 23.996   | 23.513   | 12.691   |
| %RSD      | .1356401 | .9865963 | .7977578 | 1.117857 | .3686448 |
| #1        | 2715.975 | 29909.45 | 3027.556 | 2129.882 | 3428.896 |
| #2        | 2722.326 | 29422.09 | 2981.192 | 2085.062 | 3453.969 |
| #3        | 2722.404 | 29387.84 | 3015.108 | 2095.149 | 3444.852 |

Sample Name: CCV091      Acquired: 12/10/2024 19:51:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV091      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 4.848926 | 4.883780 | 24.70205 | 4.718395 | 4.806889 | 395.8415   |
| Stddev | .006798  | .008294  | .11882   | .015009  | .025770  | 3.6940     |
| %RSD   | .1402032 | .1698235 | .4810066 | .3180895 | .5361032 | .9332115   |
| #1     | 4.850054 | 4.878343 | 24.64044 | 4.703757 | 4.780642 | 397.9580   |
| #2     | 4.841635 | 4.879670 | 24.62669 | 4.717677 | 4.807871 | 397.9904   |
| #3     | 4.855090 | 4.893326 | 24.83902 | 4.733749 | 4.832154 | 391.5760   |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.03114 | .5018246 | 2.485248 | 399.6508 | 15.42519 | 2.516646   |
| Stddev | .10286   | .0079700 | .010912  | 3.7093   | .04208   | .008880    |
| %RSD   | 1.025368 | 1.588195 | .4390797 | .9281331 | .2727954 | .3528471   |
| #1     | 10.09389 | .5061761 | 2.480279 | 401.9091 | 15.47249 | 2.513939   |
| #2     | 10.08710 | .5066716 | 2.477705 | 401.6734 | 15.39191 | 2.509436   |
| #3     | 9.91244  | .4926261 | 2.497761 | 395.3698 | 15.41117 | 2.526565   |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 14.85878 | 402.4583 | 14.60206 | 397.2928 | 2.505510 | 1.236762   |
| Stddev | .11838   | 3.7706   | .12521   | 3.0912   | .009672  | .004837    |
| %RSD   | .7966844 | .9368800 | .8574752 | .7780626 | .3860421 | .3911266   |
| #1     | 14.92747 | 405.0449 | 14.66217 | 399.1020 | 2.502324 | 1.242320   |
| #2     | 14.92677 | 404.1980 | 14.68588 | 399.0530 | 2.497832 | 1.234466   |
| #3     | 14.72209 | 398.1320 | 14.45813 | 393.7236 | 2.516373 | 1.233500   |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 394.6370 | 2.509915 | 14.20221 | 150.2906 | 4.966641 | F 4.137039 |
| Stddev | 3.4621   | .033989  | .09791   | 1.3518   | .019807  | .073046    |
| %RSD   | .8772924 | 1.354195 | .6894249 | .8994345 | .3988023 | 1.765671   |
| #1     | 396.5745 | 2.524869 | 14.16067 | 151.1444 | 4.958845 | 4.184189   |
| #2     | 396.6966 | 2.533862 | 14.13190 | 150.9952 | 4.951918 | 4.174031   |
| #3     | 390.6399 | 2.471012 | 14.31404 | 148.7321 | 4.989160 | 4.052896   |

Sample Name: CCV091      Acquired: 12/10/2024 19:51:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV091      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.793485 | 4.978112 | 4.860699 | 4.980226 | 4.923233 | 4.741233 |
| Stddev | .019881  | .027473  | .077998  | .018114  | .041211  | .036453  |
| %RSD   | .4147604 | .5518824 | 1.604663 | .3637251 | .8370658 | .7688548 |
| #1     | 4.774779 | 4.982775 | 4.910865 | 4.978512 | 4.960405 | 4.759060 |
| #2     | 4.791313 | 4.948606 | 4.900394 | 4.963029 | 4.930377 | 4.765343 |
| #3     | 4.814364 | 5.002956 | 4.770838 | 4.999136 | 4.878917 | 4.699297 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | 4.998456 |
| Stddev | .050452  |
| %RSD   | 1.009349 |
| #1     | 5.027081 |
| #2     | 5.028084 |
| #3     | 4.940202 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2093.720 | 24164.31 | 2581.307 | 1599.809 | 3084.021 |
| Stddev    | 7.459    | 73.11    | 35.130   | 9.097    | 8.293    |
| %RSD      | .3562463 | .3025442 | 1.360943 | .5686558 | .2689021 |
| #1        | 2102.244 | 24127.47 | 2563.231 | 1598.501 | 3089.129 |
| #2        | 2090.526 | 24248.50 | 2558.896 | 1609.490 | 3088.482 |
| #3        | 2088.391 | 24116.95 | 2621.795 | 1591.437 | 3074.452 |

Sample Name: CCB091      Acquired: 12/10/2024 19:54:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB091      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001422 | .0016286 | .0012843 | .0023636 | .0008839 | .0418470 |
| Stddev | .002345  | .0009893 | .0007954 | .0066752 | .0016915 | .0155014 |
| %RSD   | 164.8568 | 60.74406 | 61.93790 | 282.4186 | 191.3668 | 37.04301 |
| #1     | -.004103 | .0025885 | .0017825 | .0016944 | .0023648 | .0241768 |
| #2     | -.000409 | .0006123 | .0003669 | .0093482 | .0012464 | .0482089 |
| #3     | .000246  | .0016852 | .0017034 | -.003952 | -.000959 | .0531553 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004034 | -.000003 | .0001326 | .0271364 | -.000507 | .0000797 |
| Stddev | .0014549 | .000072  | .0000585 | .0445572 | .000261  | .0000932 |
| %RSD   | 360.7009 | 2098.089 | 44.09545 | 164.1973 | 51.44774 | 116.9419 |
| #1     | -.001277 | -.000069 | .0000708 | .0784247 | -.000599 | -.000021 |
| #2     | .001256  | .000073  | .0001870 | .0050244 | -.000710 | .000163  |
| #3     | .001231  | -.000014 | .0001399 | -.002040 | -.000213 | .000098  |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0017463 | .0238855 | .0009725 | -.078008 | -.000877 | -.000221 |
| Stddev | .0054830 | .0218527 | .0009907 | .060726  | .000614  | .000680  |
| %RSD   | 313.9826 | 91.48931 | 101.8653 | 77.84624 | 70.06030 | 307.6914 |
| #1     | .0080710 | .0487224 | -.000148 | -.101477 | -.001006 | -.000287 |
| #2     | -.001168 | .0153252 | .001733  | -.123496 | -.001416 | -.000866 |
| #3     | -.001664 | .0076089 | .001332  | -.009049 | -.000208 | .000489  |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0060779 | -.004064 | .0022649 | -.102331 | .0004357 | .0111053 |
| Stddev | .8275941 | .008523  | .0052654 | .160693  | .0011264 | .0011455 |
| %RSD   | 13616.41 | 209.7105 | 232.4723 | 157.0316 | 258.5512 | 10.31509 |
| #1     | -.426155 | -.013382 | .0031652 | -.286239 | .0011738 | .0124261 |
| #2     | -.515906 | -.002148 | .0070221 | -.031728 | -.000861 | .0103832 |
| #3     | .960295  | .003337  | -.003393 | .010972  | .000994  | .0105065 |

Sample Name: CCB091      Acquired: 12/10/2024 19:54:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB091      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000318 | -.002639 | -.000471 | F -.010386 | .0058498 | .0001982 |
| Stddev | .000383  | .002423  | .000231  | .000905    | .0024694 | .0001963 |
| %RSD   | 120.1443 | 91.80611 | 49.11425 | 8.710425   | 42.21377 | 99.00858 |
| #1     | -.000371 | -.002823 | -.000662 | -.010741   | .0034970 | .0001452 |
| #2     | -.000672 | -.000130 | -.000537 | -.011059   | .0084213 | .0004155 |
| #3     | .000088  | -.004964 | -.000214 | -.009357   | .0056311 | .0000339 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.033566 |
| Stddev | .004619    |
| %RSD   | 13.75977   |
| #1     | -.034644   |
| #2     | -.028503   |
| #3     | -.037550   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2516.498 | 27786.29 | 2695.770 | 1961.358 | 3937.028 |
| Stddev    | 17.777   | 158.43   | 25.067   | 7.852    | 24.139   |
| %RSD      | .7064354 | .5701837 | .9298504 | .4003159 | .6131316 |
| #1        | 2517.050 | 27959.51 | 2689.628 | 1969.921 | 3939.174 |
| #2        | 2498.451 | 27750.65 | 2723.337 | 1959.653 | 3911.888 |
| #3        | 2533.993 | 27648.71 | 2674.345 | 1954.498 | 3960.023 |

Sample Name: P5040-02      Acquired: 12/10/2024 19:58:41      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0269651 | .0102666 | .2586441 | -.022852 | -.008144 | 53.58513 | .8934796 |
| Stddev | .0003346 | .0008102 | .0024927 | .001839  | .001750  | .31349   | .0081069 |
| %RSD   | 1.240912 | 7.891579 | .9637444 | 8.048110 | 21.48304 | .5850235 | .9073390 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0266668 | .0105882 | .2599771 | -.020751 | -.009663 | 53.93264 | .9026909 |
| #2 | .0273269 | .0093450 | .2557684 | -.023635 | -.008538 | 53.49913 | .8903184 |
| #3 | .0269017 | .0108666 | .2601868 | -.024169 | -.006231 | 53.32362 | .8874296 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0041781 | .0033192 | 572.5319 | .0851389 | .1026328 | .1582160 | 132.7009 |
| Stddev | .0001550 | .0001424 | 3.8096   | .0008254 | .0008079 | .0097216 | .7163    |
| %RSD   | 3.709288 | 4.289021 | .6654022 | .9695054 | .7871505 | 6.144502 | .5397634 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0042489 | .0031683 | 576.8216 | .0841858 | .1026659 | .1620112 | 133.5110 |
| #2 | .0040003 | .0034512 | 571.2308 | .0856096 | .1018089 | .1654675 | 132.4399 |
| #3 | .0042850 | .0033381 | 569.5432 | .0856213 | .1034237 | .1471693 | 132.1517 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 7.795998 | 133.3919 | .1572721 | -.013057 | .6328737 | .1421257 | .4341493 |
| Stddev | .050873  | .8842    | .0006561 | .000687  | .1569509 | .0010269 | .0065838 |
| %RSD   | .6525563 | .6628874 | .4171531 | 5.264596 | 24.79972 | .7225012 | 1.516495 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.850707 | 134.3250 | .1566285 | -.012446 | .7821940 | .1409443 | .4383106 |
| #2 | 7.787172 | 133.2846 | .1572478 | -.012923 | .6471585 | .1426291 | .4375787 |
| #3 | 7.750115 | 132.5663 | .1579400 | -.013801 | .4692687 | .1428037 | .4265587 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.532160 | 8.822835 | -.343279 | .0026073 | 1.188336 | 3.728435 | .0459856 |
| Stddev | .028767  | .057301  | .002432  | .0003348 | .005143  | .016874  | .0005657 |
| %RSD   | .5199914 | .6494663 | .7084537 | 12.83955 | .4327815 | .4525778 | 1.230156 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.504905 | 8.803888 | -.341245 | .0022792 | 1.190978 | 3.737345 | .0465877 |
| #2 | 5.529344 | 8.777407 | -.342619 | .0025944 | 1.182410 | 3.738987 | .0459040 |
| #3 | 5.562231 | 8.887211 | -.345973 | .0029484 | 1.191622 | 3.708974 | .0454651 |



Sample Name: P5040-02      Acquired: 12/10/2024 19:58:41      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .9760708 | .5440448 | .0520208 |
| Stddev | .0052612 | .0035021 | .0042308 |
| %RSD   | .5390191 | .6437227 | 8.132945 |
| #1     | .9795024 | .5471354 | .0480689 |
| #2     | .9786964 | .5447582 | .0564841 |
| #3     | .9700135 | .5402409 | .0515094 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2720.708 | 29693.01 | 3042.828 | 2113.665 | 3419.156 |
| Stddev    | 8.804    | 253.35   | 9.622    | 19.045   | 13.522   |
| %RSD      | .3235761 | .8532349 | .3162166 | .9010602 | .3954855 |
| #1        | 2725.797 | 29971.62 | 3033.785 | 2132.588 | 3426.304 |
| #2        | 2725.784 | 29630.97 | 3052.940 | 2113.909 | 3427.603 |
| #3        | 2710.543 | 29476.44 | 3041.758 | 2094.499 | 3403.560 |

Sample Name: P5040-01LX5      Acquired: 12/10/2024 20:02:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008144 | .0110618 | .0512780 | -.012263 | -.009447 | 11.61191 | .1939818 |
| Stddev | .0021692 | .0017891 | .0020325 | .003957  | .000761  | .06894   | .0007825 |
| %RSD   | 266.3435 | 16.17388 | 3.963737 | 32.26726 | 8.054025 | .5936712 | .4033909 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000962 | .0123078 | .0526717 | -.007694 | -.008621 | 11.61769 | .1944420 |
| #2 | .000173  | .0118659 | .0522165 | -.014608 | -.010119 | 11.67778 | .1944251 |
| #3 | .003232  | .0090117 | .0489458 | -.014485 | -.009601 | 11.54027 | .1930783 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009073 | .0005822 | 127.5305 | .0188652 | .0385672 | .0379783 | 29.74690 |
| Stddev | .0000567 | .0000738 | .8324    | .0001224 | .0002227 | .0017178 | .18021   |
| %RSD   | 6.244497 | 12.66734 | .6527084 | .6487108 | .5775438 | 4.523246 | .6058142 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0008967 | .0006475 | 127.7680 | .0187359 | .0384010 | .0386975 | 29.89535 |
| #2 | .0009685 | .0005970 | 128.2184 | .0188804 | .0384805 | .0360177 | 29.79896 |
| #3 | .0008566 | .0005022 | 126.6052 | .0189793 | .0388203 | .0392196 | 29.54639 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.752513 | 29.81423 | .0306484 | -.002468 | .1225620 | .0297389 | .0958992 |
| Stddev | .011370  | .06534   | .0004402 | .000431  | .5696167 | .0057118 | .0089328 |
| %RSD   | .6487896 | .2191445 | 1.436391 | 17.45183 | 464.7580 | 19.20639 | 9.314807 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.752223 | 29.79862 | .0301456 | -.001981 | .5637389 | .0312616 | .0955590 |
| #2 | 1.764025 | 29.88596 | .0309650 | -.002622 | .3244489 | .0234201 | .1049972 |
| #3 | 1.741290 | 29.75811 | .0308345 | -.002800 | -.520502 | .0345351 | .0871413 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7807538 | 1.689701 | -.078079 | -.001269 | .2328192 | .8408165 | .0006059 |
| Stddev | .2551022 | .005259  | .001356  | .000516  | .0015028 | .0027364 | .0013910 |
| %RSD   | 32.67384 | .3112515 | 1.736617 | 40.65346 | .6454982 | .3254430 | 229.5694 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.066783 | 1.689235 | -.079004 | -.001129 | .2311647 | .8437273 | .0021048 |
| #2 | .698712  | 1.684690 | -.078710 | -.001841 | .2331929 | .8404255 | -.000643 |
| #3 | .576767  | 1.695178 | -.076522 | -.000838 | .2340999 | .8382966 | .000356  |

Sample Name: P5040-01LX5      Acquired: 12/10/2024 20:02:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2193835 | .1190915 | -.027734 |
| Stddev | .0051829 | .0008912 | .001477  |
| %RSD   | 2.362487 | .7483489 | 5.326319 |
| #1     | .2200336 | .1186525 | -.029254 |
| #2     | .2242107 | .1201171 | -.026303 |
| #3     | .2139062 | .1185050 | -.027645 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2587.148 | 28214.62 | 2818.842 | 1997.715 | 3757.646 |
| Stddev    | 12.325   | 127.94   | 8.216    | 17.821   | 21.384   |
| %RSD      | .4764092 | .4534466 | .2914597 | .8920819 | .5690787 |
| #1        | 2597.110 | 28078.74 | 2817.195 | 1979.342 | 3771.084 |
| #2        | 2590.970 | 28232.37 | 2811.574 | 1998.876 | 3768.867 |
| #3        | 2573.365 | 28332.76 | 2827.756 | 2014.927 | 3732.987 |

Sample Name: P5040-03      Acquired: 12/10/2024 20:06:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1048847 | .0992774 | .2895646 | .1299342 | .1520228 | 56.27329 | 4.504922 |
| Stddev | .0037625 | .0022748 | .0047811 | .0025629 | .0004243 | .39570   | .024245  |
| %RSD   | 3.587248 | 2.291365 | 1.651136 | 1.972447 | .2791377 | .7031696 | .5381983 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1050114 | .1018690 | .2938951 | .1295376 | .1517654 | 55.83691 | 4.477497 |
| #2 | .1085822 | .0983521 | .2844339 | .1275927 | .1525126 | 56.60877 | 4.523510 |
| #3 | .1010604 | .0976110 | .2903649 | .1326722 | .1517904 | 56.37419 | 4.513757 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0967348 | .0982322 | 566.0912 | .4731520 | 1.092021 | .5760804 | 133.1100 |
| Stddev | .0002646 | .0007846 | 4.2425   | .0157001 | .007784  | .0138839 | 1.0205   |
| %RSD   | .2735350 | .7987219 | .7494429 | 3.318182 | .7128340 | 2.410061 | .7666652 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0964746 | .0991292 | 561.6739 | .4912806 | 1.100879 | .5600612 | 131.9608 |
| #2 | .0967264 | .0976734 | 570.1342 | .4640108 | 1.086272 | .5846406 | 133.9103 |
| #3 | .0970036 | .0978940 | 566.4655 | .4641646 | 1.088912 | .5835392 | 133.4588 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.585925 | 131.3852 | 1.153444 | .0746315 | .5990957 | 1.072421 | 1.217286 |
| Stddev | .089982  | 1.3633   | .009444  | .0019915 | .1727585 | .002509  | .029275  |
| %RSD   | 1.048020 | 1.037633 | .8187465 | 2.668394 | 28.83654 | .2339542 | 2.404948 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.507750 | 130.0239 | 1.164296 | .0769009 | .4912342 | 1.073897 | 1.245091 |
| #2 | 8.684286 | 132.7505 | 1.147093 | .0738186 | .5076996 | 1.069524 | 1.220031 |
| #3 | 8.565738 | 131.3811 | 1.148943 | .0731751 | .7983534 | 1.073841 | 1.186734 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.541936 | 8.596054 | -.350019 | .0022346 | 1.181038 | 3.691553 | .0461826 |
| Stddev | .080528  | .078277  | .003270  | .0000264 | .014687  | .004980  | .0014960 |
| %RSD   | 1.453061 | .9106102 | .9343039 | 1.180326 | 1.243590 | .1349056 | 3.239306 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.465326 | 8.686341 | -.349228 | .0022188 | 1.194872 | 3.696026 | .0459765 |
| #2 | 5.625879 | 8.547230 | -.353612 | .0022200 | 1.165625 | 3.686186 | .0448003 |
| #3 | 5.534602 | 8.554593 | -.347217 | .0022650 | 1.182616 | 3.692447 | .0477709 |

Sample Name: P5040-03      Acquired: 12/10/2024 20:06:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .9595983 | .5329752 | .0415496 |
| Stddev | .0101936 | .0048558 | .0036395 |
| %RSD   | 1.062282 | .9110686 | 8.759377 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .9533367 | .5290608 | .0392924 |
| #2 | .9713607 | .5384090 | .0457481 |
| #3 | .9540976 | .5314559 | .0396082 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2723.892 | 29456.79 | 3038.278 | 2099.942 | 3439.291 |
| Stddev    | 11.057   | 679.14   | 29.687   | 41.134   | 16.548   |
| %RSD      | .4059236 | 2.305547 | .9770991 | 1.958806 | .4811491 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2715.360 | 28679.38 | 3071.900 | 2052.883 | 3422.615 |
| #2 | 2736.384 | 29756.31 | 3015.681 | 2117.896 | 3455.708 |
| #3 | 2719.933 | 29934.69 | 3027.253 | 2129.046 | 3439.548 |

Sample Name: P4977-01      Acquired: 12/10/2024 20:10:15      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0115811 | .0101898 | .0328718 | -.035021 | -.018307 | 17.85760 |
| Stddev | .0013728 | .0007557 | .0014295 | .004270  | .002385  | .08261   |
| %RSD   | 11.85391 | 7.416631 | 4.348819 | 12.19123 | 13.02841 | .4626075 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0116592 | .0093513 | .0342336 | -.031413 | -.016138 | 17.94890 |
| #2 | .0129132 | .0103997 | .0313830 | -.033916 | -.017921 | 17.78803 |
| #3 | .0101709 | .0108184 | .0329989 | -.039735 | -.020861 | 17.83585 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0759329 | .0015964 | .0010137 | F 1179.146 | .0592752 | .0716665 |
| Stddev | .0002735 | .0000591 | .0000370 | 3.792      | .0011273 | .0006713 |
| %RSD   | .3601418 | 3.703798 | 3.654024 | .3215518   | 1.901845 | .9367048 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0762284 | .0016004 | .0009759 | 1183.168 | .0604252 | .0720408 |
| #2 | .0756887 | .0015355 | .0010500 | 1175.637 | .0592285 | .0708915 |
| #3 | .0758815 | .0016535 | .0010153 | 1178.633 | .0581720 | .0720672 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0645117 | 63.64551 | 2.204463 | 257.2581 | .0845604 | -.005798 |
| Stddev | .0096331 | .12896   | .003154  | 1.1937   | .0004296 | .000539  |
| %RSD   | 14.93225 | .2026243 | .1430570 | .4640265 | .5080422 | 9.288013 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0676398 | 63.78635 | 2.206889 | 258.6198 | .0848051 | -.005691 |
| #2 | .0721919 | 63.53320 | 2.200898 | 256.3916 | .0848117 | -.006383 |
| #3 | .0537033 | 63.61698 | 2.205601 | 256.7631 | .0840643 | -.005322 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4495186 | .0678278 | .1888925 | .8814164 | 2.251067 | -.144842 |
| Stddev | .6687387 | .0052638 | .0046008 | .1070599 | .010301  | .002121  |
| %RSD   | 148.7678 | 7.760513 | 2.435658 | 12.14635 | .4576146 | 1.464605 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.199322 | .0721646 | .1892677 | .8581089 | 2.239179 | -.146572 |
| #2 | -.085251 | .0619714 | .1841156 | .7879302 | 2.256647 | -.142475 |
| #3 | .234485  | .0693474 | .1932942 | .9982100 | 2.257374 | -.145480 |

Sample Name: P4977-01      Acquired: 12/10/2024 20:10:15      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0026549 | 1.251107 | 2.142571 | .0500182 | .4724162 | 1.093829 |
| Stddev | .0002316 | .006551  | .011962  | .0013427 | .0022380 | .005163  |
| %RSD   | 8.725286 | .5236120 | .5582859 | 2.684362 | .4737327 | .4720237 |
| #1     | .0024164 | 1.256340 | 2.155708 | .0495358 | .4749766 | 1.099574 |
| #2     | .0028790 | 1.243760 | 2.132309 | .0489834 | .4714394 | 1.092336 |
| #3     | .0026693 | 1.253222 | 2.139695 | .0515354 | .4708326 | 1.089577 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.020760 |
| Stddev | .003402  |
| %RSD   | 16.38878 |
| #1     | -.020827 |
| #2     | -.017325 |
| #3     | -.024129 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2374.512 | 25814.49 | 2719.154 | 1828.145 | 3165.672 |
| Stddev    | 4.168    | 78.36    | 17.649   | 7.319    | 10.760   |
| %RSD      | .1755333 | .3035543 | .6490799 | .4003268 | .3399011 |
| #1        | 2375.633 | 25904.62 | 2710.980 | 1833.092 | 3167.884 |
| #2        | 2378.005 | 25762.48 | 2739.408 | 1819.738 | 3175.155 |
| #3        | 2369.898 | 25776.38 | 2707.073 | 1831.606 | 3153.978 |

Sample Name: P4977-02      Acquired: 12/10/2024 20:14:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0625170 | .0128397 | .0556118 | -.031135 | -.015432 | 21.56641 |
| Stddev | .0028370 | .0020857 | .0030343 | .003727  | .002460  | .28277   |
| %RSD   | 4.537974 | 16.24442 | 5.456136 | 11.97084 | 15.94405 | 1.311138 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0627166 | .0108163 | .0532330 | -.030051 | -.016276 | 21.24001 |
| #2 | .0652490 | .0149826 | .0590289 | -.028069 | -.012660 | 21.72233 |
| #3 | .0595855 | .0127202 | .0545734 | -.035283 | -.017359 | 21.73690 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2650299 | .0019736 | .0027890 | F 1187.188 | .0622440 | .0910583 |
| Stddev | .0034923 | .0000134 | .0000152 | 13.712     | .0008320 | .0002818 |
| %RSD   | 1.317716 | .6793564 | .5454805 | 1.154983   | 1.336687 | .3094426 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2615757 | .0019797 | .0027952 | 1171.554 | .0620745 | .0913822 |
| #2 | .2649549 | .0019828 | .0028002 | 1192.835 | .0615098 | .0909233 |
| #3 | .2685592 | .0019582 | .0027717 | 1197.174 | .0631477 | .0908694 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0994102 | 99.56439 | 8.423992 | 273.7448 | .1737255 | -.010431 |
| Stddev | .0120640 | 1.38354  | .102730  | 3.0022   | .0006978 | .000655  |
| %RSD   | 12.13555 | 1.389591 | 1.219488 | 1.096716 | .4016453 | 6.274984 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0906916 | 97.96762 | 8.307252 | 270.2953 | .1739419 | -.010277 |
| #2 | .0943606 | 100.3191 | 8.464139 | 275.1712 | .1742894 | -.009868 |
| #3 | .1131785 | 100.4065 | 8.500586 | 275.7678 | .1729452 | -.011150 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.185473 | .0990930 | .2345508 | 2.059648 | 2.872159 | -.244810 |
| Stddev | .490837  | .0048967 | .0049279 | .108391  | .008048  | .004119  |
| %RSD   | 41.40433 | 4.941521 | 2.100995 | 5.262619 | .2801911 | 1.682472 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.489398 | .1017170 | .2360776 | 1.934826 | 2.875892 | -.241924 |
| #2 | 1.447810 | .0934435 | .2385347 | 2.130020 | 2.877662 | -.242979 |
| #3 | .619212  | .1021184 | .2290403 | 2.114098 | 2.862923 | -.249527 |



Sample Name: P4977-02      Acquired: 12/10/2024 20:14:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0111625 | 1.405409 | 2.429560 | .0139723 | .8621238 | .9236846 |
| Stddev | .0001422 | .009945  | .037222  | .0014835 | .0124482 | .0112288 |
| %RSD   | 1.274299 | .7076204 | 1.532042 | 10.61746 | 1.443898 | 1.215656 |
| #1     | .0110067 | 1.394137 | 2.389142 | .0127763 | .8482091 | .9109450 |
| #2     | .0111954 | 1.409142 | 2.437112 | .0135082 | .8659598 | .9279652 |
| #3     | .0112855 | 1.412947 | 2.462427 | .0156323 | .8722025 | .9321435 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.020117 |
| Stddev | .001948  |
| %RSD   | 9.684211 |
| #1     | -.019955 |
| #2     | -.018255 |
| #3     | -.022142 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2447.853 | 26617.20 | 2793.697 | 1884.610 | 3194.002 |
| Stddev    | 6.063    | 81.41    | 51.533   | 6.229    | 9.234    |
| %RSD      | .2476975 | .3058511 | 1.844625 | .3305221 | .2890918 |
| #1        | 2452.202 | 26620.01 | 2846.169 | 1891.334 | 3198.827 |
| #2        | 2440.927 | 26697.17 | 2791.765 | 1879.036 | 3183.355 |
| #3        | 2450.430 | 26534.42 | 2743.157 | 1883.461 | 3199.824 |

Sample Name: P4977-06      Acquired: 12/10/2024 20:18:00      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0125879 | .0130428 | .0306161 | -.033323 | -.015714 | 13.51626 |
| Stddev | .0031932 | .0032344 | .0008311 | .002468  | .001106  | .16631   |
| %RSD   | 25.36702 | 24.79834 | 2.714688 | 7.405449 | 7.036531 | 1.230462 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0108943 | .0128423 | .0297761 | -.033044 | -.014880 | 13.70505 |
| #2 | .0105983 | .0099133 | .0306340 | -.031006 | -.016968 | 13.45236 |
| #3 | .0162711 | .0163728 | .0314381 | -.035918 | -.015293 | 13.39138 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0529093 | .0013060 | .0011458 | F 1152.890 | .0362151 | .0664393 |
| Stddev | .0004431 | .0000754 | .0001047 | 13.885     | .0005385 | .0004594 |
| %RSD   | .8375501 | 5.771676 | 9.135692 | 1.204358   | 1.486999 | .6914716 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0529236 | .0013778 | .0012630 | 1168.922 | .0363629 | .0666560 |
| #2 | .0524592 | .0013127 | .0011125 | 1144.723 | .0366643 | .0659116 |
| #3 | .0533451 | .0012275 | .0010618 | 1145.024 | .0356181 | .0667503 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0445128 | 59.65775 | 5.030145 | 358.4376 | .0632313 | -.006639 |
| Stddev | .0049814 | .69319   | .060471  | 4.5805   | .0000879 | .001089  |
| %RSD   | 11.19097 | 1.161948 | 1.202163 | 1.277904 | .1389913 | 16.39886 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0396193 | 60.45739 | 5.099815 | 363.7100 | .0632072 | -.005657 |
| #2 | .0495777 | 59.28880 | 4.991275 | 355.4374 | .0631579 | -.007810 |
| #3 | .0443412 | 59.22707 | 4.999347 | 356.1655 | .0633287 | -.006450 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.168541 | .0569564 | .1416600 | .5284948 | 1.762129 | -.132586 |
| Stddev | .456815  | .0038731 | .0060824 | .1329051 | .003298  | .000225  |
| %RSD   | 39.09273 | 6.800127 | 4.293622 | 25.14786 | .1871444 | .1693275 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.695958 | .0525197 | .1457954 | .3757883 | 1.761164 | -.132836 |
| #2 | .897504  | .0586865 | .1346762 | .5916452 | 1.765802 | -.132518 |
| #3 | .912162  | .0596628 | .1445085 | .6180509 | 1.759422 | -.132403 |

Sample Name: P4977-06      Acquired: 12/10/2024 20:18:00      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0023946 | 1.414818 | 1.736409 | .0055915 | .6130733 | .7453203 |
| Stddev | .0004371 | .002067  | .011252  | .0005894 | .0074477 | .0101741 |
| %RSD   | 18.25285 | .1461135 | .6480317 | 10.54138 | 1.214816 | 1.365060 |
| #1     | .0028570 | 1.417186 | 1.746858 | .0050217 | .6216691 | .7570659 |
| #2     | .0019884 | 1.413371 | 1.737873 | .0055540 | .6090060 | .7396501 |
| #3     | .0023382 | 1.413898 | 1.724497 | .0061988 | .6085449 | .7392448 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.032781 |
| Stddev | .002120  |
| %RSD   | 6.467770 |
| #1     | -.032649 |
| #2     | -.030730 |
| #3     | -.034964 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2406.357 | 26256.69 | 2732.589 | 1856.590 | 3184.247 |
| Stddev    | 5.174    | 98.42    | 31.347   | 20.378   | 4.615    |
| %RSD      | .2149985 | .3748395 | 1.147143 | 1.097580 | .1449198 |
| #1        | 2401.896 | 26194.54 | 2696.396 | 1845.514 | 3180.445 |
| #2        | 2412.029 | 26370.17 | 2750.345 | 1880.107 | 3189.381 |
| #3        | 2405.146 | 26205.37 | 2751.028 | 1844.149 | 3182.913 |

Sample Name: P4977-07      Acquired: 12/10/2024 20:21:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0320840 | .0101609 | .0508076 | -.041149 | -.018396 | 13.75263 |
| Stddev | .0017741 | .0028427 | .0019204 | .001970  | .002724  | .04193   |
| %RSD   | 5.529504 | 27.97715 | 3.779819 | 4.787467 | 14.80522 | .3048519 |
| #1     | .0300380 | .0099282 | .0518704 | -.042827 | -.021199 | 13.79070 |
| #2     | .0330177 | .0131129 | .0519617 | -.041642 | -.015760 | 13.75949 |
| #3     | .0331961 | .0074417 | .0485907 | -.038980 | -.018230 | 13.70769 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0723677 | .0016477 | .0013072 | F 1393.704 | .0413615 | .0717301 |
| Stddev | .0005970 | .0000591 | .0001355 | 1.473      | .0008573 | .0007743 |
| %RSD   | .8249731 | 3.587731 | 10.36369 | .1056737   | 2.072647 | 1.079415 |
| #1     | .0718419 | .0015866 | .0014618 | 1392.004   | .0410996 | .0709169 |
| #2     | .0730167 | .0016519 | .0012094 | 1394.493   | .0423192 | .0724584 |
| #3     | .0722446 | .0017046 | .0012503 | 1394.614   | .0406657 | .0718152 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0733749 | 63.33860 | 3.233329 | 367.2036 | .0837009 | -.006690 |
| Stddev | .0061780 | .04024   | .008084  | .7293    | .0007939 | .000578  |
| %RSD   | 8.419779 | .0635380 | .2500269 | .1986194 | .9484866 | 8.638148 |
| #1     | .0681792 | 63.29242 | 3.224009 | 366.4243 | .0839188 | -.007005 |
| #2     | .0802061 | 63.36618 | 3.238446 | 367.3168 | .0843631 | -.007042 |
| #3     | .0717394 | 63.35720 | 3.237532 | 367.8698 | .0828208 | -.006023 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6174519 | .0613222 | .1907261 | .6645368 | 1.848532 | -.125684 |
| Stddev | .5398965 | .0044018 | .0062005 | .0587545 | .001018  | .001053  |
| %RSD   | 87.43944 | 7.178193 | 3.251000 | 8.841427 | .0550658 | .8377938 |
| #1     | 1.133977 | .0653572 | .1921509 | .7129876 | 1.848947 | -.126192 |
| #2     | .056882  | .0566279 | .1839372 | .6814389 | 1.847372 | -.126385 |
| #3     | .661496  | .0619816 | .1960902 | .5991837 | 1.849276 | -.124473 |

Sample Name: P4977-07      Acquired: 12/10/2024 20:21:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0056535 | 1.556072 | 1.993510 | .0025156 | .3914378 | 1.005705 |
| Stddev | .0003329 | .001237  | .013886  | .0007504 | .0044264 | .000480  |
| %RSD   | 5.889331 | .0794984 | .6965386 | 29.83064 | 1.130801 | .0477017 |
| #1     | .0055559 | 1.556669 | 1.984372 | .0025392 | .3866275 | 1.005170 |
| #2     | .0053801 | 1.556897 | 2.009489 | .0032539 | .3953391 | 1.006095 |
| #3     | .0060243 | 1.554650 | 1.986669 | .0017536 | .3923467 | 1.005852 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.025068 |
| Stddev | .001500  |
| %RSD   | 5.984957 |
| #1     | -.025088 |
| #2     | -.026558 |
| #3     | -.023558 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2394.097 | 25776.48 | 2715.189 | 1817.924 | 3156.451 |
| Stddev    | 9.938    | 473.74   | 14.876   | 33.219   | 12.429   |
| %RSD      | .4150952 | 1.837865 | .5478984 | 1.827305 | .3937583 |
| #1        | 2397.740 | 25837.46 | 2707.514 | 1822.707 | 3162.943 |
| #2        | 2401.699 | 25275.21 | 2705.717 | 1782.573 | 3164.289 |
| #3        | 2382.852 | 26216.78 | 2732.335 | 1848.492 | 3142.120 |

Sample Name: P4977-08      Acquired: 12/10/2024 20:25:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0184392 | .0122091 | .0280129 | -.027164 | -.016899 | 12.24830 |
| Stddev | .0035521 | .0010379 | .0018881 | .001983  | .001589  | .05872   |
| %RSD   | 19.26396 | 8.501103 | 6.739994 | 7.299789 | 9.403838 | .4793943 |
| #1     | .0163154 | .0110798 | .0262804 | -.026002 | -.016103 | 12.25071 |
| #2     | .0164622 | .0124262 | .0300253 | -.029453 | -.015865 | 12.30577 |
| #3     | .0225399 | .0131213 | .0277332 | -.026036 | -.018728 | 12.18841 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0631010 | .0010817 | .0006752 | F 831.0482 | .0373784 | .0589994 |
| Stddev | .0019855 | .0000738 | .0000830 | 2.8062     | .0009784 | .0003712 |
| %RSD   | 3.146520 | 6.826292 | 12.29398 | .3376720   | 2.617562 | .6292102 |
| #1     | .0652448 | .0009979 | .0005926 | 832.4033   | .0366937 | .0586566 |
| #2     | .0627328 | .0011101 | .0006746 | 832.9196   | .0384989 | .0593937 |
| #3     | .0613254 | .0011371 | .0007586 | 827.8216   | .0369425 | .0589479 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0435532 | 37.97290 | 1.672889 | 183.7666 | .0616251 | -.004487 |
| Stddev | .0051236 | .04385   | .008592  | .9654    | .0015132 | .000145  |
| %RSD   | 11.76390 | .1154756 | .5136086 | .5253641 | 2.455447 | 3.239512 |
| #1     | .0404271 | 38.01395 | 1.681643 | 184.8045 | .0615233 | -.004424 |
| #2     | .0407663 | 37.92671 | 1.672554 | 183.5998 | .0601654 | -.004384 |
| #3     | .0494661 | 37.97803 | 1.664469 | 182.8954 | .0631866 | -.004653 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3618782 | .0511487 | .1185609 | .1452421 | 1.677360 | -.085071 |
| Stddev | .4986628 | .0029314 | .0105294 | .0757227 | .008568  | .001042  |
| %RSD   | 137.7985 | 5.731213 | 8.881009 | 52.13551 | .5107769 | 1.224581 |
| #1     | -.098403 | .0478045 | .1125902 | .2096981 | 1.667945 | -.084042 |
| #2     | .891636  | .0523675 | .1307186 | .1641805 | 1.679434 | -.085048 |
| #3     | .292402  | .0532741 | .1123740 | .0618477 | 1.684700 | -.086125 |

Sample Name: P4977-08      Acquired: 12/10/2024 20:25:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009027 | 2.041236 | 1.754716 | -.000793 | .6287479 | .6672310 |
| Stddev | .0003844 | .010722  | .008783  | .000090  | .0022059 | .0018927 |
| %RSD   | 42.58693 | .5252845 | .5005182 | 11.32499 | .3508364 | .2836636 |
| #1     | .0009874 | 2.029054 | 1.764549 | -.000896 | .6312017 | .6686952 |
| #2     | .0004830 | 2.049244 | 1.751952 | -.000750 | .6281129 | .6679040 |
| #3     | .0012377 | 2.045409 | 1.747649 | -.000732 | .6269292 | .6650938 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.049320 |
| Stddev | .008093  |
| %RSD   | 16.40951 |
| #1     | -.043653 |
| #2     | -.045718 |
| #3     | -.058589 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2454.647 | 26841.20 | 2764.370 | 1898.652 | 3347.578 |
| Stddev    | 4.096    | 75.91    | 12.387   | 6.356    | 9.979    |
| %RSD      | .1668538 | .2827931 | .4480845 | .3347407 | .2980888 |
| #1        | 2457.472 | 26786.24 | 2751.775 | 1891.426 | 3353.911 |
| #2        | 2449.950 | 26809.56 | 2764.796 | 1901.158 | 3336.075 |
| #3        | 2456.519 | 26927.81 | 2776.538 | 1903.373 | 3352.748 |

Sample Name: P4977-09      Acquired: 12/10/2024 20:29:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0254839 | .0111139 | .0282570 | -.039790 | -.018908 | 13.52141 |
| Stddev | .0030623 | .0030531 | .0005506 | .001690  | .001436  | .05859   |
| %RSD   | 12.01653 | 27.47123 | 1.948400 | 4.246178 | 7.593376 | .4332915 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0274704 | .0145225 | .0288526 | -.039981 | -.017728 | 13.47879 |
| #2 | .0270241 | .0101893 | .0281516 | -.038014 | -.018491 | 13.58822 |
| #3 | .0219573 | .0086300 | .0277667 | -.041376 | -.020507 | 13.49722 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0638180 | .0012628 | .0007967 | F 1443.727 | .0425381 | .0674730 |
| Stddev | .0006432 | .0001388 | .0000399 | 4.273      | .0002577 | .0005818 |
| %RSD   | 1.007862 | 10.99420 | 5.006833 | .2959987   | .6058801 | .8622056 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0631346 | .0014231 | .0008421 | 1439.448 | .0422406 | .0674160 |
| #2 | .0644116 | .0011820 | .0007671 | 1447.995 | .0426872 | .0680811 |
| #3 | .0639079 | .0011833 | .0007809 | 1443.738 | .0426867 | .0669218 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0357311 | 41.17175 | 1.764456 | 317.7498 | .0684537 | -.004220 |
| Stddev | .0056114 | .16455   | .012461  | .8673    | .0010865 | .001334  |
| %RSD   | 15.70446 | .3996793 | .7062056 | .2729523 | 1.587183 | 31.60935 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0374832 | 41.01458 | 1.750078 | 316.8123 | .0680828 | -.005758 |
| #2 | .0402574 | 41.34281 | 1.772125 | 317.9136 | .0696771 | -.003519 |
| #3 | .0294528 | 41.15788 | 1.771164 | 318.5235 | .0676013 | -.003382 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5867077 | .0653736 | .1250877 | .1492857 | 1.473512 | -.081978 |
| Stddev | .3995373 | .0077975 | .0086582 | .0190919 | .008000  | .003849  |
| %RSD   | 68.09819 | 11.92763 | 6.921714 | 12.78880 | .5429020 | 4.695141 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2012329 | .0625488 | .1165053 | .1275505 | 1.464297 | -.080095 |
| #2 | .9989603 | .0593822 | .1338198 | .1569624 | 1.477567 | -.086406 |
| #3 | .5599299 | .0741899 | .1249381 | .1633444 | 1.478672 | -.079434 |



Sample Name: P4977-09      Acquired: 12/10/2024 20:29:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0030313 | 2.266201 | 1.839135 | .0130760 | .5908983 | .8060040 |
| Stddev | .0003689 | .008803  | .003762  | .0016174 | .0099021 | .0025866 |
| %RSD   | 12.17043 | .3884530 | .2045660 | 12.36935 | 1.675773 | .3209212 |
| #1     | .0032515 | 2.263083 | 1.843198 | .0112672 | .5795750 | .8039336 |
| #2     | .0026054 | 2.259381 | 1.838436 | .0143832 | .5951853 | .8051749 |
| #3     | .0032370 | 2.276139 | 1.835772 | .0135775 | .5979345 | .8089036 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.034973 |
| Stddev | .006465  |
| %RSD   | 18.48592 |
| #1     | -.032813 |
| #2     | -.042242 |
| #3     | -.029865 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2359.095 | 25790.72 | 2723.567 | 1829.417 | 3147.551 |
| Stddev    | 4.407    | 252.09   | 6.457    | 18.532   | 2.268    |
| %RSD      | .1867953 | .9774392 | .2370727 | 1.012990 | .0720484 |
| #1        | 2360.968 | 26065.80 | 2721.799 | 1849.178 | 3149.494 |
| #2        | 2354.061 | 25570.74 | 2718.179 | 1812.425 | 3145.059 |
| #3        | 2362.255 | 25735.60 | 2730.724 | 1826.649 | 3148.099 |

Sample Name: P4976-01      Acquired: 12/10/2024 20:33:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0213878 | .0085294 | .0398707 | -.035749 | -.014641 | 15.13382 |
| Stddev | .0001780 | .0033127 | .0010543 | .002071  | .002390  | .10102   |
| %RSD   | .8320572 | 38.83849 | 2.644394 | 5.792034 | 16.32560 | .6675275 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0215549 | .0055631 | .0395371 | -.033568 | -.015066 | 15.04946 |
| #2 | .0214078 | .0121041 | .0410515 | -.035991 | -.012067 | 15.24577 |
| #3 | .0212006 | .0079210 | .0390235 | -.037688 | -.016790 | 15.10622 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0594428 | .0016920 | .0011699 | F 1087.013 | .0385926 | .0756387 |
| Stddev | .0014500 | .0000613 | .0000603 | 7.624      | .0004602 | .0006725 |
| %RSD   | 2.439255 | 3.622978 | 5.152105 | .7013495   | 1.192483 | .8890951 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0582136 | .0016226 | .0011991 | 1079.571 | .0385999 | .0748635 |
| #2 | .0610419 | .0017389 | .0011006 | 1094.806 | .0390491 | .0760656 |
| #3 | .0590730 | .0017144 | .0012101 | 1086.663 | .0381288 | .0759870 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0667778 | 61.26783 | 2.247656 | 280.1266 | .0824109 | -.005448 |
| Stddev | .0127123 | .37504   | .017407  | 1.4985   | .0003583 | .000641  |
| %RSD   | 19.03677 | .6121376 | .7744608 | .5349224 | .4348158 | 11.75882 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0533628 | 60.84453 | 2.235948 | 279.1222 | .0827116 | -.005299 |
| #2 | .0786459 | 61.55866 | 2.267659 | 281.8490 | .0825066 | -.004895 |
| #3 | .0683248 | 61.40030 | 2.239361 | 279.4086 | .0820144 | -.006150 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2443316 | .0602969 | .1537939 | 1.244350 | 1.754964 | -.138118 |
| Stddev | .5365417 | .0080253 | .0042007 | .145967  | .004797  | .000705  |
| %RSD   | 219.5957 | 13.30968 | 2.731351 | 11.73037 | .2733181 | .5106746 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .7329895 | .0653727 | .1534402 | 1.141081 | 1.759177 | -.137459 |
| #2 | .3298316 | .0510446 | .1581602 | 1.180624 | 1.749744 | -.138032 |
| #3 | -.329826 | .0644734 | .1497813 | 1.411344 | 1.755973 | -.138862 |

Sample Name: P4976-01      Acquired: 12/10/2024 20:33:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0074370 | 1.050765 | 2.494026 | .0060443 | .4400491 | .7194547 |
| Stddev | .0003944 | .009302  | .014774  | .0012400 | .0053124 | .0058378 |
| %RSD   | 5.302844 | .8852448 | .5923956 | 20.51500 | 1.207235 | .8114250 |
| #1     | .0073153 | 1.057150 | 2.482072 | .0074602 | .4340583 | .7163998 |
| #2     | .0071179 | 1.055052 | 2.510544 | .0051520 | .4441867 | .7261861 |
| #3     | .0078779 | 1.040093 | 2.489461 | .0055207 | .4419022 | .7157782 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.036827 |
| Stddev | .002009  |
| %RSD   | 5.453974 |
| #1     | -.034968 |
| #2     | -.036556 |
| #3     | -.038957 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2381.216 | 26057.76 | 2729.359 | 1841.295 | 3193.327 |
| Stddev    | 5.358    | 58.74    | 25.842   | 6.367    | 6.317    |
| %RSD      | .2250026 | .2254369 | .9468302 | .3457983 | .1978088 |
| #1        | 2384.464 | 26123.00 | 2752.294 | 1844.381 | 3195.071 |
| #2        | 2384.151 | 26009.07 | 2701.360 | 1845.531 | 3198.589 |
| #3        | 2375.032 | 26041.20 | 2734.424 | 1833.973 | 3186.322 |

Sample Name: P4976-02      Acquired: 12/10/2024 20:37:27      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960     | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0130919 | .0089463 | .0316710 | -.037793   | -.015715 | 12.34077 |
| Stddev | .0020187 | .0014608 | .0012747 | .005807    | .001051  | .01814   |
| %RSD   | 15.41958 | 16.32827 | 4.024671 | 15.36548   | 6.690016 | .1470119 |
| #1     | .0118372 | .0106116 | .0325482 | -.044197   | -.016006 | 12.32870 |
| #2     | .0154206 | .0083461 | .0302088 | -.032871   | -.016590 | 12.36164 |
| #3     | .0120179 | .0078813 | .0322559 | -.036310   | -.014548 | 12.33199 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0619075 | .0013975 | .0010737 | F 1266.555 | .0371063 | .0664553 |
| Stddev | .0007404 | .0000885 | .0000475 | 2.844      | .0002805 | .0004574 |
| %RSD   | 1.195989 | 6.330941 | 4.423962 | .2245085   | .7558322 | .6883013 |
| #1     | .0625043 | .0013395 | .0010955 | 1265.109   | .0374156 | .0663747 |
| #2     | .0621393 | .0014994 | .0011063 | 1264.725   | .0370350 | .0660436 |
| #3     | .0610789 | .0013537 | .0010192 | 1269.831   | .0368684 | .0669477 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790     | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0764573 | 56.08183 | 2.165175 | 184.5770   | .0651714 | -.006227 |
| Stddev | .0036683 | .21352   | .005442  | .5427      | .0002328 | .001325  |
| %RSD   | 4.797897 | .3807206 | .2513215 | .2939989   | .3572472 | 21.27124 |
| #1     | .0723840 | 56.06715 | 2.158908 | 184.0455   | .0650594 | -.007753 |
| #2     | .0774877 | 55.87603 | 2.167917 | 184.5554   | .0654391 | -.005561 |
| #3     | .0795003 | 56.30230 | 2.168701 | 185.1302   | .0650158 | -.005368 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698     | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .9109383 | .0548068 | .1559221 | .5114617   | 1.834687 | -.135462 |
| Stddev | .7281300 | .0060294 | .0061801 | .1232154   | .005324  | .000589  |
| %RSD   | 79.93187 | 11.00111 | 3.963593 | 24.09083   | .2902062 | .4350543 |
| #1     | .0800059 | .0608785 | .1630580 | .6395904   | 1.840590 | -.135901 |
| #2     | 1.215333 | .0488207 | .1524007 | .3938314   | 1.830247 | -.135694 |
| #3     | 1.437476 | .0547210 | .1523074 | .5009634   | 1.833223 | -.134792 |

Sample Name: P4976-02      Acquired: 12/10/2024 20:37:27      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0060562 | 1.209220 | 1.938302 | .0038067 | .4750567 | .9529797 |
| Stddev | .0002632 | .004514  | .011716  | .0005050 | .0052278 | .0023227 |
| %RSD   | 4.346270 | .3733080 | .6044607 | 13.26494 | 1.100462 | .2437331 |
| #1     | .0062471 | 1.205041 | 1.934688 | .0034887 | .4713525 | .9510669 |
| #2     | .0057559 | 1.208611 | 1.928819 | .0035424 | .4727809 | .9523079 |
| #3     | .0061656 | 1.214007 | 1.951400 | .0043890 | .4810367 | .9555643 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.046596 |
| Stddev | .002919  |
| %RSD   | 6.264439 |
| #1     | -.049960 |
| #2     | -.044743 |
| #3     | -.045084 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2402.618 | 26380.82 | 2756.404 | 1862.135 | 3206.163 |
| Stddev    | 6.886    | 38.04    | 11.694   | 9.756    | 3.747    |
| %RSD      | .2866111 | .1441951 | .4242468 | .5239384 | .1168762 |
| #1        | 2401.621 | 26406.99 | 2766.739 | 1869.980 | 3207.140 |
| #2        | 2409.949 | 26337.19 | 2758.762 | 1851.211 | 3209.325 |
| #3        | 2396.285 | 26398.29 | 2743.711 | 1865.216 | 3202.024 |

Sample Name: P4976-03      Acquired: 12/10/2024 20:41:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0491011 | .0115755 | .0377878 | -.036143 | -.016880 | 19.35083 |
| Stddev | .0036541 | .0014698 | .0027739 | .003941  | .003581  | .01547   |
| %RSD   | 7.441901 | 12.69739 | 7.340833 | 10.90326 | 21.21651 | .0799657 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0471897 | .0104259 | .0396299 | -.037373 | -.015809 | 19.35032 |
| #2 | .0467992 | .0132316 | .0345974 | -.031734 | -.013956 | 19.36655 |
| #3 | .0533144 | .0110691 | .0391360 | -.039321 | -.020874 | 19.33562 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0819256 | .0014037 | .0009524 | F 1066.318 | .0590494 | .0734340 |
| Stddev | .0016898 | .0001911 | .0000794 | .875       | .0007112 | .0002809 |
| %RSD   | 2.062602 | 13.61301 | 8.340291 | .0821044   | 1.204408 | .3824924 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0836401 | .0015775 | .0010436 | 1065.509 | .0598207 | .0732149 |
| #2 | .0818751 | .0014345 | .0008986 | 1067.248 | .0589080 | .0737507 |
| #3 | .0802617 | .0011991 | .0009149 | 1066.198 | .0584195 | .0733365 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0693521 | 57.41705 | 4.901896 | 256.9020 | .0898134 | -.004830 |
| Stddev | .0067877 | .18730   | .009061  | .3022    | .0010594 | .000380  |
| %RSD   | 9.787228 | .3262036 | .1848507 | .1176433 | 1.179510 | 7.869452 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0771182 | 57.39273 | 4.892299 | 257.0517 | .0888530 | -.005182 |
| #2 | .0663848 | 57.61533 | 4.903083 | 256.5542 | .0909497 | -.004882 |
| #3 | .0645534 | 57.24311 | 4.910304 | 257.1002 | .0896375 | -.004427 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3444318 | .0820822 | .1819228 | .8998753 | 1.919258 | -.132928 |
| Stddev | .9658555 | .0013998 | .0084357 | .1034143 | .010161  | .002742  |
| %RSD   | 280.4199 | 1.705409 | 4.636982 | 11.49207 | .5294296 | 2.062930 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.319169 | .0832281 | .1862006 | .9605002 | 1.912287 | -.130268 |
| #2 | .326416  | .0805220 | .1722052 | .9586583 | 1.914571 | -.132772 |
| #3 | -.612290 | .0824965 | .1873627 | .7804675 | 1.930917 | -.135746 |

Sample Name: P4976-03      Acquired: 12/10/2024 20:41:20      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0031704 | 5.349647 | 2.368106 | .0043254 | .6438540 | .7733433 |
| Stddev | .0000538 | .023463  | .007717  | .0006077 | .0047280 | .0015600 |
| %RSD   | 1.695816 | .4385967 | .3258520 | 14.04987 | .7343247 | .2017166 |
| #1     | .0031410 | 5.323260 | 2.359745 | .0042147 | .6457756 | .7715895 |
| #2     | .0032324 | 5.357515 | 2.369619 | .0037806 | .6473186 | .7745760 |
| #3     | .0031377 | 5.368164 | 2.374954 | .0049808 | .6384678 | .7738645 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.022198 |
| Stddev | .005071  |
| %RSD   | 22.84547 |
| #1     | -.019452 |
| #2     | -.028050 |
| #3     | -.019091 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2389.819 | 26320.43 | 2728.446 | 1859.068 | 3177.734 |
| Stddev    | 7.362    | 104.32   | 7.346    | 7.352    | 11.624   |
| %RSD      | .3080438 | .3963531 | .2692479 | .3954462 | .3658005 |
| #1        | 2398.211 | 26233.17 | 2724.089 | 1854.570 | 3191.098 |
| #2        | 2386.796 | 26292.16 | 2724.322 | 1855.082 | 3172.138 |
| #3        | 2384.450 | 26435.98 | 2736.928 | 1867.552 | 3169.967 |

Sample Name: P4976-04      Acquired: 12/10/2024 20:45:10      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0595552 | -.012862 | .1649936 | .0037241 | .0084780 | 133.5742 | .6464450 |
| Stddev | .0013137 | .002783  | .0014391 | .0040630 | .0036191 | .3112    | .0026036 |
| %RSD   | 2.205800 | 21.63472 | .8722423 | 109.0998 | 42.68881 | .2329597 | .4027523 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0607341 | -.011947 | .1658392 | -.000942 | .0092431 | 133.6889 | .6470732 |
| #2 | .0581391 | -.015986 | .1633319 | .006478  | .0116534 | 133.8118 | .6486769 |
| #3 | .0597923 | -.010651 | .1658098 | .005636  | .0045374 | 133.2220 | .6435848 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0087626 | .0004256 | 24.06795 | .1754651 | .1756200 | .0973702 | 343.4612 |
| Stddev | .0002949 | .0001143 | .06343   | .0009942 | .0005621 | .0065886 | .8100    |
| %RSD   | 3.365875 | 26.86182 | .2635350 | .5666049 | .3200799 | 6.766574 | .2358318 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0089668 | .0005192 | 24.09696 | .1753729 | .1759669 | .0899225 | 343.4440 |
| #2 | .0088966 | .0002982 | 24.11168 | .1745202 | .1749714 | .1024390 | 344.2796 |
| #3 | .0084245 | .0004592 | 23.99520 | .1765022 | .1759216 | .0997491 | 342.6599 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.106991 | 66.56650 | .5711855 | -.030865 | 2.471857 | .2276233 | .7669109 |
| Stddev | .007209  | .32082   | .0009616 | .000951  | .297516  | .0061928 | .0082112 |
| %RSD   | .2320145 | .4819551 | .1683585 | 3.081384 | 12.03613 | 2.720616 | 1.070680 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.114811 | 66.93660 | .5719281 | -.031417 | 2.583937 | .2293990 | .7603705 |
| #2 | 3.100611 | 66.39546 | .5700992 | -.029767 | 2.134580 | .2327343 | .7642364 |
| #3 | 3.105551 | 66.36744 | .5715291 | -.031411 | 2.697055 | .2207367 | .7761259 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 23.75709 | 1.677114 | -.941206 | -.001736 | 67.92133 | 7.230699 | .0194458 |
| Stddev | .20037   | .001686  | .008382  | .000554  | .13428   | .091633  | .0012598 |
| %RSD   | .8434034 | .1005139 | .8905260 | 31.89505 | .1977023 | 1.267278 | 6.478281 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 23.67895 | 1.678819 | -.947947 | -.001491 | 67.96105 | 7.308299 | .0180079 |
| #2 | 23.98475 | 1.677074 | -.943850 | -.001347 | 67.77166 | 7.254191 | .0199742 |
| #3 | 23.60755 | 1.675448 | -.931821 | -.002370 | 68.03127 | 7.129607 | .0203553 |



Sample Name: P4976-04      Acquired: 12/10/2024 20:45:10      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3854474 | -.250539 | .3748664 |
| Stddev | .0038002 | .000891  | .0059157 |
| %RSD   | .9859279 | .3554529 | 1.578072 |
| #1     | .3897381 | -.250400 | .3715342 |
| #2     | .3840983 | -.251491 | .3816966 |
| #3     | .3825057 | -.249727 | .3713685 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2625.149 | 28666.64 | 2830.685 | 2048.886 | 3787.676 |
| Stddev    | 8.840    | 125.02   | 24.099   | 15.062   | 13.757   |
| %RSD      | .3367292 | .4361055 | .8513661 | .7351516 | .3632174 |
| #1        | 2618.312 | 28731.98 | 2807.756 | 2058.377 | 3777.623 |
| #2        | 2635.131 | 28745.45 | 2828.494 | 2056.764 | 3803.355 |
| #3        | 2622.004 | 28522.50 | 2855.805 | 2031.519 | 3782.050 |

Sample Name: P4976-05      Acquired: 12/10/2024 20:48:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0231738 | .0085585 | .0442903 | -.040307 | -.016393 | 15.60152 |
| Stddev | .0045685 | .0011535 | .0008619 | .005071  | .002527  | .14251   |
| %RSD   | 19.71402 | 13.47797 | 1.946035 | 12.58071 | 15.41374 | .9134552 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0232202 | .0092739 | .0441513 | -.034523 | -.014040 | 15.68928 |
| #2 | .0185823 | .0091738 | .0435064 | -.043989 | -.016077 | 15.67821 |
| #3 | .0277189 | .0072278 | .0452133 | -.042409 | -.019064 | 15.43709 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0617103 | .0017077 | .0011326 | F 983.9569 | .0459516 | .0741492 |
| Stddev | .0010347 | .0001178 | .0000697 | 8.0771     | .0006725 | .0002578 |
| %RSD   | 1.676739 | 6.897259 | 6.156013 | .8208774   | 1.463502 | .3476361 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0607474 | .0017946 | .0010652 | 988.8699 | .0462388 | .0738598 |
| #2 | .0628043 | .0017549 | .0011282 | 988.3660 | .0451833 | .0742334 |
| #3 | .0615792 | .0015737 | .0012044 | 974.6349 | .0464330 | .0743543 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0638916 | 61.08296 | 2.099601 | 226.8406 | .0841808 | -.006507 |
| Stddev | .0079888 | .62660   | .015667  | 1.5279   | .0016660 | .000603  |
| %RSD   | 12.50370 | 1.025825 | .7462063 | .6735608 | 1.979066 | 9.268480 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0726382 | 61.35292 | 2.110399 | 227.6150 | .0860883 | -.007157 |
| #2 | .0620567 | 61.52934 | 2.106773 | 227.8263 | .0830108 | -.006399 |
| #3 | .0569799 | 60.36663 | 2.081631 | 225.0806 | .0834434 | -.005965 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7365090 | .0727529 | .1506714 | 1.134215 | 1.935237 | -.141823 |
| Stddev | .4410427 | .0049606 | .0096002 | .179244  | .004373  | .001279  |
| %RSD   | 59.88287 | 6.818467 | 6.371604 | 15.80333 | .2259908 | .9015899 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.052001 | .0712753 | .1616569 | 1.228378 | 1.935024 | -.140373 |
| #2 | .924981  | .0686990 | .1438932 | 1.246753 | 1.930974 | -.142305 |
| #3 | .232545  | .0782845 | .1464640 | .927514  | 1.939713 | -.142790 |

Sample Name: P4976-05      Acquired: 12/10/2024 20:48:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0072441 | 1.209158 | 2.010616 | .0066381 | .5604215 | .7374731 |
| Stddev | .0004930 | .003853  | .018451  | .0012061 | .0058037 | .0050931 |
| %RSD   | 6.806240 | .3186522 | .9176823 | 18.16979 | 1.035591 | .6906179 |
| #1     | .0073687 | 1.204863 | 2.004814 | .0056252 | .5647730 | .7401755 |
| #2     | .0076628 | 1.212311 | 2.031270 | .0079724 | .5626594 | .7406454 |
| #3     | .0067007 | 1.210300 | 1.995763 | .0063169 | .5538320 | .7315983 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.040664 |
| Stddev | .002532  |
| %RSD   | 6.225920 |
| #1     | -.039242 |
| #2     | -.043587 |
| #3     | -.039164 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2422.848 | 26339.39 | 2777.644 | 1857.778 | 3266.961 |
| Stddev    | 4.911    | 119.90   | 26.670   | 18.968   | 4.505    |
| %RSD      | .2027130 | .4552115 | .9601734 | 1.021017 | .1378810 |
| #1        | 2427.009 | 26201.02 | 2766.754 | 1836.089 | 3269.171 |
| #2        | 2424.105 | 26404.54 | 2758.142 | 1865.982 | 3269.934 |
| #3        | 2417.430 | 26412.62 | 2808.036 | 1871.264 | 3261.778 |

Sample Name: P4976-06      Acquired: 12/10/2024 20:52:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0168328 | .0095613 | .0376529 | -.038467 | -.017561 | 14.37466 |
| Stddev | .0009474 | .0010534 | .0035553 | .006161  | .004045  | .06456   |
| %RSD   | 5.628591 | 11.01720 | 9.442189 | 16.01680 | 23.03625 | .4490963 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0178334 | .0104849 | .0339127 | -.033900 | -.022199 | 14.34337 |
| #2 | .0167157 | .0084141 | .0380574 | -.045475 | -.015716 | 14.44890 |
| #3 | .0159494 | .0097849 | .0409886 | -.036027 | -.014766 | 14.33170 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0567190 | .0017080 | .0012056 | F 1437.216 | .0388602 | .0742087 |
| Stddev | .0004497 | .0000999 | .0001480 | 6.788      | .0007247 | .0004150 |
| %RSD   | .7927882 | 5.850095 | 12.27943 | .4722947   | 1.864925 | .5592315 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0567477 | .0017379 | .0012102 | 1435.573 | .0396399 | .0737297 |
| #2 | .0562556 | .0015965 | .0010553 | 1444.674 | .0382072 | .0744624 |
| #3 | .0571535 | .0017895 | .0013513 | 1431.400 | .0387334 | .0744338 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0698094 | 58.04696 | 2.276348 | 485.5091 | .0766543 | -.004590 |
| Stddev | .0056204 | .17702   | .011046  | 2.5376   | .0006634 | .000991  |
| %RSD   | 8.051129 | .3049681 | .4852507 | .5226628 | .8654814 | 21.59749 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0696085 | 58.04902 | 2.271543 | 484.5326 | .0765668 | -.005722 |
| #2 | .0642920 | 58.22294 | 2.288982 | 488.3898 | .0760389 | -.004171 |
| #3 | .0755275 | 57.86891 | 2.268517 | 483.6048 | .0773571 | -.003877 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5516689 | .0731065 | .1472358 | 1.077381 | 1.924709 | -.124873 |
| Stddev | .3176463 | .0026662 | .0103521 | .069117  | .011797  | .001753  |
| %RSD   | 57.57916 | 3.647066 | 7.030990 | 6.415301 | .6128988 | 1.403612 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .8827792 | .0702453 | .1359318 | 1.061391 | 1.914076 | -.126830 |
| #2 | .2494621 | .0755215 | .1562540 | 1.017661 | 1.922652 | -.124343 |
| #3 | .5227653 | .0735527 | .1495216 | 1.153092 | 1.937399 | -.123447 |

Sample Name: P4976-06      Acquired: 12/10/2024 20:52:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0050264 | 1.633368 | 2.028463 | .0048762 | .4779059 | .9548931 |
| Stddev | .0003253 | .009800  | .008663  | .0007715 | .0071544 | .0043823 |
| %RSD   | 6.471034 | .5999956 | .4270929 | 15.82123 | 1.497021 | .4589313 |
| #1     | .0053818 | 1.623250 | 2.038463 | .0043827 | .4802184 | .9534281 |
| #2     | .0047437 | 1.634036 | 2.023684 | .0057652 | .4836179 | .9598202 |
| #3     | .0049536 | 1.642816 | 2.023242 | .0044807 | .4698813 | .9514309 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.035253 |
| Stddev | .000970  |
| %RSD   | 2.752857 |
| #1     | -.035744 |
| #2     | -.034135 |
| #3     | -.035879 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2350.933 | 25820.54 | 2744.784 | 1822.302 | 3082.877 |
| Stddev    | 9.928    | 83.25    | 16.911   | 12.443   | 11.057   |
| %RSD      | .4222942 | .3224043 | .6161107 | .6828384 | .3586620 |
| #1        | 2355.485 | 25811.34 | 2741.882 | 1822.153 | 3092.627 |
| #2        | 2357.768 | 25742.28 | 2729.512 | 1809.934 | 3085.141 |
| #3        | 2339.545 | 25908.01 | 2762.958 | 1834.820 | 3070.864 |

Sample Name: P4976-07      Acquired: 12/10/2024 20:56:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0112640 | .0135791 | .0334448 | -.042944 | -.019242 | 13.41952 |
| Stddev | .0015992 | .0020323 | .0012495 | .003144  | .002331  | .21538   |
| %RSD   | 14.19761 | 14.96628 | 3.736038 | 7.322263 | 12.11528 | 1.604964 |
| #1     | .0129602 | .0113748 | .0320216 | -.039520 | -.018039 | 13.61824 |
| #2     | .0110481 | .0153784 | .0343615 | -.045703 | -.021929 | 13.44967 |
| #3     | .0097837 | .0139842 | .0339515 | -.043609 | -.017759 | 13.19066 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0603826 | .0014020 | .0010906 | F 1381.264 | .0399794 | .0687039 |
| Stddev | .0025564 | .0000657 | .0000514 | 20.443     | .0002497 | .0013575 |
| %RSD   | 4.233627 | 4.686099 | 4.717283 | 1.480051   | .6246026 | 1.975838 |
| #1     | .0605516 | .0013907 | .0011270 | 1399.110   | .0402369 | .0688288 |
| #2     | .0628503 | .0014726 | .0010317 | 1385.723   | .0397383 | .0699946 |
| #3     | .0577459 | .0013427 | .0011131 | 1358.959   | .0399631 | .0672883 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0518302 | 59.43081 | 2.633460 | 320.9699 | .0653152 | -.005693 |
| Stddev | .0076288 | .88352   | .045025  | 4.0846   | .0005345 | .001059  |
| %RSD   | 14.71878 | 1.486634 | 1.709709 | 1.272571 | .8182607 | 18.60527 |
| #1     | .0507495 | 60.18945 | 2.679199 | 324.7110 | .0647681 | -.004547 |
| #2     | .0447995 | 59.64221 | 2.631996 | 321.5868 | .0658361 | -.006636 |
| #3     | .0599418 | 58.46077 | 2.589186 | 316.6120 | .0653414 | -.005896 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4064724 | .0649405 | .1222305 | -.053085 | 2.057526 | -.136996 |
| Stddev | .6496633 | .0057130 | .0032016 | .036973  | .027398  | .004371  |
| %RSD   | 159.8296 | 8.797240 | 2.619288 | 69.64894 | 1.331607 | 3.190897 |
| #1     | -.341570 | .0688997 | .1185350 | -.090498 | 2.049171 | -.141640 |
| #2     | .731638  | .0675305 | .1239920 | -.016568 | 2.088129 | -.136386 |
| #3     | .829349  | .0583912 | .1241646 | -.052188 | 2.035277 | -.132961 |

Sample Name: P4976-07      Acquired: 12/10/2024 20:56:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0034468 | 1.939063 | 1.894734 | .0071339 | .5480340 | .8545525 |
| Stddev | .0006100 | .023829  | .035324  | .0006951 | .0064253 | .0121774 |
| %RSD   | 17.69600 | 1.228903 | 1.864313 | 9.743865 | 1.172422 | 1.425002 |
| #1     | .0038228 | 1.933951 | 1.933547 | .0078386 | .5543752 | .8662422 |
| #2     | .0037746 | 1.965034 | 1.886187 | .0071143 | .5481992 | .8554755 |
| #3     | .0027430 | 1.918205 | 1.864468 | .0064488 | .5415278 | .8419399 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.043972 |
| Stddev | .003514  |
| %RSD   | 7.990861 |
| #1     | -.046986 |
| #2     | -.040113 |
| #3     | -.044819 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2375.666 | 26057.99 | 2757.273 | 1848.066 | 3147.784 |
| Stddev    | 34.006   | 117.27   | 42.789   | 8.156    | 50.930   |
| %RSD      | 1.431440 | .4500451 | 1.551843 | .4413509 | 1.617965 |
| #1        | 2385.336 | 26182.95 | 2717.607 | 1856.755 | 3163.555 |
| #2        | 2337.871 | 25950.33 | 2751.594 | 1846.870 | 3090.835 |
| #3        | 2403.789 | 26040.68 | 2802.617 | 1840.574 | 3188.964 |

Sample Name: P4976-08      Acquired: 12/10/2024 21:00:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1358245 | .0113222 | .0347980 | -.036397 | -.016872 | 18.99390 |
| Stddev | .0016859 | .0029733 | .0039387 | .003459  | .002062  | .05237   |
| %RSD   | 1.241241 | 26.26114 | 11.31870 | 9.503091 | 12.22285 | .2757053 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1375753 | .0137679 | .0346755 | -.039786 | -.015802 | 19.03400 |
| #2 | .1342120 | .0121859 | .0387966 | -.036531 | -.019250 | 19.01304 |
| #3 | .1356862 | .0080126 | .0309221 | -.032873 | -.015565 | 18.93465 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0857347 | .0016194 | .0010054 | F 1215.966 | .0507979 | .0781615 |
| Stddev | .0017064 | .0000690 | .0000381 | 2.190      | .0009220 | .0012554 |
| %RSD   | 1.990285 | 4.259869 | 3.787989 | .1801207   | 1.815011 | 1.606141 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0865318 | .0016838 | .0010480 | 1218.251 | .0497379 | .0795680 |
| #2 | .0837756 | .0015466 | .0009938 | 1215.764 | .0512423 | .0777620 |
| #3 | .0868967 | .0016276 | .0009745 | 1213.884 | .0514134 | .0771544 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0660984 | 61.97881 | 2.601331 | 184.0246 | .0904830 | -.005386 |
| Stddev | .0020288 | .08107   | .005933  | .4398    | .0016450 | .000561  |
| %RSD   | 3.069425 | .1308081 | .2280746 | .2390129 | 1.817979 | 10.41654 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0682368 | 61.96003 | 2.608129 | 184.5143 | .0922539 | -.005765 |
| #2 | .0642006 | 62.06762 | 2.597201 | 183.8965 | .0901927 | -.004742 |
| #3 | .0658578 | 61.90877 | 2.598662 | 183.6630 | .0890026 | -.005652 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7203467 | .0666032 | .1702331 | .5330554 | 1.833531 | -.155673 |
| Stddev | .6240615 | .0115558 | .0068972 | .0545333 | .011531  | .000841  |
| %RSD   | 86.63348 | 17.35027 | 4.051614 | 10.23033 | .6288736 | .5400899 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5093989 | .0640171 | .1760799 | .5651617 | 1.846732 | -.155022 |
| #2 | .2290975 | .0792330 | .1719928 | .4700899 | 1.828431 | -.156622 |
| #3 | 1.422544 | .0565596 | .1626265 | .5639146 | 1.825429 | -.155375 |



Sample Name: P4976-08      Acquired: 12/10/2024 21:00:38      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0130228 | 14.34935 | 2.242661 | .0048503 | .7133570 | 1.065706 |
| Stddev | .0002191 | .12063   | .018418  | .0022609 | .0016954 | .001629  |
| %RSD   | 1.682195 | .8406862 | .8212715 | 46.61344 | .2376671 | .1528418 |
| #1     | .0132579 | 14.48831 | 2.222106 | .0045945 | .7118134 | 1.067239 |
| #2     | .0129860 | 14.28830 | 2.248209 | .0072282 | .7130860 | 1.065885 |
| #3     | .0128244 | 14.27146 | 2.257667 | .0027282 | .7151716 | 1.063995 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.038324 |
| Stddev | .002852  |
| %RSD   | 7.442828 |
| #1     | -.041524 |
| #2     | -.036050 |
| #3     | -.037398 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2425.875 | 26706.89 | 2777.723 | 1896.895 | 3246.817 |
| Stddev    | 18.283   | 26.75    | 6.461    | 7.068    | 28.448   |
| %RSD      | .7536864 | .1001605 | .2325832 | .3726075 | .8761780 |
| #1        | 2405.140 | 26723.68 | 2782.655 | 1895.439 | 3214.253 |
| #2        | 2432.802 | 26720.95 | 2780.104 | 1904.578 | 3259.359 |
| #3        | 2439.682 | 26676.04 | 2770.410 | 1890.669 | 3266.838 |

Sample Name: P4976-11      Acquired: 12/10/2024 21:04:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960     | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0069962 | .0096515 | .0385048 | -.043969   | -.021648 | 15.60653 |
| Stddev | .0033697 | .0021511 | .0037445 | .004110    | .001339  | .06513   |
| %RSD   | 48.16475 | 22.28823 | 9.724757 | 9.347576   | 6.184238 | .4173037 |
| #1     | .0038377 | .0113559 | .0416881 | -.039563   | -.023124 | 15.55103 |
| #2     | .0105434 | .0072345 | .0394472 | -.047699   | -.020514 | 15.67823 |
| #3     | .0066076 | .0103640 | .0343791 | -.044644   | -.021305 | 15.59034 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0851962 | .0014507 | .0013582 | F 1474.637 | .0446644 | .0721511 |
| Stddev | .0013018 | .0000713 | .0000114 | 5.808      | .0005654 | .0006876 |
| %RSD   | 1.527977 | 4.913486 | .8409033 | .3938261   | 1.265911 | .9529798 |
| #1     | .0856439 | .0014512 | .0013514 | 1473.735   | .0443774 | .0713990 |
| #2     | .0837297 | .0013791 | .0013518 | 1480.842   | .0443001 | .0727475 |
| #3     | .0862150 | .0015217 | .0013714 | 1469.333   | .0453158 | .0723068 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790     | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0606201 | 66.02459 | 4.650221 | 440.4382   | .0735783 | -.006476 |
| Stddev | .0065447 | .13969   | .020045  | 2.3929     | .0004012 | .001574  |
| %RSD   | 10.79629 | .2115778 | .4310564 | .5433096   | .5453302 | 24.30512 |
| #1     | .0578405 | 66.00468 | 4.643145 | 440.1471   | .0739310 | -.004692 |
| #2     | .0680958 | 66.17316 | 4.672844 | 442.9633   | .0736621 | -.007670 |
| #3     | .0559239 | 65.89591 | 4.634673 | 438.2041   | .0731418 | -.007067 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698     | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .3657178 | .0685909 | .1254588 | .4159255   | 2.057990 | -.147742 |
| Stddev | .3983395 | .0031210 | .0079109 | .0315179   | .005822  | .002605  |
| %RSD   | 108.9199 | 4.550179 | 6.305605 | 7.577780   | .2828843 | 1.762972 |
| #1     | .0294704 | .0716905 | .1235846 | .4101298   | 2.061996 | -.149291 |
| #2     | .8056459 | .0654489 | .1186533 | .4499391   | 2.060663 | -.149200 |
| #3     | .2620370 | .0686334 | .1341386 | .3877077   | 2.051312 | -.144735 |

Sample Name: P4976-11      Acquired: 12/10/2024 21:04:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0073923 | 3.804718 | 2.237566 | .0048674 | .3775141 | .9219702 |
| Stddev | .0000499 | .003105  | .017792  | .0004665 | .0043057 | .0050461 |
| %RSD   | .6756069 | .0816162 | .7951544 | 9.583242 | 1.140550 | .5473187 |
| #1     | .0074218 | 3.801451 | 2.220654 | .0044665 | .3759185 | .9193711 |
| #2     | .0073346 | 3.807631 | 2.256124 | .0053794 | .3823899 | .9277860 |
| #3     | .0074204 | 3.805073 | 2.235920 | .0047564 | .3742340 | .9187534 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.029317 |
| Stddev | .004184  |
| %RSD   | 14.27331 |
| #1     | -.033522 |
| #2     | -.025153 |
| #3     | -.029275 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2353.203 | 25828.25 | 2738.274 | 1817.707 | 3052.663 |
| Stddev    | 8.500    | 144.98   | 12.060   | 8.485    | 6.778    |
| %RSD      | .3612108 | .5613415 | .4404121 | .4667942 | .2220235 |
| #1        | 2343.706 | 25663.94 | 2747.934 | 1807.942 | 3044.838 |
| #2        | 2360.099 | 25938.17 | 2724.758 | 1821.891 | 3056.446 |
| #3        | 2355.804 | 25882.65 | 2742.129 | 1823.286 | 3056.704 |

Sample Name: P4976-12      Acquired: 12/10/2024 21:08:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0264445 | .0060403 | .0480874 | -.035439 | -.012810 | 21.91365 |
| Stddev | .0042766 | .0002609 | .0033537 | .005994  | .001671  | .02586   |
| %RSD   | 16.17194 | 4.319559 | 6.974206 | 16.91367 | 13.04445 | .1180163 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0227426 | .0058444 | .0472637 | -.037975 | -.011735 | 21.88715 |
| #2 | .0311258 | .0059400 | .0517763 | -.039749 | -.011960 | 21.91499 |
| #3 | .0254651 | .0063365 | .0452224 | -.028594 | -.014735 | 21.93882 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0852183 | .0024766 | .0015705 | F 1156.238 | .0769794 | .0837465 |
| Stddev | .0009068 | .0000675 | .0001238 | 2.923      | .0003453 | .0004125 |
| %RSD   | 1.064107 | 2.723718 | 7.884857 | .2528164   | .4485977 | .4925473 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0847103 | .0025336 | .0015038 | 1155.238 | .0765837 | .0838234 |
| #2 | .0846793 | .0024942 | .0014943 | 1153.946 | .0772195 | .0833009 |
| #3 | .0862652 | .0024021 | .0017134 | 1159.530 | .0771351 | .0841151 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0731838 | 93.44275 | 2.479705 | 257.4942 | .1213341 | -.009479 |
| Stddev | .0050807 | .19629   | .015288  | .9935    | .0008902 | .000327  |
| %RSD   | 6.942411 | .2100647 | .6165105 | .3858161 | .7336823 | 3.450129 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0688134 | 93.41574 | 2.475649 | 257.4198 | .1204394 | -.009289 |
| #2 | .0719794 | 93.26136 | 2.466855 | 256.5400 | .1213432 | -.009857 |
| #3 | .0787584 | 93.65115 | 2.496612 | 258.5227 | .1222197 | -.009292 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0558253 | .0831433 | .2160494 | .9596907 | 2.951225 | -.230083 |
| Stddev | .0731430 | .0064663 | .0030402 | .0777697 | .011330  | .002225  |
| %RSD   | 131.0211 | 7.777298 | 1.407176 | 8.103625 | .3838997 | .9670621 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0079753 | .0900211 | .2195577 | .8713507 | 2.959718 | -.231990 |
| #2 | .1400220 | .0771875 | .2141876 | 1.017831 | 2.938361 | -.227639 |
| #3 | .0194787 | .0822213 | .2144028 | .989891  | 2.955597 | -.230620 |

Sample Name: P4976-12      Acquired: 12/10/2024 21:08:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0072592 | 1.342128 | 2.370030 | .0063793 | .8438135 | .7465704 |
| Stddev | .0003603 | .004902  | .008075  | .0003986 | .0058034 | .0036449 |
| %RSD   | 4.962738 | .3652415 | .3407088 | 6.247802 | .6877544 | .4882190 |
| #1     | .0076747 | 1.337052 | 2.377884 | .0068157 | .8410539 | .7449609 |
| #2     | .0070331 | 1.342499 | 2.361751 | .0062876 | .8399049 | .7440073 |
| #3     | .0070699 | 1.346835 | 2.370456 | .0060346 | .8504818 | .7507430 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.039150 |
| Stddev | .000717  |
| %RSD   | 1.831701 |
| #1     | -.039841 |
| #2     | -.038409 |
| #3     | -.039199 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2400.713 | 26336.37 | 2760.339 | 1864.287 | 3190.523 |
| Stddev    | 7.539    | 42.99    | 11.485   | 11.876   | 8.735    |
| %RSD      | .3140392 | .1632262 | .4160808 | .6370320 | .2737929 |
| #1        | 2401.162 | 26286.74 | 2753.531 | 1862.587 | 3193.209 |
| #2        | 2408.018 | 26361.90 | 2773.599 | 1853.353 | 3197.601 |
| #3        | 2392.960 | 26360.47 | 2753.885 | 1876.922 | 3180.761 |

Sample Name: P4976-13      Acquired: 12/10/2024 21:12:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0135722 | .0114729 | .0360920 | -.034159 | -.017425 | 13.12641 |
| Stddev | .0038429 | .0019159 | .0014081 | .002976  | .000387  | .03526   |
| %RSD   | 28.31440 | 16.69952 | 3.901352 | 8.711262 | 2.218942 | .2686405 |
| #1     | .0117338 | .0119644 | .0345274 | -.034239 | -.017265 | 13.13919 |
| #2     | .0179890 | .0130953 | .0372573 | -.037095 | -.017865 | 13.08654 |
| #3     | .0109938 | .0093592 | .0364913 | -.031145 | -.017143 | 13.15351 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0610181 | .0013979 | .0008809 | F 1014.373 | .0353406 | .0637052 |
| Stddev | .0006383 | .0000316 | .0000638 | 1.488      | .0003302 | .0002809 |
| %RSD   | 1.046157 | 2.262497 | 7.244923 | .1466691   | .9342691 | .4409791 |
| #1     | .0610531 | .0013650 | .0008518 | 1014.241   | .0349594 | .0633819 |
| #2     | .0603630 | .0014005 | .0008368 | 1012.955   | .0355303 | .0638431 |
| #3     | .0616382 | .0014281 | .0009541 | 1015.922   | .0355322 | .0638905 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0681599 | 51.68665 | 3.031032 | 270.3709 | .0651192 | -.004915 |
| Stddev | .0092931 | .11036   | .005542  | .7198    | .0003819 | .000811  |
| %RSD   | 13.63422 | .2135170 | .1828580 | .2662117 | .5864056 | 16.49131 |
| #1     | .0787455 | 51.55965 | 3.030229 | 269.9410 | .0651574 | -.005709 |
| #2     | .0613438 | 51.74106 | 3.036932 | 269.9699 | .0654805 | -.004947 |
| #3     | .0643904 | 51.75924 | 3.025934 | 271.2019 | .0647197 | -.004089 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2423279 | .0471642 | .1336087 | .5265529 | 1.624806 | -.105994 |
| Stddev | .4756045 | .0146164 | .0005771 | .0752503 | .003429  | .002390  |
| %RSD   | 196.2649 | 30.99045 | .4319083 | 14.29112 | .2110315 | 2.255159 |
| #1     | .7531603 | .0476379 | .1340287 | .6018937 | 1.621030 | -.107747 |
| #2     | .1615178 | .0615380 | .1329507 | .5263715 | 1.627725 | -.103271 |
| #3     | -.187694 | .0323167 | .1338468 | .4513934 | 1.625664 | -.106963 |

Sample Name: P4976-13      Acquired: 12/10/2024 21:12:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0034297 | 1.203187 | 1.940538 | .0049995 | .3657524 | .8108655 |
| Stddev | .0002181 | .010268  | .009029  | .0016487 | .0031353 | .0014857 |
| %RSD   | 6.358640 | .8534194 | .4652574 | 32.97787 | .8572078 | .1832276 |
| #1     | .0035941 | 1.209744 | 1.930143 | .0048844 | .3624328 | .8111308 |
| #2     | .0035128 | 1.191353 | 1.945054 | .0034113 | .3661609 | .8092650 |
| #3     | .0031823 | 1.208464 | 1.946417 | .0067027 | .3686633 | .8122008 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.041351 |
| Stddev | .005022  |
| %RSD   | 12.14579 |
| #1     | -.046138 |
| #2     | -.036123 |
| #3     | -.041791 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2403.401 | 26283.37 | 2749.845 | 1853.099 | 3203.762 |
| Stddev    | 8.908    | 51.69    | 8.008    | 5.997    | 12.765   |
| %RSD      | .3706493 | .1966586 | .2912074 | .3236061 | .3984460 |
| #1        | 2401.428 | 26335.71 | 2757.605 | 1860.015 | 3202.822 |
| #2        | 2413.130 | 26282.02 | 2750.320 | 1849.940 | 3216.972 |
| #3        | 2395.644 | 26232.36 | 2741.611 | 1849.342 | 3191.494 |

Sample Name: CCV092      Acquired: 12/10/2024 21:29:13      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV092      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.879418 | 4.886209 | 24.78820 | 4.766514 | 4.830627 | 399.9370 |
| Stddev | .008378  | .010686  | .07993   | .017513  | .015866  | 2.8888   |
| %RSD   | .1717089 | .2186934 | .3224379 | .3674145 | .3284505 | .7223031 |
| #1     | 4.881389 | 4.897975 | 24.88024 | 4.785956 | 4.848768 | 400.4971 |
| #2     | 4.870230 | 4.883545 | 24.74813 | 4.751975 | 4.823776 | 396.8092 |
| #3     | 4.886635 | 4.877108 | 24.73624 | 4.761612 | 4.819338 | 402.5047 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 10.04996 | .5022142 | 2.495116 | 406.5919 | 15.57759 | 2.518021 |
| Stddev | .07194   | .0033573 | .006968  | 2.8353   | .08926   | .008998  |
| %RSD   | .7157991 | .6685062 | .2792581 | .6973209 | .5729729 | .3573440 |
| #1     | 10.05572 | .4990128 | 2.503109 | 407.7135 | 15.67453 | 2.528400 |
| #2     | 9.97531  | .5019215 | 2.491914 | 403.3675 | 15.55941 | 2.513261 |
| #3     | 10.11884 | .5057083 | 2.490324 | 408.6948 | 15.49882 | 2.512404 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.01912 | 407.3727 | 14.77285 | 404.0890 | 2.512688 | 1.254610 |
| Stddev | .13887   | 2.4641   | .14978   | 3.8636   | .006844  | .003484  |
| %RSD   | .9246024 | .6048855 | 1.013875 | .9561359 | .2723632 | .2777331 |
| #1     | 15.07204 | 408.1400 | 14.83783 | 405.8764 | 2.519887 | 1.256532 |
| #2     | 14.86157 | 404.6163 | 14.60156 | 399.6553 | 2.511913 | 1.256710 |
| #3     | 15.12374 | 409.3620 | 14.87916 | 406.7353 | 2.506266 | 1.250588 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 395.7092 | 2.521186 | 14.01692 | 152.5307 | 5.000856 | F 4.121511 |
| Stddev | 4.1264   | .025617  | .13086   | .8961    | .012060  | .020222    |
| %RSD   | 1.042788 | 1.016075 | .9335898 | .5874645 | .2411512 | .4906510   |
| #1     | 396.9942 | 2.528513 | 14.14744 | 152.8304 | 5.012171 | 4.120988   |
| #2     | 391.0932 | 2.492704 | 14.01760 | 151.5232 | 4.988169 | 4.101555   |
| #3     | 399.0402 | 2.542342 | 13.88572 | 153.2386 | 5.002226 | 4.141989   |



Sample Name: CCV092      Acquired: 12/10/2024 21:29:13      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV092      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.821697 | 5.012847 | 4.880459 | 5.009845 | 4.981501 | 4.811191 |
| Stddev | .012229  | .022062  | .034952  | .013281  | .042940  | .045478  |
| %RSD   | .2536317 | .4401121 | .7161590 | .2651053 | .8619841 | .9452515 |
| #1     | 4.835387 | 5.030990 | 4.863980 | 5.024210 | 5.001997 | 4.838797 |
| #2     | 4.817849 | 4.988288 | 4.856794 | 5.007313 | 4.932153 | 4.758701 |
| #3     | 4.811854 | 5.019264 | 4.920604 | 4.998012 | 5.010352 | 4.836074 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | 5.029089 |
| Stddev | .038250  |
| %RSD   | .7605722 |
| #1     | 5.019788 |
| #2     | 4.996347 |
| #3     | 5.071131 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2089.666 | 24094.40 | 2590.633 | 1596.553 | 3087.046 |
| Stddev    | 7.703    | 204.66   | 14.471   | 13.949   | 10.238   |
| %RSD      | .3686022 | .8494080 | .5585958 | .8737148 | .3316339 |
| #1        | 2085.251 | 23864.81 | 2591.104 | 1583.856 | 3082.079 |
| #2        | 2085.188 | 24160.68 | 2604.863 | 1594.318 | 3080.240 |
| #3        | 2098.561 | 24257.70 | 2575.932 | 1611.485 | 3098.820 |

Sample Name: CCB092      Acquired: 12/10/2024 21:52:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB092      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.003212 | .0027546 | -.002099 | .0032934 | .0021074 | -.016136 |
| Stddev | .002867  | .0024373 | .000543  | .0019345 | .0032290 | .018915  |
| %RSD   | 89.25116 | 88.48201 | 25.86793 | 58.73720 | 153.2199 | 117.2194 |
| #1     | -.000253 | .0029035 | -.002377 | .0051291 | .0018079 | -.000918 |
| #2     | -.005978 | .0051140 | -.002447 | .0012734 | .0054757 | -.037313 |
| #3     | -.003406 | .0002462 | -.001474 | .0034778 | -.000961 | -.010178 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.004107 | -.000058 | .0001386 | .0563196 | -.000177 | .0001308 |
| Stddev | .000985  | .000049  | .0001198 | .0220233 | .000537  | .0001455 |
| %RSD   | 23.97957 | 85.57410 | 86.39963 | 39.10415 | 304.1686 | 111.2531 |
| #1     | -.004974 | -.000111 | .0002680 | .0588489 | .000088  | .0001157 |
| #2     | -.004312 | -.000048 | .0001164 | .0769690 | .000177  | .0002832 |
| #3     | -.003036 | -.000014 | .0000315 | .0331408 | -.000795 | -.000007 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0092966 | .0363111 | .0003903 | -.075663 | -.000206 | -.000008 |
| Stddev | .0072025 | .0414170 | .0009959 | .054971  | .000270  | .000741  |
| %RSD   | 77.47445 | 114.0614 | 255.1971 | 72.65298 | 131.4795 | 8874.716 |
| #1     | .0162977 | .0744459 | -.000756 | -.128812 | -.000274 | .000670  |
| #2     | .0096836 | .0422372 | .001043  | -.019035 | -.000435 | -.000800 |
| #3     | .0019084 | -.007750 | .000884  | -.079141 | .000092  | .000105  |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.543347 | -.002242 | -.002356 | -.579886 | -.001145 | -.003897 |
| Stddev | .312209  | .002492  | .001543  | .157873  | .000883  | .000792  |
| %RSD   | 57.46030 | 111.1294 | 65.50244 | 27.22480 | 77.12518 | 20.32217 |
| #1     | -.344807 | -.004201 | -.002977 | -.761882 | -.000918 | -.004742 |
| #2     | -.903214 | -.003088 | -.000599 | -.479839 | -.000397 | -.003775 |
| #3     | -.382020 | .000562  | -.003493 | -.497937 | -.002119 | -.003173 |

Sample Name: CCB092      Acquired: 12/10/2024 21:52:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB092      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000363 | -.000352 | -.000779 | -.000587 | .0065895 | -.000047 |
| Stddev | .000233  | .002363  | .000715  | .000702  | .0004258 | .000172  |
| %RSD   | 64.16916 | 671.7564 | 91.75610 | 119.6137 | 6.462517 | 363.6648 |
| #1     | -.000402 | -.001300 | -.000472 | -.000299 | .0067231 | -.000146 |
| #2     | -.000113 | -.002093 | -.000269 | -.001388 | .0069324 | -.000148 |
| #3     | -.000574 | .002338  | -.001596 | -.000075 | .0061128 | .000151  |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.075180 |
| Stddev | .003613    |
| %RSD   | 4.806227   |
| #1     | -.076767   |
| #2     | -.071045   |
| #3     | -.077728   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2500.478 | 27816.91 | 2695.736 | 1970.069 | 3910.438 |
| Stddev    | 2.021    | 78.36    | 6.635    | 9.206    | 8.255    |
| %RSD      | .0808308 | .2816989 | .2461464 | .4673120 | .2111134 |
| #1        | 2498.475 | 27851.95 | 2691.710 | 1966.582 | 3901.693 |
| #2        | 2502.517 | 27871.63 | 2692.103 | 1980.510 | 3918.096 |
| #3        | 2500.443 | 27727.14 | 2703.394 | 1963.116 | 3911.525 |

Sample Name: P4976-14      Acquired: 12/10/2024 21:56:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0178422 | .0091113 | .0431709 | -.037355 | -.016532 | 17.00238 |
| Stddev | .0014237 | .0020773 | .0020669 | .005298  | .003747  | .05611   |
| %RSD   | 7.979306 | 22.79930 | 4.787625 | 14.18402 | 22.66303 | .3300321 |
| #1     | .0194860 | .0079583 | .0435245 | -.043468 | -.014258 | 17.06713 |
| #2     | .0170051 | .0078661 | .0409500 | -.034514 | -.020857 | 16.97198 |
| #3     | .0170354 | .0115094 | .0450381 | -.034083 | -.014482 | 16.96803 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0840522 | .0017843 | .0011514 | F 1122.966 | .0667869 | .0720755 |
| Stddev | .0013196 | .0001552 | .0000326 | 5.926      | .0010434 | .0008065 |
| %RSD   | 1.569992 | 8.697654 | 2.834367 | .5277460   | 1.562218 | 1.118890 |
| #1     | .0825444 | .0017883 | .0011138 | 1128.149   | .0663691 | .0728149 |
| #2     | .0846153 | .0016272 | .0011672 | 1124.245   | .0660171 | .0712156 |
| #3     | .0849968 | .0019375 | .0011731 | 1116.505   | .0679744 | .0721962 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0697025 | 67.47100 | 2.603579 | 217.1083 | .0880534 | -.006684 |
| Stddev | .0053285 | .25331   | .022389  | 1.4732   | .0012500 | .000315  |
| %RSD   | 7.644616 | .3754288 | .8599256 | .6785652 | 1.419575 | 4.708248 |
| #1     | .0738764 | 67.64887 | 2.622550 | 218.5013 | .0893011 | -.006550 |
| #2     | .0715306 | 67.58314 | 2.609303 | 217.2574 | .0868012 | -.006458 |
| #3     | .0637006 | 67.18098 | 2.578884 | 215.5662 | .0880579 | -.007043 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5088904 | .0750426 | .1935290 | .0791371 | 2.188158 | -.169980 |
| Stddev | .5214729 | .0038233 | .0081883 | .0978889 | .017143  | .003541  |
| %RSD   | 102.4725 | 5.094808 | 4.231061 | 123.6953 | .7834631 | 2.083158 |
| #1     | 1.107026 | .0781452 | .2017913 | .0951054 | 2.200260 | -.173740 |
| #2     | .269902  | .0762111 | .1933791 | -.025754 | 2.168540 | -.166709 |
| #3     | .149744  | .0707714 | .1854167 | .168060  | 2.195674 | -.169491 |

Sample Name: P4976-14      Acquired: 12/10/2024 21:56:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0016373 | 3.595615 | 3.140391 | .0031099 | .6014175 | .7975970 |
| Stddev | .0003970 | .023227  | .023827  | .0004411 | .0067037 | .0056826 |
| %RSD   | 24.24433 | .6459795 | .7587306 | 14.18340 | 1.114656 | .7124665 |
| #1     | .0020479 | 3.622411 | 3.154530 | .0033045 | .6088873 | .8024355 |
| #2     | .0016085 | 3.581221 | 3.112881 | .0026050 | .5994409 | .7990162 |
| #3     | .0012556 | 3.583214 | 3.153761 | .0034202 | .5959243 | .7913393 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.043483 |
| Stddev | .002089  |
| %RSD   | 4.805158 |
| #1     | -.042732 |
| #2     | -.045844 |
| #3     | -.041873 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2437.061 | 26755.68 | 2801.169 | 1896.950 | 3246.447 |
| Stddev    | 22.876   | 109.44   | 14.722   | 13.852   | 29.195   |
| %RSD      | .9386886 | .4090526 | .5255813 | .7302360 | .8992882 |
| #1        | 2446.724 | 26683.44 | 2784.293 | 1889.361 | 3255.834 |
| #2        | 2453.521 | 26881.60 | 2807.831 | 1912.938 | 3269.795 |
| #3        | 2410.939 | 26702.00 | 2811.382 | 1888.551 | 3213.714 |

Sample Name: P4976-15      Acquired: 12/10/2024 22:00:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0990230 | .0089205 | .0630818 | -.036164 | -.015887 | 18.94389 |
| Stddev | .0012226 | .0021414 | .0015333 | .002034  | .002145  | .07232   |
| %RSD   | 1.234634 | 24.00547 | 2.430717 | 5.624801 | 13.50513 | .3817636 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0976544 | .0087149 | .0616567 | -.033824 | -.014925 | 18.97856 |
| #2 | .0994076 | .0068893 | .0647043 | -.037510 | -.014390 | 18.86076 |
| #3 | .1000071 | .0111573 | .0628846 | -.037158 | -.018345 | 18.99235 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0914867 | .0026448 | .0015949 | F 1034.544 | .0504787 | .0895085 |
| Stddev | .0005521 | .0000743 | .0001321 | 2.147      | .0006422 | .0005172 |
| %RSD   | .6035037 | 2.808413 | 8.280224 | .2074883   | 1.272272 | .5777847 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0921130 | .0025626 | .0016599 | 1036.527 | .0499953 | .0891307 |
| #2 | .0910705 | .0026647 | .0014429 | 1032.265 | .0502334 | .0892969 |
| #3 | .0912765 | .0027071 | .0016818 | 1034.840 | .0512074 | .0900979 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1059040 | 90.77207 | 2.516364 | 199.1626 | .1337647 | -.009706 |
| Stddev | .0060094 | .09653   | .004013  | .2757    | .0006404 | .000981  |
| %RSD   | 5.674336 | .1063425 | .1594798 | .1384351 | .4787704 | 10.10333 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0993961 | 90.87607 | 2.517396 | 199.4656 | .1337144 | -.008730 |
| #2 | .1112431 | 90.75477 | 2.519760 | 198.9265 | .1331508 | -.009696 |
| #3 | .1070728 | 90.68535 | 2.511935 | 199.0958 | .1344287 | -.010691 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6919406 | .1161286 | .2004611 | .8446369 | 1.907680 | -.231700 |
| Stddev | .6133021 | .0079833 | .0048085 | .2072713 | .003122  | .002798  |
| %RSD   | 88.63508 | 6.874513 | 2.398739 | 24.53969 | .1636652 | 1.207474 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0525632 | .1100142 | .1989202 | .7720227 | 1.910654 | -.234292 |
| #2 | 1.275328 | .1132113 | .2058512 | 1.078445 | 1.907958 | -.228734 |
| #3 | .747931  | .1251602 | .1966118 | .683443  | 1.904428 | -.232075 |

Sample Name: P4976-15      Acquired: 12/10/2024 22:00:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0135223 | 11.98420 | 2.165705 | .0049199 | .8122890 | .8838023 |
| Stddev | .0004121 | .04898   | .005213  | .0001432 | .0026478 | .0009581 |
| %RSD   | 3.047805 | .4087078 | .2406870 | 2.909754 | .3259625 | .1084076 |
| #1     | .0131052 | 11.94216 | 2.161770 | .0048581 | .8094100 | .8847911 |
| #2     | .0135326 | 11.97246 | 2.163728 | .0048180 | .8146197 | .8837378 |
| #3     | .0139293 | 12.03799 | 2.171617 | .0050836 | .8128372 | .8828781 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.048236 |
| Stddev | .001798  |
| %RSD   | 3.727616 |
| #1     | -.050310 |
| #2     | -.047117 |
| #3     | -.047280 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2421.811 | 26559.67 | 2765.326 | 1875.657 | 3236.038 |
| Stddev    | 7.994    | 77.20    | 6.549    | 7.796    | 5.633    |
| %RSD      | .3300930 | .2906641 | .2368264 | .4156383 | .1740847 |
| #1        | 2429.294 | 26567.42 | 2767.126 | 1884.397 | 3241.068 |
| #2        | 2422.751 | 26632.70 | 2770.787 | 1869.420 | 3237.095 |
| #3        | 2413.389 | 26478.88 | 2758.066 | 1873.153 | 3229.950 |

Sample Name: P4976-16      Acquired: 12/10/2024 22:04:36      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0303830 | .0094982 | .0412573 | -.031753 | -.015178 | 16.16961 |
| Stddev | .0018516 | .0022225 | .0009222 | .004183  | .002098  | .05135   |
| %RSD   | 6.094342 | 23.39895 | 2.235182 | 13.17213 | 13.82076 | .3175559 |
| #1     | .0300881 | .0103746 | .0423220 | -.035173 | -.017450 | 16.12441 |
| #2     | .0323644 | .0111489 | .0407341 | -.032998 | -.014770 | 16.22544 |
| #3     | .0286965 | .0069712 | .0407156 | -.027090 | -.013315 | 16.15898 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0927363 | .0017521 | .0010673 | F 913.0753 | .0415911 | .0702132 |
| Stddev | .0006462 | .0000685 | .0000336 | 2.3425     | .0008226 | .0009623 |
| %RSD   | .6967914 | 3.912314 | 3.146353 | .2565453   | 1.977787 | 1.370521 |
| #1     | .0924240 | .0018079 | .0010290 | 910.5931   | .0416127 | .0713235 |
| #2     | .0934793 | .0017728 | .0010914 | 915.2470   | .0407579 | .0696215 |
| #3     | .0923056 | .0016756 | .0010815 | 913.3858   | .0424027 | .0696945 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0645956 | 62.62698 | 2.070508 | 206.2885 | .0836104 | -.006056 |
| Stddev | .0048872 | .09107   | .003355  | .6344    | .0008646 | .000535  |
| %RSD   | 7.565835 | .1454175 | .1620477 | .3075102 | 1.034081 | 8.842164 |
| #1     | .0676718 | 62.53014 | 2.067086 | 205.5560 | .0844089 | -.006666 |
| #2     | .0671547 | 62.71090 | 2.073792 | 206.6545 | .0826922 | -.005839 |
| #3     | .0589602 | 62.63990 | 2.070647 | 206.6550 | .0837301 | -.005663 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8149085 | .0617289 | .1632171 | .6182287 | 1.775070 | -.146728 |
| Stddev | .3079260 | .0064171 | .0025961 | .0824281 | .015499  | .003554  |
| %RSD   | 37.78657 | 10.39568 | 1.590599 | 13.33295 | .8731256 | 2.421852 |
| #1     | .5402057 | .0686234 | .1652710 | .5466166 | 1.791234 | -.142638 |
| #2     | .7567550 | .0606330 | .1640811 | .7083318 | 1.760336 | -.148488 |
| #3     | 1.147765 | .0559303 | .1602991 | .5997376 | 1.773640 | -.149058 |



Sample Name: P4976-16      Acquired: 12/10/2024 22:04:36      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0063162 | 1.129549 | 2.056597 | .0039516 | .5410041 | .7273098 |
| Stddev | .0002053 | .009390  | .014997  | .0007611 | .0034716 | .0029970 |
| %RSD   | 3.250788 | .8312820 | .7292257 | 19.25979 | .6416965 | .4120602 |
| #1     | .0060934 | 1.138883 | 2.039584 | .0031496 | .5430121 | .7248156 |
| #2     | .0063572 | 1.129659 | 2.067901 | .0040415 | .5430048 | .7306344 |
| #3     | .0064979 | 1.120105 | 2.062307 | .0046637 | .5369955 | .7264796 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.051187 |
| Stddev | .001664  |
| %RSD   | 3.250219 |
| #1     | -.052968 |
| #2     | -.049674 |
| #3     | -.050920 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2441.850 | 26753.24 | 2795.416 | 1880.751 | 3302.056 |
| Stddev    | 12.614   | 89.88    | 7.126    | 1.842    | 20.888   |
| %RSD      | .5165783 | .3359775 | .2549273 | .0979541 | .6325851 |
| #1        | 2428.146 | 26651.47 | 2801.540 | 1882.826 | 3278.209 |
| #2        | 2452.975 | 26821.77 | 2787.594 | 1879.310 | 3317.108 |
| #3        | 2444.429 | 26786.49 | 2797.113 | 1880.117 | 3310.853 |

Sample Name: P4976-17      Acquired: 12/10/2024 22:08:29      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0307214 | .0098293 | .0406349 | -.032512 | -.016872 | 13.42612 |
| Stddev | .0034024 | .0008793 | .0009979 | .002494  | .000644  | .07654   |
| %RSD   | 11.07487 | 8.945640 | 2.455848 | 7.670636 | 3.816916 | .5700603 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0268195 | .0101632 | .0414960 | -.031184 | -.016814 | 13.48133 |
| #2 | .0330687 | .0088320 | .0408676 | -.030963 | -.016259 | 13.33875 |
| #3 | .0322760 | .0104928 | .0395412 | -.035389 | -.017543 | 13.45828 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0860405 | .0016220 | .0009556 | F 895.3996 | .0360215 | .0658004 |
| Stddev | .0013200 | .0000763 | .0000602 | 3.6584     | .0004899 | .0006756 |
| %RSD   | 1.534226 | 4.703005 | 6.296387 | .4085785   | 1.359972 | 1.026762 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0845293 | .0015353 | .0009717 | 895.0798 | .0355464 | .0665575 |
| #2 | .0866234 | .0016789 | .0008890 | 891.9115 | .0359933 | .0655852 |
| #3 | .0869686 | .0016518 | .0010060 | 899.2074 | .0365249 | .0652587 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0622326 | 59.65248 | 1.809240 | 245.0488 | .0741047 | -.006787 |
| Stddev | .0037595 | .27070   | .013036  | 1.4959   | .0015565 | .001168  |
| %RSD   | 6.041048 | .4537893 | .7205475 | .6104688 | 2.100409 | 17.21398 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0665734 | 59.47241 | 1.797652 | 244.5307 | .0758704 | -.005515 |
| #2 | .0601083 | 59.52125 | 1.806713 | 243.8808 | .0735121 | -.007812 |
| #3 | .0600162 | 59.96378 | 1.823355 | 246.7349 | .0729315 | -.007035 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1657682 | .0648093 | .1444119 | .6898003 | 1.556688 | -.139540 |
| Stddev | .1047554 | .0100491 | .0085919 | .0919333 | .006111  | .004197  |
| %RSD   | 63.19388 | 15.50565 | 5.949598 | 13.32753 | .3925790 | 3.007801 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2788603 | .0631622 | .1406975 | .6592369 | 1.558647 | -.143097 |
| #2 | .1463882 | .0556855 | .1542361 | .6170414 | 1.549837 | -.134911 |
| #3 | .0720561 | .0755802 | .1383020 | .7931226 | 1.561579 | -.140613 |

Sample Name: P4976-17      Acquired: 12/10/2024 22:08:29      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0069514 | 1.050717 | 2.538472 | .0098025 | .5578147 | .6090963 |
| Stddev | .0000349 | .006185  | .033047  | .0022632 | .0028363 | .0037071 |
| %RSD   | .5019713 | .5886060 | 1.301850 | 23.08758 | .5084731 | .6086254 |
| #1     | .0069877 | 1.047707 | 2.545545 | .0120356 | .5558513 | .6086316 |
| #2     | .0069484 | 1.046614 | 2.502462 | .0075104 | .5565263 | .6056435 |
| #3     | .0069181 | 1.057830 | 2.567411 | .0098616 | .5610666 | .6130139 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.048150 |
| Stddev | .003271  |
| %RSD   | 6.792960 |
| #1     | -.045114 |
| #2     | -.047722 |
| #3     | -.051613 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2398.379 | 26221.53 | 2747.628 | 1850.155 | 3247.002 |
| Stddev    | 3.101    | 94.80    | 22.460   | 9.849    | 6.544    |
| %RSD      | .1292888 | .3615408 | .8174427 | .5323187 | .2015363 |
| #1        | 2396.079 | 26311.39 | 2748.601 | 1858.350 | 3240.139 |
| #2        | 2401.906 | 26122.46 | 2769.586 | 1839.229 | 3253.171 |
| #3        | 2397.152 | 26230.73 | 2724.697 | 1852.885 | 3247.697 |

Sample Name: P4976-18      Acquired: 12/10/2024 22:12:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0156034 | .0082365 | .0560621 | -.024257 | -.017930 | 20.59076 |
| Stddev | .0001259 | .0019692 | .0040706 | .005722  | .001502  | .30215   |
| %RSD   | .8066775 | 23.90800 | 7.260943 | 23.59031 | 8.375567 | 1.467430 |
| #1     | .0157480 | .0059743 | .0514289 | -.018640 | -.019240 | 20.24623 |
| #2     | .0155439 | .0091689 | .0590643 | -.030079 | -.018258 | 20.81071 |
| #3     | .0155184 | .0095664 | .0576931 | -.024053 | -.016291 | 20.71533 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0874474 | .0021687 | .0016069 | F 1114.627 | .0600806 | .0759319 |
| Stddev | .0011178 | .0000578 | .0000728 | 15.737     | .0011191 | .0001039 |
| %RSD   | 1.278235 | 2.665725 | 4.533601 | 1.411880   | 1.862670 | .1368211 |
| #1     | .0864896 | .0021046 | .0015593 | 1096.756   | .0587927 | .0758904 |
| #2     | .0871770 | .0022170 | .0015707 | 1126.414   | .0608152 | .0758553 |
| #3     | .0886756 | .0021845 | .0016908 | 1120.711   | .0606340 | .0760502 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1052562 | 72.04411 | 2.124693 | 246.4150 | .1198976 | -.008966 |
| Stddev | .0034476 | .90193   | .025679  | 2.9261   | .0010199 | .000902  |
| %RSD   | 3.275442 | 1.251914 | 1.208578 | 1.187472 | .8506741 | 10.05829 |
| #1     | .1058455 | 71.00418 | 2.095998 | 243.2454 | .1196927 | -.008560 |
| #2     | .1083712 | 72.61293 | 2.145509 | 249.0133 | .1189956 | -.008338 |
| #3     | .1015520 | 72.51522 | 2.132572 | 246.9865 | .1210044 | -.009999 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.033192 | .0966968 | .2195057 | 1.304995 | 3.404902 | -.168978 |
| Stddev | .701135  | .0040197 | .0051187 | .153740  | .011038  | .006613  |
| %RSD   | 2112.390 | 4.157004 | 2.331929 | 11.78086 | .3241876 | 3.913459 |
| #1     | .619254  | .0921535 | .2253971 | 1.378561 | 3.393376 | -.161343 |
| #2     | .055708  | .0997910 | .2161472 | 1.408128 | 3.405952 | -.172761 |
| #3     | -.774537 | .0981460 | .2169730 | 1.128294 | 3.415378 | -.172831 |

Sample Name: P4976-18      Acquired: 12/10/2024 22:12:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0064169 | 1.809662 | 3.020064 | .0057200 | .6505888 | .8460484 |
| Stddev | .0005024 | .004571  | .043038  | .0019400 | .0050498 | .0106127 |
| %RSD   | 7.828795 | .2525987 | 1.425065 | 33.91622 | .7761890 | 1.254382 |
| #1     | .0064683 | 1.804791 | 2.972873 | .0079247 | .6448266 | .8347764 |
| #2     | .0068915 | 1.810337 | 3.057150 | .0042740 | .6526965 | .8558480 |
| #3     | .0058908 | 1.813859 | 3.030170 | .0049613 | .6542434 | .8475207 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.029583 |
| Stddev | .000993  |
| %RSD   | 3.356248 |
| #1     | -.030624 |
| #2     | -.029478 |
| #3     | -.028647 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2481.318 | 27065.68 | 2891.468 | 1914.530 | 3222.849 |
| Stddev    | 4.394    | 71.67    | 33.143   | 10.073   | 2.294    |
| %RSD      | .1770978 | .2647937 | 1.146240 | .5261083 | .0711734 |
| #1        | 2482.707 | 27017.92 | 2926.380 | 1905.035 | 3224.859 |
| #2        | 2484.851 | 27031.04 | 2860.435 | 1913.461 | 3220.350 |
| #3        | 2476.398 | 27148.09 | 2887.589 | 1925.095 | 3223.338 |

Sample Name: P4976-19      Acquired: 12/10/2024 22:16:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0069896 | .0105753 | .0418495 | -.031417 | -.014880 | 21.98533 |
| Stddev | .0038848 | .0021735 | .0028472 | .003880  | .001347  | .07285   |
| %RSD   | 55.58015 | 20.55272 | 6.803503 | 12.35003 | 9.050907 | .3313568 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0113605 | .0123550 | .0412943 | -.026944 | -.013581 | 21.94225 |
| #2 | .0039306 | .0112181 | .0393208 | -.033423 | -.014788 | 22.06944 |
| #3 | .0056777 | .0081529 | .0449334 | -.033883 | -.016270 | 21.94429 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1076652 | .0022764 | .0009516 | F 912.1194 | .0558455 | .0824911 |
| Stddev | .0011338 | .0000555 | .0001050 | 3.2781     | .0002883 | .0004633 |
| %RSD   | 1.053109 | 2.439899 | 11.03793 | .3593907   | .5161914 | .5616752 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1089171 | .0023099 | .0009416 | 909.6378 | .0559303 | .0820431 |
| #2 | .1067073 | .0023070 | .0010613 | 915.8355 | .0555244 | .0829684 |
| #3 | .1073713 | .0022123 | .0008520 | 910.8848 | .0560819 | .0824620 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0613054 | 82.36128 | 2.207317 | 171.6629 | .0996014 | -.008078 |
| Stddev | .0050988 | .33923   | .008595  | .7171    | .0012618 | .000101  |
| %RSD   | 8.317029 | .4118744 | .3894072 | .4177586 | 1.266815 | 1.245931 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0582924 | 82.29298 | 2.197864 | 171.0429 | .1005929 | -.008003 |
| #2 | .0584314 | 82.72946 | 2.214664 | 172.4483 | .0981811 | -.008038 |
| #3 | .0671924 | 82.06140 | 2.209421 | 171.4976 | .1000303 | -.008192 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0746234 | .0798063 | .1856135 | .4358914 | 2.631357 | -.210591 |
| Stddev | .4140892 | .0068237 | .0017591 | .1012315 | .012885  | .005583  |
| %RSD   | 554.9054 | 8.550361 | .9476947 | 23.22402 | .4896804 | 2.651323 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1317228 | .0864614 | .1876077 | .5122577 | 2.617428 | -.213324 |
| #2 | .4571997 | .0801319 | .1842822 | .4743498 | 2.633792 | -.214281 |
| #3 | -.365052 | .0728256 | .1849506 | .3210665 | 2.642851 | -.204167 |

Sample Name: P4976-19      Acquired: 12/10/2024 22:16:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0049260 | 1.627724 | 2.567342 | .0027959 | .7941515 | .7550811 |
| Stddev | .0002954 | .002360  | .032249  | .0006290 | .0071097 | .0042374 |
| %RSD   | 5.996538 | .1449643 | 1.256106 | 22.49681 | .8952516 | .5611885 |
| #1     | .0050229 | 1.626812 | 2.568561 | .0030009 | .7869717 | .7513128 |
| #2     | .0051607 | 1.625956 | 2.598964 | .0032969 | .8011888 | .7596681 |
| #3     | .0045943 | 1.630403 | 2.534501 | .0020900 | .7942939 | .7542624 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.039361 |
| Stddev | .002693  |
| %RSD   | 6.842417 |
| #1     | -.039576 |
| #2     | -.041940 |
| #3     | -.036567 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2499.031 | 27435.18 | 2863.917 | 1949.765 | 3340.711 |
| Stddev    | 5.795    | 87.14    | 25.547   | 13.267   | 7.184    |
| %RSD      | .2318741 | .3176369 | .8920364 | .6804620 | .2150300 |
| #1        | 2497.433 | 27513.48 | 2870.617 | 1963.136 | 3342.161 |
| #2        | 2505.457 | 27450.75 | 2835.687 | 1949.557 | 3347.059 |
| #3        | 2494.203 | 27341.30 | 2885.446 | 1936.603 | 3332.913 |

Sample Name: P4976-20      Acquired: 12/10/2024 22:20:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0215388 | .0109708 | .0460766 | -.039749 | -.018453 | 17.43764 |
| Stddev | .0029978 | .0035866 | .0010116 | .001116  | .000915  | .15550   |
| %RSD   | 13.91810 | 32.69241 | 2.195425 | 2.806732 | 4.961200 | .8917629 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0234862 | .0120429 | .0457277 | -.038483 | -.017650 | 17.29405 |
| #2 | .0230436 | .0138992 | .0472165 | -.040590 | -.018258 | 17.60280 |
| #3 | .0180867 | .0069704 | .0452857 | -.040174 | -.019450 | 17.41608 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0640456 | .0017830 | .0013480 | F 1202.538 | .0471446 | .0791032 |
| Stddev | .0010926 | .0000154 | .0000784 | 9.543      | .0006208 | .0002712 |
| %RSD   | 1.705974 | .8644309 | 5.816394 | .7935860   | 1.316740 | .3428460 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0627974 | .0017671 | .0013424 | 1193.253 | .0476931 | .0791446 |
| #2 | .0648287 | .0017978 | .0014291 | 1212.320 | .0464707 | .0793513 |
| #3 | .0645108 | .0017841 | .0012726 | 1202.042 | .0472700 | .0788137 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0759993 | 65.21113 | 2.403930 | 281.4331 | .0907548 | -.006568 |
| Stddev | .0048271 | .62985   | .011212  | 2.4379   | .0013048 | .001308  |
| %RSD   | 6.351525 | .9658680 | .4664211 | .8662298 | 1.437690 | 19.91286 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0736855 | 64.57125 | 2.392852 | 279.1729 | .0917834 | -.007216 |
| #2 | .0815477 | 65.83045 | 2.415272 | 284.0164 | .0911940 | -.005062 |
| #3 | .0727646 | 65.23171 | 2.403666 | 281.1101 | .0892872 | -.007425 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.260688 | .0809847 | .1585067 | 1.121188 | 2.470238 | -.150861 |
| Stddev | .422638  | .0094406 | .0083360 | .132076  | .022233  | .001202  |
| %RSD   | 162.1244 | 11.65731 | 5.259056 | 11.78003 | .9000249 | .7969169 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.029459 | .0903312 | .1670770 | 1.025394 | 2.495806 | -.151739 |
| #2 | -.748489 | .0714527 | .1504268 | 1.066315 | 2.459457 | -.149491 |
| #3 | -.004115 | .0811702 | .1580163 | 1.271856 | 2.455451 | -.151353 |



Sample Name: P4976-20      Acquired: 12/10/2024 22:20:05      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0072568 | 1.326566 | 2.953279 | .0053587 | .5499018 | .8966101 |
| Stddev | .0002448 | .015706  | .013917  | .0006997 | .0024648 | .0057356 |
| %RSD   | 3.373493 | 1.183933 | .4712499 | 13.05810 | .4482238 | .6396973 |
| #1     | .0075388 | 1.343123 | 2.937443 | .0056777 | .5498496 | .8914295 |
| #2     | .0071328 | 1.311879 | 2.963566 | .0058421 | .5474636 | .9027737 |
| #3     | .0070988 | 1.324697 | 2.958829 | .0045563 | .5523923 | .8956271 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.039757 |
| Stddev | .002575  |
| %RSD   | 6.477213 |
| #1     | -.042420 |
| #2     | -.037281 |
| #3     | -.039569 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2423.940 | 26486.73 | 2803.902 | 1875.822 | 3202.645 |
| Stddev    | 7.425    | 66.02    | 17.438   | 7.438    | 13.388   |
| %RSD      | .3063241 | .2492664 | .6219131 | .3964988 | .4180192 |
| #1        | 2417.603 | 26419.72 | 2823.451 | 1867.597 | 3188.147 |
| #2        | 2422.106 | 26488.77 | 2789.949 | 1877.795 | 3205.247 |
| #3        | 2432.110 | 26551.71 | 2798.306 | 1882.074 | 3214.540 |

Sample Name: P4976-21      Acquired: 12/10/2024 22:23:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0262139 | .0084099 | .0478192 | -.036764 | -.015592 | 18.58558 |
| Stddev | .0009983 | .0003694 | .0034606 | .001415  | .002059  | .06373   |
| %RSD   | 3.808227 | 4.392296 | 7.236768 | 3.848892 | 13.20420 | .3429228 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0273115 | .0080472 | .0500688 | -.036835 | -.013815 | 18.52223 |
| #2 | .0259700 | .0083968 | .0495544 | -.038143 | -.015113 | 18.58483 |
| #3 | .0253601 | .0087856 | .0438343 | -.035315 | -.017848 | 18.64969 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0774765 | .0020705 | .0013392 | F 1125.040 | .0517297 | .0812152 |
| Stddev | .0010708 | .0001145 | .0001049 | .935       | .0000505 | .0002167 |
| %RSD   | 1.382153 | 5.528723 | 7.829130 | .0831241   | .0976323 | .2667875 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0778802 | .0021124 | .0013596 | 1124.430 | .0517688 | .0813777 |
| #2 | .0762624 | .0021582 | .0014324 | 1126.116 | .0516727 | .0809692 |
| #3 | .0782867 | .0019410 | .0012257 | 1124.573 | .0517478 | .0812986 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0936555 | 70.99390 | 2.499183 | 246.9159 | .0969306 | -.007411 |
| Stddev | .0022353 | .11100   | .009084  | 1.0513   | .0013687 | .000921  |
| %RSD   | 2.386686 | .1563467 | .3634855 | .4257720 | 1.412024 | 12.43104 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0950618 | 70.90439 | 2.508856 | 247.8203 | .0953627 | -.007502 |
| #2 | .0948268 | 70.95922 | 2.497859 | 247.1650 | .0978867 | -.006447 |
| #3 | .0910780 | 71.11810 | 2.490833 | 245.7625 | .0975423 | -.008283 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.082384 | .0894665 | .1724730 | 1.470479 | 2.214514 | -.167200 |
| Stddev | .071150  | .0057826 | .0015323 | .117960  | .008042  | .006205  |
| %RSD   | 86.36427 | 6.463393 | .8884141 | 8.021882 | .3631437 | 3.710910 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.161306 | .0838570 | .1723633 | 1.384465 | 2.205539 | -.165556 |
| #2 | -.023153 | .0954079 | .1709985 | 1.604951 | 2.216938 | -.161982 |
| #3 | -.062693 | .0891346 | .1740572 | 1.422022 | 2.221065 | -.174061 |

Sample Name: P4976-21      Acquired: 12/10/2024 22:23:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0121288 | 1.436713 | 2.221512 | .0067012 | .6038692 | .8664220 |
| Stddev | .0000879 | .013062  | .015737  | .0005164 | .0036176 | .0028991 |
| %RSD   | .7249554 | .9091778 | .7083950 | 7.705949 | .5990644 | .3346027 |
| #1     | .0121598 | 1.422196 | 2.226736 | .0061280 | .5996997 | .8695873 |
| #2     | .0120295 | 1.447517 | 2.203827 | .0071300 | .6061731 | .8657828 |
| #3     | .0121969 | 1.440426 | 2.233972 | .0068457 | .6057349 | .8638958 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.040756 |
| Stddev | .004429  |
| %RSD   | 10.86813 |
| #1     | -.036888 |
| #2     | -.045588 |
| #3     | -.039793 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2417.386 | 26588.64 | 2813.149 | 1879.711 | 3209.284 |
| Stddev    | 5.515    | 177.57   | 2.918    | 11.713   | 9.462    |
| %RSD      | .2281406 | .6678443 | .1037215 | .6231195 | .2948369 |
| #1        | 2417.628 | 26629.96 | 2812.091 | 1881.256 | 3218.010 |
| #2        | 2411.754 | 26394.06 | 2816.448 | 1867.303 | 3199.227 |
| #3        | 2422.776 | 26741.91 | 2810.907 | 1890.575 | 3210.614 |

Sample Name: P4880-14      Acquired: 12/10/2024 22:27:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0768519 | .0056387 | 5.172371 | -.014854 | -.002792 | 52.19065 |
| Stddev | .0065193 | .0041054 | .006163  | .002332  | .001545  | .10197   |
| %RSD   | 8.482992 | 72.80762 | .1191496 | 15.69874 | 55.34672 | .1953842 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0710757 | .0103724 | 5.165721 | -.017305 | -.003798 | 52.19106 |
| #2 | .0755594 | .0034928 | 5.173502 | -.014593 | -.003565 | 52.08847 |
| #3 | .0839207 | .0030510 | 5.177890 | -.012663 | -.001013 | 52.29242 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.501758 | .0051032 | .0070887 | 233.9806 | .1215557 | .0926835 |
| Stddev | .006637  | .0000358 | .0001269 | .3739    | .0003222 | .0008239 |
| %RSD   | .2652769 | .7013705 | 1.790280 | .1598090 | .2650359 | .8889749 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.502095 | .0051440 | .0071199 | 234.3198 | .1213086 | .0925950 |
| #2 | 2.494959 | .0050771 | .0069491 | 233.5797 | .1214385 | .0919073 |
| #3 | 2.508219 | .0050885 | .0071970 | 234.0424 | .1219201 | .0935480 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4908595 | 133.3113 | 5.218872 | 81.56640 | .1408925 | -.009581 |
| Stddev | .0042871 | .3543    | .007434  | .19205   | .0004098 | .000736  |
| %RSD   | .8733954 | .2657457 | .1424537 | .2354545 | .2908216 | 7.681425 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4956365 | 133.5441 | 5.216117 | 81.51078 | .1405142 | -.010282 |
| #2 | .4895959 | 132.9036 | 5.227291 | 81.78012 | .1408356 | -.009647 |
| #3 | .4873463 | 133.4862 | 5.213209 | 81.40830 | .1413278 | -.008815 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .8198461 | .1476877 | 2.223199 | 3.885789 | F 10.31062 | -.326990 |
| Stddev | .4240683 | .0059101 | .016443  | .052005  | .03483     | .007958  |
| %RSD   | 51.72535 | 4.001751 | .7396218 | 1.338334 | .3378290   | 2.433607 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4009900 | .1535541 | 2.241995 | 3.930879 | 10.27122 | -.318052 |
| #2 | .8096072 | .1477742 | 2.211476 | 3.828897 | 10.33733 | -.333304 |
| #3 | 1.248941 | .1417349 | 2.216126 | 3.897590 | 10.32330 | -.329614 |

Sample Name: P4880-14      Acquired: 12/10/2024 22:27:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0035449 | 3.392898 | 10.70560 | .1310760 | .9451286 | .2858058 |
| Stddev | .0001912 | .017148  | .04099   | .0004621 | .0060680 | .0005432 |
| %RSD   | 5.393947 | .5054228 | .3829203 | .3525732 | .6420282 | .1900727 |
| #1     | .0035727 | 3.382687 | 10.65907 | .1307837 | .9516586 | .2863868 |
| #2     | .0033412 | 3.412697 | 10.73640 | .1308356 | .9396637 | .2853105 |
| #3     | .0037206 | 3.383312 | 10.72133 | .1316088 | .9440635 | .2857202 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0180616 |
| Stddev | .0006251 |
| %RSD   | 3.460862 |
| #1     | .0184479 |
| #2     | .0173405 |
| #3     | .0183966 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2710.676 | 30134.08 | 3031.871 | 2115.396 | 3540.274 |
| Stddev    | 4.533    | 65.63    | 16.044   | .543     | 2.762    |
| %RSD      | .1672459 | .2177781 | .5291847 | .0256815 | .0780152 |
| #1        | 2707.418 | 30209.77 | 3049.757 | 2115.609 | 3537.452 |
| #2        | 2708.756 | 30092.99 | 3018.745 | 2115.801 | 3542.972 |
| #3        | 2715.853 | 30099.50 | 3027.113 | 2114.779 | 3540.396 |

Sample Name: P4880-15      Acquired: 12/10/2024 22:31:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0760937 | .0042610 | 5.182937 | -.016329 | -.001888 | 51.75453 |
| Stddev | .0035773 | .0013292 | .033256  | .002646  | .002931  | .57540   |
| %RSD   | 4.701145 | 31.19374 | .6416520 | 16.20274 | 155.1887 | 1.111788 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0747829 | .0057954 | 5.144593 | -.016013 | .000252  | 52.10804 |
| #2 | .0801415 | .0035241 | 5.200292 | -.019119 | -.000689 | 52.06497 |
| #3 | .0733567 | .0034635 | 5.203925 | -.013856 | -.005228 | 51.09058 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.491391 | .0050232 | .0072317 | 231.8667 | .1209036 | .0927266 |
| Stddev | .032914  | .0001824 | .0001304 | 2.7554   | .0006951 | .0006052 |
| %RSD   | 1.321124 | 3.630714 | 1.802727 | 1.188339 | .5749148 | .6527011 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.513420 | .0048606 | .0071074 | 233.1400 | .1206112 | .0920362 |
| #2 | 2.507199 | .0052204 | .0072202 | 233.7551 | .1204024 | .0931654 |
| #3 | 2.453555 | .0049887 | .0073674 | 228.7049 | .1216971 | .0929783 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4878136 | 132.0494 | 5.141823 | 80.51122 | .1405366 | -.010854 |
| Stddev | .0122038 | 1.4399   | .068461  | 1.19419  | .0011728 | .000660  |
| %RSD   | 2.501737 | 1.090454 | 1.331446 | 1.483255 | .8345197 | 6.076379 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4962090 | 132.8502 | 5.171199 | 80.78407 | .1392057 | -.010852 |
| #2 | .4934175 | 132.9109 | 5.190693 | 81.54537 | .1414187 | -.010196 |
| #3 | .4738144 | 130.3871 | 5.063577 | 79.20422 | .1409855 | -.011515 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .9009751 | .1436621 | 2.215294 | 3.883049 | F 10.33030 | -.322246 |
| Stddev | .3320695 | .0058887 | .005529  | .154971  | .07063     | .001516  |
| %RSD   | 36.85668 | 4.098985 | .2496059 | 3.990955 | .6837226   | .4705110 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.279348 | .1457067 | 2.218259 | 3.868248 | 10.24880 | -.321949 |
| #2 | .765601  | .1370237 | 2.218709 | 3.736010 | 10.36846 | -.323889 |
| #3 | .657976  | .1482561 | 2.208914 | 4.044889 | 10.37364 | -.320900 |

Sample Name: P4880-15      Acquired: 12/10/2024 22:31:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0037491 | 3.399251 | 10.57067 | .1315106 | .9343032 | .2807642 |
| Stddev | .0004084 | .022252  | .09984   | .0005843 | .0132558 | .0044723 |
| %RSD   | 10.89401 | .6546003 | .9445375 | .4442609 | 1.418786 | 1.592912 |
| #1     | .0035257 | 3.374017 | 10.58943 | .1312772 | .9410873 | .2822742 |
| #2     | .0042205 | 3.407676 | 10.65980 | .1321755 | .9427939 | .2842860 |
| #3     | .0035011 | 3.416059 | 10.46277 | .1310791 | .9190285 | .2757323 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0157417 |
| Stddev | .0019812 |
| %RSD   | 12.58556 |
| #1     | .0138221 |
| #2     | .0177792 |
| #3     | .0156239 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2716.472 | 30309.58 | 3079.826 | 2130.179 | 3541.175 |
| Stddev    | 9.682    | 121.93   | 36.833   | 5.586    | 14.629   |
| %RSD      | .3564172 | .4022756 | 1.195939 | .2622205 | .4131242 |
| #1        | 2727.241 | 30169.03 | 3061.123 | 2125.874 | 3557.706 |
| #2        | 2708.487 | 30372.78 | 3056.098 | 2136.491 | 3529.897 |
| #3        | 2713.688 | 30386.94 | 3122.258 | 2128.173 | 3535.923 |

Sample Name: P4880-14LX5      Acquired: 12/10/2024 22:35:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0143539 | .0025450 | 1.051739 | -.000284 | -.002324 | 11.57249 | .5557310 |
| Stddev | .0008349 | .0015157 | .001816  | .002436  | .001694  | .04652   | .0035718 |
| %RSD   | 5.816867 | 59.55774 | .1726884 | 859.1845 | 72.88386 | .4019610 | .6427187 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0148176 | .0024035 | 1.050756 | -.003081 | -.004124 | 11.52527 | .5527535 |
| #2 | .0133900 | .0011050 | 1.050627 | .001372  | -.002085 | 11.57393 | .5547482 |
| #3 | .0148541 | .0041265 | 1.053835 | .000859  | -.000762 | 11.61827 | .5596913 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011413 | .0014629 | 52.54977 | .0274222 | .0309248 | .1128779 | 29.94919 |
| Stddev | .0000346 | .0000135 | .37301   | .0003554 | .0002873 | .0022579 | .28285   |
| %RSD   | 3.035080 | .9237730 | .7098296 | 1.296094 | .9288914 | 2.000287 | .9444216 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0011610 | .0014736 | 52.12869 | .0270186 | .0312446 | .1154783 | 29.73450 |
| #2 | .0011013 | .0014674 | 52.68186 | .0275595 | .0306886 | .1117400 | 29.84337 |
| #3 | .0011616 | .0014477 | 52.83878 | .0276884 | .0308414 | .1114153 | 30.26969 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.173678 | 18.26515 | .0272726 | -.002557 | -.131217 | .0267686 | .4984918 |
| Stddev | .012945  | .10954   | .0010961 | .000937  | .509614  | .0049329 | .0067948 |
| %RSD   | 1.102925 | .5997174 | 4.019040 | 36.63370 | 388.3757 | 18.42782 | 1.363068 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.162917 | 18.21208 | .0281252 | -.001854 | .403338  | .0317069 | .4938266 |
| #2 | 1.170074 | 18.19225 | .0260362 | -.002195 | -.185435 | .0218412 | .5062875 |
| #3 | 1.188043 | 18.39112 | .0276566 | -.003620 | -.611553 | .0267579 | .4953611 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2483479 | 2.051740 | -.081863 | -.000426 | .6740660 | 2.515381 | .0259245 |
| Stddev | .0365618 | .005440  | .003139  | .000040  | .0057180 | .016886  | .0018700 |
| %RSD   | 14.72201 | .2651416 | 3.834338 | 9.353742 | .8482864 | .6713186 | 7.213346 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2464730 | 2.054088 | -.085294 | -.000472 | .6806557 | 2.521501 | .0242071 |
| #2 | .2127596 | 2.045520 | -.079135 | -.000408 | .6704132 | 2.496288 | .0256496 |
| #3 | .2858111 | 2.055611 | -.081161 | -.000399 | .6711292 | 2.528354 | .0279168 |



Sample Name: P4880-14LX5      Acquired: 12/10/2024 22:35:28      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2156842 | .0633843 | -.056885 |
| Stddev | .0020013 | .0003978 | .002712  |
| %RSD   | .9279038 | .6275430 | 4.768186 |
| #1     | .2133969 | .0629963 | -.054098 |
| #2     | .2165422 | .0633655 | -.059516 |
| #3     | .2171135 | .0637912 | -.057043 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2580.923 | 28479.73 | 2818.312 | 2002.781 | 3826.762 |
| Stddev    | 8.680    | 82.54    | 14.171   | 6.134    | 11.462   |
| %RSD      | .3363000 | .2898368 | .5028202 | .3062941 | .2995329 |
| #1        | 2590.437 | 28498.55 | 2816.312 | 2008.873 | 3839.229 |
| #2        | 2573.437 | 28389.40 | 2833.377 | 1996.605 | 3824.376 |
| #3        | 2578.895 | 28551.24 | 2805.247 | 2002.865 | 3816.680 |

Sample Name: P4880-16      Acquired: 12/10/2024 22:39:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1562442 | .0937917 | 5.264206 | .1328407 | .1544531 | 55.54123 |
| Stddev | .0023678 | .0006512 | .009121  | .0015038 | .0014509 | .09163   |
| %RSD   | 1.515418 | .6942840 | .1732622 | 1.132043 | .9393997 | .1649777 |
| #1     | .1589111 | .0945250 | 5.253774 | .1318784 | .1549312 | 55.64440 |
| #2     | .1543893 | .0935691 | 5.268166 | .1320701 | .1528234 | 55.50998 |
| #3     | .1554321 | .0932809 | 5.270678 | .1345736 | .1556046 | 55.46931 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 6.039082 | .0920205 | .0990207 | 235.0656 | .4945863 | 1.062428 |
| Stddev | .015422  | .0002517 | .0000827 | .3301    | .0013491 | .001102  |
| %RSD   | .2553723 | .2735576 | .0834976 | .1404140 | .2727657 | .1037058 |
| #1     | 6.055246 | .0917309 | .0990542 | 235.2550 | .4936451 | 1.061156 |
| #2     | 6.037471 | .0921433 | .0989265 | 235.2574 | .4961319 | 1.063040 |
| #3     | 6.024528 | .0921872 | .0990813 | 234.6845 | .4939819 | 1.063088 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .9081794 | 134.8839 | 6.111934 | 81.93588 | 1.118843 | .0550910 |
| Stddev | .0074113 | .3745    | .017967  | .50116   | .000256  | .0009669 |
| %RSD   | .8160597 | .2776232 | .2939629 | .6116451 | .0228673 | 1.755123 |
| #1     | .9015151 | 135.0447 | 6.091432 | 81.35748 | 1.119134 | .0558840 |
| #2     | .9161610 | 135.1511 | 6.124933 | 82.20932 | 1.118740 | .0540138 |
| #3     | .9068621 | 134.4559 | 6.119437 | 82.24084 | 1.118655 | .0553751 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .7750085 | 1.035106 | 3.008667 | 3.780508 | F 10.41824 | -.336081 |
| Stddev | .0850896 | .001463  | .020908  | .086762  | .01609     | .001065  |
| %RSD   | 10.97918 | .1413136 | .6949188 | 2.294985 | .1544512   | .3167512 |
| #1     | .7412677 | 1.035400 | 2.990205 | 3.757872 | 10.40585   | -.334974 |
| #2     | .8717939 | 1.033518 | 3.031370 | 3.876344 | 10.41245   | -.337097 |
| #3     | .7119639 | 1.036399 | 3.004427 | 3.707307 | 10.43643   | -.336172 |

Sample Name: P4880-16      Acquired: 12/10/2024 22:39:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0035065 | 3.441273 | 10.68466 | .1321867 | .9564531 | .2874552 |
| Stddev | .0002514 | .006676  | .00644   | .0007167 | .0050159 | .0003958 |
| %RSD   | 7.169788 | .1939968 | .0602803 | .5421909 | .5244278 | .1377006 |
| #1     | .0036051 | 3.440375 | 10.68150 | .1327462 | .9578667 | .2871018 |
| #2     | .0032208 | 3.435092 | 10.69207 | .1313788 | .9606105 | .2873808 |
| #3     | .0036937 | 3.448352 | 10.68042 | .1324351 | .9508821 | .2878829 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0156538 |
| Stddev | .0036048 |
| %RSD   | 23.02823 |
| #1     | .0127749 |
| #2     | .0196968 |
| #3     | .0144897 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2710.584 | 29981.60 | 3053.671 | 2108.626 | 3533.408 |
| Stddev    | 6.224    | 51.01    | 4.595    | 5.724    | 5.894    |
| %RSD      | .2296145 | .1701361 | .1504636 | .2714749 | .1668174 |
| #1        | 2704.775 | 29923.10 | 3052.422 | 2106.918 | 3526.604 |
| #2        | 2717.153 | 30016.78 | 3058.761 | 2115.010 | 3536.966 |
| #3        | 2709.825 | 30004.92 | 3049.830 | 2103.950 | 3536.653 |

Sample Name: P4880-12DLX2      Acquired: 12/10/2024 22:43:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH89L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0170966 | .0101845 | 1.385479 | -.027505 | -.011549 | 17.69437 | .5374278 |
| Stddev | .0041578 | .0027666 | .003342  | .001108  | .003052  | .06928   | .0008424 |
| %RSD   | 24.31923 | 27.16507 | .2412044 | 4.028134 | 26.42954 | .3915372 | .1567518 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0216130 | .0069936 | 1.383523 | -.028734 | -.014101 | 17.69754 | .5373384 |
| #2 | .0162486 | .0116474 | 1.383575 | -.026581 | -.008168 | 17.62356 | .5366337 |
| #3 | .0134282 | .0119126 | 1.389337 | -.027202 | -.012380 | 17.76201 | .5383114 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0016300 | .0050272 | 485.2444 | .0594113 | .0538854 | .1433623 | 48.85468 |
| Stddev | .0000599 | .0001014 | 1.9114   | .0004241 | .0004697 | .0077503 | .19600   |
| %RSD   | 3.676408 | 2.016867 | .3939029 | .7137980 | .8717330 | 5.406079 | .4011922 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0016583 | .0049654 | 485.4024 | .0597874 | .0544275 | .1478270 | 48.75022 |
| #2 | .0015612 | .0051442 | 483.2589 | .0594947 | .0536003 | .1344131 | 48.73305 |
| #3 | .0016705 | .0049720 | 487.0719 | .0589517 | .0536283 | .1478469 | 49.08079 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.272298 | 247.0565 | .0764426 | -.002836 | .2842653 | .0611423 | 1.398123 |
| Stddev | .018422  | .9131    | .0010892 | .000616  | .3579433 | .0065547 | .013264  |
| %RSD   | .5629554 | .3696067 | 1.424790 | 21.73795 | 125.9187 | 10.72043 | .9487221 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.275216 | 247.2607 | .0774508 | -.003295 | .5621253 | .0535746 | 1.413427 |
| #2 | 3.252592 | 246.0586 | .0765894 | -.003077 | .4103236 | .0648188 | 1.389933 |
| #3 | 3.289087 | 247.8503 | .0752875 | -.002135 | -.119653 | .0650336 | 1.391009 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.570047 | 3.539531 | -.103190 | .0009788 | 6.964202 | 6.236439 | .0433801 |
| Stddev | .028435  | .007369  | .002690  | .0001923 | .021130  | .038237  | .0004335 |
| %RSD   | 1.811102 | .2081775 | 2.606357 | 19.64540 | .3034034 | .6131222 | .9992471 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.586279 | 3.536048 | -.105281 | .0011837 | 6.946621 | 6.206420 | .0432530 |
| #2 | 1.537214 | 3.534550 | -.104133 | .0009506 | 6.958342 | 6.223410 | .0438629 |
| #3 | 1.586648 | 3.547995 | -.100156 | .0008022 | 6.987643 | 6.279488 | .0430244 |

Sample Name: P4880-12DLX2      Acquired: 12/10/2024 22:43:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH89L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3692680 | .2011401 | -.046321 |
| Stddev | .0020511 | .0010318 | .002791  |
| %RSD   | .5554447 | .5129925 | 6.024249 |
| #1     | .3691026 | .2020695 | -.047298 |
| #2     | .3713968 | .2000298 | -.048492 |
| #3     | .3673047 | .2013210 | -.043174 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2442.045 | 26990.79 | 2797.319 | 1908.254 | 3318.007 |
| Stddev    | 6.217    | 81.14    | 5.601    | 12.539   | 8.072    |
| %RSD      | .2545819 | .3006056 | .2002207 | .6570721 | .2432884 |
| #1        | 2445.089 | 26908.82 | 2798.239 | 1899.751 | 3321.137 |
| #2        | 2434.893 | 26992.46 | 2802.403 | 1902.356 | 3308.838 |
| #3        | 2446.154 | 27071.07 | 2791.316 | 1922.653 | 3324.045 |

Sample Name: P4905-02      Acquired: 12/10/2024 22:46:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1158708 | .0067790 | 3.453736 | -.000651 | .0004069 | 72.10707 |
| Stddev | .0007295 | .0014592 | .006275  | .004800  | .0012342 | .44471   |
| %RSD   | .6296027 | 21.52485 | .1816879 | 737.4738 | 303.3041 | .6167343 |
| #1     | .1162518 | .0051585 | 3.460831 | -.000275 | -.000816 | 71.62787 |
| #2     | .1163309 | .0071897 | 3.451461 | -.005628 | .000385  | 72.18686 |
| #3     | .1150297 | .0079887 | 3.448915 | .003951  | .001652  | 72.50649 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.331339 | .0063553 | .0101885 | 152.0334 | .1551525 | .1252908 |
| Stddev | .014447  | .0001031 | .0000725 | .8042    | .0007092 | .0010757 |
| %RSD   | .6196841 | 1.621687 | .7116956 | .5289528 | .4570949 | .8585757 |
| #1     | 2.314847 | .0063035 | .0102496 | 151.1564 | .1555420 | .1257081 |
| #2     | 2.337410 | .0062884 | .0101084 | 152.2078 | .1555814 | .1240690 |
| #3     | 2.341760 | .0064740 | .0102074 | 152.7361 | .1543339 | .1260954 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4579089 | 187.7899 | 12.18021 | 36.90516 | .2179714 | -.013236 |
| Stddev | .0055565 | 1.0925   | .10490   | .10106   | .0014476 | .000829  |
| %RSD   | 1.213455 | .5817427 | .8612408 | .2738308 | .6641073 | 6.259842 |
| #1     | .4521627 | 186.5388 | 12.10481 | 36.87473 | .2178923 | -.012586 |
| #2     | .4583100 | 188.2760 | 12.13581 | 36.82281 | .2165650 | -.014169 |
| #3     | .4632540 | 188.5550 | 12.30001 | 37.01793 | .2194569 | -.012954 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .6700862 | .1817898 | 2.281144 | 12.93221 | F 23.32303 | -.458083 |
| Stddev | .2990597 | .0068211 | .010120  | .02580   | .07778     | .002165  |
| %RSD   | 44.63003 | 3.752197 | .4436152 | .1995101 | .3334950   | .4726229 |
| #1     | .8079705 | .1800821 | 2.274891 | 12.90247 | 23.41274   | -.456142 |
| #2     | .8753296 | .1759848 | 2.292819 | 12.94545 | 23.27448   | -.457689 |
| #3     | .3269587 | .1893025 | 2.275722 | 12.94869 | 23.28186   | -.460418 |

Sample Name: P4905-02      Acquired: 12/10/2024 22:46:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0059678 | 4.919730 | 8.754117 | .1823251 | 1.310986 | .1986922 |
| Stddev | .0001010 | .021339  | .065288  | .0015404 | .010671  | .0013428 |
| %RSD   | 1.692361 | .4337522 | .7457997 | .8448689 | .8139521 | .6758364 |
| #1     | .0059410 | 4.942094 | 8.709906 | .1837409 | 1.300767 | .1975694 |
| #2     | .0060795 | 4.917507 | 8.723340 | .1806847 | 1.310134 | .1983275 |
| #3     | .0058830 | 4.899589 | 8.829105 | .1825498 | 1.322058 | .2001797 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0256056 |
| Stddev | .0028207 |
| %RSD   | 11.01582 |
| #1     | .0223489 |
| #2     | .0271921 |
| #3     | .0272758 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3031.574 | 33579.30 | 3412.623 | 2382.952 | 3618.944 |
| Stddev    | 11.949   | 166.77   | 19.294   | 12.759   | 12.918   |
| %RSD      | .3941395 | .4966338 | .5653837 | .5354251 | .3569638 |
| #1        | 3026.461 | 33449.75 | 3426.146 | 2378.775 | 3608.162 |
| #2        | 3045.228 | 33520.70 | 3421.194 | 2372.805 | 3633.262 |
| #3        | 3023.032 | 33767.46 | 3390.528 | 2397.276 | 3615.409 |

Sample Name: P4905-03      Acquired: 12/10/2024 22:50:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1212827 | .0050905 | 3.408955 | -.004005 | .0011709 | 72.24084 |
| Stddev | .0011085 | .0023814 | .004852  | .000886  | .0022801 | .16066   |
| %RSD   | .9139800 | 46.78102 | .1423293 | 22.13004 | 194.7278 | .2223980 |
| #1     | .1212597 | .0073650 | 3.404476 | -.004547 | -.000257 | 72.13728 |
| #2     | .1201858 | .0052916 | 3.414109 | -.004487 | .003800  | 72.42592 |
| #3     | .1224024 | .0026150 | 3.408280 | -.002983 | -.000031 | 72.15932 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.325609 | .0064470 | .0101329 | 150.8689 | .1548602 | .1242082 |
| Stddev | .007199  | .0001716 | .0000538 | .2972    | .0003833 | .0006775 |
| %RSD   | .3095568 | 2.661686 | .5307407 | .1970067 | .2474842 | .5454718 |
| #1     | 2.317582 | .0062578 | .0100794 | 150.8859 | .1544365 | .1234269 |
| #2     | 2.331494 | .0064908 | .0101869 | 151.1572 | .1551827 | .1245635 |
| #3     | 2.327750 | .0065925 | .0101325 | 150.5635 | .1549615 | .1246342 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4562113 | 187.3063 | 12.08289 | 36.36022 | .2152237 | -.014005 |
| Stddev | .0091298 | .2402    | .03053   | .03856   | .0004556 | .001034  |
| %RSD   | 2.001214 | .1282537 | .2526973 | .1060569 | .2116770 | 7.386141 |
| #1     | .4590527 | 187.1880 | 12.09689 | 36.40213 | .2157269 | -.013524 |
| #2     | .4635824 | 187.5828 | 12.10392 | 36.35230 | .2148392 | -.015193 |
| #3     | .4459987 | 187.1482 | 12.04787 | 36.32623 | .2151052 | -.013299 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .9147972 | .1812417 | 2.264571 | 12.91115 | F 22.96912 | -.452884 |
| Stddev | 1.022741 | .0026850 | .023477  | .11193   | .02793     | .009588  |
| %RSD   | 111.7998 | 1.481461 | 1.036704 | .8669435 | .1215810   | 2.117007 |
| #1     | -.171880 | .1829307 | 2.291663 | 12.78282 | 22.93711   | -.452011 |
| #2     | 1.057700 | .1826489 | 2.250221 | 12.96201 | 22.98853   | -.443763 |
| #3     | 1.858572 | .1781456 | 2.251827 | 12.98862 | 22.98172   | -.462878 |



Sample Name: P4905-03      Acquired: 12/10/2024 22:50:45      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0062942 | 4.818780 | 8.758232 | .1795541 | 1.303688 | .1968124 |
| Stddev | .0001825 | .010295  | .013636  | .0015782 | .007313  | .0014884 |
| %RSD   | 2.899601 | .2136493 | .1556901 | .8789731 | .5609206 | .7562601 |
| #1     | .0062905 | 4.813795 | 8.763983 | .1785690 | 1.311198 | .1983572 |
| #2     | .0061136 | 4.811926 | 8.742663 | .1787189 | 1.303276 | .1966922 |
| #3     | .0064785 | 4.830619 | 8.768050 | .1813744 | 1.296590 | .1953877 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0268716 |
| Stddev | .0009359 |
| %RSD   | 3.482716 |
| #1     | .0261818 |
| #2     | .0264961 |
| #3     | .0279369 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3014.321 | 33433.82 | 3383.454 | 2362.932 | 3614.714 |
| Stddev    | 12.066   | 53.45    | 7.225    | 6.041    | 12.044   |
| %RSD      | .4002834 | .1598805 | .2135499 | .2556399 | .3331933 |
| #1        | 3022.890 | 33373.78 | 3375.685 | 2357.118 | 3626.520 |
| #2        | 3019.550 | 33476.23 | 3389.973 | 2369.176 | 3615.176 |
| #3        | 3000.523 | 33451.46 | 3384.704 | 2362.503 | 3602.445 |

Sample Name: P4905-02LX5      Acquired: 12/10/2024 22:54:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0219213 | .0037280 | .6939128 | .0020434 | -.001635 | 17.38895 | .5576250 |
| Stddev | .0014718 | .0035283 | .0040961 | .0010877 | .000928  | .02787   | .0021417 |
| %RSD   | 6.714078 | 94.64219 | .5902840 | 53.23288 | 56.75258 | .1602880 | .3840691 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0213640 | .0002145 | .6905275 | .0026731 | -.000765 | 17.42028 | .5600956 |
| #2 | .0208095 | .0072709 | .6927450 | .0007873 | -.002612 | 17.36691 | .5562944 |
| #3 | .0235903 | .0036988 | .6984659 | .0026696 | -.001529 | 17.37966 | .5564852 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0015977 | .0019388 | 36.52300 | .0375510 | .0355316 | .1161207 | 45.50407 |
| Stddev | .0000725 | .0001703 | .06404   | .0003300 | .0005626 | .0042511 | .15674   |
| %RSD   | 4.535003 | 8.785214 | .1753288 | .8787303 | 1.583448 | 3.660944 | .3444500 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0016741 | .0018544 | 36.59653 | .0371726 | .0361392 | .1203884 | 45.62246 |
| #2 | .0015890 | .0021348 | 36.47951 | .0377015 | .0350287 | .1160875 | 45.56343 |
| #3 | .0015300 | .0018271 | 36.49295 | .0377789 | .0354267 | .1118863 | 45.32632 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.947279 | 8.825785 | .0425796 | -.003915 | -.569574 | .0412212 | .5451300 |
| Stddev | .015930  | .107193  | .0007901 | .000396  | .314877  | .0086384 | .0065754 |
| %RSD   | .5404874 | 1.214547 | 1.855516 | 10.11869 | 55.28284 | 20.95622 | 1.206215 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.964176 | 8.823991 | .0433926 | -.004365 | -.538654 | .0495187 | .5515700 |
| #2 | 2.945125 | 8.933864 | .0418146 | -.003618 | -.271298 | .0418669 | .5453930 |
| #3 | 2.932536 | 8.719499 | .0425315 | -.003762 | -.898771 | .0322781 | .5384270 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.391176 | 4.645649 | -.114512 | .0005119 | .9651304 | 2.237856 | .0371933 |
| Stddev | .166246  | .009589  | .002520  | .0003767 | .0075026 | .016437  | .0002063 |
| %RSD   | 6.952466 | .2064158 | 2.200981 | 73.59152 | .7773625 | .7345010 | .5546120 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.341130 | 4.655268 | -.112046 | .0000835 | .9728459 | 2.229445 | .0373032 |
| #2 | 2.255703 | 4.636089 | -.117084 | .0006609 | .9578606 | 2.256797 | .0373214 |
| #3 | 2.576696 | 4.645589 | -.114407 | .0007914 | .9646848 | 2.227328 | .0369554 |

Sample Name: P4905-02LX5      Acquired: 12/10/2024 22:54:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3187000 | .0466030 | -.057409 |
| Stddev | .0025159 | .0005107 | .001060  |
| %RSD   | .7894405 | 1.095949 | 1.846130 |
| #1     | .3211133 | .0471790 | -.056193 |
| #2     | .3188941 | .0464245 | -.057900 |
| #3     | .3160927 | .0462054 | -.058134 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2622.171 | 29087.30 | 2857.952 | 2046.991 | 3837.728 |
| Stddev    | 2.865    | 37.80    | 15.285   | 7.106    | 3.099    |
| %RSD      | .1092654 | .1299541 | .5348378 | .3471535 | .0807436 |
| #1        | 2624.848 | 29046.43 | 2845.417 | 2041.783 | 3840.407 |
| #2        | 2622.515 | 29121.01 | 2853.459 | 2044.104 | 3838.443 |
| #3        | 2619.149 | 29094.45 | 2874.981 | 2055.087 | 3834.334 |

Sample Name: P4905-04      Acquired: 12/10/2024 22:58:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1924513 | .0932737 | 3.441985 | .1302796 | .1408151 | 75.27971 |
| Stddev | .0016847 | .0007207 | .015624  | .0033236 | .0021094 | .31805   |
| %RSD   | .8754102 | .7727014 | .4539186 | 2.551099 | 1.497966 | .4224844 |
| #1     | .1912484 | .0934337 | 3.441514 | .1336153 | .1432365 | 75.06005 |
| #2     | .1943768 | .0924865 | 3.426602 | .1269683 | .1393765 | 75.64442 |
| #3     | .1917287 | .0939010 | 3.457839 | .1302553 | .1398322 | 75.13466 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.579634 | .0869556 | .1015263 | 149.9653 | .4981135 | 1.110257 |
| Stddev | .022067  | .0006890 | .0005409 | .4617    | .0013722 | .003149  |
| %RSD   | .3954866 | .7923817 | .5327833 | .3078536 | .2754782 | .2836042 |
| #1     | 5.564116 | .0875402 | .1014227 | 149.8206 | .4974187 | 1.111641 |
| #2     | 5.604895 | .0871307 | .1010447 | 150.4820 | .4972276 | 1.106654 |
| #3     | 5.569891 | .0861959 | .1021115 | 149.5934 | .4996941 | 1.112477 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8321025 | 187.3227 | 12.83088 | 35.96298 | 1.209336 | .0447724 |
| Stddev | .0038404 | .8983    | .08754   | .41699   | .004455  | .0008771 |
| %RSD   | .4615269 | .4795269 | .6822253 | 1.159486 | .3683913 | 1.959080 |
| #1     | .8286420 | 187.0362 | 12.87657 | 36.09477 | 1.210958 | .0445868 |
| #2     | .8362342 | 188.3293 | 12.88612 | 36.29814 | 1.204298 | .0457274 |
| #3     | .8314311 | 186.6027 | 12.72996 | 35.49602 | 1.212754 | .0440029 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | .5261439 | 1.000497 | 3.024231 | 12.81113 | F 22.87325 | -.447710 |
| Stddev | .1756239 | .013586  | .010378  | .09871   | .06055     | .009130  |
| %RSD   | 33.37944 | 1.357954 | .3431494 | .7704787 | .2647267   | 2.039272 |
| #1     | .7276610 | .987172  | 3.021337 | 12.82984 | 22.87396   | -.455243 |
| #2     | .4057165 | 1.014331 | 3.015607 | 12.89914 | 22.81235   | -.450331 |
| #3     | .4450541 | .999987  | 3.035748 | 12.70441 | 22.93344   | -.437556 |

Sample Name: P4905-04      Acquired: 12/10/2024 22:58:25      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0059626 | 4.830121 | 9.094536 | .1782453 | 1.314739 | .1944210 |
| Stddev | .0000911 | .012988  | .098467  | .0017220 | .009315  | .0013850 |
| %RSD   | 1.526963 | .2688970 | 1.082700 | .9660733 | .7084791 | .7123652 |
| #1     | .0058617 | 4.827004 | 9.156652 | .1797434 | 1.322178 | .1954577 |
| #2     | .0059874 | 4.818975 | 9.145952 | .1763640 | 1.317745 | .1949571 |
| #3     | .0060386 | 4.844384 | 8.981005 | .1786285 | 1.304292 | .1928480 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0250733 |
| Stddev | .0003469 |
| %RSD   | 1.383692 |
| #1     | .0247862 |
| #2     | .0249749 |
| #3     | .0254588 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3010.604 | 33159.79 | 3346.585 | 2344.055 | 3615.782 |
| Stddev    | 12.434   | 246.85   | 17.193   | 13.557   | 16.509   |
| %RSD      | .4129955 | .7444192 | .5137475 | .5783630 | .4565780 |
| #1        | 2998.198 | 33356.19 | 3344.234 | 2356.440 | 3602.048 |
| #2        | 3023.065 | 33240.49 | 3330.688 | 2346.154 | 3634.098 |
| #3        | 3010.549 | 32882.69 | 3364.833 | 2329.570 | 3611.200 |

Sample Name: CCV093      Acquired: 12/10/2024 23:02:10      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV093      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 4.922014 | 4.856015 | 24.62699 | 4.707846 | 4.806947 | 397.6391   |
| Stddev | .017473  | .012731  | .07432   | .009293  | .016591  | .7906      |
| %RSD   | .3549989 | .2621622 | .3017969 | .1973908 | .3451438 | .1988199   |
| #1     | 4.931746 | 4.861357 | 24.62754 | 4.712950 | 4.811591 | 397.6399   |
| #2     | 4.932453 | 4.865204 | 24.70103 | 4.713468 | 4.820721 | 398.4293   |
| #3     | 4.901841 | 4.841484 | 24.55239 | 4.697120 | 4.788529 | 396.8481   |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 10.00056 | .4997943 | 2.477963 | 403.0076 | 15.44890 | 2.511584   |
| Stddev | .00806   | .0031033 | .007604  | 1.3197   | .05084   | .008883    |
| %RSD   | .0806262 | .6209239 | .3068570 | .3274512 | .3290776 | .3536872   |
| #1     | 10.00986 | .4996954 | 2.479733 | 402.5324 | 15.48645 | 2.512586   |
| #2     | 9.99628  | .5029458 | 2.484526 | 404.4990 | 15.46919 | 2.519924   |
| #3     | 9.99555  | .4967415 | 2.469631 | 401.9913 | 15.39105 | 2.502243   |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 14.94271 | 401.6436 | 14.58495 | 399.9893 | 2.497045 | 1.238374   |
| Stddev | .05554   | 1.4348   | .01917   | 1.6896   | .005904  | .001868    |
| %RSD   | .3717022 | .3572324 | .1314521 | .4224069 | .2364260 | .1508313   |
| #1     | 14.93622 | 401.5649 | 14.57547 | 398.8728 | 2.497732 | 1.240129   |
| #2     | 15.00121 | 403.1162 | 14.60702 | 401.9331 | 2.502575 | 1.238583   |
| #3     | 14.89069 | 400.2498 | 14.57238 | 399.1621 | 2.490828 | 1.236411   |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 396.1874 | 2.518365 | 13.87224 | 151.2175 | 4.959292 | F 4.120720 |
| Stddev | 1.9593   | .013288  | .09524   | .0898    | .012203  | .025424    |
| %RSD   | .4945379 | .5276576 | .6865327 | .0593641 | .2460704 | .6169869   |
| #1     | 395.7943 | 2.523124 | 13.76737 | 151.2681 | 4.957800 | 4.107681   |
| #2     | 398.3134 | 2.528619 | 13.95335 | 151.2705 | 4.972173 | 4.150019   |
| #3     | 394.4544 | 2.503352 | 13.89599 | 151.1138 | 4.947903 | 4.104462   |

Sample Name: CCV093      Acquired: 12/10/2024 23:02:10      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV093      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.784341 | 4.986897 | 4.845800 | 4.947847 | 4.971802 | 4.784939 |
| Stddev | .012485  | .032490  | .033289  | .018616  | .019449  | .021424  |
| %RSD   | .2609618 | .6515028 | .6869628 | .3762499 | .3911818 | .4477343 |
| #1     | 4.793370 | 5.016440 | 4.855850 | 4.953973 | 4.959202 | 4.773274 |
| #2     | 4.789559 | 4.992149 | 4.872906 | 4.962629 | 4.994201 | 4.809664 |
| #3     | 4.770093 | 4.952101 | 4.808644 | 4.926940 | 4.962003 | 4.771879 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | 5.055516 |
| Stddev | .012237  |
| %RSD   | .2420586 |
| #1     | 5.043369 |
| #2     | 5.055338 |
| #3     | 5.067842 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2131.460 | 24509.36 | 2635.239 | 1619.713 | 3144.817 |
| Stddev    | 1.181    | 82.57    | 19.524   | 8.163    | 5.023    |
| %RSD      | .0553896 | .3368804 | .7408728 | .5039887 | .1597188 |
| #1        | 2132.631 | 24470.95 | 2635.265 | 1624.551 | 3149.697 |
| #2        | 2131.479 | 24453.00 | 2615.702 | 1610.288 | 3139.663 |
| #3        | 2130.270 | 24604.14 | 2654.749 | 1624.300 | 3145.091 |

Sample Name: CCB093      Acquired: 12/10/2024 23:05:46      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB093      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000017 | .0006205 | .0000364 | .0049154 | -.000246 | -.002976 |
| Stddev | .004187  | .0008602 | .0005247 | .0008953 | .000116  | .009334  |
| %RSD   | 25354.71 | 138.6377 | 1443.634 | 18.21482 | 47.28098 | 313.6895 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.004792 | .0015931 | .0003173 | .0058640 | -.000345 | .000425  |
| #2 | .003028  | .0003086 | -.000569 | .0040852 | -.000118 | .004182  |
| #3 | .001714  | -.000040 | .000361  | .0047968 | -.000275 | -.013533 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.004451 | -.000075 | .0001585 | .0511098 | -.000703 | .0001655 |
| Stddev | .000582  | .000054  | .0000286 | .0195261 | .000771  | .0001618 |
| %RSD   | 13.08364 | 71.50525 | 18.04187 | 38.20421 | 109.6150 | 97.79412 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.004530 | -.000049 | .0001272 | .0300778 | -.000640 | .0002640 |
| #2 | -.003833 | -.000039 | .0001648 | .0545896 | .000034  | -.000021 |
| #3 | -.004990 | -.000137 | .0001833 | .0686621 | -.001504 | .000254  |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0061164 | .0400290 | .0003858 | -.001602 | -.000376 | -.000472 |
| Stddev | .0041966 | .0125918 | .0012513 | .054484  | .000298  | .001152  |
| %RSD   | 68.61282 | 31.45669 | 324.2926 | 3400.568 | 79.18325 | 244.3846 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0100646 | .0300601 | -.000545 | -.042032 | -.000093 | -.000462 |
| #2 | .0065754 | .0541796 | .001808  | -.023132 | -.000687 | .000676  |
| #3 | .0017091 | .0358473 | -.000106 | .060358  | -.000349 | -.001629 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.902265 | .0009501 | -.001867 | -.680949 | -.001540 | .0110505 |
| Stddev | .566755  | .0050381 | .005239  | .062931  | .001046  | .0013339 |
| %RSD   | 62.81468 | 530.2374 | 280.6948 | 9.241610 | 67.87754 | 12.07067 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -1.03608 | .0001609 | .003666  | -.718039 | -.002584 | .0111076 |
| #2 | -.28058  | .0063362 | -.002514 | -.608288 | -.001544 | .0123548 |
| #3 | -1.39013 | -.003647 | -.006752 | -.716520 | -.000493 | .0096889 |

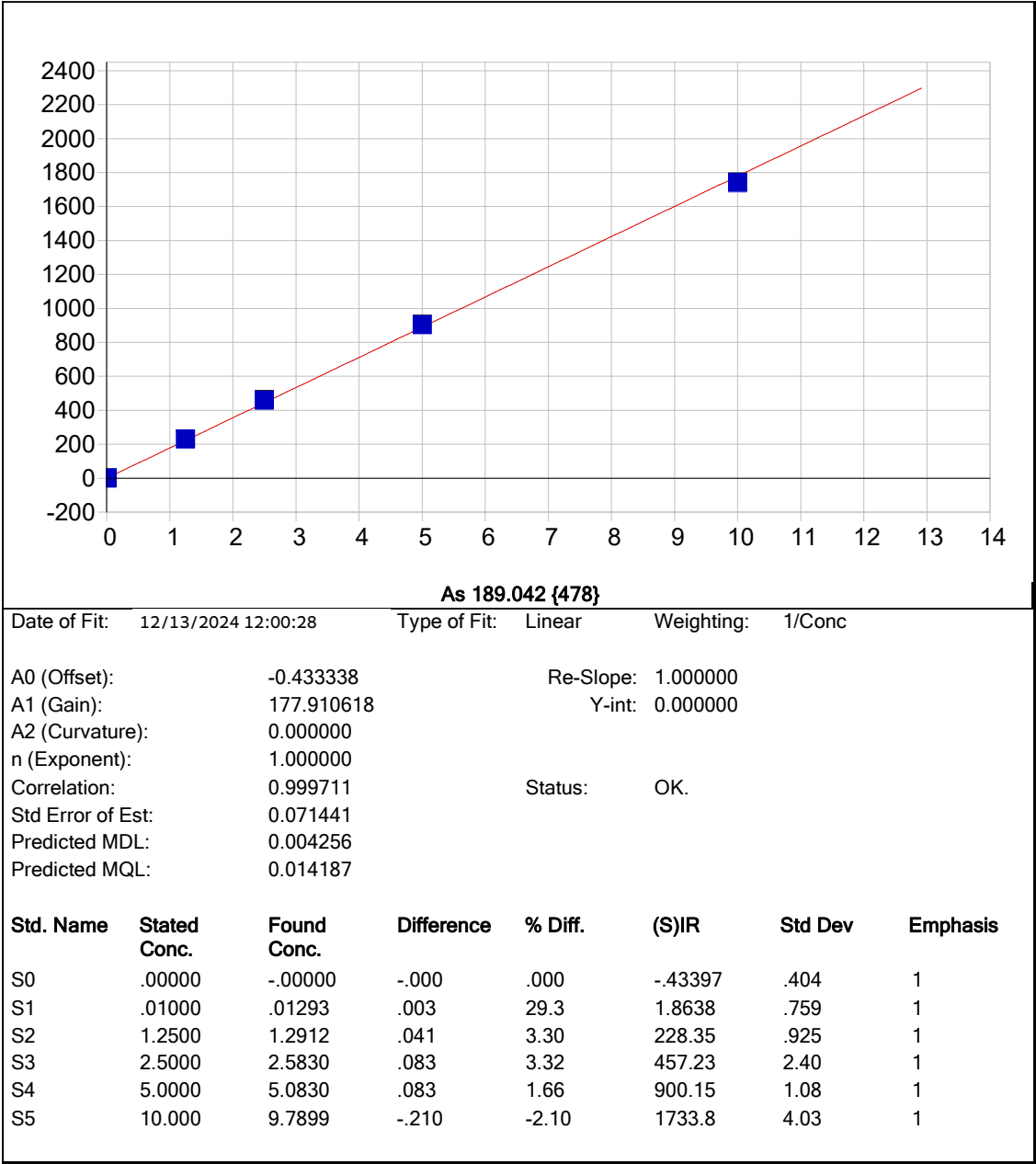


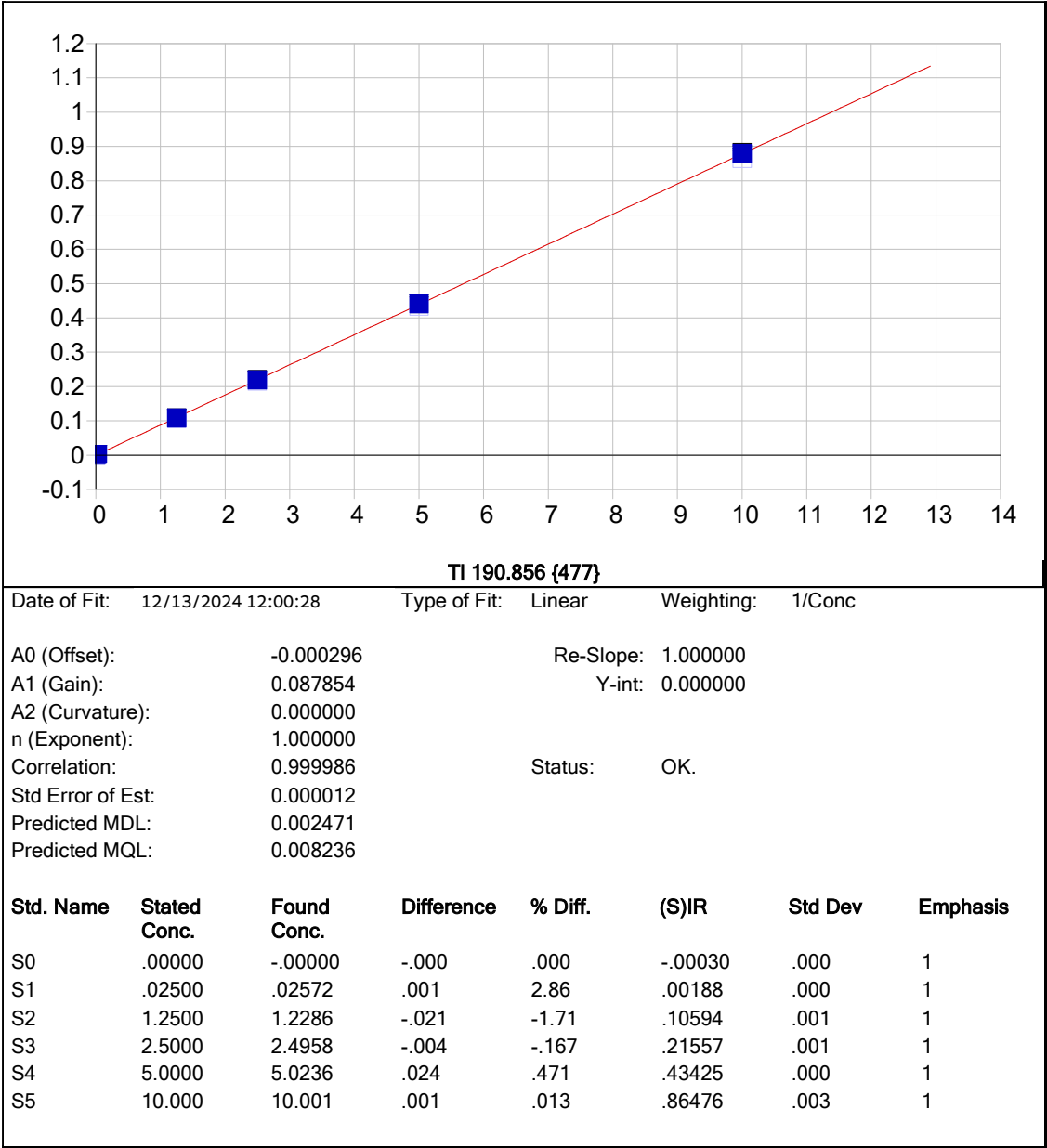
Sample Name: CCB093      Acquired: 12/10/2024 23:05:46      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v6)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB093      Custom ID2:      Custom ID3:  
Comment:

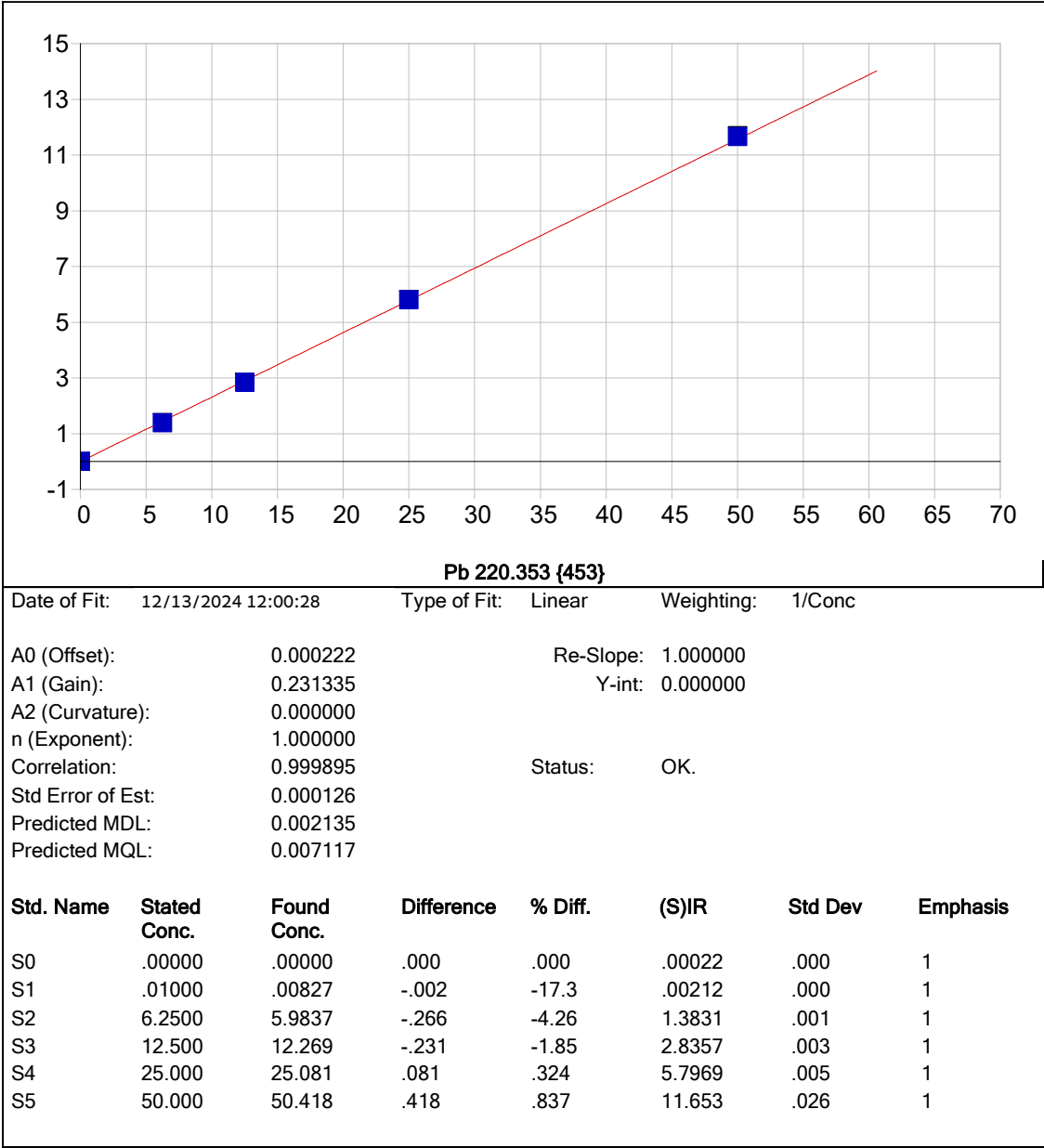
|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | -.000492 | .0009657 | -.001254 | F -.009886 | .0051956 | .0001850 |
| Stddev | .000166  | .0034983 | .000688  | .001306    | .0037273 | .0002443 |
| %RSD   | 33.68875 | 362.2603 | 54.86738 | 13.20891   | 71.73873 | 132.0471 |
| #1     | -.000330 | .0035162 | -.002003 | -.011371   | .0088987 | .0004610 |
| #2     | -.000483 | -.003022 | -.000650 | -.008918   | .0052435 | .0000972 |
| #3     | -.000661 | .002403  | -.001109 | -.009368   | .0014446 | -.000003 |

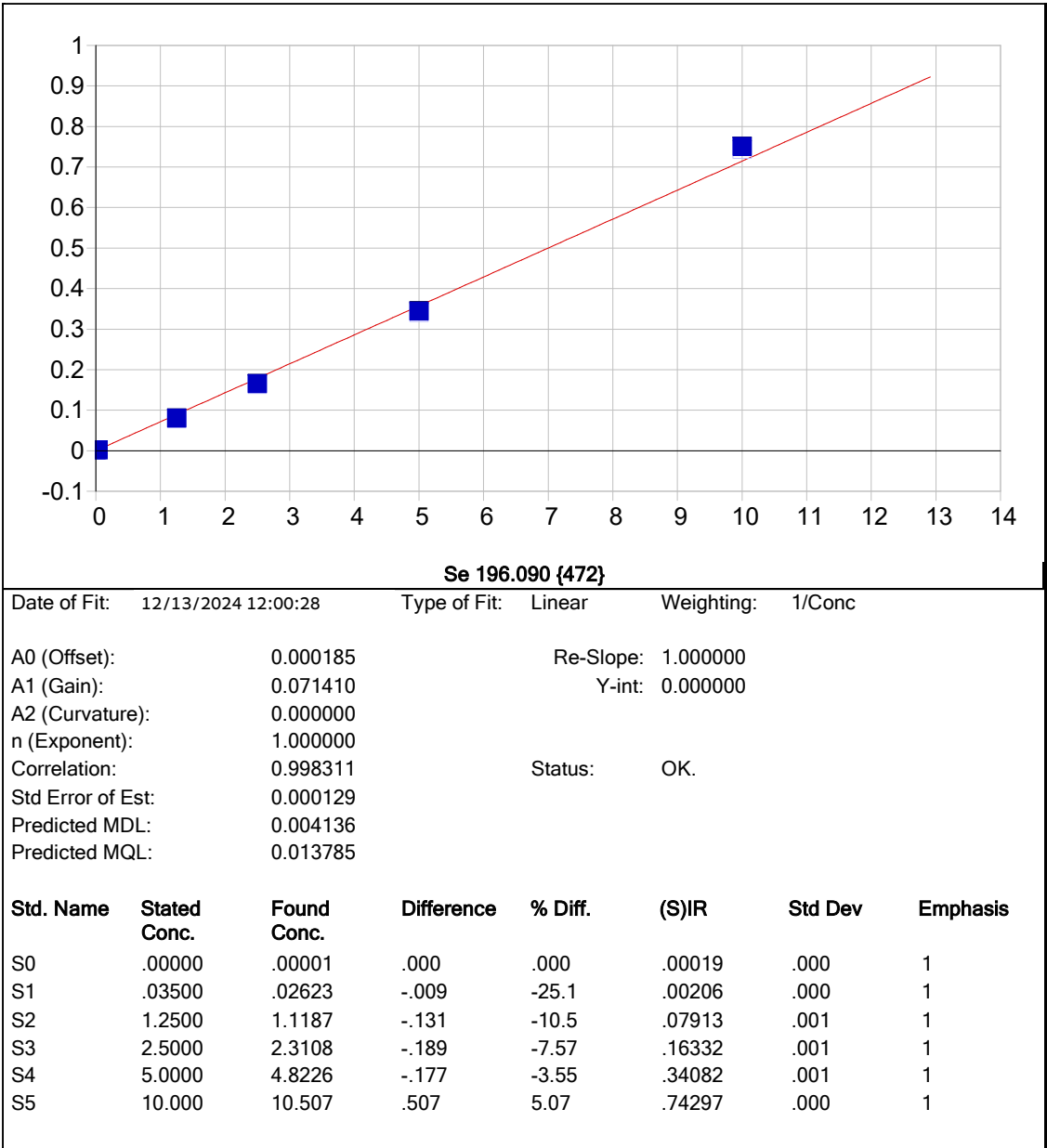
|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.059361 |
| Stddev | .002914    |
| %RSD   | 4.909095   |
| #1     | -.060881   |
| #2     | -.056001   |
| #3     | -.061200   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2547.833 | 28242.38 | 2765.150 | 1994.898 | 3980.024 |
| Stddev    | 3.694    | 130.00   | .484     | 8.981    | 5.911    |
| %RSD      | .1450041 | .4602878 | .0175146 | .4501948 | .1485252 |
| #1        | 2550.137 | 28219.29 | 2765.522 | 1996.704 | 3983.469 |
| #2        | 2543.571 | 28125.47 | 2764.603 | 1985.152 | 3973.199 |
| #3        | 2549.790 | 28382.37 | 2765.327 | 2002.839 | 3983.406 |



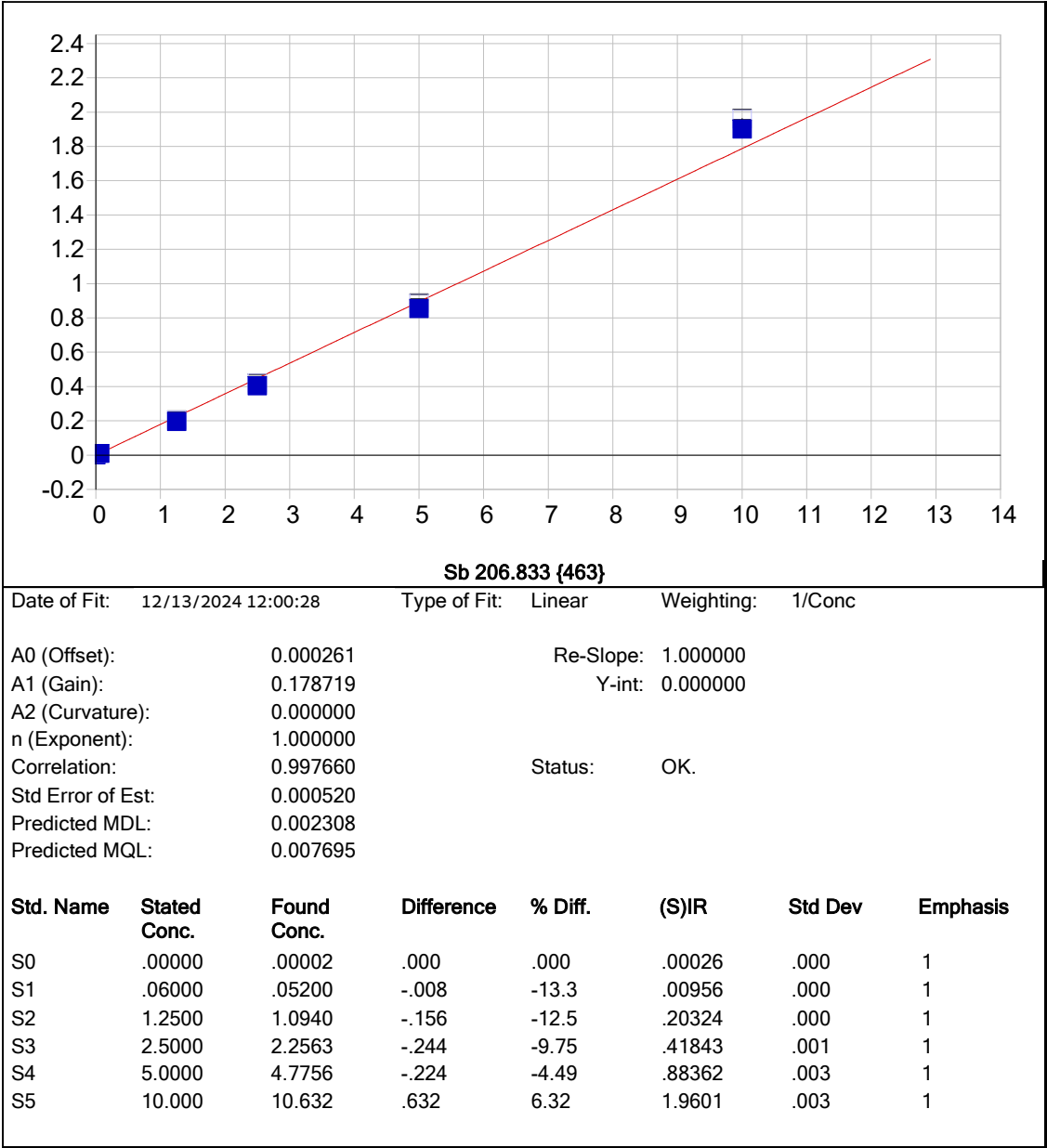


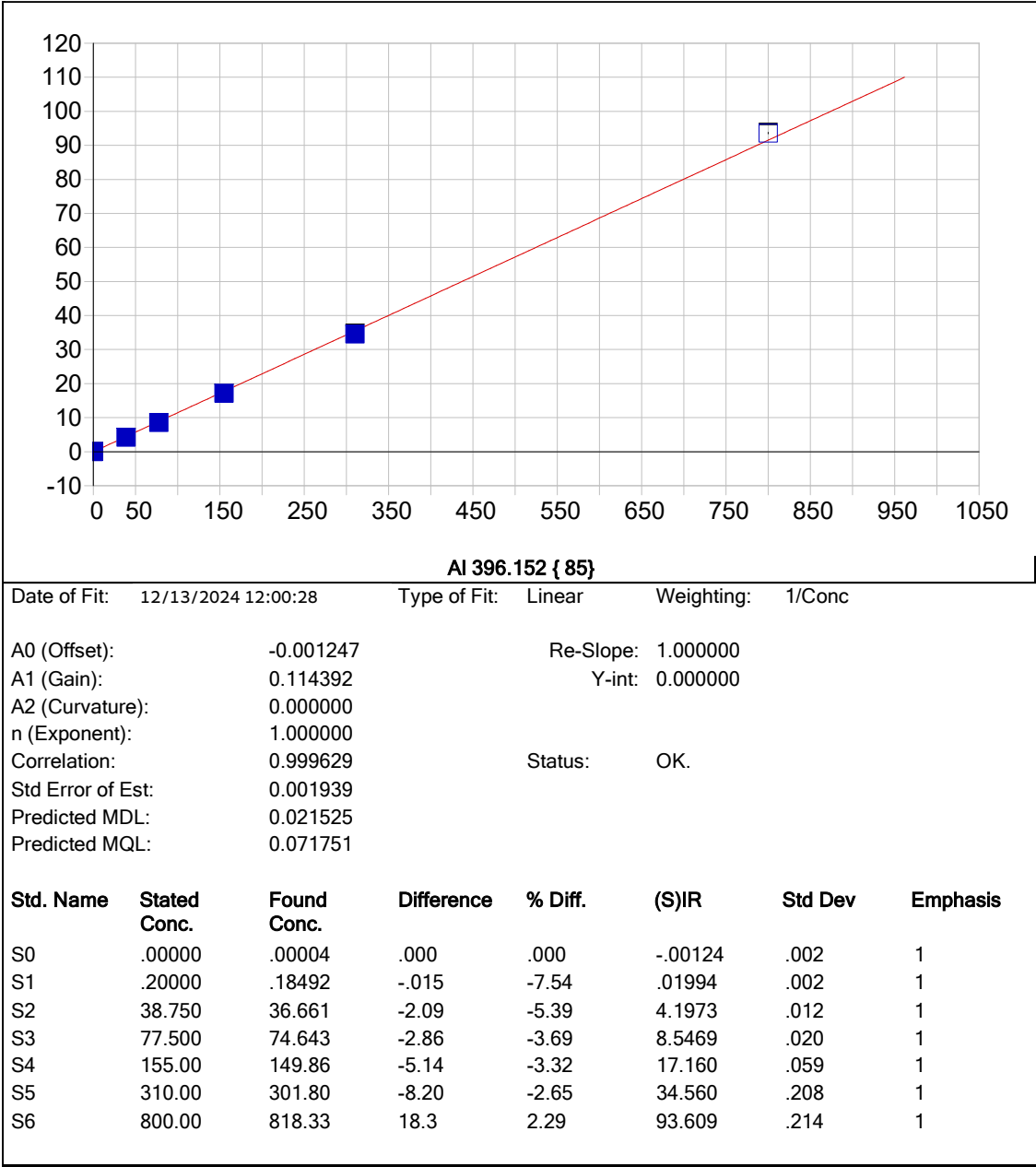


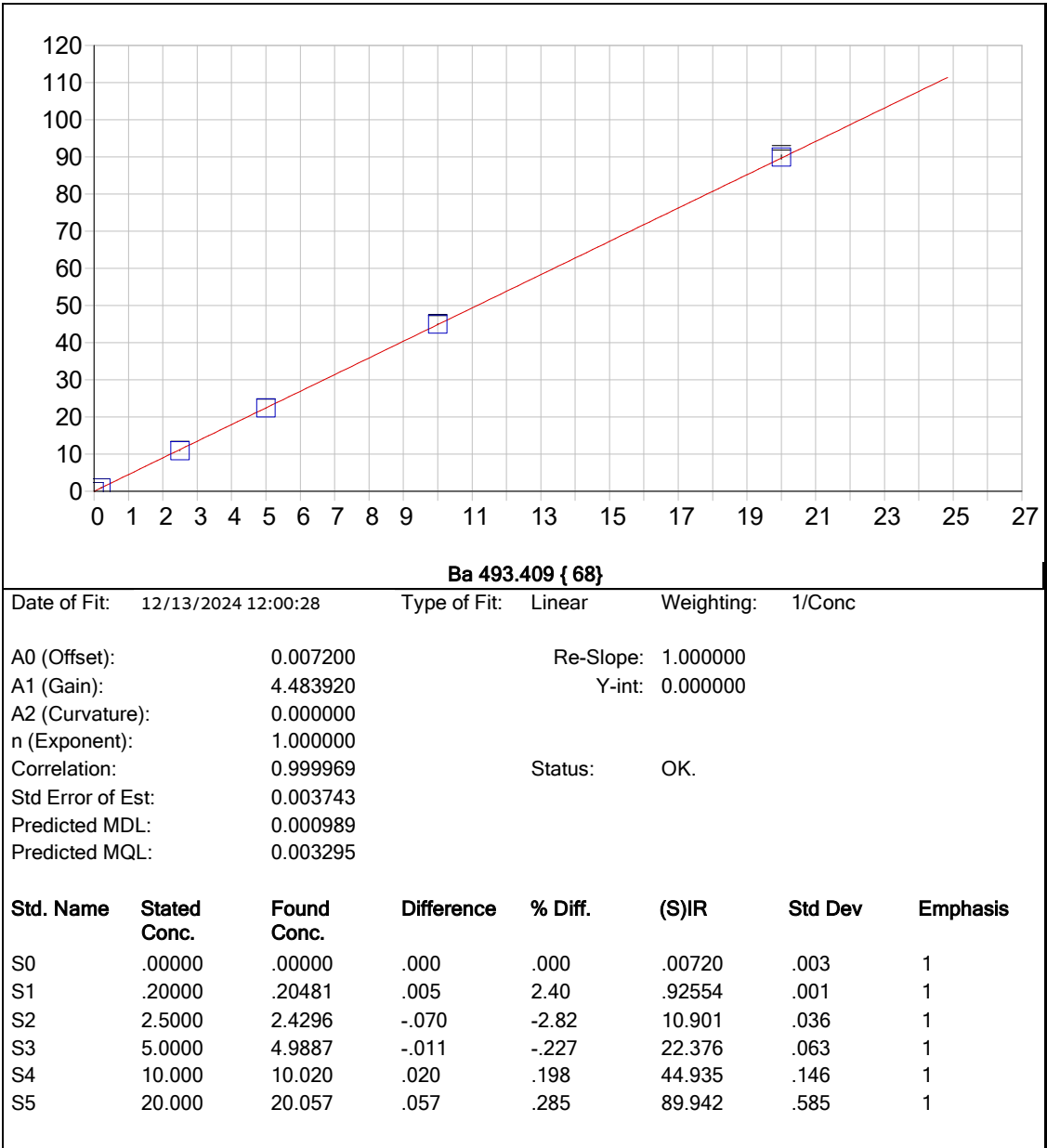


Date of Fit: 12/13/2024 12:00:28      Type of Fit: Linear      Weighting: 1/Conc

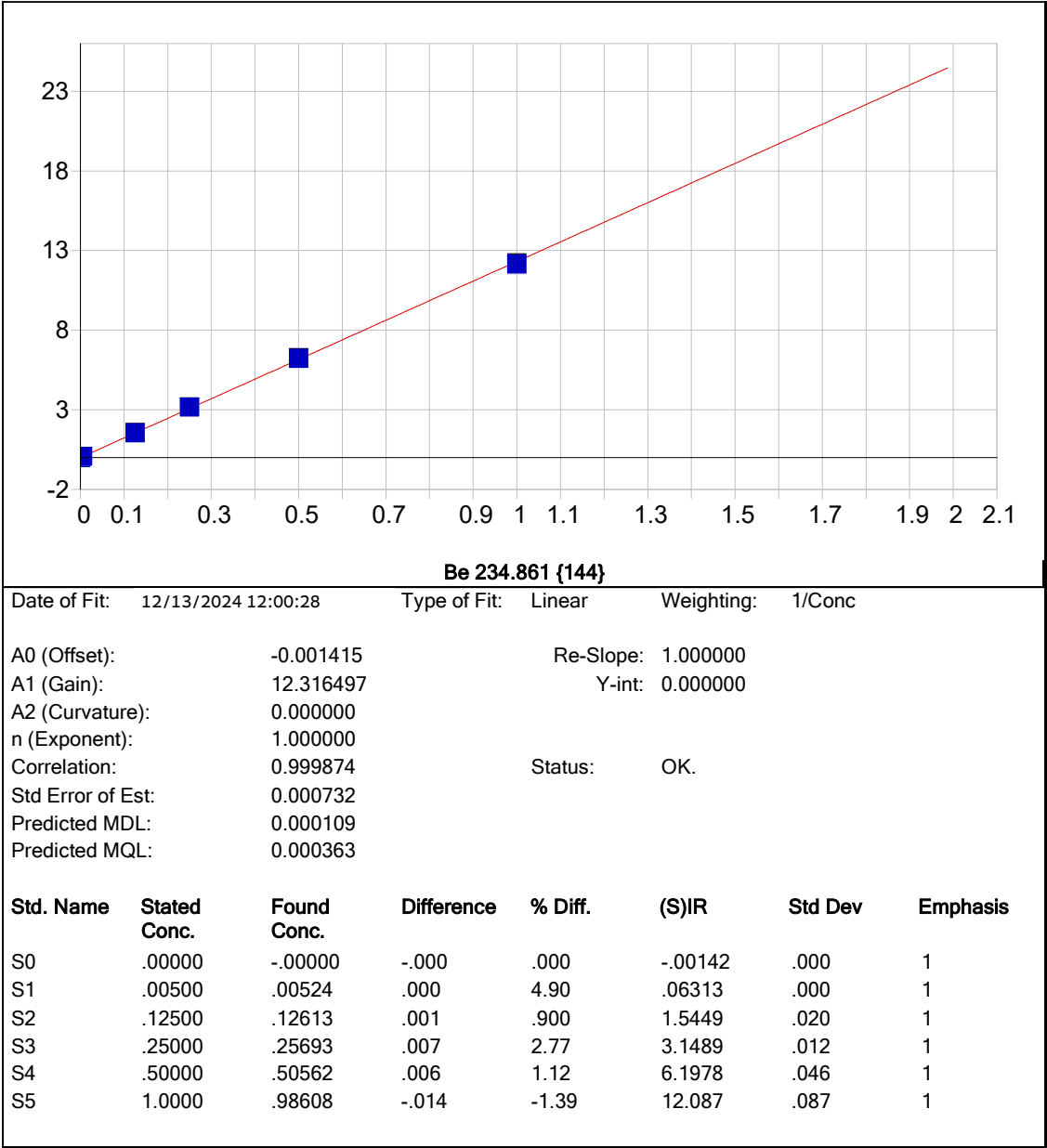
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A1 (Gain): 0.071410      Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.998311      Status: OK.  
Std Error of Est: 0.000129  
Predicted MDL: 0.004136  
Predicted MQL: 0.013785

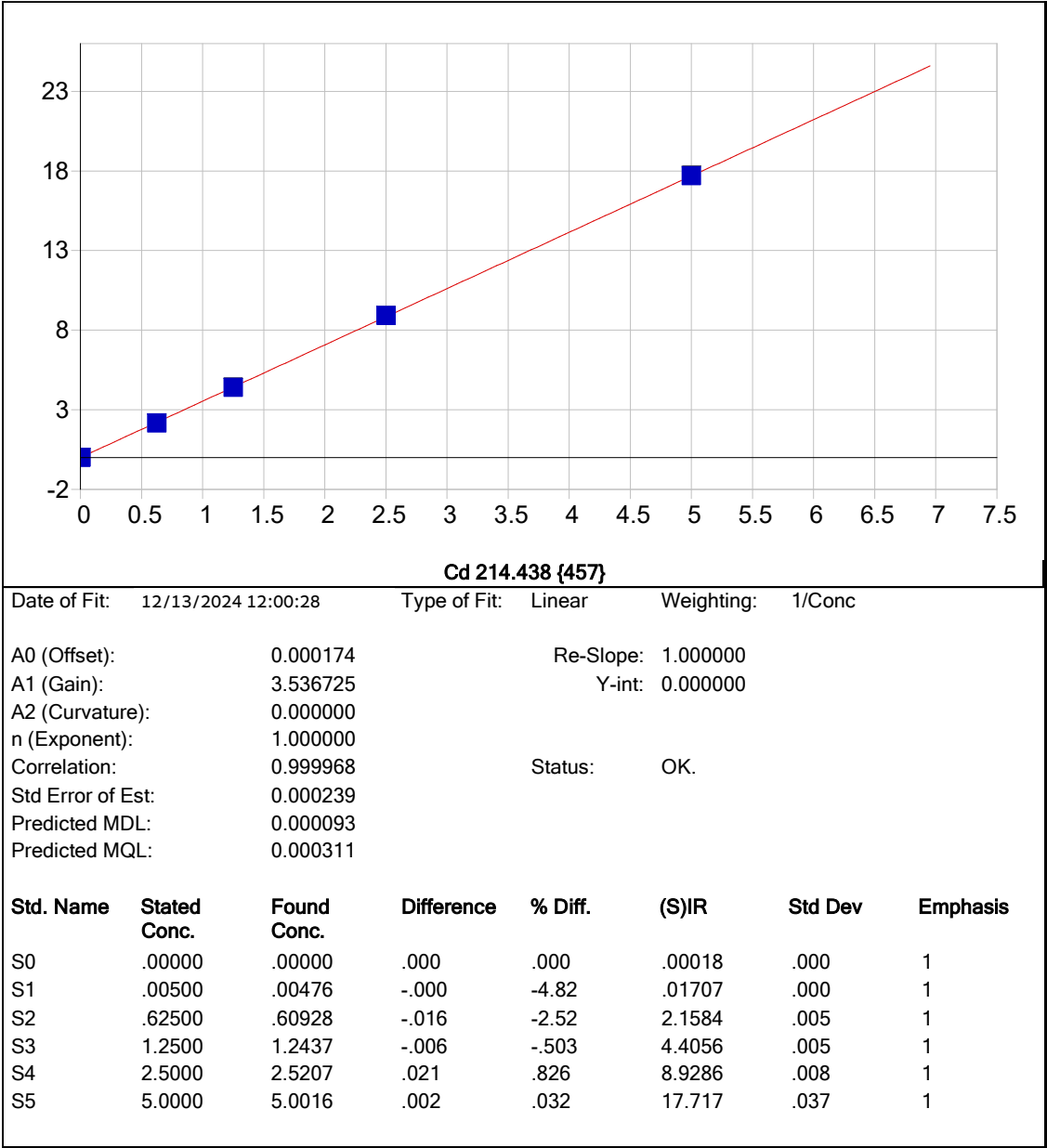


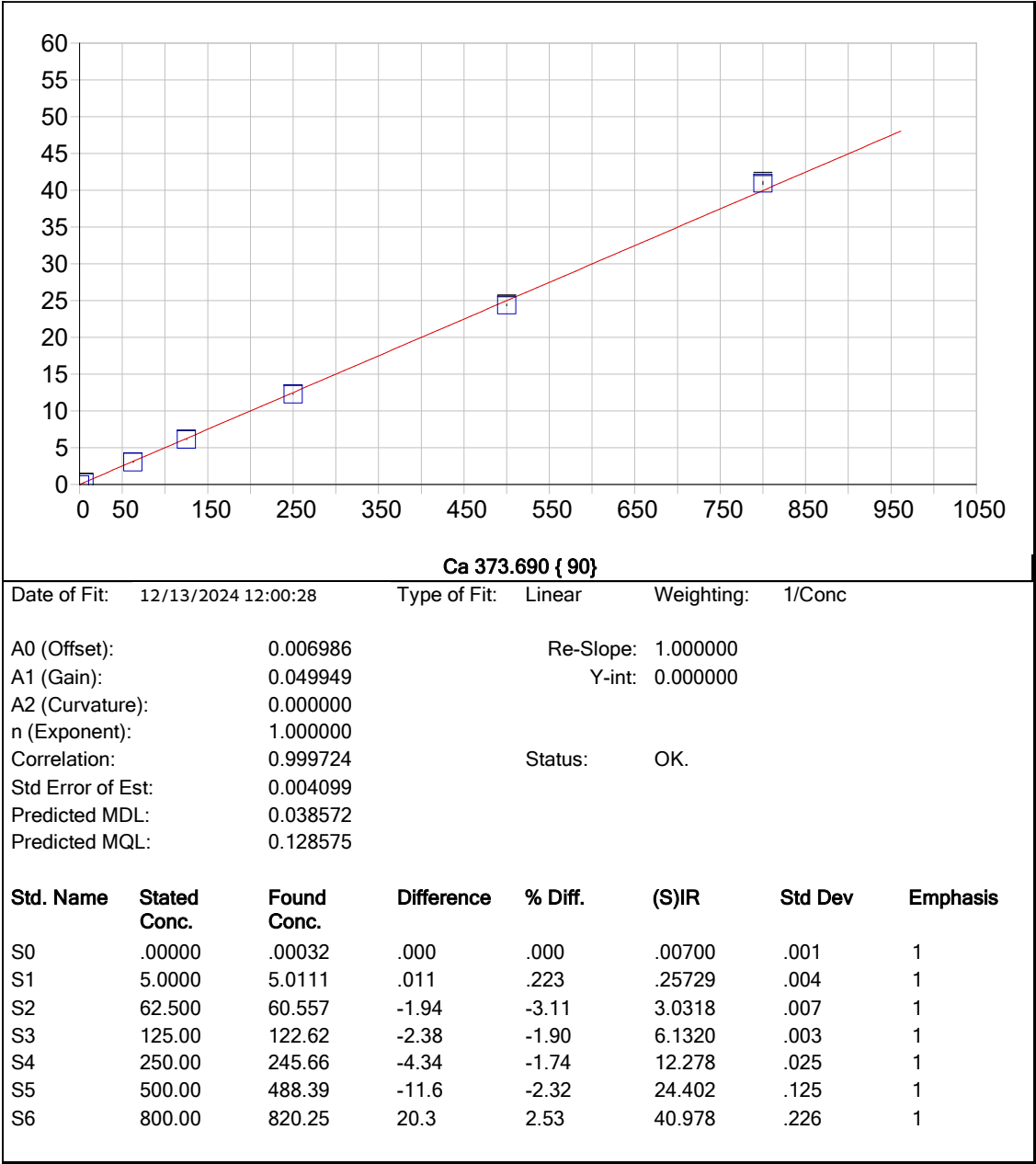




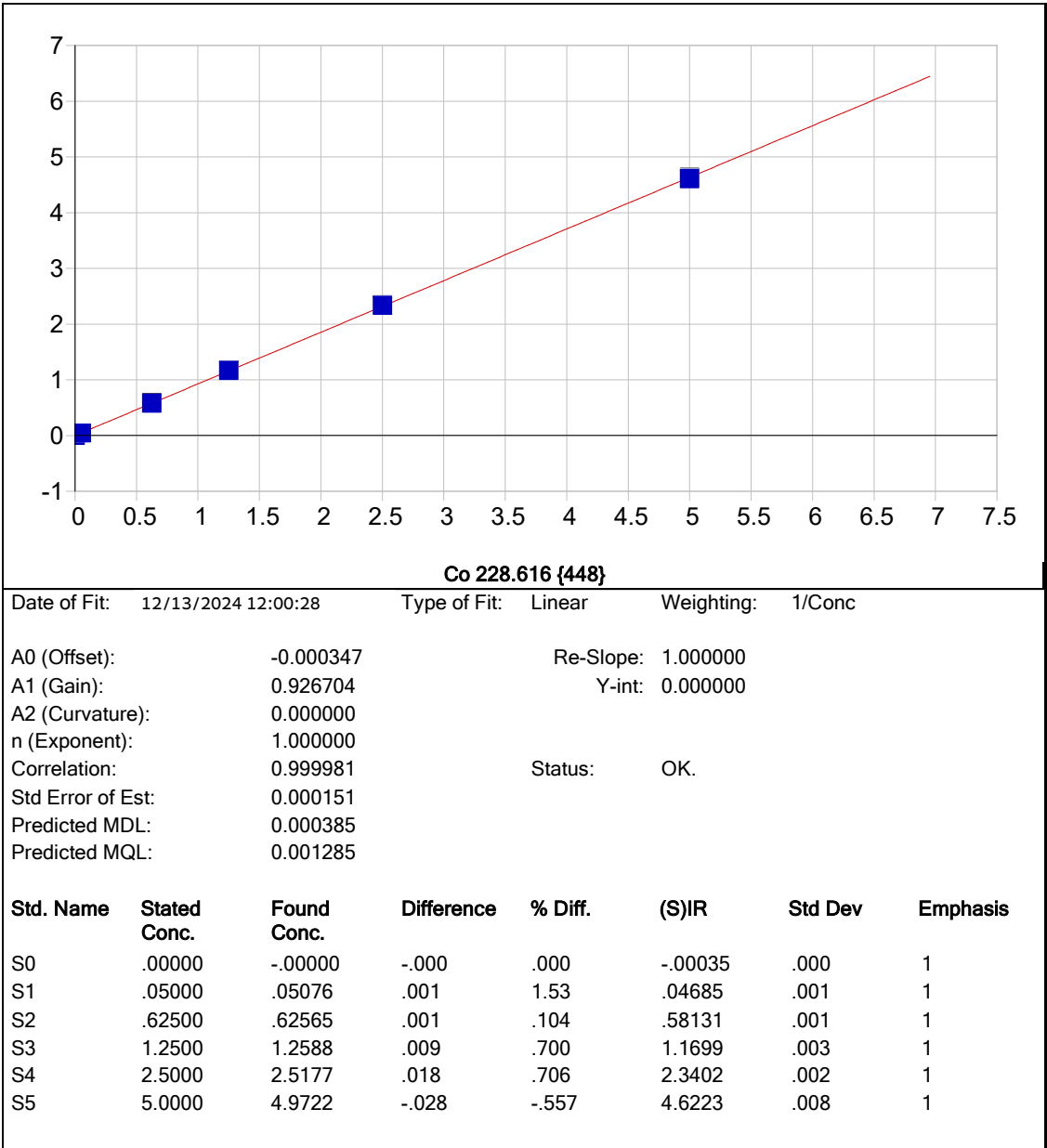


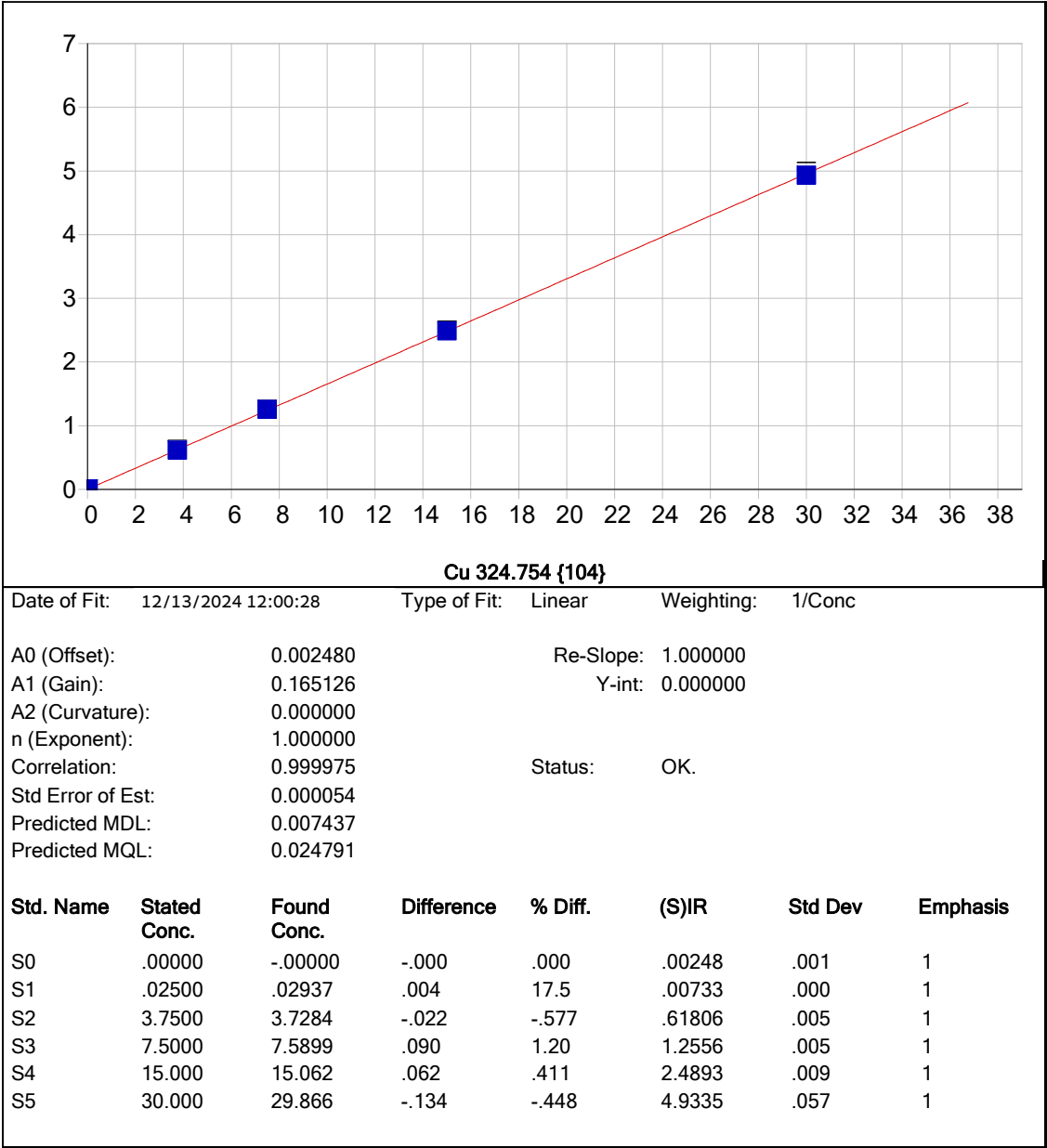


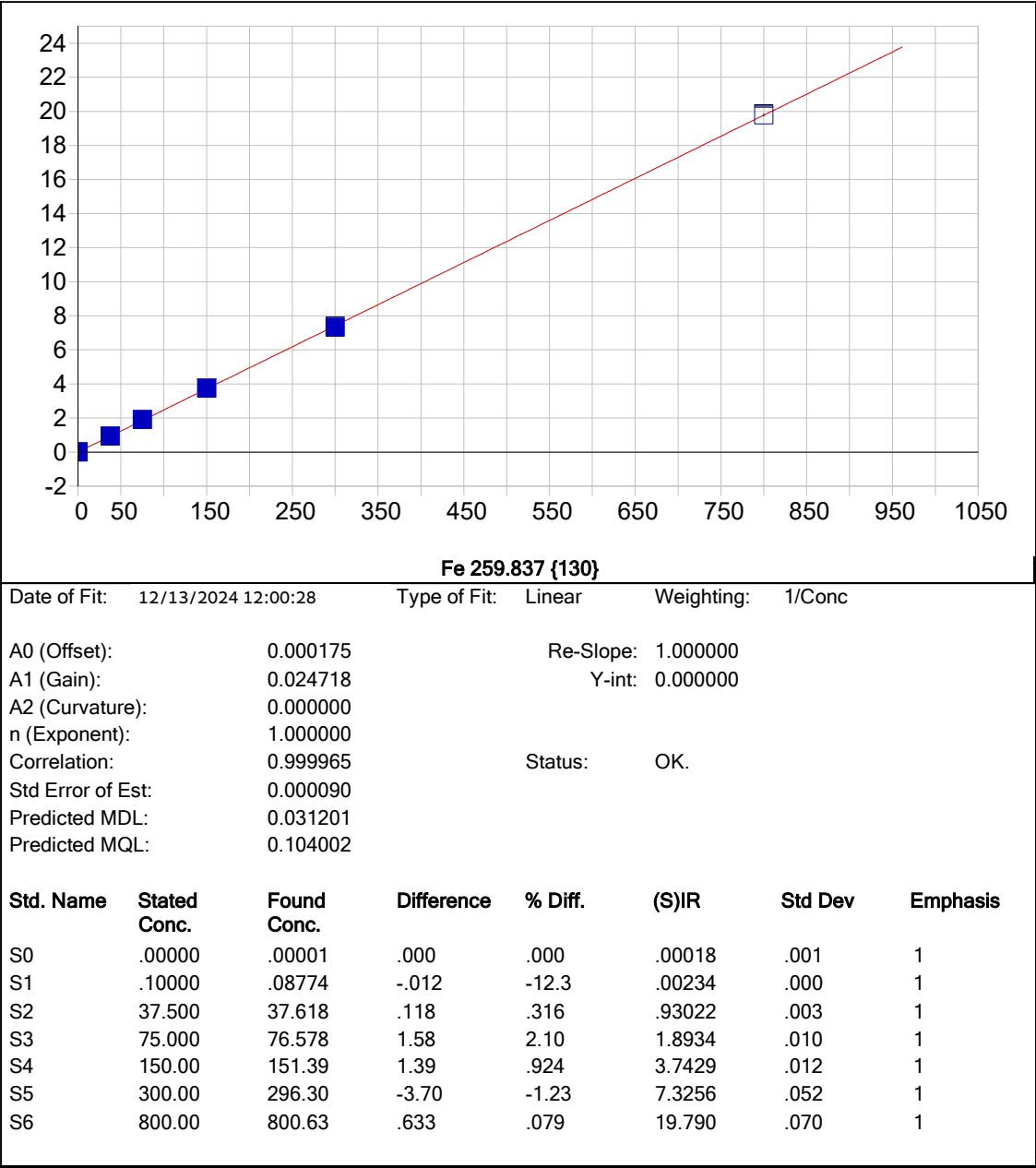


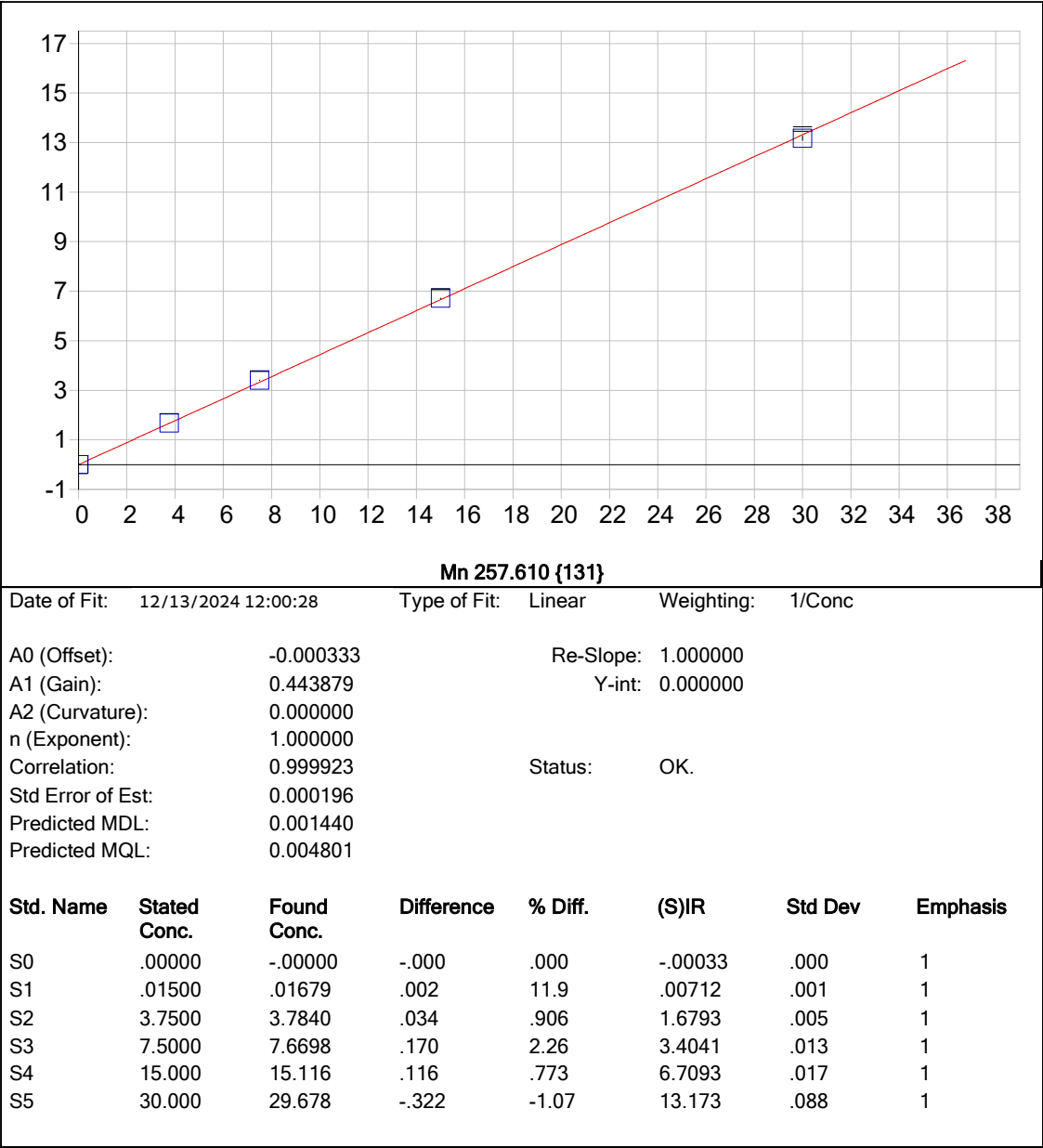




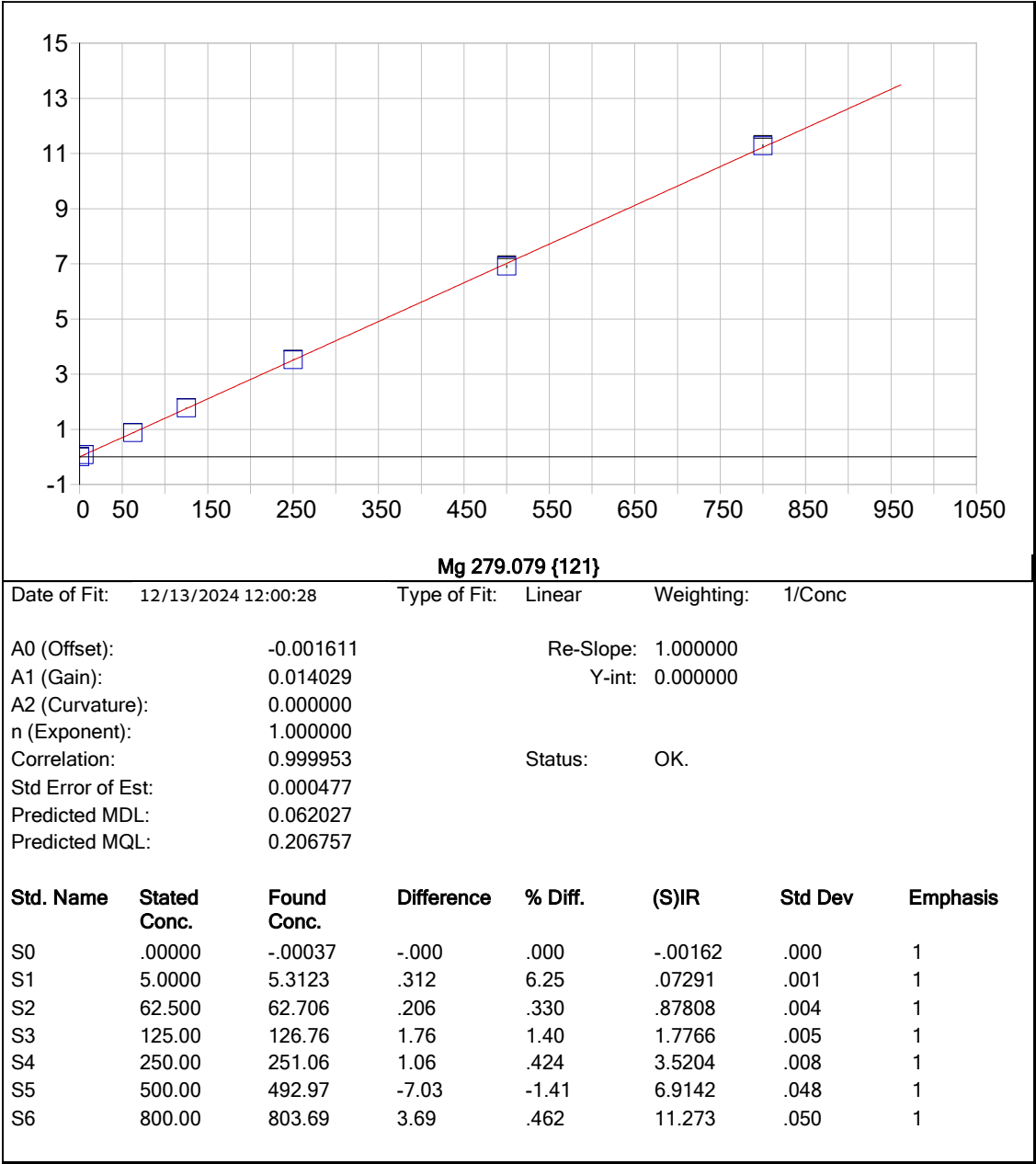


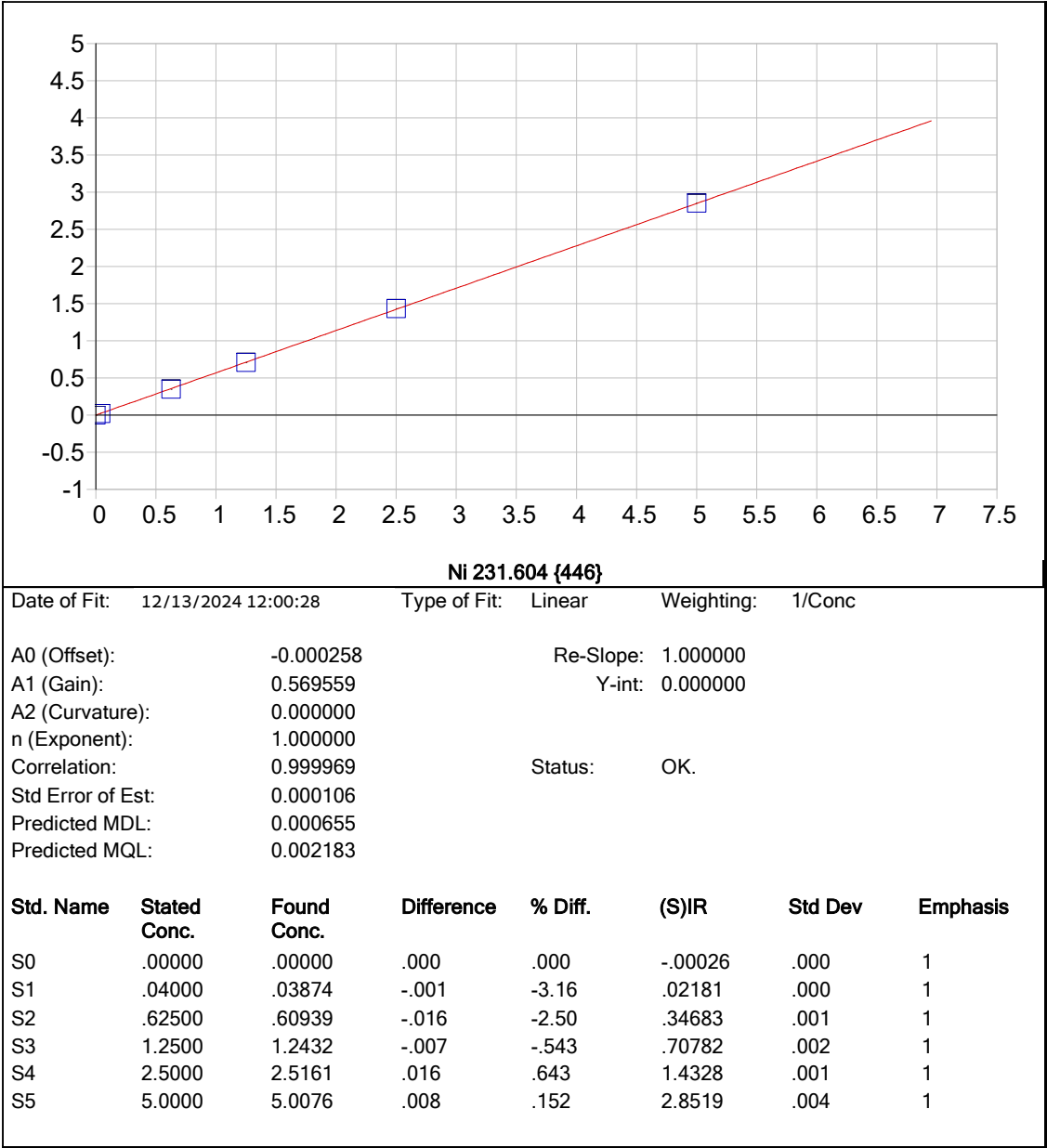




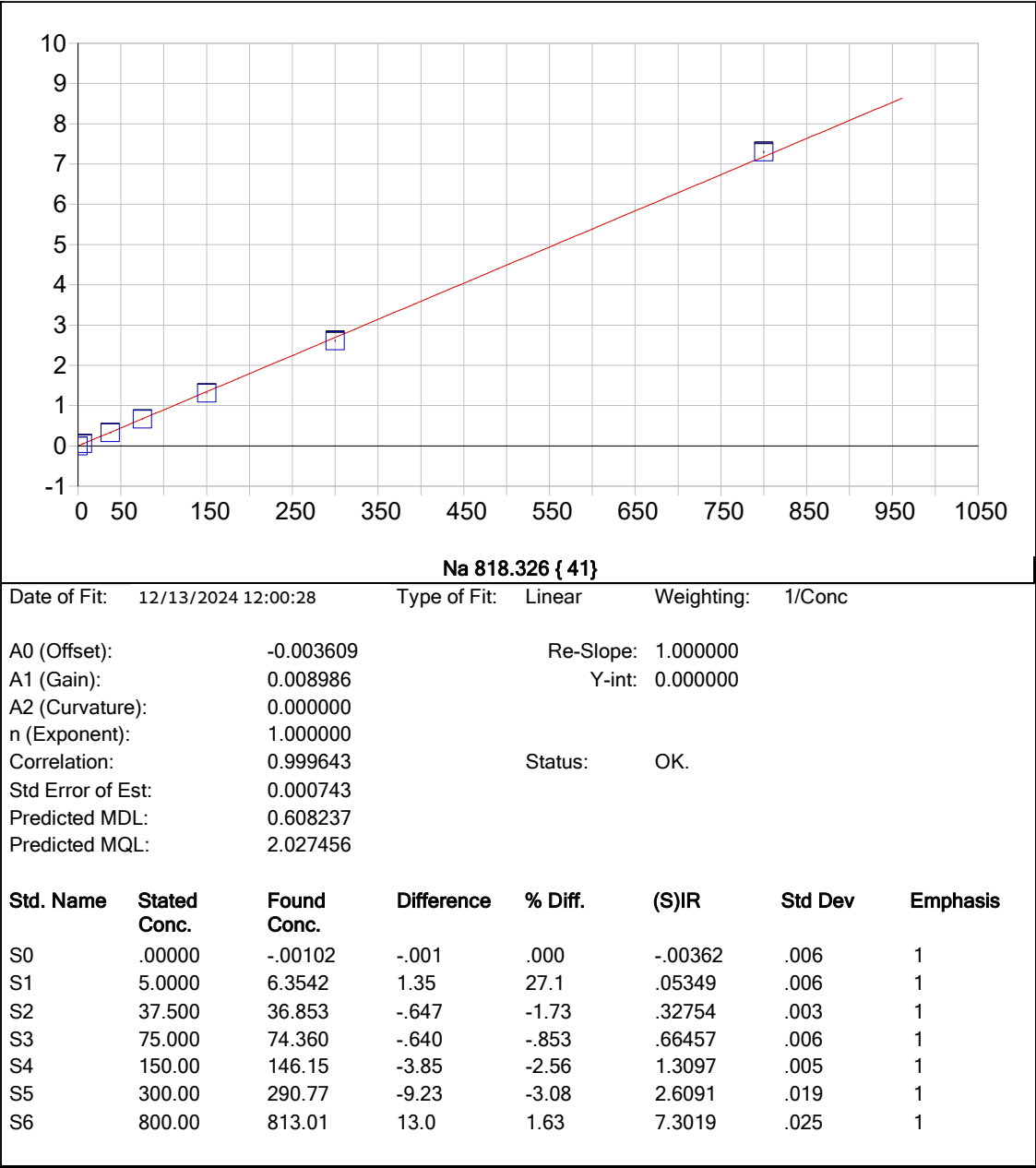


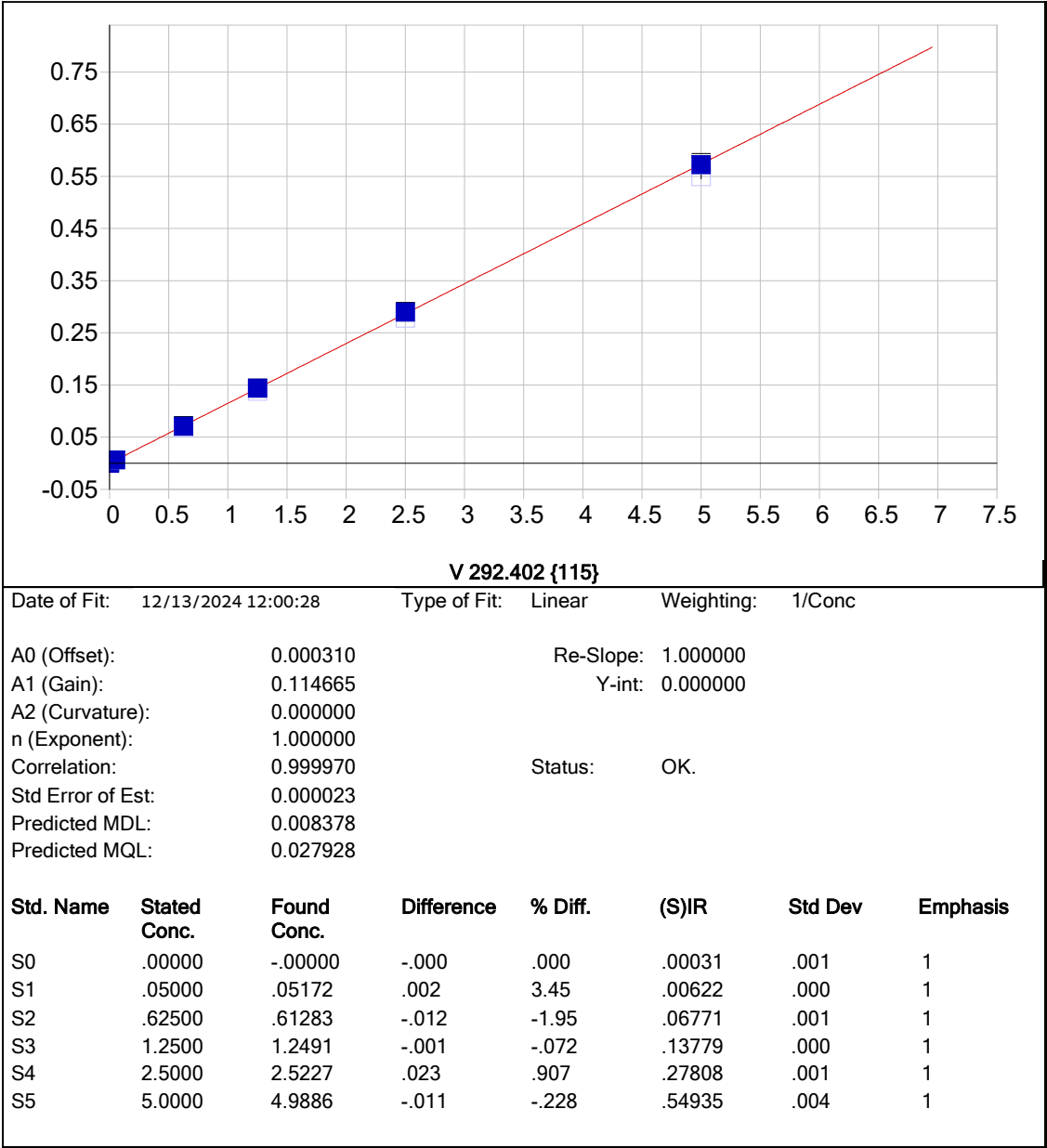


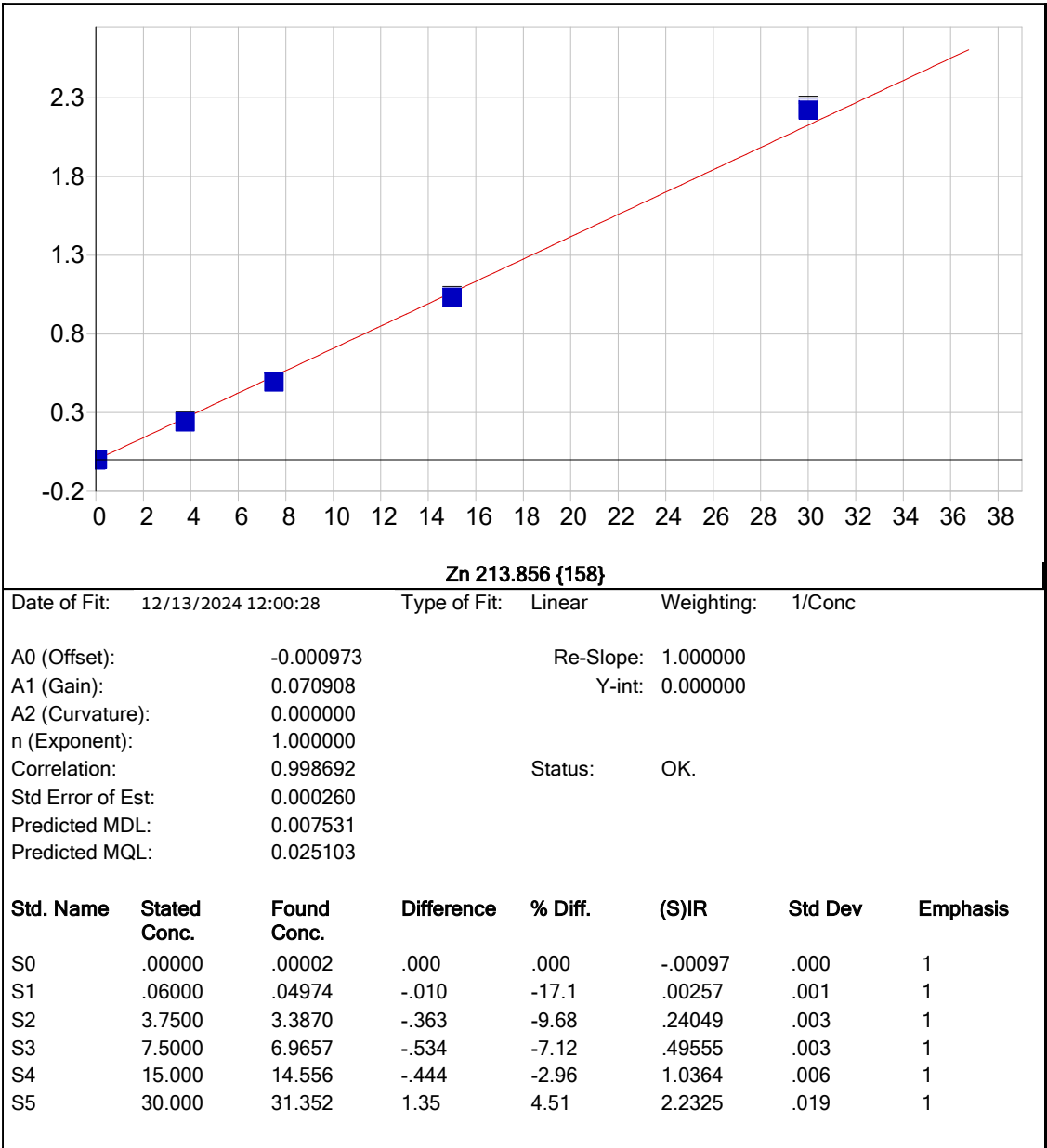






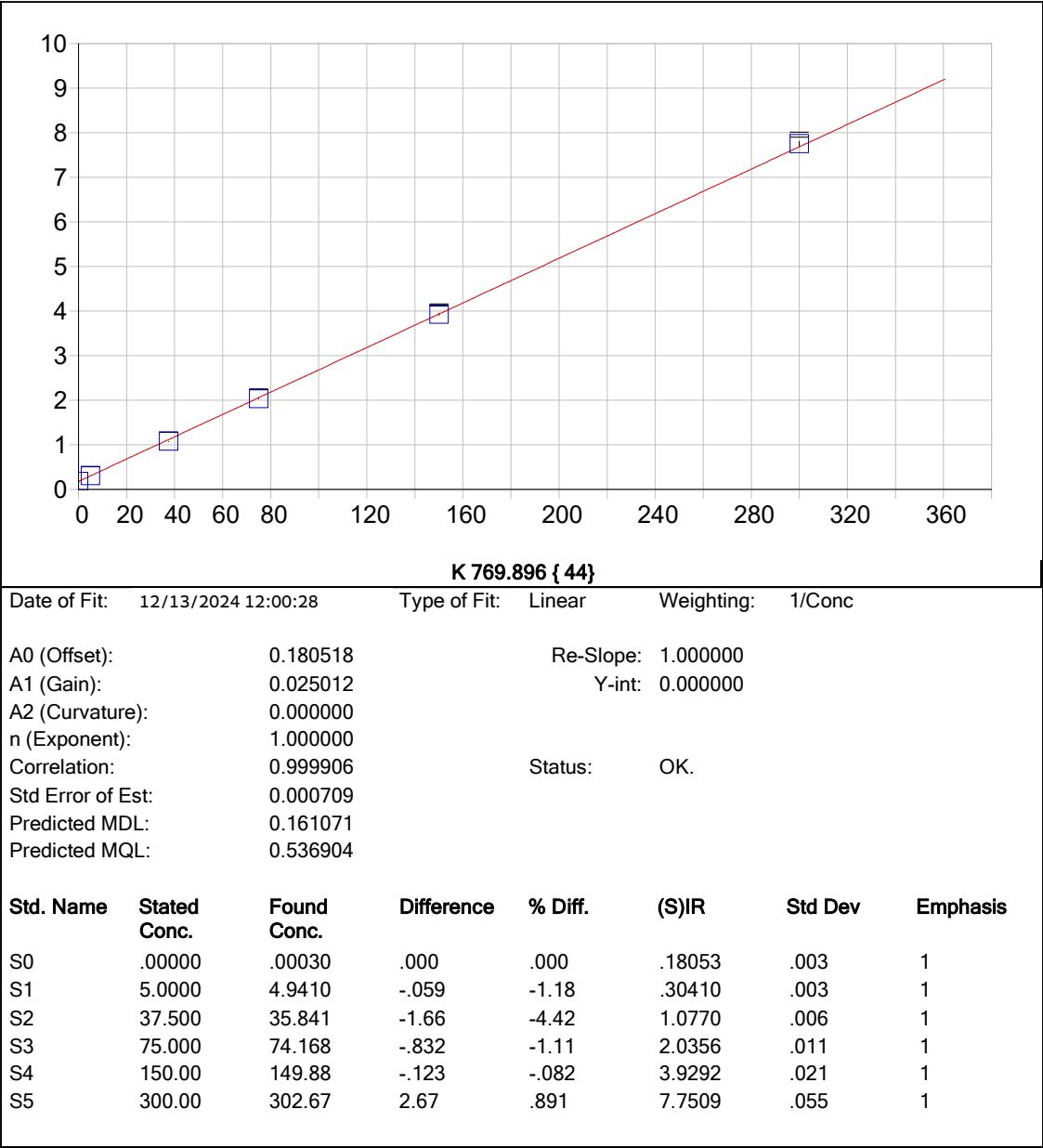


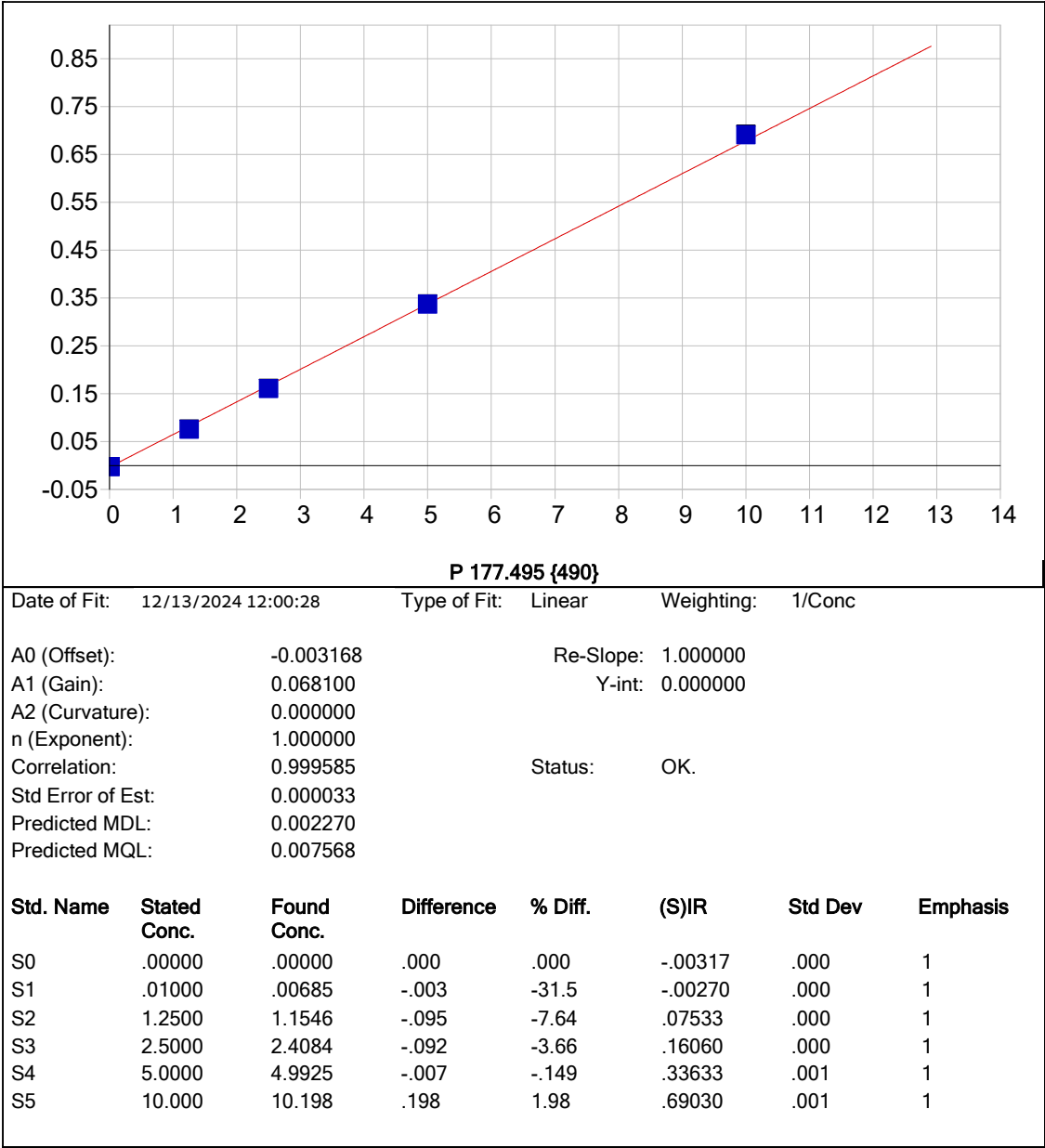




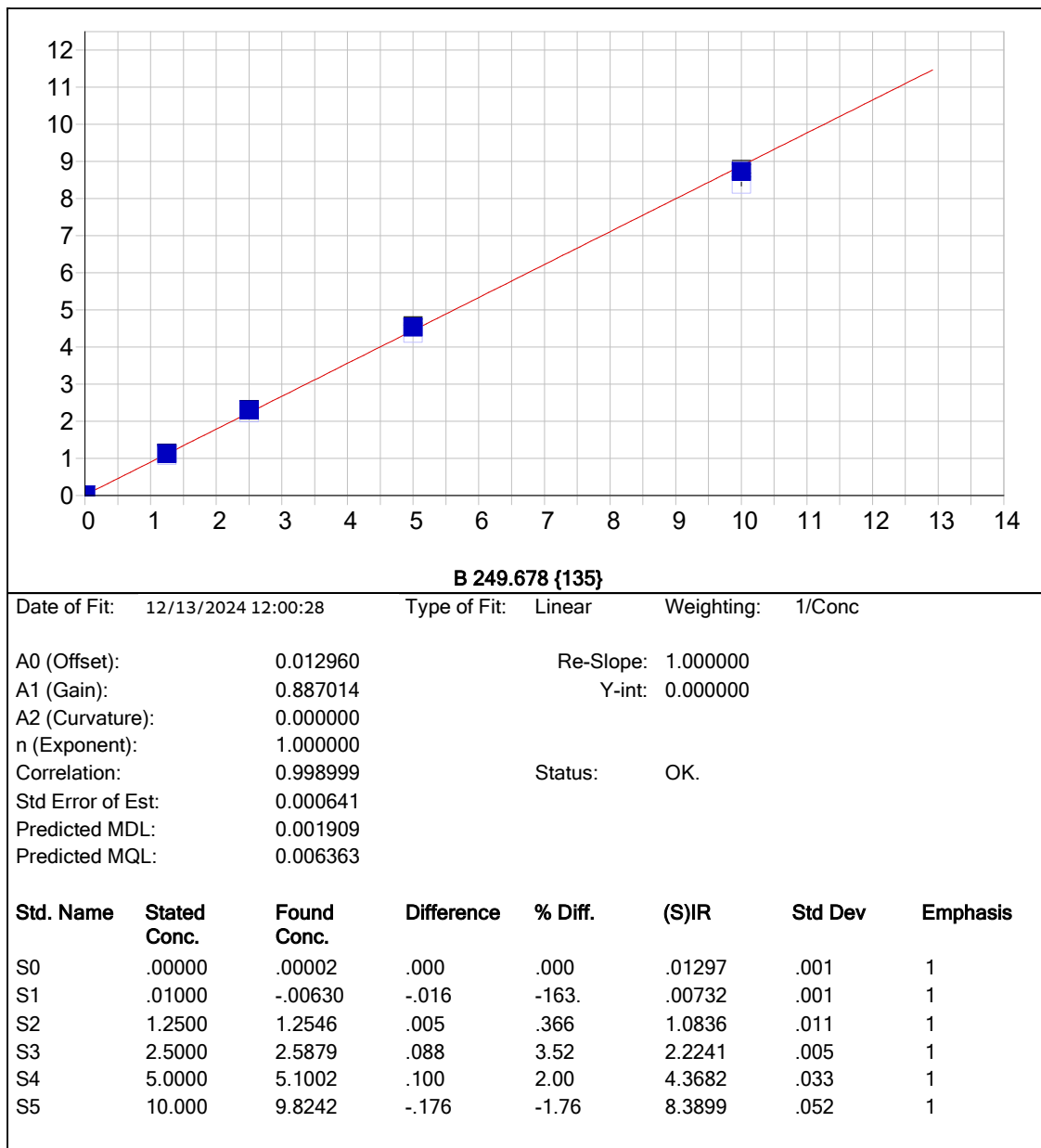
Date of Fit: 12/13/2024 12:00:28      Type of Fit: Linear      Weighting: 1/Conc

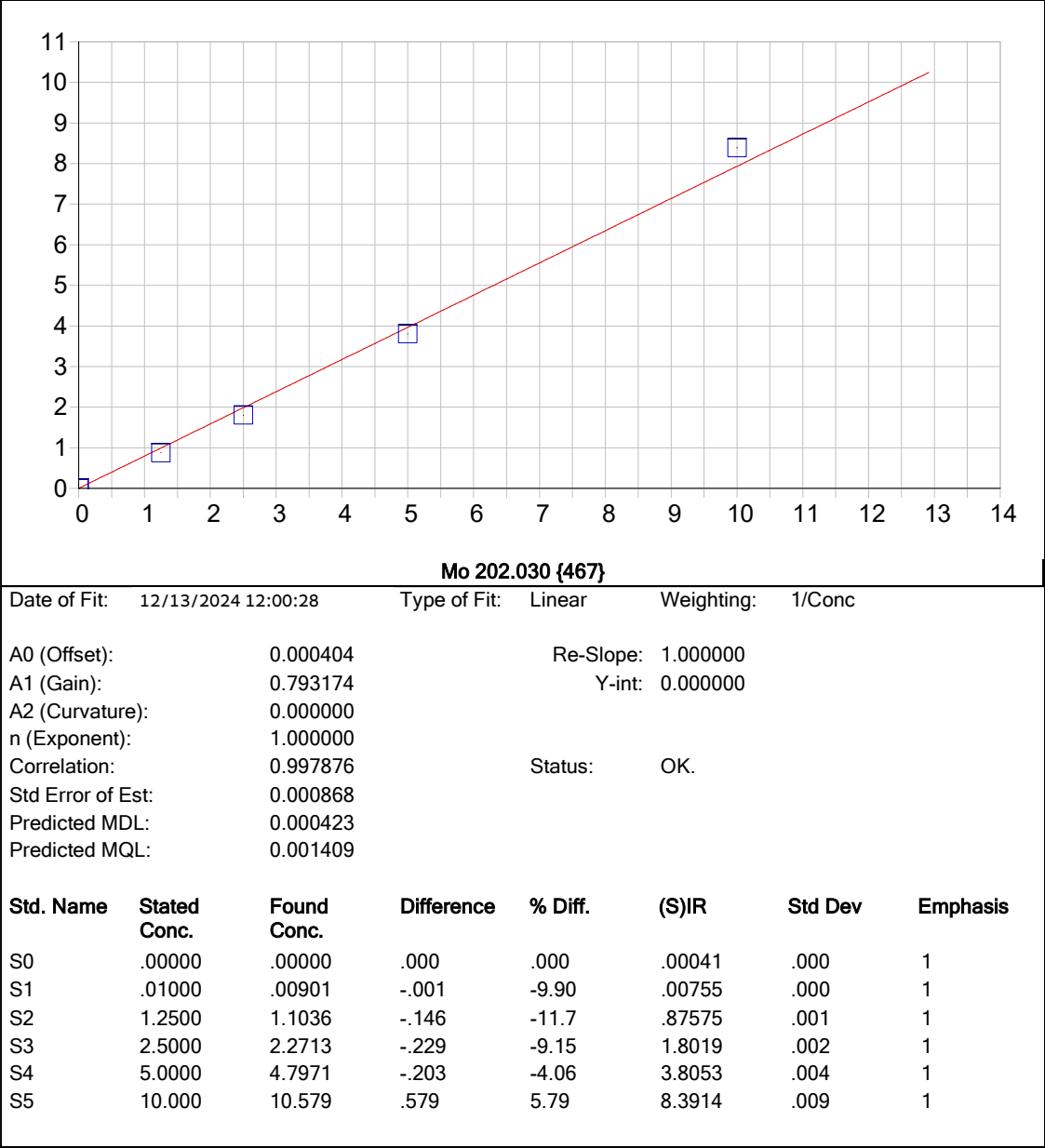
A0 (Offset): -0.000973      Re-Slope: 1.000000  
A1 (Gain): 0.070908      Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.998692      Status: OK.  
Std Error of Est: 0.000260  
Predicted MDL: 0.007531  
Predicted MQL: 0.025103

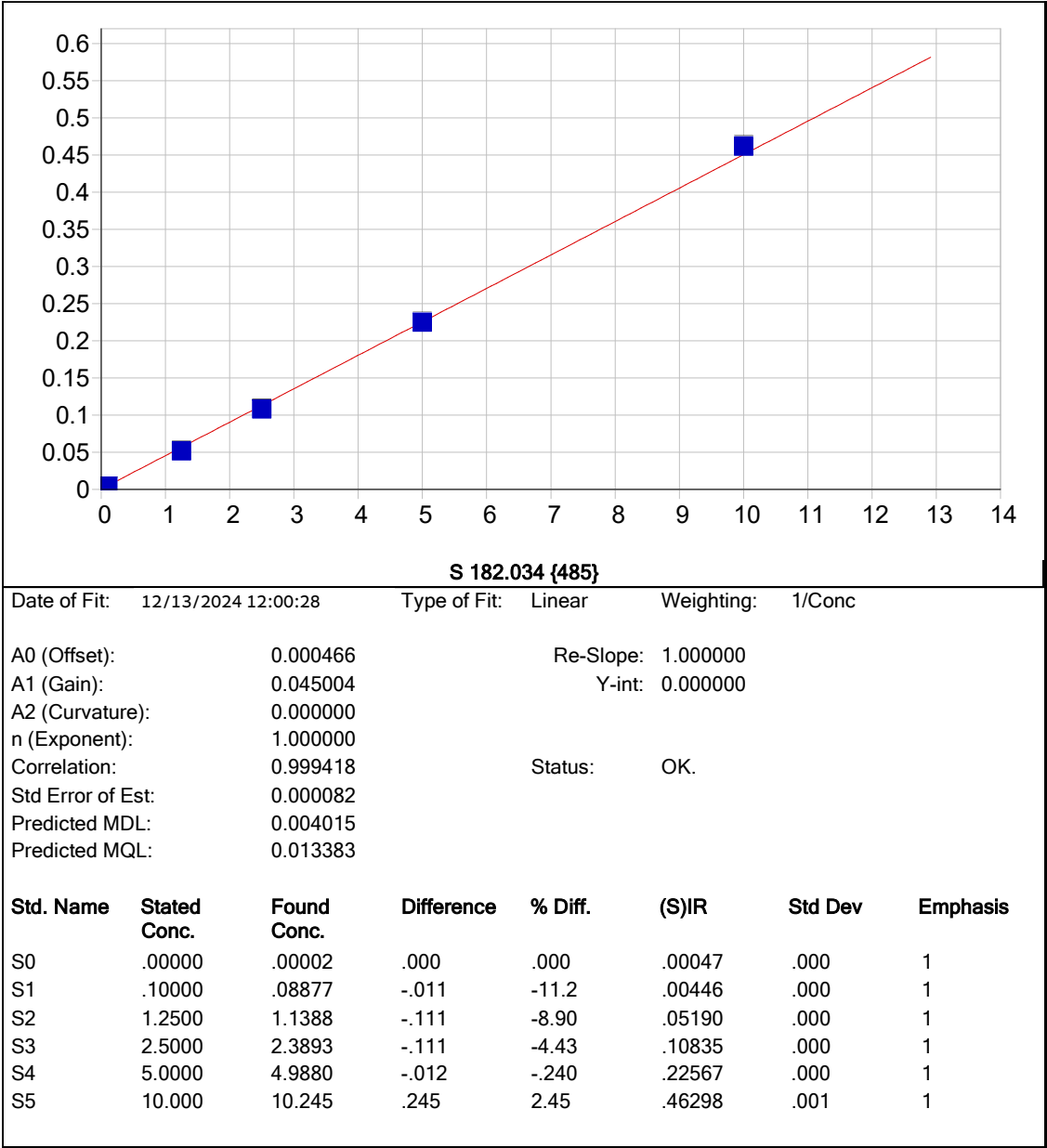


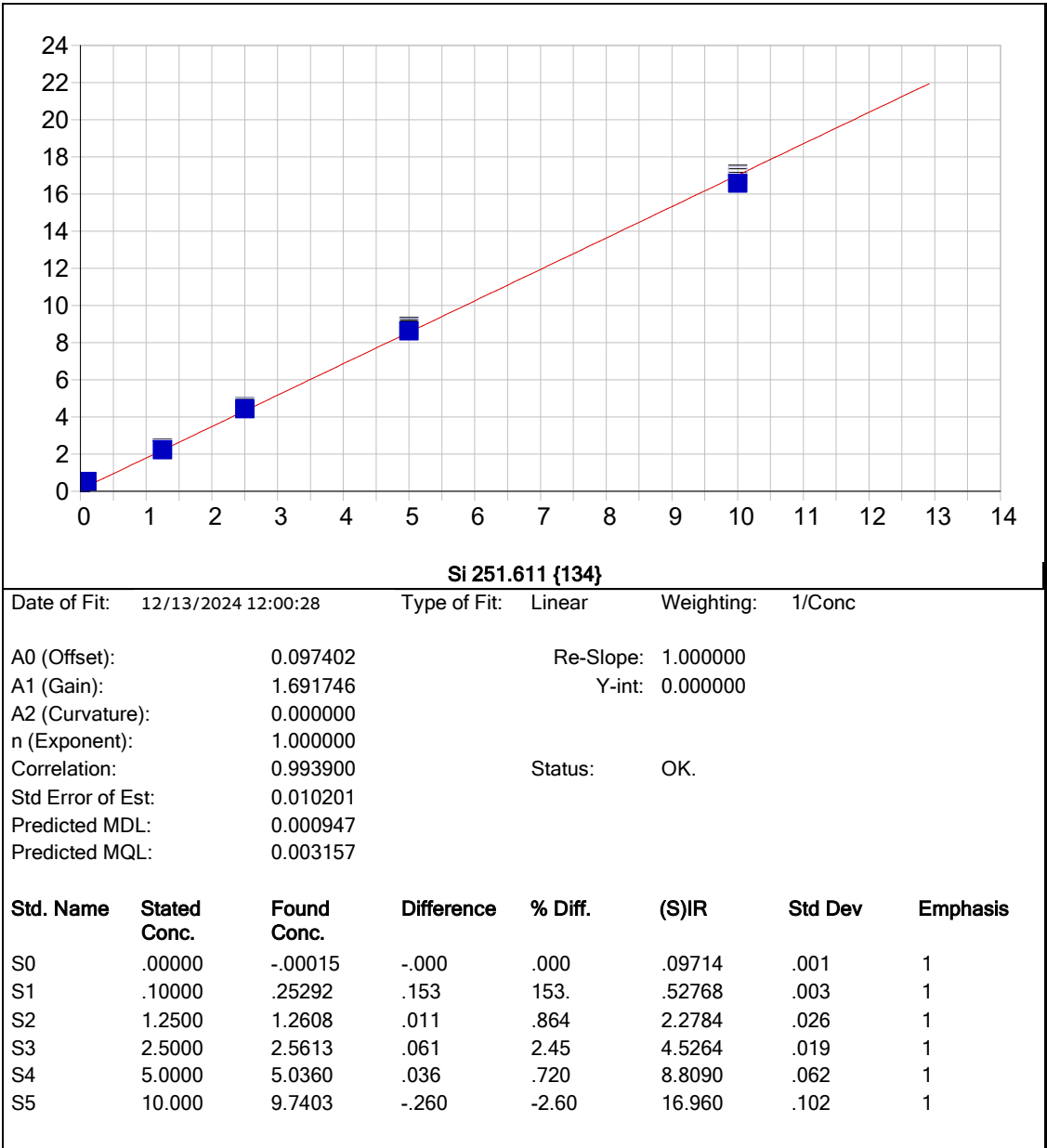


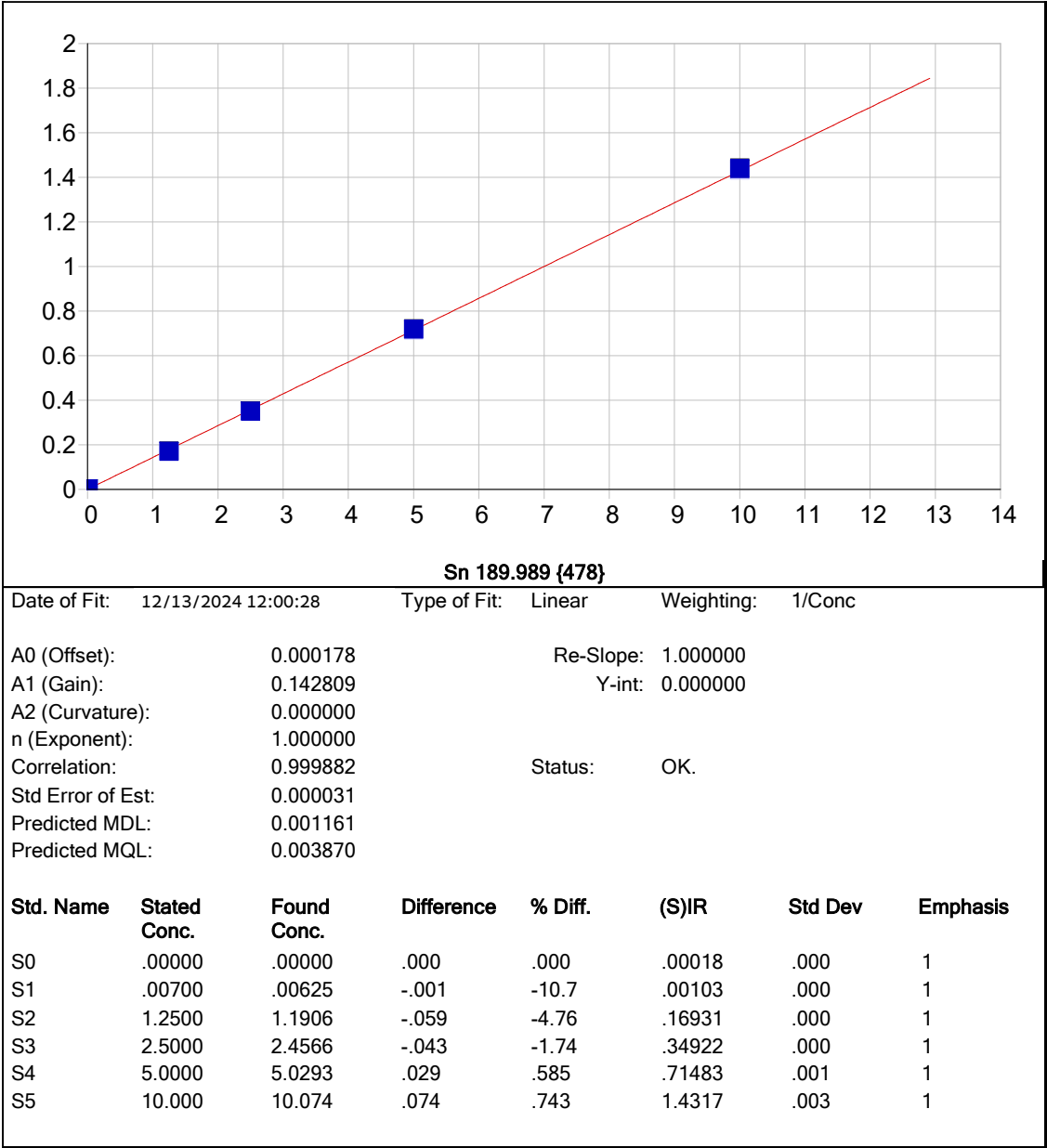


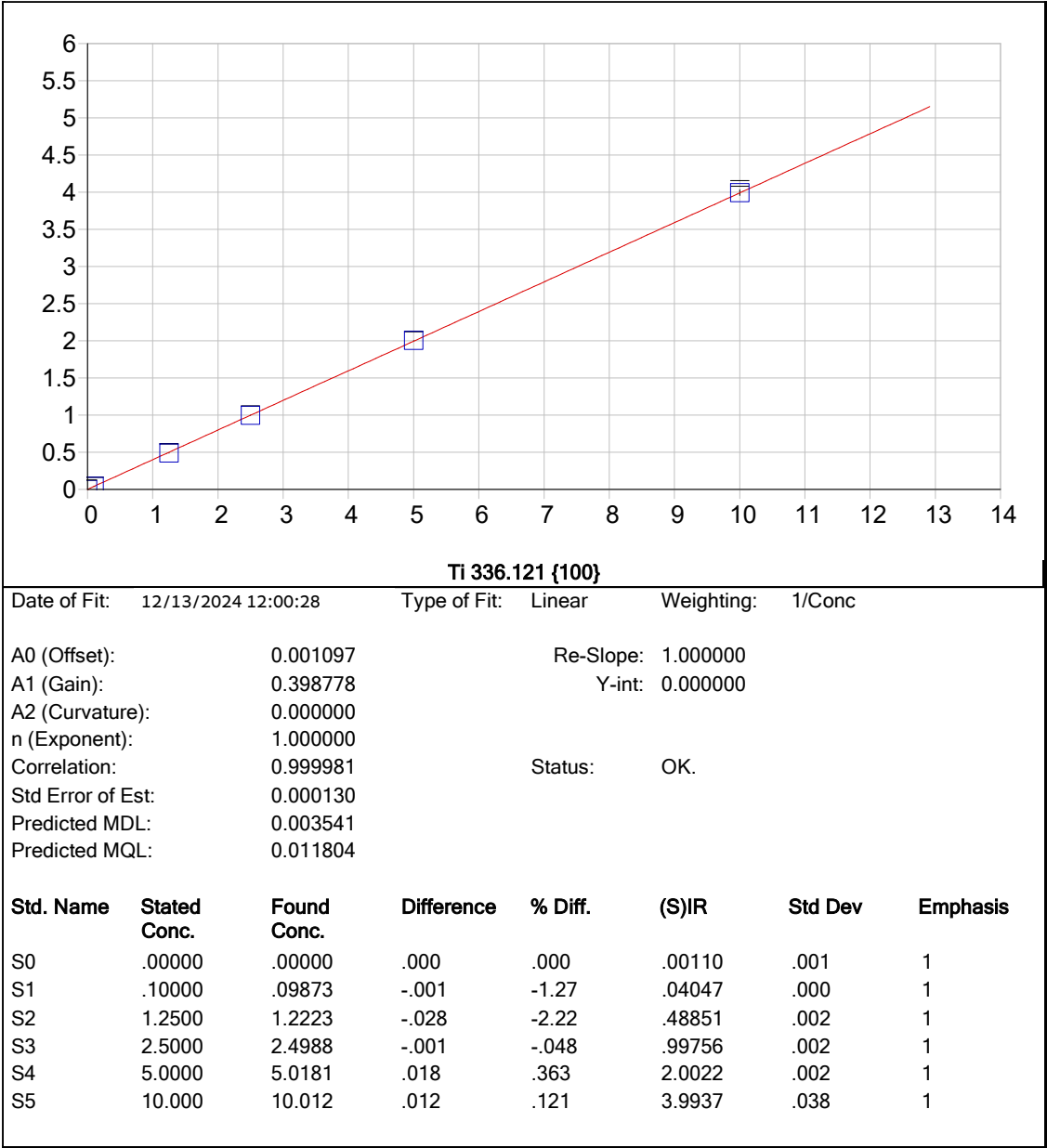




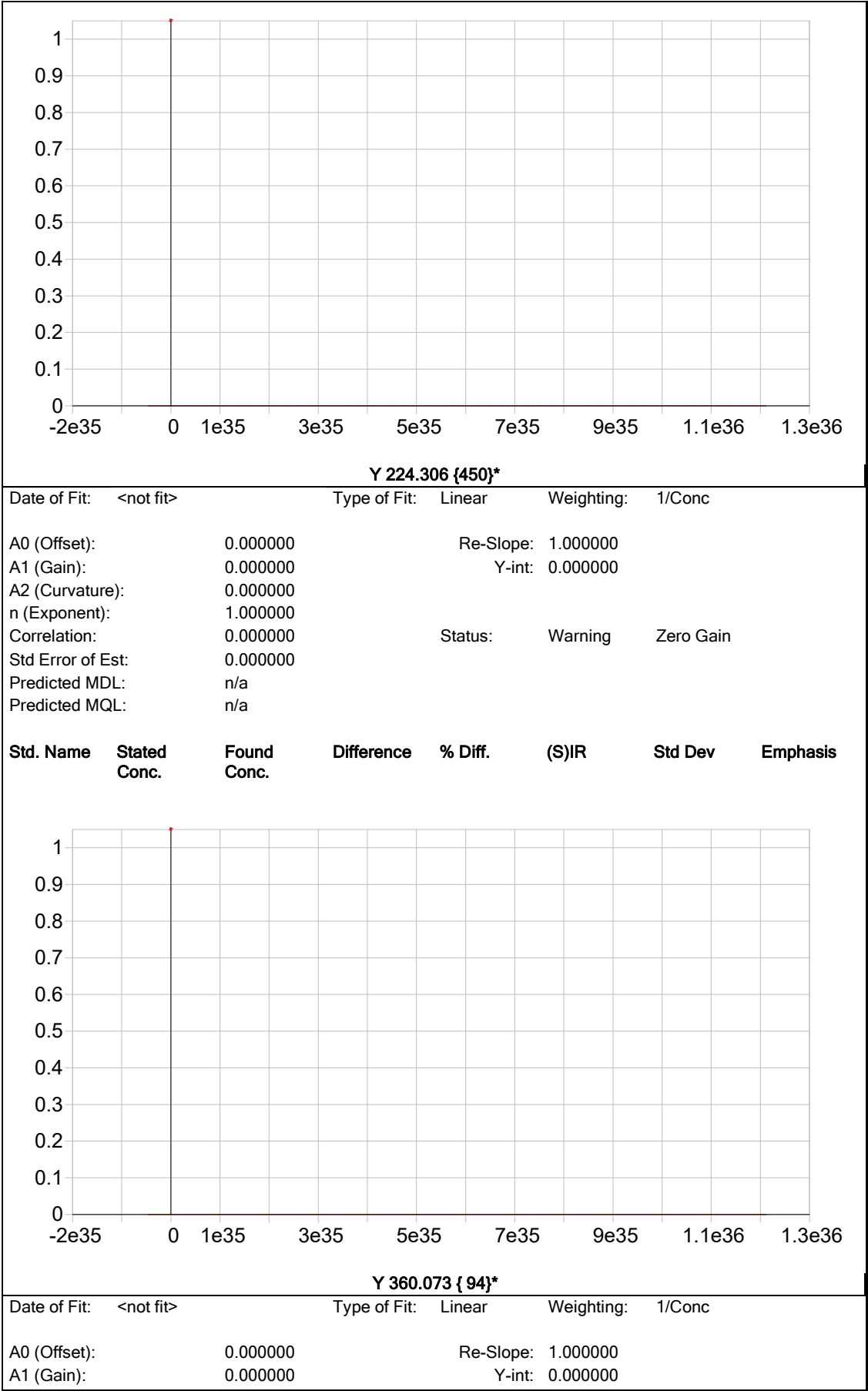




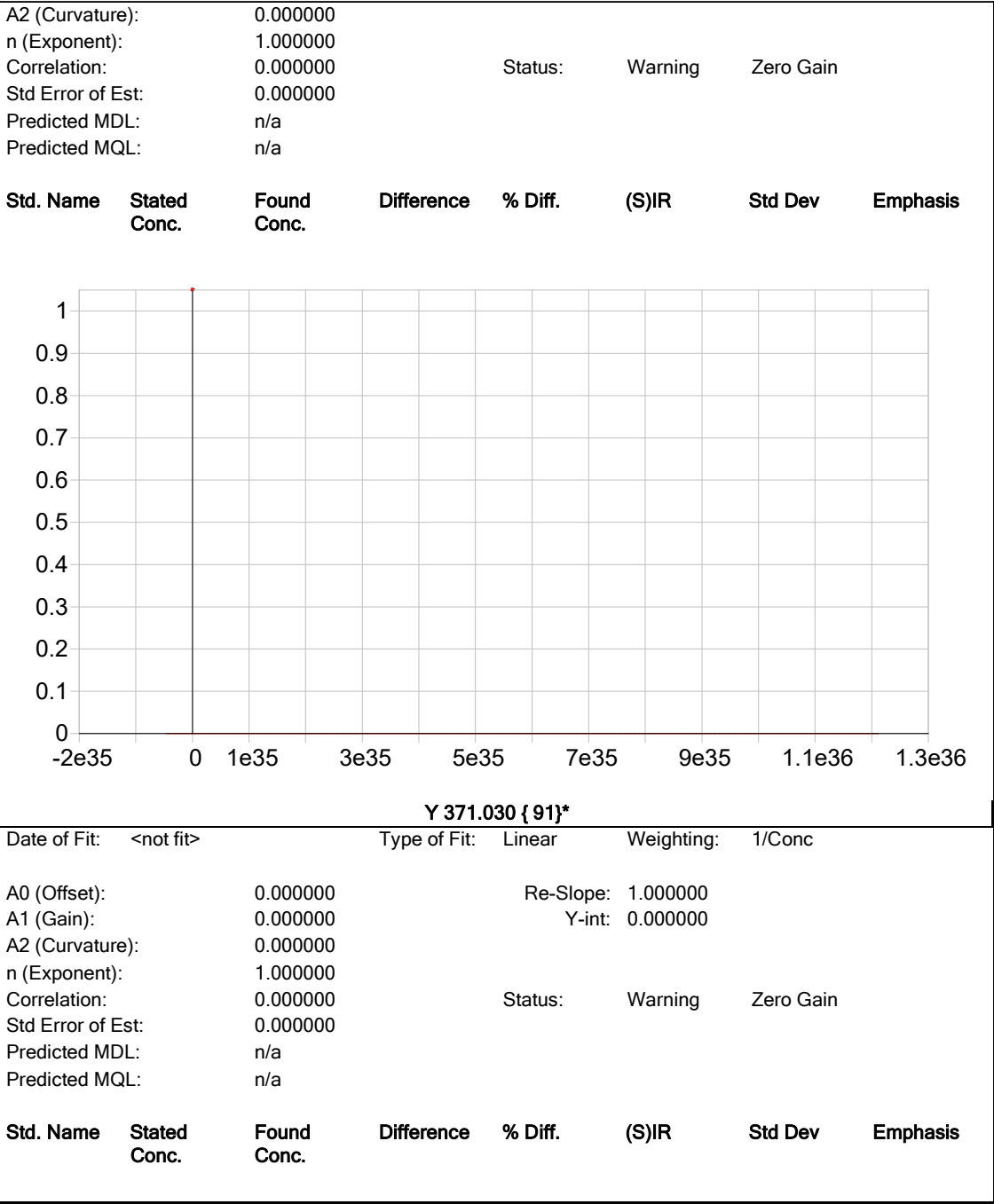


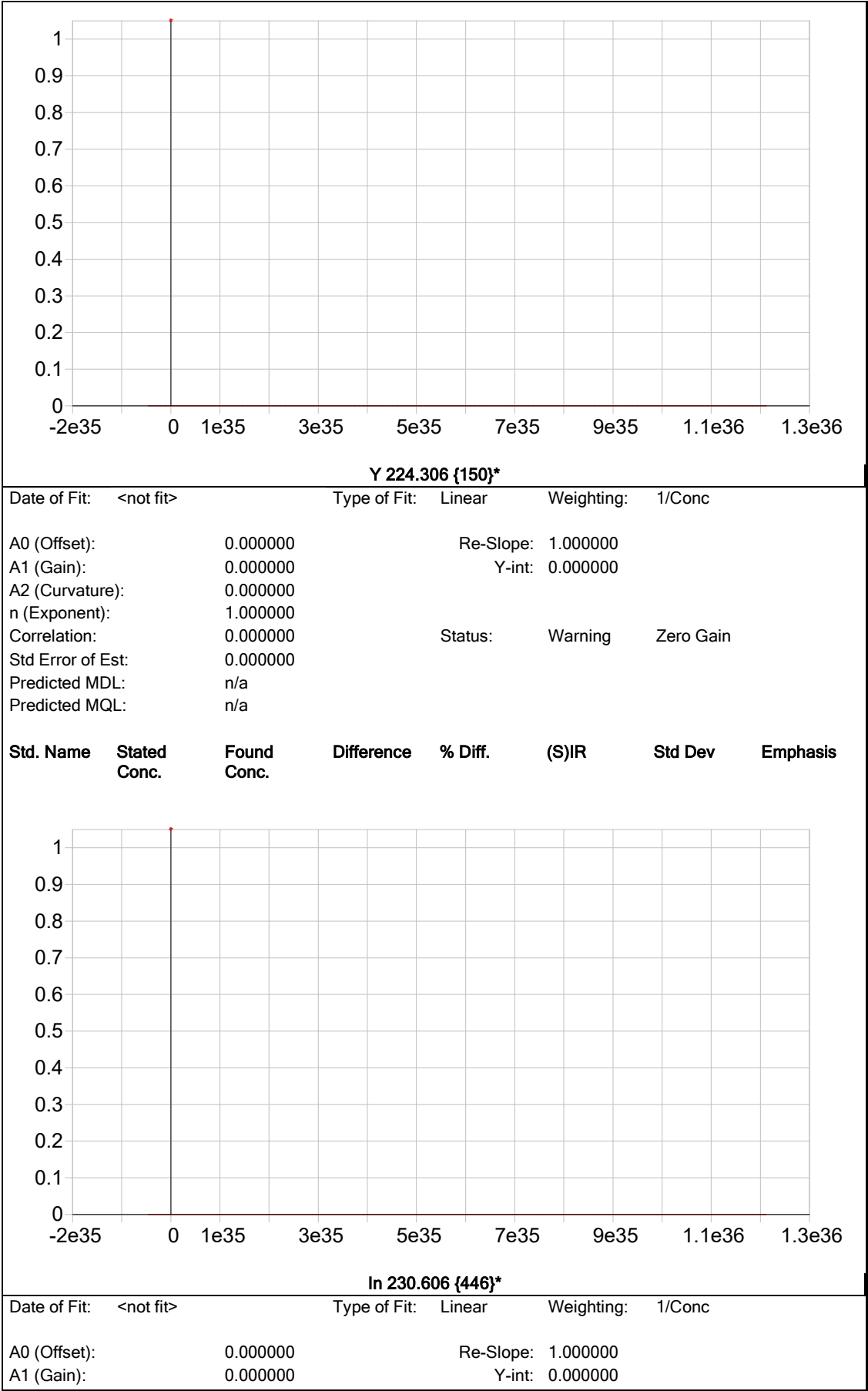


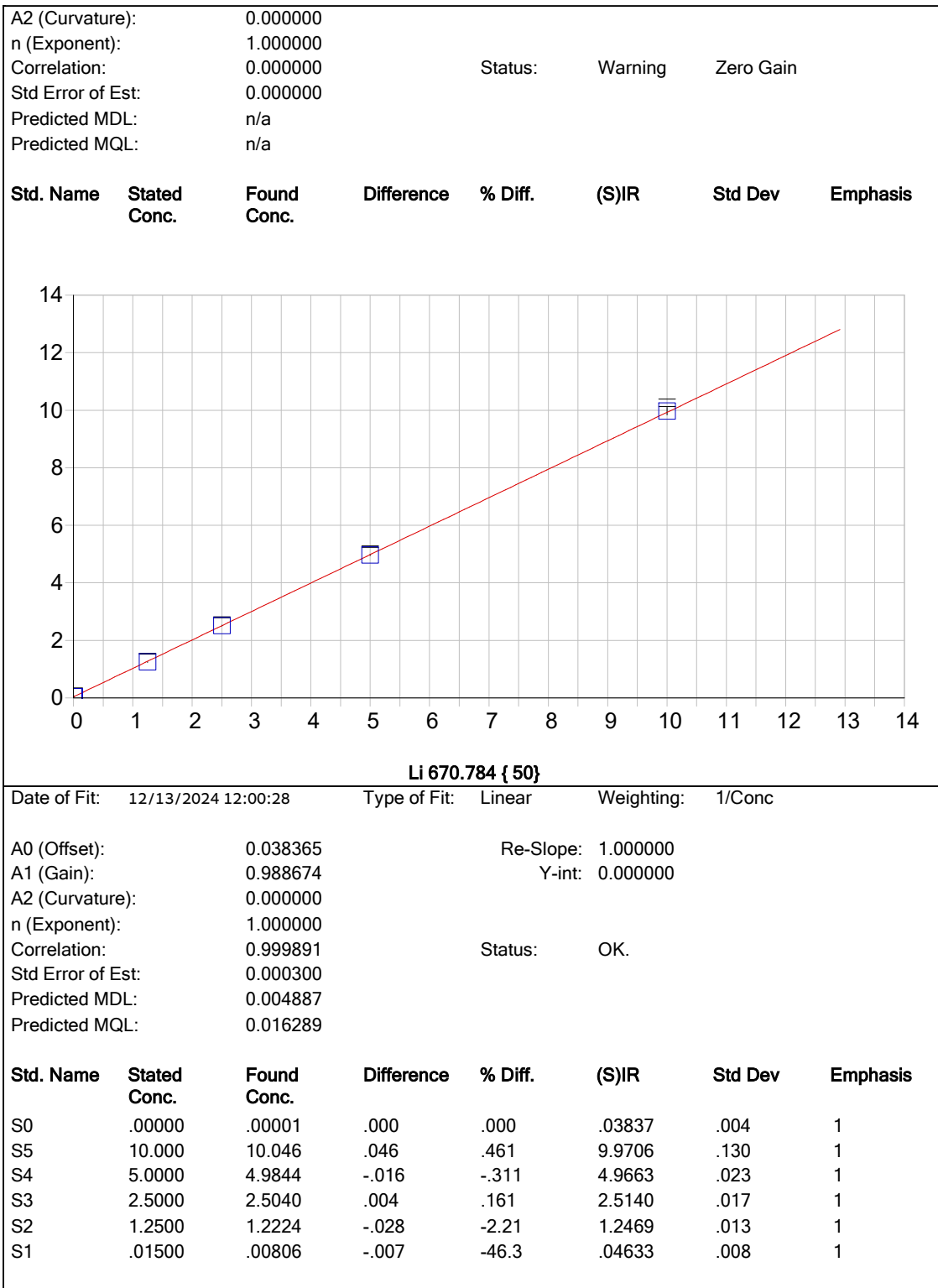












Sample Name: S0      Acquired: 12/13/2024 11:23:34      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S0      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | -.43397 | -.00030 | .00022  | .00019  | .00026  | -.00124 | .00720  | -.00142 |
| Stddev | .40424  | .00013  | .00024  | .00026  | .00028  | .00220  | .00322  | .00032  |
| %RSD   | 93.150  | 43.123  | 106.22  | 141.32  | 106.12  | 177.40  | 44.662  | 22.460  |
| #1     | .02750  | -.00019 | .00049  | .00049  | .00014  | -.00378 | .00684  | -.00106 |
| #2     | -.60390 | -.00044 | .00013  | .00003  | .00007  | .00010  | .00418  | -.00155 |
| #3     | -.72551 | -.00027 | .00005  | .00004  | .00059  | -.00004 | .01058  | -.00165 |
| Elem   | Cd2144  | Ca3736  | Cr2677  | Co2286  | Cu3247  | Fe2598  | Mn2576  | Mg2790  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | .00018  | .00700  | .00033  | -.00035 | .00248  | .00018  | -.00033 | -.00162 |
| Stddev | .00019  | .00083  | .00022  | .00016  | .00064  | .00105  | .00048  | .00038  |
| %RSD   | 109.90  | 11.908  | 68.783  | 45.181  | 25.959  | 600.29  | 143.70  | 23.374  |
| #1     | .00007  | .00655  | .00008  | -.00031 | .00305  | -.00099 | -.00083 | -.00200 |
| #2     | .00040  | .00796  | .00051  | -.00022 | .00178  | .00048  | .00013  | -.00161 |
| #3     | .00006  | .00649  | .00039  | -.00052 | .00261  | .00104  | -.00031 | -.00124 |
| Elem   | Ni2316  | Ag3280  | Na8183  | V_2924  | Zn2138  | K_7698  | P_1774  | B_2496  |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |
| Avg    | -.00026 | -.00198 | -.00362 | .00031  | -.00097 | .18053  | -.00317 | .01297  |
| Stddev | .00024  | .00015  | .00635  | .00062  | .00006  | .00338  | .00004  | .00118  |
| %RSD   | 95.036  | 7.5467  | 175.40  | 201.81  | 6.5136  | 1.8739  | 1.2668  | 9.1227  |
| #1     | -.00049 | -.00209 | -.01089 | .00023  | -.00090 | .18088  | -.00313 | .01274  |
| #2     | -.00000 | -.00205 | .00082  | .00097  | -.00101 | .17698  | -.00321 | .01193  |
| #3     | -.00028 | -.00181 | -.00079 | -.00027 | -.00101 | .18372  | -.00316 | .01426  |
| Elem   | Mo2020  | S_1820  | Si2516  | Sn1899  | Ti3361  | Sr4077  | Li6707  |         |
| Units  | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   | Cts/S   |         |
| Avg    | .00041  | .00047  | .09714  | .00018  | .00110  | -.00418 | .03837  |         |
| Stddev | .00024  | .00023  | .00126  | .00012  | .00109  | .00171  | .00403  |         |
| %RSD   | 58.827  | 49.596  | 1.2973  | 68.795  | 99.497  | 40.822  | 10.503  |         |
| #1     | .00067  | .00072  | .09570  | .00005  | .00047  | -.00603 | .04249  |         |
| #2     | .00020  | .00041  | .09769  | .00020  | .00236  | -.00384 | .03444  |         |
| #3     | .00035  | .00027  | .09803  | .00029  | .00047  | -.00267 | .03818  |         |

Sample Name: S0      Acquired: 12/13/2024 11:23:34      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S0      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2340.5 | 25508. | 2246.9 | 1896.0 | 3122.3 |
| Stddev    | 2.8    | 111.   | 9.8    | 13.8   | 4.8    |
| %RSD      | .12133 | .43622 | .43544 | .72779 | .15386 |
| #1        | 2341.9 | 25468. | 2237.5 | 1892.6 | 3118.8 |
| #2        | 2337.2 | 25634. | 2246.3 | 1911.2 | 3120.3 |
| #3        | 2342.2 | 25423. | 2257.0 | 1884.2 | 3127.8 |

Sample Name: S1      Acquired: 12/13/2024 11:27:42      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | 1.8638 | .00188 | .00212 | .00206 | .00956 | .01994 | .92554  | .06313 |
| Stddev | .7591  | .00013 | .00045 | .00021 | .00013 | .00164 | .00103  | .00035 |
| %RSD   | 40.732 | 6.8021 | 21.227 | 10.012 | 1.3781 | 8.2474 | .11172  | .54762 |
| #1     | 2.3730 | .00182 | .00259 | .00221 | .00953 | .01895 | .92637  | .06273 |
| #2     | .99123 | .00203 | .00208 | .00213 | .00944 | .02184 | .92438  | .06330 |
| #3     | 2.2270 | .00180 | .00169 | .00182 | .00970 | .01904 | .92587  | .06335 |
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576  | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .01707 | .25729 | .00317 | .04685 | .00733 | .00234 | .00712  | .07291 |
| Stddev | .00043 | .00369 | .00011 | .00058 | .00022 | .00039 | .00092  | .00064 |
| %RSD   | 2.5206 | 1.4353 | 3.4269 | 1.2357 | 3.0149 | 16.670 | 12.863  | .87090 |
| #1     | .01740 | .26120 | .00305 | .04683 | .00714 | .00273 | .00773  | .07343 |
| #2     | .01658 | .25680 | .00320 | .04628 | .00757 | .00236 | .00607  | .07311 |
| #3     | .01723 | .25386 | .00326 | .04743 | .00727 | .00195 | .00756  | .07221 |
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774  | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .02181 | .00052 | .05349 | .00622 | .00257 | .30410 | -.00270 | .00732 |
| Stddev | .00025 | .00026 | .00569 | .00046 | .00050 | .00269 | .00002  | .00118 |
| %RSD   | 1.1547 | 49.103 | 10.630 | 7.3759 | 19.483 | .88356 | .76845  | 16.078 |
| #1     | .02179 | .00066 | .05503 | .00608 | .00283 | .30719 | -.00268 | .00629 |
| #2     | .02156 | .00069 | .04719 | .00674 | .00288 | .30231 | -.00270 | .00861 |
| #3     | .02206 | .00023 | .05824 | .00585 | .00199 | .30280 | -.00272 | .00707 |
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707  |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   |        |
| Avg    | .00755 | .00446 | .52768 | .00103 | .04047 | 1.1839 | .04633  |        |
| Stddev | .00025 | .00007 | .00252 | .00002 | .00033 | .0011  | .00818  |        |
| %RSD   | 3.3454 | 1.5997 | .47842 | 2.1934 | .82307 | .09245 | 17.648  |        |
| #1     | .00774 | .00454 | .52551 | .00105 | .04083 | 1.1852 | .04018  |        |
| #2     | .00765 | .00442 | .53045 | .00101 | .04017 | 1.1835 | .04320  |        |
| #3     | .00726 | .00442 | .52707 | .00102 | .04040 | 1.1832 | .05561  |        |

Sample Name: S1      Acquired: 12/13/2024 11:27:42      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2341.2 | 25656. | 2235.1 | 1895.6 | 3134.7 |
| Stddev    | 3.3    | 21.    | 7.5    | 2.3    | 3.6    |
| %RSD      | .14186 | .08102 | .33669 | .12277 | .11638 |
| #1        | 2345.1 | 25680. | 2243.6 | 1897.3 | 3138.8 |
| #2        | 2339.5 | 25645. | 2229.3 | 1892.9 | 3133.3 |
| #3        | 2339.2 | 25642. | 2232.5 | 1896.5 | 3132.0 |

Sample Name: S2      Acquired: 12/13/2024 11:31:49      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S02      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 228.35 | .10594 | 1.3831 | .07913 | .20324 | 4.1973 | 10.901 | 1.5449 |
| Stddev | .92    | .00075 | .0010  | .00056 | .00011 | .0116  | .036   | .0196  |
| %RSD   | .40489 | .70424 | .07111 | .70187 | .05517 | .27586 | .33316 | 1.2678 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 227.40 | .10533 | 1.3821 | .07885 | .20327 | 4.1865 | 10.860 | 1.5238 |
| #2 | 228.42 | .10572 | 1.3832 | .07878 | .20334 | 4.1959 | 10.926 | 1.5625 |
| #3 | 229.24 | .10678 | 1.3841 | .07977 | .20312 | 4.2095 | 10.918 | 1.5485 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.1584 | 3.0318 | 1.1407 | .58131 | .61806 | .93022 | 1.6793 | .87808 |
| Stddev | .0049  | .0072  | .0037  | .00108 | .00537 | .00252 | .0053  | .00448 |
| %RSD   | .22574 | .23581 | .32821 | .18551 | .86920 | .27042 | .31739 | .51054 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.1540 | 3.0258 | 1.1364 | .58022 | .61307 | .92732 | 1.6735 | .87465 |
| #2 | 2.1576 | 3.0299 | 1.1422 | .58135 | .61736 | .93157 | 1.6805 | .87643 |
| #3 | 2.1636 | 3.0397 | 1.1434 | .58237 | .62375 | .93178 | 1.6839 | .88315 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .34683 | .07667 | .32754 | .06771 | .24049 | 1.0770 | .07533 | 1.0836 |
| Stddev | .00064 | .00037 | .00259 | .00122 | .00334 | .0063  | .00017 | .0113  |
| %RSD   | .18417 | .47757 | .78952 | 1.7969 | 1.3896 | .58565 | .21914 | 1.0460 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .34609 | .07640 | .32456 | .06630 | .24135 | 1.0713 | .07518 | 1.0709 |
| #2 | .34713 | .07652 | .32925 | .06842 | .23680 | 1.0759 | .07532 | 1.0927 |
| #3 | .34726 | .07708 | .32879 | .06840 | .24332 | 1.0838 | .07551 | 1.0873 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .87575 | .05190 | 2.2784 | .16931 | .48851 | 14.211 | 1.2469 |
| Stddev | .00100 | .00046 | .0260  | .00031 | .00190 | .072   | .0134  |
| %RSD   | .11364 | .89132 | 1.1415 | .18562 | .38810 | .50801 | 1.0764 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .87489 | .05166 | 2.2488 | .16895 | .48697 | 14.131 | 1.2320 |
| #2 | .87684 | .05160 | 2.2976 | .16955 | .48794 | 14.230 | 1.2510 |
| #3 | .87552 | .05243 | 2.2888 | .16942 | .49063 | 14.271 | 1.2578 |



Sample Name: S2      Acquired: 12/13/2024 11:31:49      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S02      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2245.8 | 24945. | 2250.6 | 1808.4 | 2873.7 |
| Stddev    | 4.1    | 83.    | 17.5   | 9.2    | 3.1    |
| %RSD      | .18385 | .33181 | .77981 | .50938 | .10943 |
| #1        | 2245.5 | 24926. | 2270.8 | 1806.3 | 2873.0 |
| #2        | 2241.8 | 25035. | 2242.0 | 1818.4 | 2871.0 |
| #3        | 2250.0 | 24873. | 2239.0 | 1800.4 | 2877.2 |

Sample Name: S3      Acquired: 12/13/2024 11:35:39      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S03      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 457.23 | .21557 | 2.8357 | .16332 | .41843 | 8.5469 | 22.376 | 3.1489 |
| Stddev | 2.40   | .00083 | .0030  | .00057 | .00089 | .0202  | .063   | .0122  |
| %RSD   | .52556 | .38398 | .10630 | .35174 | .21215 | .23671 | .28275 | .38746 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 455.34 | .21506 | 2.8384 | .16397 | .41943 | 8.5326 | 22.376 | 3.1543 |
| #2 | 456.42 | .21653 | 2.8361 | .16287 | .41814 | 8.5700 | 22.439 | 3.1575 |
| #3 | 459.94 | .21513 | 2.8324 | .16313 | .41773 | 8.5380 | 22.313 | 3.1349 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 4.4056 | 6.1320 | 2.2821 | 1.1699 | 1.2556 | 1.8934 | 3.4041 | 1.7766 |
| Stddev | .0051  | .0032  | .0107  | .0027  | .0046  | .0095  | .0134  | .0051  |
| %RSD   | .11518 | .05216 | .46848 | .23150 | .36840 | .50316 | .39341 | .28603 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 4.4112 | 6.1354 | 2.2945 | 1.1726 | 1.2548 | 1.8870 | 3.3956 | 1.7721 |
| #2 | 4.4042 | 6.1291 | 2.2759 | 1.1699 | 1.2606 | 1.9044 | 3.4196 | 1.7821 |
| #3 | 4.4014 | 6.1314 | 2.2760 | 1.1672 | 1.2515 | 1.8889 | 3.3972 | 1.7757 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .70782 | .15713 | .66457 | .13779 | .49555 | 2.0356 | .16060 | 2.2241 |
| Stddev | .00177 | .00021 | .00596 | .00047 | .00269 | .0108  | .00026 | .0048  |
| %RSD   | .25019 | .13526 | .89723 | .33942 | .54215 | .52884 | .16315 | .21476 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .70967 | .15732 | .66414 | .13746 | .49401 | 2.0267 | .16031 | 2.2283 |
| #2 | .70765 | .15717 | .67074 | .13759 | .49865 | 2.0476 | .16082 | 2.2252 |
| #3 | .70615 | .15690 | .65883 | .13833 | .49400 | 2.0325 | .16067 | 2.2189 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.8019 | .10835 | 4.5264 | .34922 | .99756 | 29.071 | 2.5140 |
| Stddev | .0025  | .00030 | .0186  | .00022 | .00219 | .110   | .0173  |
| %RSD   | .13698 | .27624 | .41125 | .06294 | .21943 | .37684 | .68821 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.8043 | .10844 | 4.5420 | .34910 | .99601 | 29.007 | 2.5104 |
| #2 | 1.8020 | .10860 | 4.5315 | .34947 | 1.0001 | 29.198 | 2.5329 |
| #3 | 1.7994 | .10802 | 4.5058 | .34908 | .99661 | 29.009 | 2.4988 |

Sample Name: S3      Acquired: 12/13/2024 11:35:39      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S03      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2155.6 | 24683. | 2210.6 | 1746.6 | 2757.7 |
| Stddev    | 7.1    | 74.    | 8.8    | 2.8    | 8.8    |
| %RSD      | .32905 | .29802 | .39638 | .15911 | .32061 |
| #1        | 2152.8 | 24604. | 2205.3 | 1743.8 | 2755.2 |
| #2        | 2150.3 | 24695. | 2205.7 | 1746.5 | 2750.3 |
| #3        | 2163.6 | 24749. | 2220.7 | 1749.4 | 2767.5 |

Sample Name: S4      Acquired: 12/13/2024 11:39:25      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S04      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 900.15 | .43425 | 5.7969 | .34082 | .88362 | 17.160 | 44.935 | 6.1978 |
| Stddev | 1.08   | .00045 | .0052  | .00081 | .00265 | .059   | .146   | .0459  |
| %RSD   | .11993 | .10399 | .09002 | .23808 | .30040 | .34292 | .32425 | .74085 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 898.91 | .43463 | 5.8028 | .34137 | .88357 | 17.093 | 44.784 | 6.1490 |
| #2 | 900.86 | .43375 | 5.7950 | .33989 | .88100 | 17.188 | 44.947 | 6.2401 |
| #3 | 900.68 | .43436 | 5.7929 | .34119 | .88630 | 17.200 | 45.075 | 6.2043 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 8.9286 | 12.278 | 4.5199 | 2.3402 | 2.4893 | 3.7429 | 6.7093 | 3.5204 |
| Stddev | .0078  | .025   | .0113  | .0020  | .0093  | .0123  | .0172  | .0079  |
| %RSD   | .08707 | .20465 | .24950 | .08707 | .37531 | .32808 | .25663 | .22451 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 8.9366 | 12.249 | 4.5083 | 2.3426 | 2.4801 | 3.7294 | 6.6911 | 3.5137 |
| #2 | 8.9211 | 12.295 | 4.5308 | 2.3390 | 2.4889 | 3.7459 | 6.7116 | 3.5184 |
| #3 | 8.9281 | 12.289 | 4.5207 | 2.3391 | 2.4988 | 3.7534 | 6.7253 | 3.5292 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.4328 | .31973 | 1.3097 | .27808 | 1.0364 | 3.9292 | .33633 | 4.3682 |
| Stddev | .0007  | .00062 | .0050  | .00125 | .0060  | .0209  | .00070 | .0331  |
| %RSD   | .04850 | .19404 | .37764 | .44933 | .57582 | .53199 | .20735 | .75865 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.4335 | .32030 | 1.3042 | .27681 | 1.0425 | 3.9109 | .33607 | 4.3311 |
| #2 | 1.4327 | .31907 | 1.3110 | .27812 | 1.0360 | 3.9248 | .33712 | 4.3948 |
| #3 | 1.4321 | .31983 | 1.3139 | .27931 | 1.0306 | 3.9520 | .33579 | 4.3789 |

|        |        |        |        |        |        |        |        |  |
|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |  |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |  |
| Avg    | 3.8053 | .22567 | 8.8090 | .71483 | 2.0022 | 58.110 | 4.9663 |  |
| Stddev | .0040  | .00027 | .0622  | .00115 | .0016  | .158   | .0227  |  |
| %RSD   | .10446 | .11749 | .70567 | .16080 | .08028 | .27258 | .45665 |  |

|    |        |        |        |        |        |        |        |  |
|----|--------|--------|--------|--------|--------|--------|--------|--|
| #1 | 3.8085 | .22557 | 8.7407 | .71601 | 2.0010 | 57.982 | 4.9418 |  |
| #2 | 3.8009 | .22547 | 8.8621 | .71371 | 2.0016 | 58.062 | 4.9706 |  |
| #3 | 3.8066 | .22597 | 8.8243 | .71477 | 2.0040 | 58.287 | 4.9866 |  |

Sample Name: S4      Acquired: 12/13/2024 11:39:25      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S04      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 1989.2 | 24158. | 2201.5 | 1637.9 | 2609.8 |
| Stddev    | 6.9    | 37.    | 9.2    | 6.1    | 6.5    |
| %RSD      | .34486 | .15464 | .41986 | .37481 | .24774 |
| #1        | 1982.6 | 24116. | 2211.6 | 1632.7 | 2602.6 |
| #2        | 1996.3 | 24168. | 2193.4 | 1636.4 | 2615.0 |
| #3        | 1988.8 | 24189. | 2199.6 | 1644.7 | 2611.8 |

Sample Name: S5      Acquired: 12/13/2024 11:43:10      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S05      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1733.8 | .86476 | 11.653 | .74297 | 1.9601 | 34.560 | 89.942 | 12.087 |
| Stddev | 4.0    | .00327 | .026   | .00042 | .0027  | .208   | .585   | .087   |
| %RSD   | .23261 | .37769 | .21982 | .05684 | .13915 | .60115 | .65042 | .71605 |
| #1     | 1737.6 | .86418 | 11.648 | .74315 | 1.9633 | 34.724 | 90.432 | 12.147 |
| #2     | 1729.6 | .86182 | 11.630 | .74249 | 1.9587 | 34.326 | 89.294 | 11.988 |
| #3     | 1734.3 | .86827 | 11.681 | .74328 | 1.9584 | 34.630 | 90.098 | 12.127 |
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 17.717 | 24.402 | 8.7581 | 4.6223 | 4.9335 | 7.3256 | 13.173 | 6.9142 |
| Stddev | .037   | .125   | .0436  | .0082  | .0568  | .0521  | .088   | .0482  |
| %RSD   | .21145 | .51424 | .49777 | .17726 | 1.1508 | .71175 | .66667 | .69698 |
| #1     | 17.721 | 24.480 | 8.7221 | 4.6301 | 4.9822 | 7.3760 | 13.242 | 6.9533 |
| #2     | 17.677 | 24.257 | 8.8066 | 4.6231 | 4.8711 | 7.2719 | 13.074 | 6.8603 |
| #3     | 17.752 | 24.469 | 8.7457 | 4.6138 | 4.9473 | 7.3290 | 13.203 | 6.9290 |
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.8519 | .64784 | 2.6091 | .54935 | 2.2325 | 7.7509 | .69030 | 8.3899 |
| Stddev | .0044  | .00180 | .0194  | .00376 | .0186  | .0547  | .00097 | .0522  |
| %RSD   | .15454 | .27792 | .74361 | .68497 | .83404 | .70592 | .14053 | .62272 |
| #1     | 2.8569 | .64829 | 2.6295 | .55082 | 2.2330 | 7.7986 | .69067 | 8.4229 |
| #2     | 2.8496 | .64937 | 2.5909 | .54508 | 2.2509 | 7.6912 | .68919 | 8.3296 |
| #3     | 2.8490 | .64586 | 2.6070 | .55216 | 2.2137 | 7.7630 | .69102 | 8.4170 |
| Elem   | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |        |
| Avg    | 8.3914 | .46298 | 16.960 | 1.4317 | 3.9937 | 115.74 | 9.9706 |        |
| Stddev | .0085  | .00080 | .102   | .0028  | .0375  | 2.93   | .1296  |        |
| %RSD   | .10171 | .17222 | .60415 | .19670 | .93934 | 2.5276 | 1.2999 |        |
| #1     | 8.3992 | .46383 | 17.031 | 1.4318 | 4.0274 | 118.17 | 10.088 |        |
| #2     | 8.3823 | .46224 | 16.842 | 1.4289 | 3.9532 | 112.49 | 9.8316 |        |
| #3     | 8.3927 | .46289 | 17.006 | 1.4345 | 4.0004 | 116.55 | 9.9922 |        |

Sample Name: S5      Acquired: 12/13/2024 11:43:10      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S05      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 1711.5 | 23454. | 2186.6 | 1469.5 | 2440.6 |
| Stddev    | .6     | 23.    | 19.1   | 9.8    | 2.1    |
| %RSD      | .03538 | .09939 | .87465 | .66978 | .08505 |
| #1        | 1712.2 | 23459. | 2173.7 | 1475.4 | 2443.0 |
| #2        | 1711.1 | 23428. | 2208.5 | 1458.2 | 2439.9 |
| #3        | 1711.3 | 23474. | 2177.5 | 1475.1 | 2439.0 |

Sample Name: S6      Acquired: 12/13/2024 11:47:02      Type: Cal  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: IR      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: S06      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Elem      | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 93.609 | 40.978 | 19.790 | 11.273 | 7.3019 |
| Stddev    | .214   | .226   | .070   | .050   | .0250  |
| %RSD      | .22876 | .55054 | .35551 | .44171 | .34300 |
| #1        | 93.421 | 40.999 | 19.796 | 11.274 | 7.2945 |
| #2        | 93.842 | 41.192 | 19.857 | 11.323 | 7.3297 |
| #3        | 93.564 | 40.743 | 19.717 | 11.223 | 7.2813 |
| Int. Std. | Y_3710 |        |        |        |        |
| Units     | Cts/S  |        |        |        |        |
| Avg       | 2099.0 |        |        |        |        |
| Stddev    | 10.2   |        |        |        |        |
| %RSD      | .48419 |        |        |        |        |
| #1        | 2110.3 |        |        |        |        |
| #2        | 2090.6 |        |        |        |        |
| #3        | 2096.1 |        |        |        |        |



Sample Name: ICV002      Acquired: 12/13/2024 12:40:49      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICV002      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.094649 | 1.039634 | .9749123 | .9423884 | .9155053 | 2.364064 |
| Stddev | .005427  | .007896  | .0017426 | .0034728 | .0006991 | .010469  |
| %RSD   | .4957406 | .7595287 | .1787481 | .3685139 | .0763655 | .4428426 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.089232 | 1.039823 | .9732777 | .9422262 | .9149745 | 2.362978 |
| #2 | 1.094629 | 1.031645 | .9767459 | .9389996 | .9152441 | 2.375034 |
| #3 | 1.100085 | 1.047434 | .9747135 | .9459396 | .9162975 | 2.354180 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5256808 | .5246798 | .4970665 | 10.23992 | .5556413 | .5015232 |
| Stddev | .0006623 | .0011910 | .0005209 | .10942   | .0029357 | .0009687 |
| %RSD   | .1259900 | .2270052 | .1047949 | 1.068548 | .5283373 | .1931497 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5262516 | .5246595 | .4967457 | 10.27995 | .5589170 | .5004166 |
| #2 | .5249546 | .5258810 | .4967864 | 10.11612 | .5532481 | .5022177 |
| #3 | .5258362 | .5234991 | .4976676 | 10.32368 | .5547590 | .5019354 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5117796 | 10.50067 | .5406480 | 6.233443 | .5111628 | .2574343 |
| Stddev | .0014640 | .06673   | .0015937 | .009754  | .0009115 | .0002833 |
| %RSD   | .2860513 | .6354913 | .2947728 | .1564791 | .1783218 | .1100611 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5117722 | 10.55802 | .5407585 | 6.242243 | .5114037 | .2572022 |
| #2 | .5103193 | 10.42743 | .5390019 | 6.235133 | .5101550 | .2577500 |
| #3 | .5132472 | 10.51655 | .5421835 | 6.222955 | .5119297 | .2573507 |

|        |          |          |          |          |            |            |
|--------|----------|----------|----------|----------|------------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm        |
| Avg    | 10.57204 | .5148573 | 1.099773 | 9.487001 | F -.001533 | F -.013319 |
| Stddev | .36533   | .0033918 | .002258  | .178182  | .002111    | .001356    |
| %RSD   | 3.455632 | .6587790 | .2052799 | 1.878172 | 137.6809   | 10.18415   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.43603 | .5172128 | 1.100630 | 9.689811 | .000381  | -.014882 |
| #2 | 10.98587 | .5109698 | 1.097213 | 9.355596 | -.001183 | -.012617 |
| #3 | 10.29423 | .5163891 | 1.101477 | 9.415595 | -.003796 | -.012457 |

Sample Name: ICV002      Acquired: 12/13/2024 12:40:49      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICV002      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Mo2020     | S_1820     | Si2516     | Sn1899     | Ti3361     | Sr4077     |
|--------|------------|------------|------------|------------|------------|------------|
| Units  | ppm        | ppm        | ppm        | ppm        | ppm        | ppm        |
| Avg    | F -.000322 | F .0086468 | F -.039133 | F -.000445 | F -.002165 | F -.009339 |
| Stddev | .000059    | .0015968   | .000695    | .000780    | .004817    | .000183    |
| %RSD   | 18.28091   | 18.46702   | 1.776069   | 175.2398   | 222.4634   | 1.961470   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000271 | .0068380 | -.039912 | -.000182 | -.005163 | -.009155 |
| #2 | -.000308 | .0092415 | -.038909 | -.001322 | -.004725 | -.009339 |
| #3 | -.000386 | .0098609 | -.038578 | .000170  | .003391  | -.009522 |

| Elem   | Li6707     |
|--------|------------|
| Units  | ppm        |
| Avg    | F -.006253 |
| Stddev | .004123    |
| %RSD   | 65.94738   |

|    |          |
|----|----------|
| #1 | -.005215 |
| #2 | -.002747 |
| #3 | -.010796 |

| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
|-----------|----------|----------|----------|----------|----------|
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2369.353 | 26096.78 | 2315.240 | 1917.725 | 3171.046 |
| Stddev    | 3.416    | 122.51   | 2.309    | 14.102   | 5.878    |
| %RSD      | .1441847 | .4694291 | .0997453 | .7353251 | .1853531 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2366.179 | 26008.00 | 2312.914 | 1909.143 | 3164.579 |
| #2 | 2372.969 | 26236.54 | 2317.532 | 1933.999 | 3176.062 |
| #3 | 2368.911 | 26045.78 | 2315.273 | 1910.031 | 3172.498 |

Sample Name: ICB002      Acquired: 12/13/2024 13:14:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICB002      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0025312 | -.000989 | -.002357 | .0000133 | .0021548 | .0106393 | .0011165 |
| Stddev | .0016104 | .001894  | .000546  | .0029279 | .0019956 | .0035871 | .0009997 |
| %RSD   | 63.62407 | 191.4352 | 23.15931 | 22015.28 | 92.61316 | 33.71583 | 89.54045 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0036582 | .000635  | -.001795 | .0006542 | .0009566 | .0065320 | .0022172 |
| #2 | .0006867 | -.003069 | -.002390 | .0025677 | .0010492 | .0122290 | .0008677 |
| #3 | .0032486 | -.000533 | -.002885 | -.003182 | .0044585 | .0131568 | .0002647 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000297 | .0000273 | .0524202 | -.000618 | .0001079 | .0019600 | -.002651 |
| Stddev | .0000761 | .0000241 | .0518368 | .000696  | .0002186 | .0019445 | .032656  |
| %RSD   | 255.9147 | 88.27384 | 98.88713 | 112.6103 | 202.6627 | 99.20986 | 1232.010 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001175 | .0000107 | .0604802 | -.000033 | .0000109 | .0011854 | -.029278 |
| #2 | -.000016 | .0000163 | -.002975 | -.000434 | .0003582 | .0041725 | .033786  |
| #3 | -.000012 | .0000550 | .099755  | -.001387 | -.000045 | .0005222 | -.012459 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001376 | .0674244 | -.000815 | .0006437 | 1.265602 | -.010526 | .0027720 |
| Stddev | .0003858 | .0373653 | .000441  | .0011016 | .697567  | .008053  | .0047678 |
| %RSD   | 280.2816 | 55.41812 | 54.13014 | 171.1212 | 55.11741 | 76.50012 | 171.9994 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0005288 | .0370409 | -.000316 | .0016718 | .461190  | -.003192 | -.002365 |
| #2 | -.000243 | .0560869 | -.001154 | .0007784 | 1.631878 | -.019144 | .003626  |
| #3 | .000127  | .1091454 | -.000975 | -.000519 | 1.703738 | -.009244 | .007055  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3705117 | -.002009 | -.012484 | .0000461 | -.000807 | -.039623 | -.000390 |
| Stddev | .2425584 | .000966  | .001750  | .0003746 | .003832  | .001107  | .001156  |
| %RSD   | 65.46579 | 48.10860 | 14.02140 | 812.1557 | 474.6298 | 2.794167 | 296.4080 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1719614 | -.003045 | -.014267 | .0004780 | .003061  | -.040319 | -.001606 |
| #2 | .6408655 | -.001132 | -.010768 | -.000150 | -.004602 | -.038346 | .000696  |
| #3 | .2987082 | -.001849 | -.012418 | -.000189 | -.000880 | -.040203 | -.000260 |

Sample Name: ICB002      Acquired: 12/13/2024 13:14:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICB002      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.002476 | -.000108 | -.010521 |
| Stddev | .001696  | .000414  | .001112  |
| %RSD   | 68.50440 | 384.6732 | 10.56989 |
| #1     | -.000548 | .000099  | -.011508 |
| #2     | -.003740 | -.000584 | -.010739 |
| #3     | -.003140 | .000163  | -.009316 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2366.379 | 25909.99 | 2228.443 | 1903.365 | 3207.271 |
| Stddev    | 2.031    | 234.88   | 65.915   | 19.962   | 1.723    |
| %RSD      | .0858097 | .9065283 | 2.957889 | 1.048765 | .0537366 |
| #1        | 2365.681 | 25646.62 | 2277.686 | 1883.763 | 3208.112 |
| #2        | 2364.790 | 26097.76 | 2153.561 | 1923.668 | 3205.288 |
| #3        | 2368.667 | 25985.60 | 2254.082 | 1902.664 | 3208.412 |

Sample Name: ICSA002      Acquired: 12/13/2024 13:18:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSA002      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0033037 | .0168856 | .0006046 | -.021777 | .0144171 | 235.9905 |
| Stddev | .0058586 | .0012703 | .0033355 | .001839  | .0023126 | .2148    |
| %RSD   | 177.3325 | 7.523115 | 551.7332 | 8.446673 | 16.04095 | .0910332 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0100673 | .0182028 | -.002963 | -.020469 | .0162418 | 236.0478 |
| #2 | -.000195 | .0167858 | .003645  | -.020982 | .0151934 | 235.7529 |
| #3 | .000039  | .0156681 | .001132  | -.023881 | .0118162 | 236.1709 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0089166 | .0014900 | .0010214 | 241.9880 | .0508922 | .0302403 |
| Stddev | .0006947 | .0000980 | .0000702 | .2860    | .0009110 | .0003588 |
| %RSD   | 7.790645 | 6.577361 | 6.876672 | .1181677 | 1.790061 | 1.186630 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0097160 | .0015585 | .0010909 | 242.3175 | .0510201 | .0305715 |
| #2 | .0085749 | .0015336 | .0010229 | 241.8410 | .0517325 | .0298591 |
| #3 | .0084590 | .0013777 | .0009505 | 241.8053 | .0499240 | .0302902 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.013717 | 100.6993 | .0105133 | 254.5722 | .0078310 | -.009913 |
| Stddev | .001516  | .2339    | .0016552 | .3898    | .0010613 | .000935  |
| %RSD   | 11.05126 | .2323096 | 15.74394 | .1531266 | 13.55297 | 9.434849 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.013986 | 100.6205 | .0091834 | 254.5950 | .0078713 | -.009574 |
| #2 | -.015081 | 100.5149 | .0099893 | 254.1716 | .0067501 | -.010971 |
| #3 | -.012085 | 100.9624 | .0123670 | 254.9502 | .0088716 | -.009195 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 1.506252 | .0041326 | -.025667 | -1.03779 | .0022272 | F -.030707 |
| Stddev | .877109  | .0115058 | .004786  | .05700   | .0002017 | .000246    |
| %RSD   | 58.23123 | 278.4157 | 18.64500 | 5.492051 | 9.058050 | .8013045   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .703117  | .0044059 | -.020254 | -1.09955 | .0021374 | -.030844 |
| #2 | 2.442188 | -.007507 | -.029337 | -.98721  | .0024582 | -.030423 |
| #3 | 1.373449 | .015499  | -.027411 | -1.02662 | .0020859 | -.030854 |

Sample Name: ICSA002      Acquired: 12/13/2024 13:18:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSA002      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0006024 | .0094679 | -.045553 | F .0087311 | -.005424 | .0040660 |
| Stddev | .0004246 | .0025367 | .000068  | .0006243   | .001594  | .0001660 |
| %RSD   | 70.48892 | 26.79239 | .1502750 | 7.150683   | 29.38296 | 4.082788 |
| #1     | .0002198 | .0113395 | -.045500 | .0092801   | -.006919 | .0039790 |
| #2     | .0010592 | .0065808 | -.045528 | .0080520   | -.005605 | .0042574 |
| #3     | .0005280 | .0104835 | -.045630 | .0088612   | -.003747 | .0039616 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | -.008610 |
| Stddev | .000735  |
| %RSD   | 8.534696 |
| #1     | -.008035 |
| #2     | -.008358 |
| #3     | -.009438 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2266.747 | 24728.19 | 2262.140 | 1824.676 | 2809.381 |
| Stddev    | 5.006    | 52.01    | 7.038    | 11.423   | 4.805    |
| %RSD      | .2208310 | .2103323 | .3111017 | .6260340 | .1710174 |
| #1        | 2270.148 | 24668.93 | 2269.194 | 1813.711 | 2814.842 |
| #2        | 2260.999 | 24749.33 | 2255.119 | 1836.508 | 2805.803 |
| #3        | 2269.095 | 24766.30 | 2262.108 | 1823.810 | 2807.498 |

Sample Name: ICSAB002
Acquired: 12/13/2024 13:22:14
Type: Unk

Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)
Mode: CONC
Corr. Factor: 1.000000

User: Kareem
Custom ID1: ICSAB002
Custom ID2:
Custom ID3:

Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1048030 | .1218471 | .0499588 | .0211340 | .5307868 | 235.2262 |
| Stddev | .0068593 | .0048616 | .0036921 | .0073664 | .0026413 | .5365    |
| %RSD   | 6.544913 | 3.989895 | 7.390305 | 34.85579 | .4976246 | .2280901 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1082097 | .1258073 | .0505612 | .0128108 | .5338361 | 234.8814 |
| #2 | .0969073 | .1164213 | .0533127 | .0268147 | .5293189 | 234.9528 |
| #3 | .1092920 | .1233126 | .0460025 | .0237765 | .5292055 | 235.8443 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5295335 | .5153808 | .9745996 | 242.8592 | .5810026 | .5043351 |
| Stddev | .0016342 | .0010065 | .0048774 | .9100    | .0003464 | .0030255 |
| %RSD   | .3086063 | .1953030 | .5004521 | .3747084 | .0596178 | .5999041 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5283776 | .5142189 | .9802229 | 242.8272 | .5813742 | .5078036 |
| #2 | .5288198 | .5159853 | .9720579 | 241.9656 | .5806887 | .5022388 |
| #3 | .5314031 | .5159383 | .9715180 | 243.7848 | .5809450 | .5029629 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4655042 | 100.6357 | .5266891 | 253.0537 | .9802044 | .1837031 |
| Stddev | .0025364 | .1107    | .0034153 | .1292    | .0037464 | .0012281 |
| %RSD   | .5448801 | .1099973 | .6484452 | .0510478 | .3822072 | .6685246 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4646781 | 100.5891 | .5231945 | 253.1249 | .9844787 | .1837107 |
| #2 | .4634837 | 100.5558 | .5268536 | 252.9045 | .9786448 | .1849273 |
| #3 | .4683506 | 100.7620 | .5300191 | 253.1315 | .9774897 | .1824712 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 1.671346 | .5263606 | .8956275 | -1.83497 | .0005936 | F -.030927 |
| Stddev | .230854  | .0049825 | .0074238 | .05419   | .0025674 | .003513    |
| %RSD   | 13.81245 | .9465868 | .8288910 | 2.952919 | 432.5017 | 11.35913   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.427727 | .5311844 | .8917228 | -1.83851 | .0010094 | -.027236 |
| #2 | 1.886861 | .5266639 | .8909711 | -1.77910 | .0029278 | -.031316 |
| #3 | 1.699449 | .5212334 | .9041888 | -1.88730 | -.002156 | -.034230 |

Sample Name: ICSAB002      Acquired: 12/13/2024 13:22:14      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ICSAB002      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899     | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0005449 | .0102045 | -.044864 | F .0084639 | -.005179 | .0042779 |
| Stddev | .0004612 | .0039600 | .000740  | .0019725   | .003148  | .0003576 |
| %RSD   | 84.63353 | 38.80710 | 1.648476 | 23.30426   | 60.79272 | 8.360185 |
| #1     | .0000843 | .0056354 | -.044718 | .0100662   | -.008743 | .0044021 |
| #2     | .0010066 | .0123324 | -.045665 | .0062610   | -.004015 | .0038747 |
| #3     | .0005439 | .0126457 | -.044208 | .0090646   | -.002778 | .0045568 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.022058 |
| Stddev | .004940    |
| %RSD   | 22.39730   |
| #1     | -.018783   |
| #2     | -.027741   |
| #3     | -.019651   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2262.453 | 24753.21 | 2274.824 | 1831.753 | 2815.641 |
| Stddev    | 7.281    | 29.57    | 8.017    | 3.175    | 5.708    |
| %RSD      | .3218380 | .1194549 | .3524070 | .1733375 | .2027265 |
| #1        | 2254.495 | 24740.02 | 2283.993 | 1829.108 | 2810.632 |
| #2        | 2268.781 | 24732.52 | 2271.338 | 1835.274 | 2821.856 |
| #3        | 2264.084 | 24787.07 | 2269.140 | 1830.876 | 2814.435 |



Sample Name: CCV007      Acquired: 12/13/2024 13:45:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV007      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.736477 | 4.848990 | 23.49551 | 4.505487 | 4.587134 | 377.5410 | 9.712883 |
| Stddev | .018483  | .013910  | .03340   | .009604  | .011655  | .6654    | .013120  |
| %RSD   | .3902256 | .2868690 | .1421641 | .2131588 | .2540773 | .1762480 | .1350821 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.728404 | 4.861050 | 23.51563 | 4.500508 | 4.590903 | 377.0960 | 9.709870 |
| #2 | 4.723403 | 4.833773 | 23.45695 | 4.499395 | 4.574061 | 378.3059 | 9.727248 |
| #3 | 4.757623 | 4.852148 | 23.51394 | 4.516558 | 4.596438 | 377.2209 | 9.701532 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4769488 | 2.350155 | 392.5557 | 14.76073 | 2.341785 | 14.62638 | 392.1255 |
| Stddev | .0016946 | .005686  | .5501    | .02175   | .006890  | .01032   | 1.1641   |
| %RSD   | .3552936 | .2419248 | .1401388 | .1473555 | .2942126 | .0705558 | .2968713 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4774141 | 2.354094 | 392.5091 | 14.75956 | 2.342449 | 14.61452 | 390.8588 |
| #2 | .4783622 | 2.343637 | 393.1276 | 14.73959 | 2.334587 | 14.63129 | 393.1483 |
| #3 | .4750703 | 2.352734 | 392.0303 | 14.78305 | 2.348319 | 14.63333 | 392.3695 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.65741 | 380.3257 | 2.386826 | 1.224124 | 380.5217 | 2.429562 | 13.95728 |
| Stddev | .01981   | .6320    | .005141  | .004390  | 1.2836   | .014195  | .04999   |
| %RSD   | .1351266 | .1661681 | .2154111 | .3586338 | .3373140 | .5842530 | .3581447 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.65642 | 380.2837 | 2.391317 | 1.229113 | 379.2406 | 2.426237 | 13.99796 |
| #2 | 14.67769 | 380.9776 | 2.381218 | 1.222404 | 381.8077 | 2.445123 | 13.90148 |
| #3 | 14.63812 | 379.7158 | 2.387943 | 1.220853 | 380.5168 | 2.417324 | 13.97240 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 143.7935 | 4.709993 | 4.665184 | 4.569891 | 4.694771 | 4.728707 | 4.783962 |
| Stddev | .0809    | .001942  | .009519  | .004426  | .018132  | .018973  | .013719  |
| %RSD   | .0562416 | .0412312 | .2040471 | .0968534 | .3862104 | .4012322 | .2867681 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 143.8462 | 4.712201 | 4.658453 | 4.574013 | 4.711787 | 4.706802 | 4.796593 |
| #2 | 143.8339 | 4.708552 | 4.676075 | 4.565214 | 4.675699 | 4.739334 | 4.769367 |
| #3 | 143.7004 | 4.709225 | 4.661024 | 4.570447 | 4.696826 | 4.739985 | 4.785925 |

Sample Name: CCV007      Acquired: 12/13/2024 13:45:23      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV007      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.910711 | 4.584252 | 4.916906 |
| Stddev | .004334  | .002638  | .010851  |
| %RSD   | .0882500 | .0575427 | .2206889 |
| #1     | 4.910679 | 4.586512 | 4.904797 |
| #2     | 4.915061 | 4.584891 | 4.920174 |
| #3     | 4.906393 | 4.581353 | 4.925749 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1935.383 | 23352.32 | 2194.106 | 1611.459 | 2531.931 |
| Stddev    | 4.662    | 88.07    | 13.332   | 5.660    | 4.594    |
| %RSD      | .2408774 | .3771458 | .6076186 | .3512330 | .1814461 |
| #1        | 1931.177 | 23326.69 | 2200.859 | 1606.367 | 2527.147 |
| #2        | 1934.578 | 23279.90 | 2178.749 | 1610.456 | 2532.337 |
| #3        | 1940.396 | 23450.36 | 2202.710 | 1617.553 | 2536.308 |

Sample Name: CCB007      Acquired: 12/13/2024 13:49:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB007      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0032029 | .0013195 | .0056961 | .0004668 | .0033745 | .0184343 |
| Stddev | .0012614 | .0009026 | .0024697 | .0047166 | .0010794 | .0039260 |
| %RSD   | 39.38308 | 68.40324 | 43.35835 | 1010.467 | 31.98571 | 21.29715 |
| #1     | .0038137 | .0012833 | .0074183 | -.002166 | .0021499 | .0180533 |
| #2     | .0017524 | .0022397 | .0068033 | -.002346 | .0041877 | .0225369 |
| #3     | .0040426 | .0004355 | .0028665 | .005912  | .0037860 | .0147127 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0016786 | .0002171 | .0002610 | -.001048 | .0020296 | .0001217 |
| Stddev | .0008769 | .0000983 | .0000153 | .018362  | .0004603 | .0001123 |
| %RSD   | 52.24009 | 45.27286 | 5.850080 | 1752.427 | 22.67949 | 92.24920 |
| #1     | .0008242 | .0001092 | .0002781 | -.019639 | .0015711 | .0002320 |
| #2     | .0016353 | .0003014 | .0002489 | .017076  | .0020261 | .0000075 |
| #3     | .0025764 | .0002406 | .0002558 | -.000580 | .0024917 | .0001257 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0022249 | .0278615 | .0020399 | .1092355 | .0006856 | .0003124 |
| Stddev | .0018441 | .0265829 | .0014616 | .0499786 | .0007084 | .0009580 |
| %RSD   | 82.88573 | 95.41074 | 71.65044 | 45.75306 | 103.3329 | 306.6177 |
| #1     | .0014406 | .0517156 | .0032757 | .1664780 | -.000084 | .0007108 |
| #2     | .0043316 | -.000795 | .0004266 | .0869643 | .000831  | -.000780 |
| #3     | .0009026 | .032664  | .0024174 | .0742641 | .001310  | .001007  |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.410537 | -.003995 | .0080438 | -.386495 | .0007601 | .0056553 |
| Stddev | .459735  | .001962  | .0099596 | .229612  | .0021719 | .0023584 |
| %RSD   | 19.07191 | 49.10252 | 123.8173 | 59.40875 | 285.7284 | 41.70341 |
| #1     | 1.924552 | -.006152 | .0189038 | -.611563 | -.000392 | .0081257 |
| #2     | 2.468542 | -.002319 | -.000663 | -.152594 | .003265  | .0034276 |
| #3     | 2.838518 | -.003514 | .005891  | -.395327 | -.000593 | .0054125 |

Sample Name: CCB007      Acquired: 12/13/2024 13:49:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB007      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0005815 | -.003677 | -.038462 | .0012734 | -.003624 | .0003265 |
| Stddev | .0000485 | .001475  | .000797  | .0006362 | .002666  | .0002142 |
| %RSD   | 8.341421 | 40.09970 | 2.071725 | 49.95804 | 73.56853 | 65.60496 |
| #1     | .0005404 | -.004943 | -.039147 | .0018185 | -.002862 | .0001206 |
| #2     | .0006350 | -.002058 | -.037588 | .0014272 | -.006587 | .0003108 |
| #3     | .0005691 | -.004031 | -.038651 | .0005744 | -.001422 | .0005480 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.026268 |
| Stddev | .003040    |
| %RSD   | 11.57115   |
| #1     | -.029724   |
| #2     | -.024012   |
| #3     | -.025068   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2356.226 | 25692.56 | 2257.693 | 1901.545 | 3189.496 |
| Stddev    | 6.446    | 124.45   | 6.274    | 9.698    | 2.509    |
| %RSD      | .2735842 | .4843640 | .2778817 | .5100109 | .0786650 |
| #1        | 2362.094 | 25602.99 | 2253.436 | 1895.297 | 3191.887 |
| #2        | 2357.256 | 25834.65 | 2254.745 | 1912.717 | 3189.717 |
| #3        | 2349.326 | 25640.03 | 2264.898 | 1896.621 | 3186.883 |

Sample Name: P4976-01DLX2      Acquired: 12/13/2024 13:53:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0142646 | .0251786 | .0318617 | -.035799 | -.006776 | 7.594028 | .0314147 |
| Stddev | .0016518 | .0026623 | .0006559 | .002152  | .001781  | .055463  | .0004066 |
| %RSD   | 11.57983 | 10.57367 | 2.058666 | 6.011452 | 26.29002 | .7303446 | 1.294174 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0153566 | .0244221 | .0317082 | -.035525 | -.006059 | 7.640404 | .0316871 |
| #2 | .0123643 | .0229765 | .0325808 | -.038075 | -.005465 | 7.609091 | .0309474 |
| #3 | .0150729 | .0281373 | .0312962 | -.033797 | -.008804 | 7.532590 | .0316096 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009885 | .0006990 | 534.2363 | .0201737 | .0512022 | .0303797 | 30.75563 |
| Stddev | .0001689 | .0000292 | 1.3531   | .0010030 | .0003533 | .0070922 | .12581   |
| %RSD   | 17.08771 | 4.169756 | .2532746 | 4.972056 | .6900641 | 23.34541 | .4090764 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0008707 | .0006929 | 535.3335 | .0212028 | .0513209 | .0383840 | 30.87721 |
| #2 | .0009127 | .0006734 | 534.6510 | .0201194 | .0508049 | .0248782 | 30.76372 |
| #3 | .0011820 | .0007307 | 532.7244 | .0191989 | .0514810 | .0278768 | 30.62597 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.152336 | 142.2486 | .0418257 | -.003959 | 2.241468 | .0322348 | .0644350 |
| Stddev | .001409  | .6795    | .0005648 | .000247  | .292551  | .0059910 | .0133854 |
| %RSD   | .1222898 | .4777009 | 1.350313 | 6.235777 | 13.05177 | 18.58538 | 20.77343 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.153740 | 142.8610 | .0424777 | -.003951 | 2.541722 | .0343762 | .0763470 |
| #2 | 1.152345 | 142.3671 | .0415106 | -.004209 | 1.957282 | .0368609 | .0670083 |
| #3 | 1.150922 | 141.5176 | .0414887 | -.003716 | 2.225399 | .0254674 | .0499499 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.98923 | .8113007 | .0085807 | .0040438 | .4711634 | 1.962539 | .0102476 |
| Stddev | .08779   | .0048073 | .0034804 | .0006093 | .0076191 | .004748  | .0021611 |
| %RSD   | 4.413448 | .5925396 | 40.56021 | 15.06643 | 1.617078 | .2419233 | 21.08888 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.89871 | .8057904 | .0075097 | .0043958 | .4623656 | 1.957475 | .0117099 |
| #2 | -2.07401 | .8146365 | .0057617 | .0033403 | .4755471 | 1.963251 | .0077653 |
| #3 | -1.99498 | .8134753 | .0124707 | .0043954 | .4755774 | 1.966890 | .0112677 |

Sample Name: P4976-01DLX2      Acquired: 12/13/2024 13:53:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2302917 | .3528123 | .0033913 |
| Stddev | .0011676 | .0008968 | .0041291 |
| %RSD   | .5070026 | .2541815 | 121.7544 |
| #1     | .2316315 | .3538322 | .0074583 |
| #2     | .2297518 | .3521472 | .0035128 |
| #3     | .2294918 | .3524576 | -.000797 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2281.969 | 25288.23 | 2294.616 | 1845.478 | 2784.025 |
| Stddev    | 4.952    | 72.91    | 4.333    | 4.027    | 3.986    |
| %RSD      | .2169909 | .2883013 | .1888466 | .2181854 | .1431576 |
| #1        | 2278.756 | 25280.26 | 2289.832 | 1845.882 | 2780.153 |
| #2        | 2287.672 | 25219.64 | 2298.278 | 1841.265 | 2788.115 |
| #3        | 2279.480 | 25364.80 | 2295.737 | 1849.287 | 2783.806 |

Sample Name: P4976-02DLX2      Acquired: 12/13/2024 13:56:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0119656 | .0252613 | .0285495 | -.037015 | -.005697 | 6.675788 | .0360961 |
| Stddev | .0055471 | .0014267 | .0038452 | .000528  | .001577  | .013801  | .0005257 |
| %RSD   | 46.35837 | 5.647918 | 13.46842 | 1.425230 | 27.68062 | .2067302 | 1.456416 |
| #1     | .0161329 | .0268300 | .0256326 | -.036937 | -.005170 | 6.691446 | .0356484 |
| #2     | .0056695 | .0240411 | .0329069 | -.037577 | -.004451 | 6.665394 | .0366750 |
| #3     | .0140945 | .0249127 | .0271090 | -.036531 | -.007470 | 6.670524 | .0359650 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008492 | .0006375 | 640.9263 | .0202919 | .0478600 | .0356557 | 29.06100 |
| Stddev | .0000967 | .0001455 | 1.4476   | .0005528 | .0003473 | .0044505 | .11217   |
| %RSD   | 11.38562 | 22.82849 | .2258651 | 2.724307 | .7255925 | 12.48189 | .3859919 |
| #1     | .0008031 | .0007848 | 642.0196 | .0208965 | .0474590 | .0306557 | 29.15823 |
| #2     | .0007842 | .0004938 | 639.2846 | .0201672 | .0480585 | .0371277 | 28.93827 |
| #3     | .0009603 | .0006340 | 641.4747 | .0198121 | .0480625 | .0391837 | 29.08649 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.146216 | 96.94499 | .0333193 | -.002233 | 1.843186 | .0396528 | .0703366 |
| Stddev | .002521  | .18621   | .0003412 | .000843  | .267325  | .0083623 | .0105335 |
| %RSD   | .2199443 | .1920810 | 1.023952 | 37.75943 | 14.50342 | 21.08874 | 14.97582 |
| #1     | 1.148518 | 96.83724 | .0330830 | -.002326 | 1.588162 | .0301328 | .0599512 |
| #2     | 1.143522 | 96.83772 | .0331644 | -.003026 | 1.820084 | .0458110 | .0700464 |
| #3     | 1.146608 | 97.16001 | .0337104 | -.001347 | 2.121312 | .0430147 | .0810122 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.26512 | .8802534 | .0011039 | .0037574 | .5562056 | 2.114038 | .0084248 |
| Stddev | .13727   | .0010872 | .0007343 | .0005348 | .0047118 | .007175  | .0010530 |
| %RSD   | 6.060092 | .1235084 | 66.52282 | 14.23286 | .8471398 | .3394049 | 12.49921 |
| #1     | -2.25997 | .8798928 | .0002737 | .0042923 | .5608448 | 2.111569 | .0096374 |
| #2     | -2.13050 | .8793924 | .0013694 | .0032227 | .5514244 | 2.122122 | .0078972 |
| #3     | -2.40489 | .8814751 | .0016685 | .0037572 | .5563476 | 2.108424 | .0077399 |

Sample Name: P4976-02DLX2      Acquired: 12/13/2024 13:56:59      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2778096 | .4821998 | -.003324 |
| Stddev | .0028473 | .0008654 | .002480  |
| %RSD   | 1.024905 | .1794707 | 74.61063 |
| #1     | .2802094 | .4829476 | -.002172 |
| #2     | .2785560 | .4812518 | -.006171 |
| #3     | .2746635 | .4824000 | -.001630 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2311.781 | 25521.20 | 2307.346 | 1866.951 | 2810.172 |
| Stddev    | 5.374    | 92.05    | 11.167   | 6.786    | 5.023    |
| %RSD      | .2324457 | .3606780 | .4839620 | .3634647 | .1787259 |
| #1        | 2313.706 | 25604.55 | 2295.702 | 1873.152 | 2814.108 |
| #2        | 2305.709 | 25536.66 | 2308.372 | 1867.999 | 2804.515 |
| #3        | 2315.926 | 25422.40 | 2317.965 | 1859.702 | 2811.893 |



Sample Name: P4976-03DLX2      Acquired: 12/13/2024 14:00:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0313676 | .0246110 | .0302762 | -.036566 | -.005871 | 9.635334 | .0445697 |
| Stddev | .0035581 | .0023224 | .0016128 | .003139  | .001009  | .016588  | .0005869 |
| %RSD   | 11.34342 | 9.436450 | 5.326954 | 8.585755 | 17.18792 | .1721557 | 1.316761 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0312744 | .0242278 | .0294155 | -.033174 | -.005632 | 9.640278 | .0440147 |
| #2 | .0278569 | .0225041 | .0292763 | -.039369 | -.006979 | 9.616836 | .0445106 |
| #3 | .0349714 | .0271012 | .0321367 | -.037156 | -.005003 | 9.648887 | .0451839 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008171 | .0004853 | 533.4386 | .0310276 | .0499722 | .0345278 | 29.45714 |
| Stddev | .0000868 | .0000376 | 1.2802   | .0007501 | .0002232 | .0023134 | .07227   |
| %RSD   | 10.61820 | 7.749494 | .2399971 | 2.417450 | .4466868 | 6.700123 | .2453461 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0008790 | .0004931 | 532.5390 | .0318152 | .0497864 | .0362789 | 29.37448 |
| #2 | .0007179 | .0005184 | 534.9043 | .0309458 | .0499104 | .0353993 | 29.48853 |
| #3 | .0008543 | .0004444 | 532.8725 | .0303217 | .0502198 | .0319052 | 29.50841 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.539961 | 131.6919 | .0444167 | -.002602 | 2.594886 | .0412536 | .0849572 |
| Stddev | .001953  | .4035    | .0010263 | .000512  | .301603  | .0130697 | .0039170 |
| %RSD   | .0768747 | .3064024 | 2.310512 | 19.67936 | 11.62300 | 31.68138 | 4.610544 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.540135 | 131.3186 | .0449170 | -.002851 | 2.857953 | .0439343 | .0805632 |
| #2 | 2.541821 | 132.1200 | .0432362 | -.002942 | 2.265713 | .0527751 | .0880826 |
| #3 | 2.537927 | 131.6370 | .0450968 | -.002013 | 2.660992 | .0270514 | .0862260 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.26992 | .9065638 | .0014954 | .0016308 | 2.492326 | 1.899491 | .0070175 |
| Stddev | .12282   | .0049997 | .0011294 | .0000979 | .007624  | .009443  | .0004832 |
| %RSD   | 5.410701 | .5515039 | 75.52420 | 6.000361 | .3059015 | .4971237 | 6.884908 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.35274 | .9050540 | .0016055 | .0017415 | 2.497253 | 1.888959 | .0075475 |
| #2 | -2.32820 | .9024929 | .0003150 | .0015951 | 2.483544 | 1.907202 | .0066016 |
| #3 | -2.12881 | .9121444 | .0025659 | .0015558 | 2.496181 | 1.902311 | .0069034 |

Sample Name: P4976-03DLX2      Acquired: 12/13/2024 14:00:53      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29D9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3422775 | .3852989 | -.003925 |
| Stddev | .0016520 | .0005785 | .005547  |
| %RSD   | .4826434 | .1501422 | 141.3177 |
| #1     | .3405799 | .3851084 | -.003976 |
| #2     | .3438798 | .3859486 | -.009447 |
| #3     | .3423727 | .3848397 | .001647  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2320.536 | 25415.44 | 2317.421 | 1856.149 | 2809.097 |
| Stddev    | 1.765    | 196.78   | 12.241   | 6.132    | 2.283    |
| %RSD      | .0760652 | .7742466 | .5282290 | .3303718 | .0812553 |
| #1        | 2322.105 | 25188.23 | 2331.196 | 1849.096 | 2811.612 |
| #2        | 2320.879 | 25531.14 | 2313.278 | 1860.221 | 2807.156 |
| #3        | 2318.625 | 25526.95 | 2307.789 | 1859.129 | 2808.524 |

Sample Name: P4976-05DLX2      Acquired: 12/13/2024 14:04:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0138640 | .0227871 | .0353623 | -.033172 | -.004257 | 10.12952 | .0446821 |
| Stddev | .0039175 | .0014241 | .0003056 | .000899  | .000345  | .04119   | .0007495 |
| %RSD   | 28.25698 | 6.249613 | .8642783 | 2.708873 | 8.092683 | .4065966 | 1.677403 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0097143 | .0234755 | .0354874 | -.032135 | -.004519 | 10.12093 | .0454502 |
| #2 | .0143792 | .0211496 | .0355855 | -.033733 | -.003867 | 10.17433 | .0446434 |
| #3 | .0174984 | .0237362 | .0350140 | -.033646 | -.004385 | 10.09331 | .0439527 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010961 | .0006497 | 488.8715 | .0252236 | .0496737 | .0296072 | 31.36380 |
| Stddev | .0000388 | .0000694 | .5709    | .0005927 | .0002962 | .0076261 | .08570   |
| %RSD   | 3.535442 | 10.67342 | .1167830 | 2.349747 | .5962662 | 25.75758 | .2732568 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0010867 | .0005914 | 489.3846 | .0253258 | .0498309 | .0353377 | 31.38132 |
| #2 | .0011387 | .0007264 | 488.2565 | .0245865 | .0493320 | .0325324 | 31.27069 |
| #3 | .0010629 | .0006314 | 488.9733 | .0257586 | .0498581 | .0209516 | 31.43939 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.086494 | 115.3171 | .0403176 | -.004115 | 2.515561 | .0448848 | .0799448 |
| Stddev | .002624  | .0696    | .0011017 | .001171  | .572598  | .0100616 | .0029076 |
| %RSD   | .2415097 | .0603633 | 2.732556 | 28.46675 | 22.76224 | 22.41643 | 3.636988 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.084684 | 115.2715 | .0390989 | -.004128 | 3.127476 | .0455187 | .0832609 |
| #2 | 1.085296 | 115.3972 | .0406110 | -.002937 | 2.426487 | .0345213 | .0778320 |
| #3 | 1.089504 | 115.2825 | .0412429 | -.005279 | 1.992720 | .0546145 | .0787416 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.21267 | .8836365 | .0090388 | .0041237 | .5455806 | 4.840290 | .0085180 |
| Stddev | .13153   | .0018021 | .0010903 | .0002060 | .0051173 | .028387  | .0002109 |
| %RSD   | 10.84662 | .2039452 | 12.06204 | 4.994522 | .9379502 | .5864752 | 2.476198 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.09991 | .8845033 | .0085212 | .0041930 | .5405023 | 4.824812 | .0086262 |
| #2 | -1.35717 | .8815648 | .0083038 | .0038920 | .5507360 | 4.873052 | .0086529 |
| #3 | -1.18093 | .8848415 | .0102915 | .0042860 | .5455037 | 4.823006 | .0082750 |

Sample Name: P4976-05DLX2      Acquired: 12/13/2024 14:04:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .4152220 | .3651743 | -.013369 |
| Stddev | .0076016 | .0006214 | .003560  |
| %RSD   | 1.830737 | .1701538 | 26.62763 |
| #1     | .4236579 | .3653548 | -.009382 |
| #2     | .4131044 | .3644827 | -.016230 |
| #3     | .4089038 | .3656855 | -.014496 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2345.899 | 25718.20 | 2332.729 | 1880.045 | 2873.137 |
| Stddev    | 8.021    | 65.52    | 9.343    | 8.346    | 10.852   |
| %RSD      | .3419047 | .2547574 | .4005053 | .4438998 | .3777162 |
| #1        | 2353.053 | 25652.95 | 2343.464 | 1870.554 | 2882.257 |
| #2        | 2347.417 | 25717.67 | 2326.437 | 1883.347 | 2876.019 |
| #3        | 2337.228 | 25783.98 | 2328.285 | 1886.234 | 2861.134 |

Sample Name: P4976-06DLX2      Acquired: 12/13/2024 14:08:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0131606 | .0272996 | .0308618 | -.042270 | -.007273 | 7.015029 | .0298609 |
| Stddev | .0013036 | .0018018 | .0010095 | .002329  | .000127  | .020024  | .0009278 |
| %RSD   | 9.905678 | 6.599907 | 3.270978 | 5.510329 | 1.751091 | .2854425 | 3.107162 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0118847 | .0293580 | .0303666 | -.040493 | -.007255 | 7.037266 | .0305403 |
| #2 | .0144903 | .0260082 | .0301956 | -.041410 | -.007156 | 6.998424 | .0288038 |
| #3 | .0131069 | .0265328 | .0320233 | -.044907 | -.007409 | 7.009397 | .0302385 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010091 | .0006086 | 698.5695 | .0190986 | .0507997 | .0304095 | 28.80866 |
| Stddev | .0001721 | .0000769 | 2.9896   | .0009870 | .0002961 | .0039830 | .26531   |
| %RSD   | 17.05495 | 12.63916 | .4279626 | 5.167776 | .5828424 | 13.09798 | .9209247 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009067 | .0006827 | 701.9294 | .0179803 | .0505537 | .0262728 | 29.08470 |
| #2 | .0012078 | .0005291 | 696.2034 | .0194672 | .0507169 | .0307369 | 28.55558 |
| #3 | .0009128 | .0006140 | 697.5756 | .0198482 | .0511283 | .0342187 | 28.78571 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.146522 | 240.7386 | .0378026 | -.003916 | 2.364625 | .0282548 | .0588484 |
| Stddev | .006806  | 1.1630   | .0002880 | .000882  | .246507  | .0100217 | .0052762 |
| %RSD   | .5936394 | .4831138 | .7618264 | 22.51965 | 10.42478 | 35.46907 | 8.965777 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.154320 | 242.0715 | .0379651 | -.002948 | 2.633212 | .0376370 | .0527574 |
| #2 | 1.141779 | 240.2143 | .0379726 | -.004673 | 2.311952 | .0294304 | .0620094 |
| #3 | 1.143467 | 239.9299 | .0374701 | -.004127 | 2.148713 | .0176972 | .0617783 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.21719 | .8517133 | .0045204 | .0026996 | .6870118 | 1.512358 | .0082106 |
| Stddev | .18059   | .0013536 | .0011223 | .0001047 | .0068266 | .009881  | .0008425 |
| %RSD   | 8.144834 | .1589228 | 24.82648 | 3.878541 | .9936717 | .6533218 | 10.26176 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.25408 | .8528003 | .0046730 | .0025934 | .6933768 | 1.523353 | .0078649 |
| #2 | -2.02100 | .8501972 | .0033296 | .0028027 | .6798021 | 1.504224 | .0091710 |
| #3 | -2.37647 | .8521424 | .0055585 | .0027027 | .6878566 | 1.509496 | .0075958 |

Sample Name: P4976-06DLX2      Acquired: 12/13/2024 14:08:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2366191 | .4563420 | -.005598 |
| Stddev | .0014674 | .0006965 | .004124  |
| %RSD   | .6201601 | .1526241 | 73.65944 |
| #1     | .2375221 | .4570481 | -.003859 |
| #2     | .2374092 | .4556555 | -.002629 |
| #3     | .2349259 | .4563226 | -.010307 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2245.535 | 24933.24 | 2268.391 | 1814.574 | 2707.229 |
| Stddev    | .584     | 94.86    | 9.943    | 5.655    | 4.743    |
| %RSD      | .0260164 | .3804533 | .4383292 | .3116687 | .1752070 |
| #1        | 2246.138 | 25042.44 | 2257.018 | 1821.090 | 2710.640 |
| #2        | 2244.972 | 24886.12 | 2275.438 | 1810.942 | 2701.812 |
| #3        | 2245.494 | 24871.17 | 2272.717 | 1811.690 | 2709.234 |

Sample Name: P4976-07DLX2      Acquired: 12/13/2024 14:12:37      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0117292 | .0289720 | .0291805 | -.037967 | -.007469 | 6.553457 | .0319637 |
| Stddev | .0019402 | .0016170 | .0035308 | .008105  | .000392  | .054115  | .0009329 |
| %RSD   | 16.54171 | 5.581098 | 12.10001 | 21.34796 | 5.241974 | .8257507 | 2.918789 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0138197 | .0273072 | .0253264 | -.029328 | -.007130 | 6.558443 | .0329273 |
| #2 | .0099862 | .0290723 | .0322593 | -.045404 | -.007897 | 6.604907 | .0310648 |
| #3 | .0113817 | .0305364 | .0299557 | -.039170 | -.007380 | 6.497022 | .0318989 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0007985 | .0005599 | 671.1030 | .0203014 | .0487337 | .0209845 | 29.63436 |
| Stddev | .0000283 | .0001078 | 3.7034   | .0007763 | .0005210 | .0069511 | .13439   |
| %RSD   | 3.540673 | 19.25387 | .5518319 | 3.824076 | 1.069127 | 33.12485 | .4534894 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0007725 | .0006840 | 672.8188 | .0195157 | .0488679 | .0238691 | 29.53470 |
| #2 | .0007945 | .0004901 | 673.6373 | .0203204 | .0481587 | .0130555 | 29.78720 |
| #3 | .0008286 | .0005055 | 666.8529 | .0210681 | .0491745 | .0260288 | 29.58118 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.338259 | 161.8817 | .0320589 | -.004966 | 2.082497 | .0323412 | .0590961 |
| Stddev | .005344  | .7924    | .0006990 | .001079  | .119655  | .0109338 | .0102370 |
| %RSD   | .3993056 | .4895007 | 2.180362 | 21.71937 | 5.745752 | 33.80760 | 17.32264 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.341000 | 162.6049 | .0323146 | -.005510 | 1.973459 | .0441802 | .0681944 |
| #2 | 1.341676 | 162.0055 | .0325941 | -.005664 | 2.210503 | .0302198 | .0480115 |
| #3 | 1.332101 | 161.0347 | .0312681 | -.003724 | 2.063529 | .0226236 | .0610825 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.73342 | .9215601 | .0028480 | .0018950 | .8293762 | 1.319342 | .0090735 |
| Stddev | .08186   | .0049144 | .0005407 | .0004552 | .0011301 | .014463  | .0019092 |
| %RSD   | 2.994913 | .5332692 | 18.98556 | 24.02057 | .1362580 | 1.096254 | 21.04138 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.76311 | .9184207 | .0034677 | .0020608 | .8297483 | 1.330114 | .0071393 |
| #2 | -2.79630 | .9190360 | .0026038 | .0013801 | .8281069 | 1.325009 | .0091245 |
| #3 | -2.64086 | .9272236 | .0024724 | .0022440 | .8302732 | 1.302904 | .0109566 |

Sample Name: P4976-07DLX2      Acquired: 12/13/2024 14:12:37      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2749349 | .4133281 | -.011457 |
| Stddev | .0021880 | .0021238 | .001712  |
| %RSD   | .7958374 | .5138399 | 14.94068 |
| #1     | .2773488 | .4141623 | -.009506 |
| #2     | .2743741 | .4149083 | -.012160 |
| #3     | .2730819 | .4109139 | -.012705 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2267.883 | 24980.99 | 2284.065 | 1815.211 | 2749.017 |
| Stddev    | 4.734    | 108.20   | 16.604   | 10.588   | 5.352    |
| %RSD      | .2087418 | .4331281 | .7269548 | .5832762 | .1947001 |
| #1        | 2270.033 | 25087.74 | 2271.855 | 1826.479 | 2754.418 |
| #2        | 2271.162 | 24983.82 | 2277.369 | 1813.684 | 2748.917 |
| #3        | 2262.456 | 24871.40 | 2302.972 | 1805.470 | 2743.715 |



Sample Name: P4976-08DLX2      Acquired: 12/13/2024 14:16:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0755144 | .0259267 | .0332744 | -.040531 | -.005456 | 9.965038 | .0496741 |
| Stddev | .0028605 | .0023350 | .0007612 | .001603  | .002005  | .046662  | .0012783 |
| %RSD   | 3.787962 | 9.006100 | 2.287572 | 3.954082 | 36.75678 | .4682521 | 2.573428 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0724643 | .0232782 | .0334283 | -.038725 | -.006911 | 9.990658 | .0511382 |
| #2 | .0759419 | .0268137 | .0339468 | -.041784 | -.006289 | 9.993277 | .0487800 |
| #3 | .0781371 | .0276883 | .0324480 | -.041084 | -.003168 | 9.911179 | .0491040 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011146 | .0006516 | 617.7110 | .0271310 | .0536114 | .0285016 | 32.26200 |
| Stddev | .0001105 | .0001746 | 1.7704   | .0001209 | .0003370 | .0029265 | .04630   |
| %RSD   | 9.914800 | 26.79147 | .2866072 | .4456845 | .6286497 | 10.26765 | .1435002 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0010274 | .0004606 | 619.6109 | .0270360 | .0536907 | .0315132 | 32.30658 |
| #2 | .0010775 | .0006913 | 617.4146 | .0270898 | .0532418 | .0256685 | 32.26524 |
| #3 | .0012388 | .0008030 | 616.1075 | .0272671 | .0539017 | .0283231 | 32.21416 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.381965 | 96.55666 | .0463672 | -.003416 | 1.906436 | .0415836 | .0830394 |
| Stddev | .003274  | .30337   | .0003498 | .001249  | .390766  | .0025845 | .0034579 |
| %RSD   | .2369175 | .3141876 | .7543974 | 36.56891 | 20.49722 | 6.215238 | 4.164215 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.378727 | 96.21000 | .0467086 | -.003551 | 1.762210 | .0436062 | .0802970 |
| #2 | 1.385274 | 96.77366 | .0463833 | -.002104 | 2.348816 | .0424727 | .0869239 |
| #3 | 1.381895 | 96.68631 | .0460096 | -.004591 | 1.608282 | .0386719 | .0818973 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.07232 | .8801039 | -.002965 | .0072201 | 6.775738 | 2.236304 | .0087582 |
| Stddev | .19138   | .0028042 | .000759  | .0001103 | .030613  | .028317  | .0004644 |
| %RSD   | 9.235320 | .3186193 | 25.59577 | 1.527994 | .4518034 | 1.266236 | 5.302188 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.28442 | .8769159 | -.002089 | .0073405 | 6.746177 | 2.205138 | .0083903 |
| #2 | -2.02001 | .8812070 | -.003414 | .0071238 | 6.773732 | 2.260452 | .0092800 |
| #3 | -1.91252 | .8821888 | -.003393 | .0071961 | 6.807304 | 2.243321 | .0086042 |

Sample Name: P4976-08DLX2      Acquired: 12/13/2024 14:16:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3967174 | .5432156 | -.000594 |
| Stddev | .0035408 | .0023558 | .003412  |
| %RSD   | .8925246 | .4336789 | 574.8337 |
| #1     | .3934867 | .5405672 | -.004046 |
| #2     | .3961627 | .5440023 | -.000512 |
| #3     | .4005028 | .5450775 | .002777  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2315.666 | 25612.22 | 2315.389 | 1863.677 | 2818.283 |
| Stddev    | 4.311    | 92.75    | 14.756   | 7.950    | 2.506    |
| %RSD      | .1861575 | .3621197 | .6372864 | .4265957 | .0889173 |
| #1        | 2310.751 | 25505.48 | 2332.190 | 1855.241 | 2815.424 |
| #2        | 2317.443 | 25673.13 | 2304.536 | 1871.031 | 2820.099 |
| #3        | 2318.804 | 25658.04 | 2309.440 | 1864.760 | 2819.326 |

Sample Name: P4976-09DLX2      Acquired: 12/13/2024 14:20:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0771557 | .0259619 | .0323999 | -.038265 | -.008515 | 9.784698 | .0492768 |
| Stddev | .0020516 | .0014802 | .0010929 | .002304  | .004049  | .019614  | .0007261 |
| %RSD   | 2.658985 | 5.701294 | 3.373210 | 6.020155 | 47.55033 | .2004535 | 1.473434 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0751255 | .0245953 | .0336611 | -.039312 | -.008610 | 9.807332 | .0500983 |
| #2 | .0792280 | .0257562 | .0318099 | -.035624 | -.004419 | 9.772690 | .0487212 |
| #3 | .0771138 | .0275341 | .0317289 | -.039860 | -.012515 | 9.774073 | .0490108 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010264 | .0005491 | 614.4584 | .0268152 | .0534151 | .0315050 | 32.05268 |
| Stddev | .0000518 | .0001195 | .8765    | .0004529 | .0008646 | .0025000 | .13625   |
| %RSD   | 5.043667 | 21.75463 | .1426380 | 1.688968 | 1.618668 | 7.935127 | .4250864 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0010861 | .0004149 | 615.4703 | .0265674 | .0535019 | .0343910 | 32.16265 |
| #2 | .0009946 | .0006439 | 613.9377 | .0273379 | .0542331 | .0300095 | 31.90026 |
| #3 | .0009984 | .0005886 | 613.9673 | .0265402 | .0525104 | .0301144 | 32.09515 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.374130 | 95.08181 | .0464416 | -.003276 | 2.502885 | .0346578 | .0944843 |
| Stddev | .003139  | .36097   | .0005278 | .001706  | .477842  | .0098093 | .0064004 |
| %RSD   | .2284092 | .3796440 | 1.136519 | 52.09198 | 19.09164 | 28.30338 | 6.773994 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.377691 | 95.49689 | .0467202 | -.002032 | 2.339222 | .0298955 | .0898639 |
| #2 | 1.371766 | 94.84138 | .0458329 | -.002574 | 3.041053 | .0459392 | .0917990 |
| #3 | 1.372932 | 94.90715 | .0467718 | -.005221 | 2.128379 | .0281388 | .1017898 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.02336 | .8642001 | -.003139 | .0070260 | 6.664110 | 2.153544 | .0081204 |
| Stddev | .05423   | .0035898 | .001784  | .0001352 | .011354  | .009657  | .0005503 |
| %RSD   | 2.680186 | .4153901 | 56.83750 | 1.924753 | .1703736 | .4484023 | 6.776912 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.96104 | .8624561 | -.002124 | .0071794 | 6.673470 | 2.150541 | .0087038 |
| #2 | -2.04921 | .8618156 | -.005199 | .0069240 | 6.651480 | 2.164345 | .0080470 |
| #3 | -2.05983 | .8683287 | -.002094 | .0069746 | 6.667381 | 2.145745 | .0076105 |

Sample Name: P4976-09DLX2      Acquired: 12/13/2024 14:20:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3871567 | .5387951 | .0033242 |
| Stddev | .0013605 | .0014448 | .0022781 |
| %RSD   | .3514172 | .2681496 | 68.52916 |
| #1     | .3880588 | .5403855 | .0009204 |
| #2     | .3878195 | .5375636 | .0036010 |
| #3     | .3855918 | .5384361 | .0054512 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2310.869 | 25525.61 | 2318.365 | 1862.789 | 2834.148 |
| Stddev    | 2.721    | 106.23   | 14.410   | 9.217    | 4.303    |
| %RSD      | .1177629 | .4161886 | .6215472 | .4948062 | .1518373 |
| #1        | 2311.965 | 25553.59 | 2309.200 | 1866.757 | 2834.975 |
| #2        | 2312.871 | 25408.18 | 2310.921 | 1852.252 | 2837.978 |
| #3        | 2307.770 | 25615.05 | 2334.974 | 1869.358 | 2829.491 |

Sample Name: P4976-08LDLX10      Acquired: 12/13/2024 14:24:18      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0131955 | .0170799 | .0104596 | -.021526 | -.004826 | 2.009906 | .0113304 |
| Stddev | .0035438 | .0015440 | .0013396 | .004316  | .002484  | .010132  | .0008909 |
| %RSD   | 26.85610 | 9.039569 | 12.80733 | 20.04939 | 51.47178 | .5041121 | 7.862801 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0169739 | .0182522 | .0105026 | -.026510 | -.004643 | 2.011102 | .0104568 |
| #2 | .0126666 | .0176569 | .0117771 | -.018976 | -.007396 | 2.019386 | .0122376 |
| #3 | .0099458 | .0153305 | .0090989 | -.019093 | -.002438 | 1.999228 | .0112969 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002502 | .0001363 | 126.1804 | .0053189 | .0286409 | .0045750 | 6.784619 |
| Stddev | .0000870 | .0001132 | .4203    | .0007937 | .0002541 | .0058029 | .046998  |
| %RSD   | 34.77773 | 83.02360 | .3331152 | 14.92184 | .8872630 | 126.8398 | .6927137 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002291 | .0001225 | 126.5811 | .0044218 | .0289211 | .0004361 | 6.837612 |
| #2 | .0001757 | .0002558 | 125.7429 | .0056049 | .0285763 | .0020809 | 6.768255 |
| #3 | .0003459 | .0000307 | 126.2173 | .0059299 | .0284254 | .0112079 | 6.747991 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2889153 | 19.94959 | .0079831 | -.000002 | 2.498912 | .0088786 | .0261381 |
| Stddev | .0038530 | .22487   | .0001148 | .000707  | .189960  | .0020265 | .0067666 |
| %RSD   | 1.333594 | 1.127180 | 1.438046 | 41891.60 | 7.601711 | 22.82443 | 25.88801 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2925010 | 20.13214 | .0078508 | -.000794 | 2.384586 | .0096132 | .0272836 |
| #2 | .2848416 | 19.69840 | .0080561 | .000224  | 2.393958 | .0065873 | .0322588 |
| #3 | .2894035 | 20.01822 | .0080424 | .000565  | 2.718192 | .0104354 | .0188718 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.701339 | .1617173 | -.008865 | .0018764 | 1.255046 | .4308936 | .0011218 |
| Stddev | .130869  | .0024595 | .001529  | .0000801 | .003001  | .0023889 | .0003420 |
| %RSD   | 18.65987 | 1.520852 | 17.25286 | 4.270267 | .2390995 | .5544072 | 30.49197 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.603611 | .1637569 | -.007404 | .0019049 | 1.258322 | .4335812 | .0007549 |
| #2 | -.850021 | .1589860 | -.010455 | .0017859 | 1.254386 | .4300882 | .0011785 |
| #3 | -.650385 | .1624088 | -.008737 | .0019383 | 1.252430 | .4290116 | .0014319 |

Sample Name: P4976-08LDLX10      Acquired: 12/13/2024 14:24:18      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0768611 | .1102401 | -.036431 |
| Stddev | .0031262 | .0004021 | .000657  |
| %RSD   | 4.067331 | .3647467 | 1.802789 |
| #1     | .0775998 | .1107015 | -.037182 |
| #2     | .0734318 | .1099650 | -.035963 |
| #3     | .0795519 | .1100536 | -.036148 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2358.847 | 25953.73 | 2308.127 | 1908.833 | 3098.411 |
| Stddev    | 5.180    | 36.17    | 10.060   | 7.711    | 3.130    |
| %RSD      | .2196004 | .1393506 | .4358463 | .4039544 | .1010148 |
| #1        | 2357.776 | 25990.74 | 2299.741 | 1914.862 | 3097.217 |
| #2        | 2364.478 | 25951.97 | 2319.281 | 1900.145 | 3101.962 |
| #3        | 2354.285 | 25918.47 | 2305.359 | 1911.493 | 3096.053 |

Sample Name: P4976-10DLX2      Acquired: 12/13/2024 14:28:18      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1164446 | .0762637 | .0506031 | .0500173 | .0781496 | 11.54945 | 2.008972 |
| Stddev | .0029385 | .0017427 | .0003512 | .0043112 | .0019841 | .02315   | .005921  |
| %RSD   | 2.523479 | 2.285035 | .6939689 | 8.619366 | 2.538825 | .2004190 | .2947361 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1130807 | .0781463 | .0508252 | .0540721 | .0797727 | 11.52348 | 2.006214 |
| #2 | .1185108 | .0759375 | .0501983 | .0504909 | .0787383 | 11.56792 | 2.015769 |
| #3 | .1177423 | .0747071 | .0507858 | .0454889 | .0759378 | 11.55694 | 2.004933 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0498160 | .0479962 | 604.8237 | .2291961 | .5206578 | .2599428 | 32.58963 |
| Stddev | .0002661 | .0000504 | .9788    | .0013052 | .0004554 | .0067962 | .12705   |
| %RSD   | .5342695 | .1049951 | .1618244 | .5694528 | .0874730 | 2.614496 | .3898610 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0499231 | .0479615 | 604.6482 | .2306218 | .5211726 | .2575903 | 32.59316 |
| #2 | .0500119 | .0480540 | 605.8784 | .2289064 | .5204933 | .2546354 | 32.71489 |
| #3 | .0495130 | .0479732 | 603.9447 | .2280601 | .5203074 | .2676027 | 32.46085 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.842680 | 93.74917 | .5262088 | .0373484 | 1.900902 | .5440144 | .5163453 |
| Stddev | .003215  | .38440   | .0012565 | .0002945 | .600165  | .0062975 | .0052401 |
| %RSD   | .1744769 | .4100332 | .2387876 | .7885087 | 31.57263 | 1.157604 | 1.014850 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.841528 | 93.64994 | .5269938 | .0376094 | 1.208880 | .5508999 | .5203397 |
| #2 | 1.846313 | 94.17345 | .5268730 | .0374068 | 2.214862 | .5385465 | .5182842 |
| #3 | 1.840201 | 93.42411 | .5247596 | .0370291 | 2.278963 | .5425968 | .5104120 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.26808 | .8387321 | -.005118 | .0067320 | 6.454861 | 2.162972 | .0087402 |
| Stddev | .10056   | .0005587 | .001035  | .0001446 | .008450  | .010304  | .0013376 |
| %RSD   | 4.433837 | .0666159 | 20.21290 | 2.147475 | .1309110 | .4763653 | 15.30379 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.25005 | .8383552 | -.006145 | .0065750 | 6.462067 | 2.159968 | .0095569 |
| #2 | -2.37644 | .8393740 | -.004076 | .0067615 | 6.445561 | 2.174444 | .0094671 |
| #3 | -2.17776 | .8384671 | -.005133 | .0068596 | 6.456956 | 2.154504 | .0071966 |

Sample Name: P4976-10DLX2      Acquired: 12/13/2024 14:28:18      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E4S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3821561 | .5254286 | -.004824 |
| Stddev | .0058339 | .0012384 | .005308  |
| %RSD   | 1.526567 | .2357006 | 110.0229 |
| #1     | .3875595 | .5240676 | -.009922 |
| #2     | .3829380 | .5264891 | -.005221 |
| #3     | .3759707 | .5257292 | .000671  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2291.805 | 25529.40 | 2308.033 | 1861.540 | 2823.382 |
| Stddev    | 4.721    | 41.63    | 11.297   | 7.445    | 7.224    |
| %RSD      | .2059978 | .1630667 | .4894486 | .3999475 | .2558601 |
| #1        | 2287.244 | 25571.33 | 2309.573 | 1858.710 | 2819.262 |
| #2        | 2291.500 | 25488.07 | 2296.045 | 1869.985 | 2819.160 |
| #3        | 2296.672 | 25528.79 | 2318.480 | 1855.925 | 2831.723 |



Sample Name: P4976-11DLX2      Acquired: 12/13/2024 14:32:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0085282 | .0274606 | .0327110 | -.039844 | -.004163 | 8.220543 | .0495964 |
| Stddev | .0043875 | .0019574 | .0003455 | .003973  | .002525  | .040516  | .0011315 |
| %RSD   | 51.44750 | 7.128135 | 1.056183 | 9.970837 | 60.65472 | .4928602 | 2.281365 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0102375 | .0295351 | .0330897 | -.042797 | -.004572 | 8.256545 | .0505608 |
| #2 | .0035432 | .0272005 | .0326301 | -.035327 | -.001459 | 8.228417 | .0498775 |
| #3 | .0118037 | .0256463 | .0324131 | -.041408 | -.006459 | 8.176669 | .0483509 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008811 | .0008059 | 757.5884 | .0240410 | .0515609 | .0303164 | 34.90334 |
| Stddev | .0001038 | .0000891 | 3.8029   | .0005485 | .0002620 | .0076913 | .28188   |
| %RSD   | 11.77649 | 11.05827 | .5019802 | 2.281483 | .5081644 | 25.36997 | .8075979 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0008561 | .0008885 | 761.9671 | .0246715 | .0517304 | .0330966 | 35.22489 |
| #2 | .0007921 | .0007114 | 755.1114 | .0236739 | .0512591 | .0216216 | 34.78627 |
| #3 | .0009950 | .0008176 | 755.6867 | .0237777 | .0516932 | .0362309 | 34.69887 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.471941 | 231.2073 | .0384943 | -.003367 | 2.560393 | .0269118 | .0629267 |
| Stddev | .019743  | .9900    | .0002335 | .000508  | .974839  | .0120948 | .0042167 |
| %RSD   | .7986641 | .4281771 | .6065543 | 15.09202 | 38.07380 | 44.94246 | 6.700939 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.494737 | 232.2642 | .0382589 | -.003950 | 3.358981 | .0394697 | .0629442 |
| #2 | 2.460639 | 231.0560 | .0387258 | -.003012 | 1.474074 | .0153405 | .0671347 |
| #3 | 2.460446 | 230.3017 | .0384981 | -.003141 | 2.848125 | .0259251 | .0587013 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.09726 | 1.006069 | .0063602 | .0038518 | 1.759891 | 1.896108 | .0091926 |
| Stddev | .09628   | .007610  | .0032609 | .0007605 | .006963  | .020992  | .0016372 |
| %RSD   | 4.590553 | .7564432 | 51.27067 | 19.74495 | .3956363 | 1.107100 | 17.80961 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.00708 | .999819  | .0101082 | .0033155 | 1.751853 | 1.919554 | .0109266 |
| #2 | -2.08604 | 1.003844 | .0041737 | .0035177 | 1.763767 | 1.879059 | .0089778 |
| #3 | -2.19865 | 1.014544 | .0047986 | .0047222 | 1.764054 | 1.889712 | .0076735 |

Sample Name: P4976-11DLX2      Acquired: 12/13/2024 14:32:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2076161 | .4704281 | .0083621 |
| Stddev | .0042742 | .0024855 | .0056525 |
| %RSD   | 2.058711 | .5283505 | 67.59705 |
| #1     | .2054987 | .4730635 | .0033834 |
| #2     | .2048139 | .4681261 | .0145067 |
| #3     | .2125357 | .4700948 | .0071962 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2238.467 | 24938.20 | 2264.346 | 1796.811 | 2666.763 |
| Stddev    | 3.902    | 96.16    | 16.737   | 7.090    | 3.263    |
| %RSD      | .1743027 | .3856071 | .7391459 | .3946146 | .1223428 |
| #1        | 2240.882 | 24993.66 | 2247.604 | 1793.079 | 2669.389 |
| #2        | 2233.965 | 24827.16 | 2264.356 | 1792.366 | 2663.110 |
| #3        | 2240.553 | 24993.79 | 2281.078 | 1804.988 | 2667.790 |

Sample Name: P4976-12DLX2      Acquired: 12/13/2024 14:36:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0188990 | .0247484 | .0382740 | -.034207 | -.003539 | 11.24867 | .0485855 |
| Stddev | .0028985 | .0019090 | .0013775 | .004016  | .001171  | .03721   | .0006484 |
| %RSD   | 15.33705 | 7.713597 | 3.598935 | 11.73910 | 33.09388 | .3308230 | 1.334522 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0164782 | .0233208 | .0396436 | -.030637 | -.003172 | 11.21503 | .0478949 |
| #2 | .0181077 | .0240076 | .0382897 | -.033431 | -.004849 | 11.28864 | .0486806 |
| #3 | .0221109 | .0269167 | .0368888 | -.038555 | -.002595 | 11.24234 | .0491811 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0013886 | .0008683 | 575.2010 | .0404995 | .0558820 | .0334981 | 48.24217 |
| Stddev | .0001432 | .0001106 | 1.7532   | .0005453 | .0005259 | .0010909 | .12508   |
| %RSD   | 10.30954 | 12.74147 | .3047990 | 1.346391 | .9410818 | 3.256559 | .2592737 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012781 | .0008694 | 574.7315 | .0400661 | .0561304 | .0326692 | 48.16721 |
| #2 | .0013375 | .0007571 | 577.1411 | .0411118 | .0562376 | .0330912 | 48.38656 |
| #3 | .0015504 | .0009784 | 573.7303 | .0403208 | .0552779 | .0347340 | 48.17273 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.299820 | 132.6021 | .0625653 | -.004886 | 2.583062 | .0537913 | .0999537 |
| Stddev | .001347  | .3010    | .0002231 | .001409  | .708938  | .0052986 | .0029147 |
| %RSD   | .1036043 | .2269727 | .3565479 | 28.82952 | 27.44566 | 9.850205 | 2.916067 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.301119 | 132.3993 | .0624499 | -.005712 | 2.977111 | .0545141 | .1021181 |
| #2 | 1.299911 | 132.9479 | .0624237 | -.003260 | 1.764637 | .0586914 | .1011035 |
| #3 | 1.298430 | 132.4592 | .0628225 | -.005687 | 3.007437 | .0481685 | .0966394 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.96843 | 1.371671 | .0013914 | .0037426 | .6036114 | 1.797932 | .0092835 |
| Stddev | .20500   | .001936  | .0019935 | .0006092 | .0078663 | .010962  | .0013729 |
| %RSD   | 10.41447 | .1411062 | 143.2786 | 16.27685 | 1.303212 | .6097180 | 14.78899 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.06195 | 1.372388 | .0036768 | .0041087 | .5955090 | 1.801049 | .0077478 |
| #2 | -1.73335 | 1.373146 | .0000110 | .0040798 | .6112182 | 1.806999 | .0097104 |
| #3 | -2.10999 | 1.369479 | .0004862 | .0030394 | .6041070 | 1.785749 | .0103923 |

Sample Name: P4976-12DLX2      Acquired: 12/13/2024 14:36:03      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .4523248 | .3747319 | .0056627 |
| Stddev | .0022206 | .0012279 | .0049350 |
| %RSD   | .4909246 | .3276630 | 87.15068 |
| #1     | .4498008 | .3738907 | .0026908 |
| #2     | .4531959 | .3741640 | .0029377 |
| #3     | .4539778 | .3761409 | .0113594 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2301.059 | 25506.64 | 2309.463 | 1852.254 | 2794.999 |
| Stddev    | 1.061    | 51.79    | 9.380    | 7.387    | 3.398    |
| %RSD      | .0461034 | .2030307 | .4061539 | .3988037 | .1215698 |
| #1        | 2300.472 | 25463.28 | 2308.914 | 1850.219 | 2791.131 |
| #2        | 2302.284 | 25563.98 | 2300.369 | 1860.445 | 2797.506 |
| #3        | 2300.422 | 25492.66 | 2319.105 | 1846.098 | 2796.358 |

Sample Name: P4976-13DLX2      Acquired: 12/13/2024 14:39:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0114809 | .0243317 | .0309435 | -.036645 | -.005688 | 6.418380 | .0357136 |
| Stddev | .0010403 | .0018890 | .0014920 | .001162  | .003824  | .021995  | .0000735 |
| %RSD   | 9.060772 | 7.763612 | 4.821549 | 3.170454 | 67.22948 | .3426851 | .2059129 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0123913 | .0243708 | .0296702 | -.036553 | -.009953 | 6.434252 | .0357709 |
| #2 | .0117043 | .0262008 | .0305753 | -.037851 | -.004545 | 6.393273 | .0357392 |
| #3 | .0103471 | .0224234 | .0325851 | -.035533 | -.002566 | 6.427614 | .0356307 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008502 | .0005708 | 499.3104 | .0183341 | .0452591 | .0263491 | 25.75451 |
| Stddev | .0000503 | .0000670 | 2.0839   | .0003681 | .0008555 | .0021670 | .19539   |
| %RSD   | 5.920781 | 11.73090 | .4173626 | 2.007930 | 1.890257 | 8.224174 | .7586816 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0007935 | .0004978 | 501.7157 | .0183737 | .0459629 | .0262370 | 25.95670 |
| #2 | .0008673 | .0006294 | 498.1676 | .0179477 | .0455074 | .0285700 | 25.74010 |
| #3 | .0008897 | .0005852 | 498.0479 | .0186808 | .0443069 | .0242404 | 25.56671 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.550509 | 136.6648 | .0312667 | -.002429 | 2.048268 | .0259579 | .0614416 |
| Stddev | .010243  | .9378    | .0007637 | .001026  | .835525  | .0087143 | .0085246 |
| %RSD   | .6606395 | .6861890 | 2.442654 | 42.23523 | 40.79177 | 33.57088 | 13.87441 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.561480 | 137.7410 | .0315946 | -.003541 | 3.012477 | .0348308 | .0516107 |
| #2 | 1.548852 | 136.2301 | .0318117 | -.002225 | 1.537396 | .0174113 | .0659271 |
| #3 | 1.541195 | 136.0233 | .0303938 | -.001520 | 1.594932 | .0256316 | .0667869 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.15673 | .7512583 | .0063598 | .0023305 | .5390219 | 1.428579 | .0065594 |
| Stddev | .11455   | .0047431 | .0031927 | .0002845 | .0018969 | .014940  | .0001361 |
| %RSD   | 5.311196 | .6313482 | 50.20053 | 12.20630 | .3519213 | 1.045823 | 2.074937 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.03496 | .7459572 | .0074275 | .0024325 | .5401067 | 1.445696 | .0064125 |
| #2 | -2.26235 | .7551006 | .0088818 | .0020091 | .5401274 | 1.421880 | .0065844 |
| #3 | -2.17288 | .7527170 | .0027701 | .0025499 | .5368315 | 1.418160 | .0066812 |

Sample Name: P4976-13DLX2      Acquired: 12/13/2024 14:39:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1842792 | .4008843 | -.002216 |
| Stddev | .0040404 | .0018726 | .003776  |
| %RSD   | 2.192521 | .4671247 | 170.4354 |
| #1     | .1854229 | .4029140 | -.003759 |
| #2     | .1876244 | .4005151 | -.004976 |
| #3     | .1797902 | .3992237 | .002088  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2320.740 | 25669.80 | 2342.375 | 1863.067 | 2828.690 |
| Stddev    | 9.401    | 47.96    | 16.068   | 9.362    | 8.949    |
| %RSD      | .4051007 | .1868221 | .6859809 | .5024994 | .3163685 |
| #1        | 2327.206 | 25724.90 | 2326.930 | 1873.504 | 2833.650 |
| #2        | 2325.059 | 25637.46 | 2341.193 | 1855.409 | 2834.062 |
| #3        | 2309.955 | 25647.05 | 2359.001 | 1860.290 | 2818.360 |

Sample Name: P4976-14DLX2      Acquired: 12/13/2024 14:43:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0167227 | .0294232 | .0381796 | -.034905 | -.001462 | 11.38037 | .0541580 |
| Stddev | .0030868 | .0026260 | .0008322 | .005719  | .001432  | .07709   | .0006266 |
| %RSD   | 18.45850 | 8.924887 | 2.179777 | 16.38512 | 97.95822 | .6774076 | 1.156886 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0179360 | .0304780 | .0383074 | -.030745 | -.001340 | 11.35485 | .0547457 |
| #2 | .0190184 | .0264338 | .0389405 | -.041427 | -.002950 | 11.31927 | .0534987 |
| #3 | .0132136 | .0313577 | .0372908 | -.032543 | -.000095 | 11.46698 | .0542297 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0013163 | .0006777 | 640.0508 | .0386425 | .0537325 | .0320144 | 40.37883 |
| Stddev | .0002384 | .0000816 | 1.1502   | .0004000 | .0000686 | .0085950 | .11212   |
| %RSD   | 18.10947 | 12.04429 | .1797087 | 1.035232 | .1276997 | 26.84717 | .2776746 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0013735 | .0006236 | 641.3784 | .0382345 | .0536655 | .0356261 | 40.49894 |
| #2 | .0010545 | .0007716 | 639.4205 | .0386590 | .0537293 | .0222029 | 40.36062 |
| #3 | .0015208 | .0006379 | 639.3536 | .0390341 | .0538026 | .0382142 | 40.27693 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.510437 | 105.9647 | .0533270 | -.004306 | 2.027300 | .0483557 | .1184442 |
| Stddev | .001553  | .3612    | .0004785 | .001493  | .669220  | .0085283 | .0010390 |
| %RSD   | .1028441 | .3409015 | .8972753 | 34.67760 | 33.01041 | 17.63663 | .8771623 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.509486 | 105.5476 | .0536182 | -.005260 | 1.332710 | .0579279 | .1172827 |
| #2 | 1.512230 | 106.1773 | .0527748 | -.005073 | 2.667876 | .0455726 | .1187648 |
| #3 | 1.509596 | 106.1693 | .0535881 | -.002585 | 2.081314 | .0415667 | .1192851 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.77318 | 1.193661 | -.001856 | .0014121 | 2.092742 | 3.095237 | .0098180 |
| Stddev | .08035   | .002938  | .001627  | .0007265 | .009014  | .035524  | .0011275 |
| %RSD   | 4.531445 | .2461651 | 87.66537 | 51.44613 | .4307295 | 1.147714 | 11.48449 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.82115 | 1.190476 | -.000738 | .0021174 | 2.101268 | 3.054789 | .0086032 |
| #2 | -1.68042 | 1.194240 | -.001108 | .0014528 | 2.083308 | 3.109547 | .0108310 |
| #3 | -1.81797 | 1.196267 | -.003723 | .0006661 | 2.093649 | 3.121375 | .0100197 |

Sample Name: P4976-14DLX2      Acquired: 12/13/2024 14:43:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .5055650 | .4419070 | .0027381 |
| Stddev | .0103436 | .0006425 | .0039974 |
| %RSD   | 2.045942 | .1453861 | 145.9927 |
| #1     | .5143451 | .4411732 | .0055075 |
| #2     | .5081872 | .4421798 | -.001845 |
| #3     | .4941627 | .4423681 | .004551  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2302.428 | 25495.74 | 2334.810 | 1858.927 | 2785.142 |
| Stddev    | 2.285    | 26.46    | 1.927    | 4.542    | 5.134    |
| %RSD      | .0992476 | .1037862 | .0825404 | .2443520 | .1843312 |
| #1        | 2300.787 | 25475.64 | 2336.986 | 1857.000 | 2784.490 |
| #2        | 2305.038 | 25485.87 | 2334.126 | 1855.666 | 2790.571 |
| #3        | 2301.459 | 25525.72 | 2333.318 | 1864.115 | 2780.365 |



Sample Name: P4976-15DLX2      Acquired: 12/13/2024 14:47:46      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0527370 | .0225593 | .0421047 | -.035860 | -.001199 | 9.873962 | .0532967 |
| Stddev | .0002316 | .0038311 | .0016838 | .002144  | .001736  | .020650  | .0005288 |
| %RSD   | .4392647 | 16.98219 | 3.999126 | 5.978756 | 144.7536 | .2091318 | .9920843 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0524894 | .0181482 | .0410043 | -.038275 | .000657  | 9.896573 | .0535765 |
| #2 | .0527731 | .0250541 | .0412667 | -.034182 | -.002783 | 9.856101 | .0526869 |
| #3 | .0529484 | .0244757 | .0440431 | -.035122 | -.001471 | 9.869214 | .0536268 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0015956 | .0009112 | 513.2995 | .0259717 | .0576167 | .0451198 | 46.16695 |
| Stddev | .0000240 | .0000930 | 1.9114   | .0009803 | .0002034 | .0043116 | .25761   |
| %RSD   | 1.502854 | 10.20352 | .3723710 | 3.774534 | .3530515 | 9.555974 | .5580007 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0015834 | .0009868 | 515.4954 | .0251014 | .0575789 | .0430712 | 46.45279 |
| #2 | .0015802 | .0008074 | 512.0101 | .0257799 | .0578364 | .0422144 | 46.09535 |
| #3 | .0016233 | .0009394 | 512.3928 | .0270337 | .0574349 | .0500738 | 45.95271 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.309381 | 102.4761 | .0647897 | -.004128 | 2.273350 | .0675717 | .1086212 |
| Stddev | .007520  | .3505    | .0007001 | .000231  | .462584  | .0082698 | .0065277 |
| %RSD   | .5742978 | .3420481 | 1.080584 | 5.596628 | 20.34813 | 12.23861 | 6.009553 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.318059 | 102.8627 | .0644225 | -.003863 | 1.809905 | .0705859 | .1072241 |
| #2 | 1.304791 | 102.3866 | .0643496 | -.004288 | 2.275078 | .0739116 | .1029052 |
| #3 | 1.305293 | 102.1790 | .0655970 | -.004233 | 2.735068 | .0582175 | .1157343 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.03626 | .9106752 | -.003683 | .0069874 | 5.456206 | 2.338913 | .0082466 |
| Stddev | .08258   | .0011805 | .001098  | .0006922 | .022376  | .012491  | .0011225 |
| %RSD   | 4.055276 | .1296336 | 29.81412 | 9.906161 | .4101070 | .5340547 | 13.61136 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.12520 | .9115565 | -.003861 | .0077391 | 5.470740 | 2.353067 | .0072139 |
| #2 | -2.02157 | .9093339 | -.004681 | .0068467 | 5.430439 | 2.329433 | .0094412 |
| #3 | -1.96201 | .9111353 | -.002507 | .0063763 | 5.467440 | 2.334237 | .0080846 |

Sample Name: P4976-15DLX2      Acquired: 12/13/2024 14:47:46      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29E9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .4524635 | .4408509 | -.006553 |
| Stddev | .0067796 | .0024918 | .006123  |
| %RSD   | 1.498370 | .5652236 | 93.44476 |
| #1     | .4590895 | .4437277 | -.000695 |
| #2     | .4527610 | .4394570 | -.006052 |
| #3     | .4455401 | .4393680 | -.012911 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2309.106 | 25739.74 | 2330.451 | 1872.882 | 2826.984 |
| Stddev    | 4.433    | 97.28    | 6.692    | 3.972    | 4.082    |
| %RSD      | .1919839 | .3779298 | .2871468 | .2120931 | .1443844 |
| #1        | 2305.284 | 25840.43 | 2323.161 | 1875.299 | 2823.199 |
| #2        | 2308.069 | 25646.28 | 2336.314 | 1875.050 | 2831.309 |
| #3        | 2313.966 | 25732.49 | 2331.880 | 1868.298 | 2826.445 |

Sample Name: P4976-16DLX2      Acquired: 12/13/2024 14:51:40      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0189553 | .0242091 | .0321744 | -.039122 | -.006387 | 7.692188 | .0493907 |
| Stddev | .0042631 | .0013193 | .0009226 | .001775  | .002004  | .090643  | .0010190 |
| %RSD   | 22.49003 | 5.449450 | 2.867587 | 4.536729 | 31.37895 | 1.178375 | 2.063187 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0228770 | .0248805 | .0311641 | -.041166 | -.005672 | 7.757005 | .0502323 |
| #2 | .0144179 | .0250576 | .0329722 | -.038225 | -.008650 | 7.588609 | .0482577 |
| #3 | .0195710 | .0226892 | .0323870 | -.037974 | -.004838 | 7.730950 | .0496820 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010481 | .0005435 | 437.6197 | .0205295 | .0475433 | .0328097 | 30.64942 |
| Stddev | .0001455 | .0000567 | 5.0847   | .0006393 | .0002632 | .0035124 | .37906   |
| %RSD   | 13.88686 | 10.43183 | 1.161899 | 3.114130 | .5535760 | 10.70552 | 1.236753 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0010296 | .0006049 | 442.4081 | .0201937 | .0474602 | .0287620 | 31.02060 |
| #2 | .0009127 | .0005323 | 432.2831 | .0201280 | .0478380 | .0346119 | 30.26295 |
| #3 | .0012020 | .0004932 | 438.1677 | .0212667 | .0473317 | .0350553 | 30.66471 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.042680 | 102.6314 | .0400235 | -.003047 | 1.661228 | .0341700 | .0769561 |
| Stddev | .006236  | 1.1470   | .0008628 | .000539  | .444398  | .0096597 | .0033059 |
| %RSD   | .5980459 | 1.117617 | 2.155606 | 17.69778 | 26.75121 | 28.26958 | 4.295868 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.049548 | 103.5500 | .0397954 | -.003363 | 1.595119 | .0235576 | .0737698 |
| #2 | 1.037373 | 101.3458 | .0409773 | -.002424 | 2.134977 | .0424499 | .0767286 |
| #3 | 1.041118 | 102.9985 | .0392976 | -.003353 | 1.253587 | .0365024 | .0803699 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.44545 | .7971072 | -.002123 | .0037208 | .4889631 | 1.488945 | .0078993 |
| Stddev | .10542   | .0012846 | .001748  | .0003183 | .0063547 | .019157  | .0015693 |
| %RSD   | 4.310777 | .1611633 | 82.36291 | 8.553586 | 1.299625 | 1.286585 | 19.86655 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.36922 | .7968594 | -.003568 | .0039619 | .4831505 | 1.507439 | .0096392 |
| #2 | -2.56575 | .7959645 | -.000180 | .0033600 | .4879910 | 1.469188 | .0074677 |
| #3 | -2.40137 | .7984977 | -.002620 | .0038404 | .4957478 | 1.490209 | .0065909 |

Sample Name: P4976-16DLX2      Acquired: 12/13/2024 14:51:40      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2634164 | .3491803 | -.009297 |
| Stddev | .0019715 | .0031490 | .004302  |
| %RSD   | .7484513 | .9018116 | 46.26733 |
| #1     | .2616015 | .3519294 | -.010129 |
| #2     | .2631336 | .3457448 | -.004641 |
| #3     | .2655140 | .3498669 | -.013123 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2324.437 | 25797.57 | 2327.688 | 1870.081 | 2867.379 |
| Stddev    | 4.702    | 12.51    | 29.616   | 3.141    | 4.646    |
| %RSD      | .2022847 | .0484984 | 1.272326 | .1679731 | .1620157 |
| #1        | 2320.251 | 25811.89 | 2299.213 | 1872.781 | 2863.045 |
| #2        | 2323.536 | 25788.79 | 2358.326 | 1866.633 | 2866.809 |
| #3        | 2329.525 | 25792.02 | 2325.526 | 1870.829 | 2872.284 |

Sample Name: P4976-17DLX2      Acquired: 12/13/2024 14:55:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0184531 | .0226001 | .0319801 | -.034399 | -.005274 | 6.708565 | .0471278 |
| Stddev | .0030853 | .0031753 | .0011189 | .002236  | .001293  | .013957  | .0006899 |
| %RSD   | 16.71980 | 14.04984 | 3.498734 | 6.499206 | 24.51302 | .2080455 | 1.463970 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0217839 | .0238401 | .0307123 | -.035466 | -.004376 | 6.704934 | .0470481 |
| #2 | .0156929 | .0249683 | .0328294 | -.035901 | -.004691 | 6.696782 | .0478541 |
| #3 | .0178825 | .0189920 | .0323985 | -.031830 | -.006756 | 6.723978 | .0464811 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010110 | .0005315 | 435.9201 | .0182291 | .0462706 | .0247324 | 29.87933 |
| Stddev | .0000463 | .0000822 | 1.0206   | .0015010 | .0004107 | .0050354 | .05515   |
| %RSD   | 4.583144 | 15.45973 | .2341364 | 8.234258 | .8875410 | 20.35937 | .1845806 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009735 | .0005581 | 434.7495 | .0166317 | .0466273 | .0220108 | 29.82810 |
| #2 | .0009969 | .0005971 | 436.6237 | .0196103 | .0463629 | .0305428 | 29.93770 |
| #3 | .0010628 | .0004393 | 436.3870 | .0184452 | .0458216 | .0216435 | 29.87219 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .9272842 | 124.0904 | .0365416 | -.003479 | 2.405587 | .0311140 | .0669354 |
| Stddev | .0004847 | .3349    | .0006020 | .001138  | .632019  | .0026358 | .0025138 |
| %RSD   | .0522665 | .2698535 | 1.647526 | 32.70846 | 26.27296 | 8.471543 | 3.755553 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .9277500 | 123.7105 | .0371179 | -.002847 | 2.953113 | .0280797 | .0640373 |
| #2 | .9273199 | 124.2181 | .0365900 | -.002798 | 2.549687 | .0328370 | .0682440 |
| #3 | .9267826 | 124.3426 | .0359168 | -.004793 | 1.713961 | .0324252 | .0685250 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.83120 | .7149780 | -.000876 | .0034673 | .4671884 | 1.916343 | .0088354 |
| Stddev | .10225   | .0027271 | .001190  | .0007018 | .0049495 | .006746  | .0011115 |
| %RSD   | 5.583575 | .3814259 | 135.8801 | 20.23956 | 1.059420 | .3520370 | 12.57975 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.75438 | .7120285 | -.002250 | .0030817 | .4724840 | 1.919833 | .0096622 |
| #2 | -1.79198 | .7174079 | -.000240 | .0042774 | .4664021 | 1.908567 | .0075719 |
| #3 | -1.94725 | .7154976 | -.000139 | .0030429 | .4626792 | 1.920630 | .0092722 |

Sample Name: P4976-17DLX2      Acquired: 12/13/2024 14:55:34      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2955867 | .2984984 | -.005830 |
| Stddev | .0020326 | .0008231 | .002473  |
| %RSD   | .6876364 | .2757428 | 42.41590 |
| #1     | .2970465 | .2980043 | -.003169 |
| #2     | .2964484 | .2980424 | -.006264 |
| #3     | .2932653 | .2994486 | -.008057 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2296.804 | 25421.05 | 2294.157 | 1845.503 | 2827.057 |
| Stddev    | 5.754    | 42.22    | 5.453    | 7.697    | 8.895    |
| %RSD      | .2505050 | .1661019 | .2376906 | .4170922 | .3146237 |
| #1        | 2292.382 | 25464.46 | 2292.126 | 1853.542 | 2821.678 |
| #2        | 2303.309 | 25418.57 | 2300.333 | 1838.200 | 2837.324 |
| #3        | 2294.720 | 25380.12 | 2290.010 | 1844.767 | 2822.169 |

Sample Name: P4976-18DLX2      Acquired: 12/13/2024 14:59:30      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0130879 | .0240918 | .0410852 | -.030563 | -.005995 | 10.60076 | .0506487 |
| Stddev | .0021151 | .0015478 | .0017331 | .004753  | .001890  | .03022   | .0008296 |
| %RSD   | 16.16104 | 6.424803 | 4.218365 | 15.55113 | 31.51904 | .2850572 | 1.637869 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0106470 | .0256984 | .0424911 | -.028959 | -.007185 | 10.56596 | .0516013 |
| #2 | .0143824 | .0226103 | .0391488 | -.026819 | -.006984 | 10.62042 | .0502601 |
| #3 | .0142342 | .0239667 | .0416156 | -.035910 | -.003816 | 10.61590 | .0500848 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0012797 | .0008356 | 566.4273 | .0313114 | .0520927 | .0460509 | 37.88715 |
| Stddev | .0000291 | .0000103 | 1.5146   | .0008142 | .0004427 | .0013120 | .08356   |
| %RSD   | 2.269995 | 1.228434 | .2673935 | 2.600287 | .8497702 | 2.849119 | .2205447 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012464 | .0008444 | 565.7515 | .0309359 | .0518550 | .0450242 | 37.88493 |
| #2 | .0012998 | .0008379 | 568.1621 | .0322456 | .0518196 | .0475290 | 37.97179 |
| #3 | .0012928 | .0008243 | 565.3682 | .0307528 | .0526034 | .0455994 | 37.80472 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.129385 | 128.7065 | .0600191 | -.005428 | 1.501755 | .0406109 | .1172274 |
| Stddev | .008322  | .4481    | .0007846 | .000722  | .488348  | .0077605 | .0075311 |
| %RSD   | .7368916 | .3481588 | 1.307208 | 13.31092 | 32.51846 | 19.10938 | 6.424347 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.124576 | 128.4804 | .0592842 | -.006007 | 1.792396 | .0430052 | .1085689 |
| #2 | 1.138995 | 129.2226 | .0599278 | -.004618 | 1.774919 | .0319354 | .1208569 |
| #3 | 1.124584 | 128.4166 | .0608453 | -.005657 | .937950  | .0468922 | .1222566 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.69480 | 1.573609 | -.000360 | .0035414 | .8131618 | 2.392058 | .0085297 |
| Stddev | .04827   | .005440  | .000447  | .0000824 | .0035104 | .017425  | .0018343 |
| %RSD   | 2.848398 | .3456848 | 124.1152 | 2.327072 | .4316989 | .7284464 | 21.50491 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.74057 | 1.567555 | .000017  | .0034548 | .8092042 | 2.373078 | .0069862 |
| #2 | -1.64436 | 1.575183 | -.000854 | .0036189 | .8158998 | 2.407332 | .0105576 |
| #3 | -1.69947 | 1.578087 | -.000243 | .0035504 | .8143813 | 2.395763 | .0080454 |

Sample Name: P4976-18DLX2      Acquired: 12/13/2024 14:59:30      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3666141 | .4280895 | .0049120 |
| Stddev | .0019766 | .0020853 | .0012818 |
| %RSD   | .5391508 | .4871120 | 26.09532 |
| #1     | .3644962 | .4258407 | .0044792 |
| #2     | .3684098 | .4299592 | .0063542 |
| #3     | .3669363 | .4284687 | .0039026 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2339.545 | 25907.67 | 2358.684 | 1886.562 | 2807.650 |
| Stddev    | .991     | 76.76    | 17.289   | 10.436   | 6.337    |
| %RSD      | .0423429 | .2962656 | .7330112 | .5531730 | .2256955 |
| #1        | 2340.224 | 25914.43 | 2376.658 | 1879.986 | 2813.360 |
| #2        | 2340.002 | 25827.76 | 2342.172 | 1881.104 | 2808.759 |
| #3        | 2338.408 | 25980.83 | 2357.221 | 1898.595 | 2800.832 |



Sample Name: P4976-19DLX2      Acquired: 12/13/2024 15:03:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0079428 | .0228944 | .0327258 | -.031042 | -.001770 | 10.87437 | .0589973 |
| Stddev | .0036728 | .0038402 | .0016967 | .003803  | .000077  | .02157   | .0013140 |
| %RSD   | 46.24000 | 16.77343 | 5.184748 | 12.25116 | 4.357313 | .1983497 | 2.227191 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0120892 | .0185083 | .0345629 | -.028979 | -.001739 | 10.86354 | .0582284 |
| #2 | .0050983 | .0245233 | .0312175 | -.035431 | -.001714 | 10.89921 | .0605145 |
| #3 | .0066410 | .0256516 | .0323971 | -.028716 | -.001858 | 10.86036 | .0582490 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011766 | .0005340 | 440.4468 | .0280604 | .0534998 | .0222132 | 40.99614 |
| Stddev | .0000978 | .0000305 | .7373    | .0004745 | .0003429 | .0047716 | .12778   |
| %RSD   | 8.309219 | 5.716063 | .1674038 | 1.690916 | .6409647 | 21.48088 | .3116799 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012729 | .0005329 | 439.7371 | .0277677 | .0531272 | .0275987 | 40.84997 |
| #2 | .0010774 | .0005041 | 441.2090 | .0286079 | .0535698 | .0185129 | 41.08661 |
| #3 | .0011795 | .0005651 | 440.3945 | .0278057 | .0538023 | .0205281 | 41.05185 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.125505 | 86.43481 | .0477455 | -.004438 | 2.030719 | .0425703 | .0930566 |
| Stddev | .004268  | .21766   | .0005025 | .000219  | .170379  | .0108207 | .0065738 |
| %RSD   | .3791837 | .2518240 | 1.052542 | 4.938077 | 8.390088 | 25.41835 | 7.064263 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.124361 | 86.20689 | .0481570 | -.004678 | 2.087744 | .0537494 | .0904443 |
| #2 | 1.130229 | 86.45703 | .0471854 | -.004249 | 1.839142 | .0418139 | .0881904 |
| #3 | 1.121927 | 86.64052 | .0478941 | -.004387 | 2.165272 | .0321477 | .1005349 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.20240 | 1.173461 | -.008503 | .0026512 | .7201396 | 2.167079 | .0077064 |
| Stddev | .14261   | .002157  | .003257  | .0007969 | .0098400 | .010067  | .0006205 |
| %RSD   | 6.475329 | .1837960 | 38.30481 | 30.05788 | 1.366400 | .4645206 | 8.051706 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.29896 | 1.173380 | -.005304 | .0025944 | .7164445 | 2.177068 | .0081259 |
| #2 | -2.26964 | 1.171346 | -.011816 | .0018842 | .7312923 | 2.167234 | .0069936 |
| #3 | -2.03860 | 1.175657 | -.008390 | .0034749 | .7126820 | 2.156936 | .0079997 |

Sample Name: P4976-19DLX2      Acquired: 12/13/2024 15:03:22      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .4198207 | .3660749 | -.002338 |
| Stddev | .0035322 | .0016156 | .002916  |
| %RSD   | .8413629 | .4413224 | 124.7323 |
| #1     | .4206199 | .3646412 | -.005309 |
| #2     | .4159573 | .3657579 | .000520  |
| #3     | .4228848 | .3678254 | -.002225 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2351.624 | 25984.57 | 2351.892 | 1903.407 | 2889.873 |
| Stddev    | 3.849    | 79.76    | 10.277   | 8.396    | 6.561    |
| %RSD      | .1636661 | .3069549 | .4369833 | .4410988 | .2270400 |
| #1        | 2348.519 | 25964.80 | 2348.254 | 1899.681 | 2883.105 |
| #2        | 2355.930 | 25916.56 | 2343.927 | 1897.518 | 2896.205 |
| #3        | 2350.423 | 26072.36 | 2363.493 | 1913.021 | 2890.309 |

Sample Name: P4976-20DLX2      Acquired: 12/13/2024 15:07:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0127113 | .0275911 | .0342882 | -.037177 | -.007606 | 8.698381 | .0371943 |
| Stddev | .0042769 | .0049062 | .0010413 | .004390  | .000808  | .023827  | .0009785 |
| %RSD   | 33.64616 | 17.78196 | 3.036812 | 11.80825 | 10.62002 | .2739259 | 2.630654 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0081576 | .0330044 | .0335173 | -.039456 | -.008128 | 8.681669 | .0382051 |
| #2 | .0133331 | .0234375 | .0354727 | -.039958 | -.006675 | 8.687810 | .0371260 |
| #3 | .0166433 | .0263314 | .0338746 | -.032116 | -.008013 | 8.725665 | .0362518 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009398 | .0007211 | 586.5193 | .0236631 | .0524828 | .0338992 | 32.48963 |
| Stddev | .0000888 | .0000551 | 1.0606   | .0000976 | .0002403 | .0006016 | .12476   |
| %RSD   | 9.444111 | 7.638634 | .1808319 | .4126175 | .4579253 | 1.774556 | .3840024 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009224 | .0006602 | 586.6652 | .0236238 | .0522571 | .0343839 | 32.34565 |
| #2 | .0010360 | .0007673 | 587.4994 | .0235913 | .0524558 | .0332260 | 32.56576 |
| #3 | .0008611 | .0007358 | 585.3933 | .0237743 | .0527355 | .0340878 | 32.55749 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.227925 | 142.1656 | .0432864 | -.002717 | 1.370047 | .0397274 | .0754564 |
| Stddev | .003468  | .3397    | .0011694 | .000825  | .660024  | .0072869 | .0036931 |
| %RSD   | .2823926 | .2389121 | 2.701595 | 30.38004 | 48.17527 | 18.34227 | 4.894352 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.224001 | 141.9778 | .0445779 | -.002249 | .948893  | .0402800 | .0778625 |
| #2 | 1.230576 | 142.5577 | .0422993 | -.003670 | 1.030530 | .0321800 | .0712042 |
| #3 | 1.229198 | 141.9613 | .0429819 | -.002232 | 2.130718 | .0467223 | .0773023 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.93571 | 1.110054 | .0017006 | .0035090 | .5667071 | 2.205335 | .0073381 |
| Stddev | .09348   | .001711  | .0007901 | .0010753 | .0056743 | .003870  | .0001417 |
| %RSD   | 4.829224 | .1541776 | 46.45827 | 30.64543 | 1.001280 | .1754831 | 1.930864 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.85420 | 1.111900 | .0009018 | .0045474 | .5686951 | 2.208954 | .0072516 |
| #2 | -1.91518 | 1.108520 | .0024817 | .0035793 | .5603063 | 2.205795 | .0072610 |
| #3 | -2.03775 | 1.109743 | .0017185 | .0024002 | .5711199 | 2.201255 | .0075016 |

Sample Name: P4976-20DLX2      Acquired: 12/13/2024 15:07:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2927272 | .4365598 | -.000052 |
| Stddev | .0012662 | .0015010 | .003315  |
| %RSD   | .4325615 | .3438279 | 6433.527 |
| #1     | .2918254 | .4355662 | .001785  |
| #2     | .2941748 | .4382865 | -.003878 |
| #3     | .2921814 | .4358266 | .001938  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2290.293 | 25449.14 | 2312.381 | 1850.000 | 2787.438 |
| Stddev    | 4.297    | 25.04    | 1.733    | 4.168    | 1.332    |
| %RSD      | .1876109 | .0983835 | .0749573 | .2252916 | .0477740 |
| #1        | 2290.437 | 25454.67 | 2313.463 | 1854.317 | 2788.468 |
| #2        | 2285.926 | 25421.79 | 2310.382 | 1849.685 | 2785.934 |
| #3        | 2294.516 | 25470.94 | 2313.298 | 1845.999 | 2787.911 |

Sample Name: CCV008      Acquired: 12/13/2024 15:20:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV008      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.832434 | 4.835211 | 23.67267 | 4.613296 | 4.607277 | 376.3629 | 9.699976 |
| Stddev | .013923  | .014717  | .02161   | .007961  | .009293  | .5789    | .011377  |
| %RSD   | .2881253 | .3043751 | .0912724 | .1725683 | .2017111 | .1538094 | .1172929 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.816386 | 4.829859 | 23.67405 | 4.604391 | 4.612543 | 376.9062 | 9.712547 |
| #2 | 4.841307 | 4.823920 | 23.65040 | 4.619724 | 4.596546 | 375.7540 | 9.690386 |
| #3 | 4.839608 | 4.851856 | 23.69354 | 4.615772 | 4.612741 | 376.4286 | 9.696996 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4755117 | 2.368083 | 387.9585 | 14.68204 | 2.356428 | 14.58705 | 386.6692 |
| Stddev | .0013204 | .002849  | .9223    | .02635   | .002509  | .04669   | 1.4768   |
| %RSD   | .2776852 | .1203236 | .2377363 | .1794614 | .1064633 | .3200519 | .3819229 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4761577 | 2.367969 | 389.0083 | 14.67781 | 2.359304 | 14.60008 | 388.2148 |
| #2 | .4739927 | 2.365292 | 387.2783 | 14.71025 | 2.354691 | 14.53523 | 385.2726 |
| #3 | .4763848 | 2.370987 | 387.5888 | 14.65807 | 2.355288 | 14.62583 | 386.5202 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.43774 | 377.1037 | 2.398116 | 1.211351 | 378.0306 | 2.413966 | 13.90199 |
| Stddev | .03927   | 1.2178   | .001694  | .000949  | 1.0084   | .009919  | .10853   |
| %RSD   | .2720269 | .3229440 | .0706454 | .0783110 | .2667450 | .4108969 | .7806819 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.46603 | 378.0054 | 2.400070 | 1.211618 | 378.5477 | 2.421040 | 13.96411 |
| #2 | 14.39290 | 375.7183 | 2.397065 | 1.210297 | 376.8685 | 2.402628 | 13.77667 |
| #3 | 14.45430 | 377.5872 | 2.397212 | 1.212137 | 378.6755 | 2.418229 | 13.96519 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 143.7481 | 4.744579 | 4.621142 | 4.580716 | 4.755141 | 4.685386 | 4.798433 |
| Stddev | .5833    | .005730  | .004957  | .003049  | .010388  | .005226  | .005675  |
| %RSD   | .4057937 | .1207717 | .1072693 | .0665665 | .2184514 | .1115459 | .1182580 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 144.3305 | 4.744865 | 4.626866 | 4.578752 | 4.745127 | 4.690942 | 4.804933 |
| #2 | 143.1639 | 4.738711 | 4.618287 | 4.579168 | 4.754429 | 4.680569 | 4.795899 |
| #3 | 143.7499 | 4.750161 | 4.618272 | 4.584229 | 4.765866 | 4.684646 | 4.794468 |

Sample Name: CCV008      Acquired: 12/13/2024 15:20:57      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV008      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.878999 | 4.570867 | 4.874411 |
| Stddev | .011671  | .012690  | .026360  |
| %RSD   | .2392050 | .2776231 | .5407899 |
| #1     | 4.887904 | 4.578953 | 4.865840 |
| #2     | 4.865786 | 4.556241 | 4.853403 |
| #3     | 4.883306 | 4.577407 | 4.903990 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1961.960 | 23792.11 | 2241.483 | 1635.787 | 2562.312 |
| Stddev    | 3.285    | 54.47    | 12.386   | 12.751   | 6.126    |
| %RSD      | .1674207 | .2289269 | .5525603 | .7794873 | .2390757 |
| #1        | 1958.176 | 23818.57 | 2238.075 | 1633.320 | 2555.863 |
| #2        | 1964.085 | 23828.29 | 2255.216 | 1649.591 | 2568.053 |
| #3        | 1963.618 | 23729.47 | 2231.158 | 1624.450 | 2563.021 |

Sample Name: CCB008      Acquired: 12/13/2024 15:24:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB008      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0012549 | -.000223 | .0072482 | -.001176 | .0051597 | .0743604 |
| Stddev | .0023877 | .002230  | .0015070 | .006136  | .0016319 | .0360020 |
| %RSD   | 190.2664 | 1001.247 | 20.79063 | 521.9016 | 31.62789 | 48.41547 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0036223 | .001862  | .0089430 | .005897  | .0037576 | .0851436 |
| #2 | .0012952 | -.002574 | .0060592 | -.005082 | .0069510 | .0341991 |
| #3 | -.001153 | .000044  | .0067424 | -.004342 | .0047705 | .1037386 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0034417 | .0002209 | .0005323 | .0847939 | .0047214 | .0006758 |
| Stddev | .0013515 | .0000885 | .0000723 | .0214262 | .0010869 | .0001929 |
| %RSD   | 39.26981 | 40.06897 | 13.58257 | 25.26850 | 23.02064 | 28.54859 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0037537 | .0001640 | .0005433 | .1051438 | .0034683 | .0004530 |
| #2 | .0019614 | .0003228 | .0005984 | .0624333 | .0052882 | .0007841 |
| #3 | .0046099 | .0001758 | .0004551 | .0868047 | .0054078 | .0007902 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0041507 | .0713477 | .0030163 | .1516880 | .0000081 | -.000346 |
| Stddev | .0056571 | .0021885 | .0006245 | .0229099 | .0003082 | .000679  |
| %RSD   | 136.2929 | 3.067420 | 20.70341 | 15.10332 | 3793.534 | 195.9562 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.002250 | .0688321 | .0037325 | .1548353 | -.000192 | .000192  |
| #2 | .006224  | .0723963 | .0025852 | .1728616 | -.000146 | -.000122 |
| #3 | .008479  | .0728146 | .0027314 | .1273672 | .000363  | -.001109 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.325076 | -.007286 | .0100989 | -.169086 | .0002063 | .0075800 |
| Stddev | .959088  | .006071  | .0029224 | .161148  | .0021979 | .0011106 |
| %RSD   | 41.24972 | 83.32581 | 28.93773 | 95.30566 | 1065.372 | 14.65192 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.366854 | -.000277 | .0067683 | -.309859 | .0027311 | .0077351 |
| #2 | 2.129570 | -.010905 | .0112943 | .006686  | -.000832 | .0064000 |
| #3 | 1.478805 | -.010676 | .0122340 | -.204084 | -.001280 | .0086050 |

Sample Name: CCB008      Acquired: 12/13/2024 15:24:35      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB008      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
|--------|----------|----------|----------|----------|----------|----------|
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010885 | -.001874 | -.037754 | .0031265 | .0003509 | .0007248 |
| Stddev | .0002056 | .002019  | .000490  | .0006828 | .0029208 | .0003489 |
| %RSD   | 18.88571 | 107.7618 | 1.296819 | 21.84020 | 832.3456 | 48.13780 |
| #1     | .0008603 | -.000022 | -.037355 | .0038998 | .0027168 | .0005244 |
| #2     | .0012592 | -.001572 | -.037607 | .0028732 | -.002914 | .0005224 |
| #3     | .0011459 | -.004027 | -.038301 | .0026065 | .001250  | .0011277 |

| Elem   | Li6707     |
|--------|------------|
| Units  | ppm        |
| Avg    | F -.022323 |
| Stddev | .002922    |
| %RSD   | 13.08829   |
| #1     | -.019196   |
| #2     | -.022790   |
| #3     | -.024983   |

| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
|-----------|----------|----------|----------|----------|----------|
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2383.836 | 26126.76 | 2304.102 | 1932.243 | 3222.572 |
| Stddev    | 6.946    | 181.48   | .746     | 14.654   | 6.552    |
| %RSD      | .2913820 | .6946191 | .0323885 | .7583850 | .2033206 |
| #1        | 2376.321 | 26111.28 | 2304.893 | 1936.114 | 3217.126 |
| #2        | 2385.166 | 25953.51 | 2303.411 | 1916.042 | 3220.746 |
| #3        | 2390.021 | 26315.49 | 2304.003 | 1944.572 | 3229.843 |



Sample Name: P4976-21DLX2      Acquired: 12/13/2024 15:28:37      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0151275 | .0271677 | .0376705 | -.034871 | -.003743 | 9.339418 | .0441138 |
| Stddev | .0011894 | .0020979 | .0033248 | .000842  | .000967  | .022464  | .0005166 |
| %RSD   | 7.862424 | 7.721934 | 8.825923 | 2.414955 | 25.83026 | .2405258 | 1.171081 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0138487 | .0266835 | .0414956 | -.035662 | -.003039 | 9.358062 | .0446135 |
| #2 | .0162007 | .0294653 | .0354741 | -.034966 | -.003345 | 9.314478 | .0435818 |
| #3 | .0153331 | .0253542 | .0360418 | -.033986 | -.004845 | 9.345714 | .0441463 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0013049 | .0007038 | 562.1336 | .0265154 | .0537278 | .0441575 | 36.27063 |
| Stddev | .0000696 | .0000558 | 1.6947   | .0006024 | .0007202 | .0007313 | .14871   |
| %RSD   | 5.334021 | 7.927512 | .3014742 | 2.271721 | 1.340493 | 1.656069 | .4100067 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012253 | .0007074 | 563.9288 | .0267299 | .0535230 | .0444734 | 36.37846 |
| #2 | .0013543 | .0006463 | 560.5616 | .0269812 | .0531321 | .0433214 | 36.33246 |
| #3 | .0013352 | .0007578 | 561.9105 | .0258352 | .0545282 | .0446778 | 36.10098 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.304850 | 127.1227 | .0485383 | -.003538 | 2.244361 | .0407761 | .0866877 |
| Stddev | .002630  | .3492    | .0004295 | .000995  | .206690  | .0066648 | .0023154 |
| %RSD   | .2015293 | .2746843 | .8847999 | 28.11180 | 9.209321 | 16.34491 | 2.670928 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.307885 | 127.5147 | .0489845 | -.002506 | 2.424974 | .0433769 | .0883264 |
| #2 | 1.303410 | 127.0087 | .0481279 | -.003617 | 2.018943 | .0457485 | .0840389 |
| #3 | 1.303255 | 126.8448 | .0485024 | -.004491 | 2.289165 | .0332031 | .0876978 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.63052 | 1.031527 | .0115127 | .0060090 | .6358630 | 1.866127 | .0082737 |
| Stddev | .03484   | .001384  | .0011769 | .0006883 | .0036089 | .010316  | .0013020 |
| %RSD   | 2.136979 | .1342163 | 10.22257 | 11.45415 | .5675552 | .5528169 | 15.73633 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.67066 | 1.033070 | .0123541 | .0068021 | .6368325 | 1.874912 | .0071903 |
| #2 | -1.60807 | 1.030393 | .0120162 | .0055682 | .6318683 | 1.868701 | .0079127 |
| #3 | -1.61284 | 1.031117 | .0101678 | .0056567 | .6388880 | 1.854767 | .0097181 |

Sample Name: P4976-21DLX2      Acquired: 12/13/2024 15:28:37      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3246161 | .4309692 | .0040971 |
| Stddev | .0061067 | .0001778 | .0055567 |
| %RSD   | 1.881204 | .0412556 | 135.6272 |
| #1     | .3310391 | .4309784 | -.001832 |
| #2     | .3239249 | .4307870 | .009186  |
| #3     | .3188845 | .4311423 | .004937  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2310.326 | 25660.90 | 2306.177 | 1869.633 | 2813.833 |
| Stddev    | 8.049    | 77.80    | 8.420    | 1.641    | 7.448    |
| %RSD      | .3483828 | .3032027 | .3651026 | .0877747 | .2646986 |
| #1        | 2317.902 | 25586.73 | 2300.862 | 1867.770 | 2822.283 |
| #2        | 2311.201 | 25741.89 | 2301.784 | 1870.266 | 2808.223 |
| #3        | 2301.876 | 25654.08 | 2315.884 | 1870.864 | 2810.991 |

Sample Name: P4977-01DLX2      Acquired: 12/13/2024 15:32:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0118438 | .0246431 | .0295035 | -.035636 | -.005508 | 9.005872 | .0421867 |
| Stddev | .0006725 | .0007439 | .0017921 | .002420  | .003237  | .018704  | .0007155 |
| %RSD   | 5.678467 | 3.018636 | 6.074329 | 6.790934 | 58.77586 | .2076874 | 1.695967 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0114774 | .0252630 | .0275789 | -.038063 | -.003017 | 9.024730 | .0422184 |
| #2 | .0126200 | .0238182 | .0311243 | -.035622 | -.009168 | 8.987325 | .0414559 |
| #3 | .0114340 | .0248481 | .0298072 | -.033223 | -.004340 | 9.005562 | .0428857 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009944 | .0007233 | 572.8045 | .0307929 | .0493420 | .0269066 | 32.09810 |
| Stddev | .0001619 | .0000190 | 1.6456   | .0001617 | .0004449 | .0054173 | .09269   |
| %RSD   | 16.27867 | 2.626288 | .2872821 | .5249565 | .9017291 | 20.13374 | .2887619 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0011423 | .0007015 | 574.7028 | .0309195 | .0488594 | .0325078 | 32.20493 |
| #2 | .0008214 | .0007363 | 571.7828 | .0306108 | .0494305 | .0216941 | 32.03904 |
| #3 | .0010195 | .0007321 | 571.9278 | .0308485 | .0497360 | .0265179 | 32.05034 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.125374 | 130.3002 | .0426167 | -.002838 | 2.241678 | .0325942 | .0836134 |
| Stddev | .002692  | .1857    | .0005272 | .000789  | .147028  | .0012692 | .0042320 |
| %RSD   | .2391979 | .1425207 | 1.237047 | 27.81065 | 6.558833 | 3.893844 | 5.061403 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.127851 | 130.5006 | .0430451 | -.003745 | 2.075514 | .0340497 | .0832884 |
| #2 | 1.122509 | 130.1339 | .0420280 | -.002465 | 2.294608 | .0317185 | .0879985 |
| #3 | 1.125761 | 130.2661 | .0427770 | -.002305 | 2.354914 | .0320144 | .0795532 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.80942 | 1.053792 | .0049506 | .0016973 | .5547321 | 1.730350 | .0282713 |
| Stddev | .10296   | .003944  | .0017765 | .0002365 | .0025863 | .008293  | .0010681 |
| %RSD   | 5.690011 | .3742456 | 35.88378 | 13.93335 | .4662213 | .4792606 | 3.778108 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.69056 | 1.051065 | .0051101 | .0019682 | .5542346 | 1.731539 | .0294036 |
| #2 | -1.86655 | 1.051996 | .0030998 | .0015317 | .5575310 | 1.721527 | .0272817 |
| #3 | -1.87114 | 1.058314 | .0066419 | .0015921 | .5524308 | 1.737984 | .0281288 |

Sample Name: P4977-01DLX2      Acquired: 12/13/2024 15:32:31      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2414894 | .5336422 | .0125145 |
| Stddev | .0023927 | .0025694 | .0048987 |
| %RSD   | .9907976 | .4814909 | 39.14436 |
| #1     | .2434919 | .5363586 | .0092786 |
| #2     | .2421365 | .5333173 | .0101143 |
| #3     | .2388397 | .5312506 | .0181504 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2293.192 | 25541.53 | 2311.514 | 1848.734 | 2794.689 |
| Stddev    | 1.768    | 28.68    | 9.229    | 4.095    | .912     |
| %RSD      | .0770789 | .1122846 | .3992500 | .2215134 | .0326380 |
| #1        | 2294.820 | 25515.42 | 2303.280 | 1844.112 | 2793.904 |
| #2        | 2291.312 | 25572.22 | 2321.489 | 1850.184 | 2794.475 |
| #3        | 2293.442 | 25536.95 | 2309.772 | 1851.907 | 2795.690 |

Sample Name: P4977-02DLX2      Acquired: 12/13/2024 15:36:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0399562 | .0306876 | .0420121 | -.035778 | -.003663 | 10.65855 | .1373482 |
| Stddev | .0047301 | .0019958 | .0018149 | .004460  | .000517  | .03729   | .0005466 |
| %RSD   | 11.83820 | 6.503547 | 4.319854 | 12.46661 | 14.11505 | .3498845 | .3979412 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0367131 | .0285417 | .0428342 | -.040303 | -.003231 | 10.69301 | .1376763 |
| #2 | .0377719 | .0324882 | .0399316 | -.031386 | -.003523 | 10.61896 | .1376511 |
| #3 | .0453838 | .0310328 | .0432703 | -.035644 | -.004236 | 10.66368 | .1367173 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010287 | .0015424 | 591.8005 | .0318427 | .0586353 | .0450321 | 50.28686 |
| Stddev | .0001848 | .0000470 | 2.0367   | .0003841 | .0003195 | .0045536 | .07087   |
| %RSD   | 17.96469 | 3.048521 | .3441456 | 1.206107 | .5448198 | 10.11194 | .1409256 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012418 | .0015056 | 594.1398 | .0322541 | .0584821 | .0420987 | 50.36852 |
| #2 | .0009302 | .0015262 | 590.8402 | .0317806 | .0584213 | .0502779 | 50.24151 |
| #3 | .0009139 | .0015954 | 590.4216 | .0314935 | .0590025 | .0427196 | 50.25055 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.365905 | 140.6940 | .0847452 | -.005053 | 2.330810 | .0536939 | .1163709 |
| Stddev | .020230  | .4049    | .0007150 | .000453  | .563610  | .0069132 | .0099630 |
| %RSD   | .4633592 | .2877910 | .8436835 | 8.961468 | 24.18085 | 12.87526 | 8.561422 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.384302 | 141.1571 | .0851358 | -.005022 | 1.886007 | .0491635 | .1232348 |
| #2 | 4.369174 | 140.5182 | .0851799 | -.005520 | 2.964634 | .0616512 | .1209343 |
| #3 | 4.344240 | 140.4067 | .0839201 | -.004616 | 2.141789 | .0502672 | .1049435 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.72134 | 1.331567 | .0043299 | .0052259 | .6211125 | 1.911506 | .0117469 |
| Stddev | .08672   | .005435  | .0033611 | .0003033 | .0047549 | .019441  | .0005244 |
| %RSD   | 5.038036 | .4081345 | 77.62492 | 5.804029 | .7655516 | 1.017046 | 4.464088 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.78615 | 1.335330 | .0019729 | .0054954 | .6192587 | 1.930396 | .0111414 |
| #2 | -1.75503 | 1.325337 | .0028382 | .0048975 | .6265152 | 1.912564 | .0120425 |
| #3 | -1.62282 | 1.334036 | .0081788 | .0052848 | .6175638 | 1.891558 | .0120566 |

Sample Name: P4977-02DLX2      Acquired: 12/13/2024 15:36:26      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .4477197 | .4615444 | .0069334 |
| Stddev | .0025990 | .0018441 | .0020170 |
| %RSD   | .5804879 | .3995549 | 29.09138 |
| #1     | .4501168 | .4630561 | .0054870 |
| #2     | .4480847 | .4620874 | .0092375 |
| #3     | .4449575 | .4594898 | .0060757 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2339.190 | 25971.00 | 2355.707 | 1888.052 | 2814.935 |
| Stddev    | 5.902    | 42.54    | 19.026   | 2.321    | 7.481    |
| %RSD      | .2522943 | .1637889 | .8076376 | .1229417 | .2657618 |
| #1        | 2335.633 | 26004.86 | 2340.098 | 1887.065 | 2806.336 |
| #2        | 2346.003 | 25923.25 | 2350.123 | 1890.703 | 2818.520 |
| #3        | 2335.935 | 25984.89 | 2376.900 | 1886.386 | 2819.948 |

Sample Name: P4977-03DLX2      Acquired: 12/13/2024 15:40:21      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0103175 | .0282171 | .0272731 | -.036582 | -.010062 | 7.302943 | .0375682 |
| Stddev | .0018448 | .0032647 | .0016612 | .002983  | .002446  | .035144  | .0007096 |
| %RSD   | 17.88036 | 11.56998 | 6.091074 | 8.153335 | 24.30626 | .4812264 | 1.888922 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0081900 | .0255452 | .0262392 | -.034455 | -.012033 | 7.331751 | .0367968 |
| #2 | .0114737 | .0318561 | .0263907 | -.035300 | -.010829 | 7.313291 | .0381933 |
| #3 | .0112889 | .0272499 | .0291893 | -.039992 | -.007325 | 7.263787 | .0377146 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009031 | .0004932 | 642.5023 | .0198882 | .0468505 | .0197496 | 21.44758 |
| Stddev | .0000281 | .0000113 | 1.4267   | .0005296 | .0007513 | .0056373 | .15084   |
| %RSD   | 3.111518 | 2.282726 | .2220594 | 2.662943 | 1.603683 | 28.54374 | .7032940 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009106 | .0004913 | 643.5935 | .0202934 | .0461399 | .0178081 | 21.59944 |
| #2 | .0009267 | .0004829 | 643.0256 | .0200822 | .0467749 | .0153397 | 21.29778 |
| #3 | .0008720 | .0005052 | 640.8878 | .0192889 | .0476368 | .0261011 | 21.44551 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.227888 | 97.40049 | .0360224 | -.002032 | 1.638617 | .0288128 | .0656471 |
| Stddev | .006832  | .61399   | .0001408 | .001274  | .737085  | .0053672 | .0078861 |
| %RSD   | .5563895 | .6303795 | .3908975 | 62.70654 | 44.98212 | 18.62797 | 12.01291 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.234139 | 97.51002 | .0360859 | -.000601 | 2.269591 | .0245148 | .0634581 |
| #2 | 1.220595 | 97.95234 | .0361203 | -.003043 | 1.817800 | .0270950 | .0743965 |
| #3 | 1.228929 | 96.73910 | .0358610 | -.002453 | .828461  | .0348287 | .0590868 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.12549 | .9528544 | .0053813 | .0027898 | 1.271944 | 1.845400 | .0226226 |
| Stddev | .13177   | .0034713 | .0011306 | .0008684 | .003388  | .013550  | .0013036 |
| %RSD   | 6.199394 | .3643040 | 21.00902 | 31.12670 | .2663391 | .7342593 | 5.762145 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.27757 | .9506043 | .0050371 | .0025046 | 1.268417 | 1.857019 | .0212141 |
| #2 | -2.05339 | .9511067 | .0044629 | .0020999 | 1.272243 | 1.848664 | .0228673 |
| #3 | -2.04550 | .9568522 | .0066440 | .0037649 | 1.275173 | 1.830516 | .0237865 |

Sample Name: P4977-03DLX2      Acquired: 12/13/2024 15:40:21      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2514654 | .5138564 | .0045741 |
| Stddev | .0035847 | .0017985 | .0039704 |
| %RSD   | 1.425527 | .3500090 | 86.79998 |
| #1     | .2517880 | .5156778 | .0001987 |
| #2     | .2477303 | .5138096 | .0079473 |
| #3     | .2548779 | .5120816 | .0055765 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2329.921 | 25831.73 | 2359.689 | 1881.107 | 2846.952 |
| Stddev    | 1.710    | 63.13    | 6.862    | 9.429    | 2.455    |
| %RSD      | .0734032 | .2443990 | .2908004 | .5012668 | .0862455 |
| #1        | 2330.512 | 25764.73 | 2351.940 | 1870.279 | 2844.903 |
| #2        | 2331.257 | 25890.11 | 2364.998 | 1885.535 | 2846.280 |
| #3        | 2327.993 | 25840.34 | 2362.128 | 1887.507 | 2849.674 |



Sample Name: P4977-04DLX2      Acquired: 12/13/2024 15:44:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0100784 | .0271316 | .0281371 | -.039230 | -.007708 | 7.146416 | .0353950 |
| Stddev | .0021418 | .0015679 | .0030116 | .001565  | .001299  | .023190  | .0001695 |
| %RSD   | 21.25102 | 5.778878 | 10.70347 | 3.988983 | 16.84979 | .3244997 | .4787460 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0097109 | .0253251 | .0249632 | -.037638 | -.006835 | 7.144915 | .0352170 |
| #2 | .0081441 | .0281380 | .0284933 | -.039285 | -.009201 | 7.124013 | .0355543 |
| #3 | .0123801 | .0279318 | .0309548 | -.040766 | -.007089 | 7.170320 | .0354138 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008588 | .0005455 | 634.2412 | .0200611 | .0462938 | .0238234 | 21.10013 |
| Stddev | .0000760 | .0000956 | 1.7518   | .0006469 | .0007048 | .0027215 | .05581   |
| %RSD   | 8.844116 | 17.51522 | .2762054 | 3.224606 | 1.522470 | 11.42350 | .2644922 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009273 | .0004423 | 636.1637 | .0206871 | .0464922 | .0209463 | 21.13470 |
| #2 | .0007771 | .0005633 | 632.7351 | .0201011 | .0468782 | .0263565 | 21.03575 |
| #3 | .0008721 | .0006309 | 633.8249 | .0193952 | .0455111 | .0241674 | 21.12995 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.211892 | 95.59771 | .0353313 | -.001214 | 1.801681 | .0266739 | .0665558 |
| Stddev | .000963  | .17597   | .0008418 | .000404  | .242495  | .0056512 | .0044857 |
| %RSD   | .0794211 | .1840742 | 2.382626 | 33.30531 | 13.45936 | 21.18621 | 6.739753 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.211368 | 95.77474 | .0350569 | -.001104 | 1.900966 | .0214175 | .0659643 |
| #2 | 1.211305 | 95.42282 | .0362761 | -.000876 | 1.525299 | .0259535 | .0713079 |
| #3 | 1.213003 | 95.59557 | .0346610 | -.001662 | 1.978777 | .0326508 | .0623952 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.20911 | .9269981 | .0039476 | .0021611 | 1.239466 | 1.740728 | .0229743 |
| Stddev | .09168   | .0022410 | .0022790 | .0009365 | .001892  | .002426  | .0010438 |
| %RSD   | 4.150072 | .2417463 | 57.73048 | 43.33452 | .1526567 | .1393719 | 4.543115 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.24526 | .9293825 | .0055176 | .0014828 | 1.237322 | 1.743525 | .0227341 |
| #2 | -2.10487 | .9249353 | .0013337 | .0032296 | 1.240904 | 1.739467 | .0241172 |
| #3 | -2.27721 | .9266765 | .0049916 | .0017708 | 1.240171 | 1.739192 | .0220716 |

Sample Name: P4977-04DLX2      Acquired: 12/13/2024 15:44:16      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2455888 | .5045623 | -.001784 |
| Stddev | .0063766 | .0014530 | .002877  |
| %RSD   | 2.596470 | .2879654 | 161.2862 |
| #1     | .2500518 | .5055462 | -.000144 |
| #2     | .2484291 | .5028934 | -.000102 |
| #3     | .2382855 | .5052472 | -.005105 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2333.278 | 26023.88 | 2364.415 | 1902.362 | 2853.504 |
| Stddev    | 3.807    | 39.20    | 8.489    | 8.669    | 2.444    |
| %RSD      | .1631761 | .1506155 | .3590353 | .4556793 | .0856512 |
| #1        | 2337.303 | 26038.97 | 2357.433 | 1899.606 | 2856.277 |
| #2        | 2332.799 | 25979.38 | 2373.864 | 1895.406 | 2851.663 |
| #3        | 2329.733 | 26053.29 | 2361.947 | 1912.073 | 2852.573 |

Sample Name: P4977-03LDLX10      Acquired: 12/13/2024 15:48:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004683 | .0155151 | .0101151 | -.027601 | -.006046 | 1.486082 | .0091730 |
| Stddev | .0021502 | .0029157 | .0017384 | .001916  | .002625  | .018798  | .0004717 |
| %RSD   | 459.1712 | 18.79292 | 17.18587 | 6.941116 | 43.42014 | 1.264918 | 5.141842 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0029467 | .0174941 | .0095037 | -.025394 | -.005237 | 1.495489 | .0089037 |
| #2 | -.000643 | .0121667 | .0087651 | -.028580 | -.008980 | 1.464437 | .0097177 |
| #3 | -.000899 | .0168844 | .0120766 | -.028831 | -.003920 | 1.498319 | .0088977 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002956 | .0001258 | 126.9824 | .0043341 | .0276636 | .0130651 | 4.339230 |
| Stddev | .0000527 | .0000135 | .7302    | .0008046 | .0001935 | .0028096 | .050570  |
| %RSD   | 17.81487 | 10.76044 | .5750628 | 18.56355 | .6996041 | 21.50490 | 1.165407 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002643 | .0001191 | 127.8175 | .0051595 | .0275888 | .0145455 | 4.382587 |
| #2 | .0002661 | .0001169 | 126.4638 | .0042909 | .0278834 | .0098248 | 4.283678 |
| #3 | .0003564 | .0001414 | 126.6660 | .0035521 | .0275187 | .0148249 | 4.351424 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2493968 | 20.08644 | .0053018 | -.000423 | 2.387513 | .0115162 | .0109142 |
| Stddev | .0025919 | .25049   | .0005276 | .000647  | .428369  | .0052521 | .0036628 |
| %RSD   | 1.039275 | 1.247071 | 9.950281 | 153.0428 | 17.94205 | 45.60591 | 33.55976 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2501516 | 20.35781 | .0051154 | -.001133 | 2.020173 | .0102641 | .0145667 |
| #2 | .2515276 | 20.03746 | .0048928 | .000134  | 2.858055 | .0070034 | .0109345 |
| #3 | .2465113 | 19.86406 | .0058973 | -.000270 | 2.284310 | .0172812 | .0072413 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.02794 | .1721474 | -.009476 | .0006784 | .2372606 | .4109437 | .0041422 |
| Stddev | .06051   | .0011633 | .001288  | .0005240 | .0076960 | .0129538 | .0013297 |
| %RSD   | 5.886065 | .6757446 | 13.59259 | 77.23397 | 3.243670 | 3.152202 | 32.10205 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.09776 | .1734224 | -.008785 | .0010169 | .2284217 | .4247184 | .0028663 |
| #2 | -.99530  | .1718762 | -.010962 | .0000749 | .2408846 | .3990072 | .0040405 |
| #3 | -.99078  | .1711438 | -.008681 | .0009434 | .2424756 | .4091054 | .0055199 |

Sample Name: P4977-03LDLX10      Acquired: 12/13/2024 15:48:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0494335 | .1022255 | -.025443 |
| Stddev | .0037492 | .0004197 | .002504  |
| %RSD   | 7.584247 | .4105904 | 9.843076 |
| #1     | .0487308 | .1027100 | -.028333 |
| #2     | .0460855 | .1019927 | -.023930 |
| #3     | .0534843 | .1019737 | -.024065 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2366.362 | 26180.59 | 2315.367 | 1914.176 | 3099.952 |
| Stddev    | 13.038   | 84.84    | 10.618   | 7.347    | 12.110   |
| %RSD      | .5509516 | .3240389 | .4585948 | .3838396 | .3906448 |
| #1        | 2379.831 | 26145.40 | 2303.803 | 1917.232 | 3113.648 |
| #2        | 2353.804 | 26119.02 | 2317.620 | 1905.794 | 3090.661 |
| #3        | 2365.450 | 26277.36 | 2324.678 | 1919.502 | 3095.547 |

Sample Name: P4977-05DLX2      Acquired: 12/13/2024 15:52:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0502515 | .0737929 | .0443836 | .0409598 | .0768947 | 9.914608 | 1.955332 |
| Stddev | .0037380 | .0024166 | .0002691 | .0023592 | .0024341 | .074869  | .007555  |
| %RSD   | 7.438559 | 3.274877 | .6062087 | 5.759844 | 3.165561 | .7551370 | .3863573 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0518098 | .0758521 | .0440884 | .0424133 | .0784513 | 9.977073 | 1.960425 |
| #2 | .0459865 | .0711324 | .0446151 | .0382377 | .0781432 | 9.935132 | 1.958918 |
| #3 | .0529582 | .0743944 | .0444473 | .0422284 | .0740897 | 9.831617 | 1.946652 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0483693 | .0472119 | 633.4194 | .2198952 | .5104889 | .2520380 | 22.31041 |
| Stddev | .0004960 | .0001130 | 3.4279   | .0011176 | .0017857 | .0090213 | .10645   |
| %RSD   | 1.025489 | .2393703 | .5411662 | .5082383 | .3497916 | 3.579362 | .4771399 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0488725 | .0472207 | 635.5844 | .2201221 | .5084460 | .2422263 | 22.27956 |
| #2 | .0483547 | .0470948 | 635.2065 | .2186816 | .5112682 | .2539136 | 22.42888 |
| #3 | .0478808 | .0473203 | 629.4673 | .2208819 | .5117523 | .2599741 | 22.22279 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.699580 | 97.25008 | .5088636 | .0367306 | 2.017057 | .5268035 | .4876943 |
| Stddev | .008148  | .50557   | .0015388 | .0007809 | .268041  | .0024268 | .0020597 |
| %RSD   | .4794385 | .5198650 | .3023897 | 2.126141 | 13.28872 | .4606728 | .4223432 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.706638 | 97.37395 | .5100400 | .0362911 | 1.983298 | .5240060 | .4883989 |
| #2 | 1.701439 | 97.68219 | .5071222 | .0362684 | 2.300378 | .5283428 | .4893093 |
| #3 | 1.690662 | 96.69408 | .5094286 | .0376322 | 1.767495 | .5280619 | .4853747 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.66751 | .9365930 | .0069859 | .0024867 | 1.258972 | 2.872096 | .0228106 |
| Stddev | .13391   | .0036875 | .0017702 | .0003333 | .007792  | .029118  | .0018665 |
| %RSD   | 8.030793 | .3937196 | 25.33887 | 13.40242 | .6189303 | 1.013837 | 8.182505 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.55238 | .9339529 | .0089246 | .0022568 | 1.250046 | 2.905650 | .0215264 |
| #2 | -1.81447 | .9350199 | .0065775 | .0023343 | 1.264418 | 2.853443 | .0249516 |
| #3 | -1.63567 | .9408062 | .0054557 | .0028689 | 1.262451 | 2.857196 | .0219538 |

Sample Name: P4977-05DLX2      Acquired: 12/13/2024 15:52:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F8S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2912509 | .5075092 | .0060085 |
| Stddev | .0010147 | .0021138 | .0033634 |
| %RSD   | .3483954 | .4164985 | 55.97782 |
| #1     | .2901869 | .5081946 | .0092887 |
| #2     | .2922078 | .5091952 | .0061693 |
| #3     | .2913581 | .5051378 | .0025676 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2303.843 | 25720.61 | 2320.215 | 1864.278 | 2819.203 |
| Stddev    | 6.183    | 96.47    | 17.704   | 8.404    | 6.131    |
| %RSD      | .2683953 | .3750716 | .7630276 | .4507935 | .2174825 |
| #1        | 2300.571 | 25720.97 | 2307.306 | 1865.813 | 2820.635 |
| #2        | 2299.983 | 25623.96 | 2312.942 | 1855.212 | 2812.482 |
| #3        | 2310.975 | 25816.90 | 2340.397 | 1871.808 | 2824.492 |

Sample Name: P4977-06DLX2      Acquired: 12/13/2024 15:56:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0128784 | .0263256 | .0288225 | -.037561 | -.005709 | 6.563623 | .0286784 |
| Stddev | .0028649 | .0019019 | .0016731 | .005159  | .000476  | .013213  | .0009009 |
| %RSD   | 22.24620 | 7.224669 | 5.804763 | 13.73606 | 8.332996 | .2013060 | 3.141507 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0154280 | .0284737 | .0271197 | -.043466 | -.006128 | 6.560917 | .0283926 |
| #2 | .0134291 | .0256474 | .0304642 | -.035286 | -.005192 | 6.577979 | .0279551 |
| #3 | .0097780 | .0248557 | .0288837 | -.033929 | -.005808 | 6.551972 | .0296876 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008415 | .0006078 | 549.3433 | .0173689 | .0466571 | .0181139 | 28.98569 |
| Stddev | .0000807 | .0000362 | 1.4061   | .0003249 | .0005721 | .0032123 | .12707   |
| %RSD   | 9.594640 | 5.963599 | .2559653 | 1.870456 | 1.226184 | 17.73379 | .4383816 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009048 | .0006493 | 547.8513 | .0174151 | .0471038 | .0144280 | 28.84305 |
| #2 | .0007506 | .0005913 | 550.6439 | .0170235 | .0468551 | .0195972 | 29.08680 |
| #3 | .0008690 | .0005827 | 549.5348 | .0176683 | .0460122 | .0203164 | 29.02721 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.494114 | 176.5579 | .0313214 | -.002179 | 2.252485 | .0285666 | .0725941 |
| Stddev | .007260  | .1831    | .0001690 | .000796  | .364898  | .0058441 | .0044652 |
| %RSD   | .2910986 | .1037265 | .5394780 | 36.50730 | 16.19979 | 20.45793 | 6.150903 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.490209 | 176.3551 | .0315079 | -.001906 | 2.673517 | .0352891 | .0776348 |
| #2 | 2.502491 | 176.7112 | .0312779 | -.001556 | 2.056105 | .0246952 | .0710126 |
| #3 | 2.489641 | 176.6074 | .0311784 | -.003076 | 2.027834 | .0257155 | .0691349 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.40638 | .7886532 | .0032192 | .0012361 | .6070450 | 1.275733 | .0070206 |
| Stddev | .04331   | .0023232 | .0025169 | .0003163 | .0070923 | .004740  | .0013545 |
| %RSD   | 1.799989 | .2945847 | 78.18523 | 25.58592 | 1.168337 | .3715807 | 19.29275 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.36494 | .7870712 | .0052319 | .0012928 | .6051816 | 1.270543 | .0083561 |
| #2 | -2.45135 | .7875681 | .0040285 | .0008953 | .6010703 | 1.279835 | .0070577 |
| #3 | -2.40285 | .7913205 | .0003971 | .0015201 | .6148829 | 1.276821 | .0056479 |

Sample Name: P4977-06DLX2      Acquired: 12/13/2024 15:56:02      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29F9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3029743 | .3563058 | -.002504 |
| Stddev | .0012506 | .0009308 | .004822  |
| %RSD   | .4127600 | .2612499 | 192.5355 |
| #1     | .3034055 | .3554101 | .002239  |
| #2     | .3039522 | .3562391 | -.007401 |
| #3     | .3015652 | .3572683 | -.002352 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2315.240 | 25752.87 | 2335.091 | 1869.030 | 2806.672 |
| Stddev    | 3.289    | 49.13    | 5.768    | 6.336    | 1.293    |
| %RSD      | .1420773 | .1907584 | .2470328 | .3389927 | .0460853 |
| #1        | 2318.983 | 25705.53 | 2335.788 | 1875.923 | 2807.937 |
| #2        | 2313.928 | 25749.48 | 2340.480 | 1863.460 | 2806.729 |
| #3        | 2312.808 | 25803.60 | 2329.006 | 1867.707 | 2805.352 |



Sample Name: P4977-07DLX2      Acquired: 12/13/2024 15:59:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0195667 | .0296402 | .0366510 | -.039611 | -.005601 | 6.822297 | .0403344 |
| Stddev | .0007153 | .0042546 | .0021274 | .002367  | .000680  | .052311  | .0012725 |
| %RSD   | 3.655543 | 14.35433 | 5.804400 | 5.974688 | 12.14602 | .7667664 | 3.154950 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0203694 | .0257052 | .0390163 | -.042261 | -.006379 | 6.877560 | .0409478 |
| #2 | .0189969 | .0341550 | .0360425 | -.037709 | -.005309 | 6.815784 | .0411840 |
| #3 | .0193339 | .0290604 | .0348942 | -.038862 | -.005116 | 6.773548 | .0388713 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009707 | .0007272 | 678.0196 | .0205012 | .0500682 | .0423292 | 31.47986 |
| Stddev | .0000344 | .0000645 | 2.0565   | .0004569 | .0001630 | .0050482 | .11014   |
| %RSD   | 3.540710 | 8.867049 | .3033075 | 2.228448 | .3255883 | 11.92599 | .3498843 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009537 | .0007799 | 680.2906 | .0210226 | .0500675 | .0480578 | 31.60704 |
| #2 | .0010103 | .0007463 | 677.4850 | .0201712 | .0499055 | .0385314 | 31.41551 |
| #3 | .0009482 | .0006553 | 676.2832 | .0203097 | .0502315 | .0403983 | 31.41703 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.612908 | 182.1707 | .0415633 | -.003329 | 2.206129 | .0261262 | .0869838 |
| Stddev | .008912  | .9986    | .0003965 | .001229  | .558665  | .0043190 | .0017439 |
| %RSD   | .5525360 | .5481595 | .9540193 | 36.91858 | 25.32333 | 16.53142 | 2.004878 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.616426 | 183.1590 | .0419474 | -.002895 | 2.101092 | .0239186 | .0849837 |
| #2 | 1.619524 | 182.1908 | .0415871 | -.004717 | 1.707437 | .0233571 | .0881860 |
| #3 | 1.602774 | 181.1622 | .0411554 | -.002377 | 2.809857 | .0311028 | .0877818 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.20223 | .8474659 | .0141938 | .0027097 | .6848332 | 1.539760 | .0078098 |
| Stddev | .19189   | .0009103 | .0021824 | .0003389 | .0032260 | .022964  | .0012923 |
| %RSD   | 8.713522 | .1074116 | 15.37597 | 12.50555 | .4710579 | 1.491433 | 16.54681 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.08751 | .8485139 | .0139946 | .0030864 | .6821834 | 1.565812 | .0063177 |
| #2 | -2.42376 | .8468725 | .0121177 | .0026128 | .6838909 | 1.522454 | .0085464 |
| #3 | -2.09542 | .8470112 | .0164690 | .0024298 | .6884255 | 1.531013 | .0085654 |

Sample Name: P4977-07DLX2      Acquired: 12/13/2024 15:59:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1948086 | .4859716 | .0026396 |
| Stddev | .0039517 | .0021871 | .0026194 |
| %RSD   | 2.028508 | .4500426 | 99.23119 |
| #1     | .1949888 | .4874178 | .0016738 |
| #2     | .1907698 | .4870415 | .0056048 |
| #3     | .1986671 | .4834555 | .0006404 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2301.143 | 25539.22 | 2328.531 | 1856.961 | 2778.425 |
| Stddev    | 4.761    | 41.94    | 30.211   | .285     | 7.349    |
| %RSD      | .2068995 | .1642126 | 1.297437 | .0153251 | .2645005 |
| #1        | 2297.394 | 25527.40 | 2293.717 | 1857.047 | 2769.991 |
| #2        | 2299.535 | 25504.45 | 2347.857 | 1856.643 | 2781.830 |
| #3        | 2306.500 | 25585.79 | 2344.020 | 1857.193 | 2783.454 |

Sample Name: P4977-08DLX2      Acquired: 12/13/2024 16:03:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0102042 | .0243149 | .0251109 | -.031810 | -.004011 | 5.847284 | .0337586 |
| Stddev | .0018983 | .0011117 | .0006501 | .003363  | .001330  | .019822  | .0005717 |
| %RSD   | 18.60280 | 4.572004 | 2.588714 | 10.57372 | 33.16275 | .3390034 | 1.693570 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0116637 | .0233842 | .0254458 | -.035391 | -.005154 | 5.825358 | .0332585 |
| #2 | .0108907 | .0240145 | .0243617 | -.028718 | -.004329 | 5.852558 | .0336354 |
| #3 | .0080582 | .0255459 | .0255252 | -.031319 | -.002551 | 5.863936 | .0343819 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0007193 | .0003972 | 396.7686 | .0178920 | .0416023 | .0184390 | 18.45005 |
| Stddev | .0000388 | .0000174 | .7091    | .0003569 | .0007898 | .0061192 | .01485   |
| %RSD   | 5.388222 | 4.383576 | .1787298 | 1.994698 | 1.898478 | 33.18624 | .0804755 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0007443 | .0004101 | 396.2809 | .0177999 | .0411644 | .0128335 | 18.46597 |
| #2 | .0006746 | .0003774 | 396.4429 | .0182859 | .0411284 | .0175164 | 18.44760 |
| #3 | .0007389 | .0004042 | 397.5821 | .0175901 | .0425141 | .0249672 | 18.43658 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8271732 | 89.52885 | .0290054 | -.001841 | 1.813380 | .0310770 | .0534784 |
| Stddev | .0033274 | .38343   | .0005147 | .000893  | .866378  | .0056909 | .0065793 |
| %RSD   | .4022587 | .4282807 | 1.774372 | 48.50353 | 47.77695 | 18.31223 | 12.30276 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .8233342 | 89.49118 | .0287013 | -.001125 | 2.789096 | .0267068 | .0491107 |
| #2 | .8292268 | 89.16564 | .0287152 | -.002842 | 1.134227 | .0375121 | .0610455 |
| #3 | .8289586 | 89.92973 | .0295996 | -.001556 | 1.516816 | .0290122 | .0502789 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.65037 | .7484847 | -.001722 | .0009535 | .8882792 | 1.211996 | .0056670 |
| Stddev | .07565   | .0021854 | .001073  | .0003593 | .0037630 | .005798  | .0008801 |
| %RSD   | 2.854344 | .2919805 | 62.32312 | 37.68663 | .4236277 | .4784111 | 15.52991 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.73773 | .7497355 | -.000530 | .0005599 | .8924523 | 1.205666 | .0048328 |
| #2 | -2.60635 | .7459612 | -.002611 | .0010363 | .8872410 | 1.213273 | .0065867 |
| #3 | -2.60705 | .7497573 | -.002026 | .0012641 | .8851443 | 1.217050 | .0055815 |

Sample Name: P4977-08DLX2      Acquired: 12/13/2024 16:03:51      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .3038520 | .3174913 | -.013178 |
| Stddev | .0019035 | .0022122 | .000333  |
| %RSD   | .6264655 | .6967874 | 2.528068 |
| #1     | .3016681 | .3155503 | -.012837 |
| #2     | .3047282 | .3170234 | -.013194 |
| #3     | .3051596 | .3199000 | -.013503 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2367.161 | 26337.03 | 2377.880 | 1922.594 | 2937.793 |
| Stddev    | 2.316    | 93.39    | 16.852   | 12.563   | 1.620    |
| %RSD      | .0978435 | .3546013 | .7087036 | .6534494 | .0551437 |
| #1        | 2369.481 | 26229.53 | 2384.069 | 1910.254 | 2936.669 |
| #2        | 2367.153 | 26398.17 | 2390.762 | 1935.369 | 2937.059 |
| #3        | 2364.849 | 26383.40 | 2358.808 | 1922.159 | 2939.650 |

Sample Name: P4977-09DLX2      Acquired: 12/13/2024 16:07:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0163829 | .0303984 | .0255141 | -.039182 | -.009409 | 6.610674 | .0350764 |
| Stddev | .0029937 | .0034201 | .0021616 | .001368  | .002223  | .028324  | .0007215 |
| %RSD   | 18.27350 | 11.25095 | 8.472194 | 3.492699 | 23.63165 | .4284555 | 2.056952 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0194559 | .0271174 | .0243964 | -.037855 | -.011627 | 6.588688 | .0353354 |
| #2 | .0162174 | .0301353 | .0280057 | -.040589 | -.009420 | 6.642636 | .0342611 |
| #3 | .0134753 | .0339424 | .0241402 | -.039101 | -.007180 | 6.600698 | .0356327 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0007633 | .0005091 | 698.1530 | .0212927 | .0478522 | .0178869 | 20.30073 |
| Stddev | .0000244 | .0000844 | 2.5947   | .0001565 | .0004774 | .0028975 | .11725   |
| %RSD   | 3.194484 | 16.57785 | .3716531 | .7349041 | .9976423 | 16.19870 | .5775863 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0007726 | .0005910 | 695.9754 | .0212084 | .0478865 | .0189956 | 20.27169 |
| #2 | .0007357 | .0004224 | 701.0239 | .0211964 | .0473586 | .0145989 | 20.42978 |
| #3 | .0007817 | .0005140 | 697.4596 | .0214732 | .0483115 | .0200663 | 20.20073 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8832467 | 157.7989 | .0324696 | -.001482 | 1.712244 | .0383538 | .0617432 |
| Stddev | .0014231 | .4614    | .0008796 | .001414  | .627619  | .0082688 | .0035752 |
| %RSD   | .1611178 | .2923732 | 2.708991 | 95.38688 | 36.65476 | 21.55915 | 5.790491 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .8830712 | 157.5114 | .0331769 | -.002575 | 1.041050 | .0293735 | .0632016 |
| #2 | .8847494 | 158.3310 | .0314847 | -.001986 | 2.284547 | .0400356 | .0643587 |
| #3 | .8819196 | 157.5541 | .0327472 | .000115  | 1.811137 | .0456524 | .0576693 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -2.65901 | .6580300 | .0032782 | .0011690 | .9713061 | 1.323930 | .0075702 |
| Stddev | .22070   | .0053378 | .0013697 | .0005139 | .0080390 | .014609  | .0010078 |
| %RSD   | 8.300109 | .8111778 | 41.78039 | 43.96343 | .8276448 | 1.103434 | 13.31274 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -2.80804 | .6539949 | .0022350 | .0011481 | .9785606 | 1.308075 | .0067710 |
| #2 | -2.76353 | .6560127 | .0027704 | .0006659 | .9626635 | 1.336846 | .0072372 |
| #3 | -2.40547 | .6640825 | .0048292 | .0016931 | .9726944 | 1.326867 | .0087023 |

Sample Name: P4977-09DLX2      Acquired: 12/13/2024 16:07:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: ME29G2      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .2971897 | .3885240 | .0028362 |
| Stddev | .0035830 | .0020340 | .0034921 |
| %RSD   | 1.205632 | .5235072 | 123.1263 |
| #1     | .2976480 | .3868481 | .0064812 |
| #2     | .3005216 | .3907869 | -.000480 |
| #3     | .2933996 | .3879370 | .002507  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2284.307 | 25431.14 | 2316.630 | 1847.019 | 2781.211 |
| Stddev    | 5.188    | 174.55   | 13.952   | 20.264   | 5.566    |
| %RSD      | .2271257 | .6863625 | .6022745 | 1.097110 | .2001207 |
| #1        | 2289.740 | 25241.24 | 2327.478 | 1826.304 | 2787.035 |
| #2        | 2279.404 | 25467.60 | 2300.891 | 1847.952 | 2780.652 |
| #3        | 2283.780 | 25584.58 | 2321.522 | 1866.800 | 2775.946 |

Sample Name: P4981-10      Acquired: 12/13/2024 16:11:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJA7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0885396 | .0268221 | .4616946 | -.025506 | .0232852 | 76.38994 |
| Stddev | .0032100 | .0017543 | .0052183 | .002226  | .0027143 | .12395   |
| %RSD   | 3.625471 | 6.540599 | 1.130243 | 8.725485 | 11.65699 | .1622643 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0914107 | .0248002 | .4677164 | -.027971 | .0253743 | 76.53010 |
| #2 | .0850739 | .0279409 | .4585006 | -.024900 | .0202171 | 76.29472 |
| #3 | .0891342 | .0277252 | .4588668 | -.023646 | .0242640 | 76.34501 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .9573116 | .0064955 | .0111794 | F 1129.647 | .1153431 | .1142169 |
| Stddev | .0011884 | .0000291 | .0000372 | 1.813      | .0013134 | .0009319 |
| %RSD   | .1241408 | .4486175 | .3324500 | .1605246   | 1.138721 | .8159024 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9573403 | .0064719 | .0111708 | 1128.639 | .1168529 | .1151146 |
| #2 | .9584854 | .0064866 | .0111472 | 1131.741 | .1144636 | .1132542 |
| #3 | .9561090 | .0065281 | .0112201 | 1128.563 | .1147129 | .1142819 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1729033 | 175.3167 | 7.953573 | 503.5395 | .2067502 | -.018036 |
| Stddev | .0022028 | .2477    | .011467  | .6317    | .0017406 | .001014  |
| %RSD   | 1.274019 | .1412951 | .1441693 | .1254456 | .8419055 | 5.622504 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1736887 | 175.4399 | 7.965277 | 504.2674 | .2086683 | -.019207 |
| #2 | .1704155 | 175.4786 | 7.942360 | 503.2162 | .2063115 | -.017438 |
| #3 | .1746059 | 175.0315 | 7.953081 | 503.1350 | .2052709 | -.017463 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.382048 | .1578592 | 2.088430 | 8.462312 | 4.491223 | .0272663 |
| Stddev | .262659  | .0044141 | .012952  | .205419  | .026308  | .0009907 |
| %RSD   | 11.02660 | 2.796232 | .6202009 | 2.427451 | .5857725 | 3.633564 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.365562 | .1629559 | 2.100804 | 8.473901 | 4.519639 | .0278682 |
| #2 | 2.128021 | .1552633 | 2.089517 | 8.661691 | 4.467714 | .0261228 |
| #3 | 2.652561 | .1553585 | 2.074968 | 8.251345 | 4.486315 | .0278079 |

Sample Name: P4981-10      Acquired: 12/13/2024 16:11:44      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJA7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0030644 | 10.29722 | 9.292894 | .0306189 | .8940405 | .6455075 |
| Stddev | .0004996 | .05231   | .039511  | .0009898 | .0014290 | .0008817 |
| %RSD   | 16.30450 | .5080368 | .4251763 | 3.232622 | .1598312 | .1365953 |
| #1     | .0031012 | 10.35701 | 9.332759 | .0314295 | .8935010 | .6464712 |
| #2     | .0025474 | 10.25987 | 9.253746 | .0309113 | .8956607 | .6453100 |
| #3     | .0035447 | 10.27477 | 9.292177 | .0295158 | .8929599 | .6447412 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1452507 |
| Stddev | .0023379 |
| %RSD   | 1.609566 |
| #1     | .1464108 |
| #2     | .1467817 |
| #3     | .1425597 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2371.137 | 26758.09 | 2500.661 | 1918.651 | 2513.999 |
| Stddev    | 11.459   | 71.48    | 5.910    | 4.322    | 15.432   |
| %RSD      | .4832530 | .2671155 | .2363572 | .2252688 | .6138256 |
| #1        | 2358.174 | 26681.76 | 2496.458 | 1915.612 | 2496.195 |
| #2        | 2375.323 | 26769.08 | 2507.420 | 1916.741 | 2522.255 |
| #3        | 2379.913 | 26823.44 | 2498.106 | 1923.599 | 2523.546 |



Sample Name: P4981-11      Acquired: 12/13/2024 16:15:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJA8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0949936 | .0148471 | .3170916 | -.011891 | .0529816 | 139.3440 | 1.774817 |
| Stddev | .0011525 | .0034226 | .0041984 | .006186  | .0031943 | 1.0686   | .014556  |
| %RSD   | 1.213283 | 23.05230 | 1.324024 | 52.02082 | 6.029111 | .7668989 | .8201462 |
| #1     | .0941955 | .0181972 | .3171666 | -.011730 | .0525931 | 138.8391 | 1.767939 |
| #2     | .0963149 | .0113563 | .3128562 | -.005787 | .0499992 | 138.6213 | 1.764976 |
| #3     | .0944704 | .0149877 | .3212520 | -.018156 | .0563523 | 140.5715 | 1.791538 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0120912 | .0097146 | 573.0356 | .2041137 | .1700174 | .2946670 | 298.5031 |
| Stddev | .0000940 | .0001652 | 3.8492   | .0004028 | .0008269 | .0123008 | 2.5565   |
| %RSD   | .7770975 | 1.700078 | .6717130 | .1973526 | .4863479 | 4.174461 | .8564306 |
| #1     | .0120352 | .0098980 | 571.7521 | .2037532 | .1697497 | .2890842 | 296.8740 |
| #2     | .0120387 | .0096683 | 569.9922 | .2045485 | .1693575 | .2861477 | 297.1858 |
| #3     | .0121997 | .0095775 | 577.3626 | .2040392 | .1709449 | .3087692 | 301.4496 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.432935 | 169.6004 | .3775125 | -.030593 | 2.882347 | .2789920 | 1.440107 |
| Stddev | .045152  | 1.6623   | .0043743 | .000589  | .593775  | .0100109 | .011311  |
| %RSD   | .8310770 | .9801295 | 1.158724 | 1.926011 | 20.60039 | 3.588237 | .7854541 |
| #1     | 5.404170 | 168.7622 | .3759139 | -.031032 | 3.350849 | .2755460 | 1.437965 |
| #2     | 5.409660 | 168.5241 | .3741623 | -.029924 | 2.214566 | .2711593 | 1.430019 |
| #3     | 5.484975 | 171.5150 | .3824613 | -.030825 | 3.081625 | .2902708 | 1.452336 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 7.863924 | 5.457119 | -.017654 | .0070911 | 2.777214 | 9.867589 | .0369221 |
| Stddev | .087696  | .052060  | .002368  | .0001087 | .030306  | .074551  | .0008711 |
| %RSD   | 1.115164 | .9539749 | 13.41586 | 1.532421 | 1.091234 | .7555140 | 2.359401 |
| #1     | 7.808331 | 5.432218 | -.015339 | .0071260 | 2.758675 | 9.790992 | .0361711 |
| #2     | 7.818422 | 5.422186 | -.020073 | .0071780 | 2.760780 | 9.871863 | .0367182 |
| #3     | 7.965018 | 5.516952 | -.017549 | .0069692 | 2.812187 | 9.939911 | .0378771 |

Sample Name: P4981-11      Acquired: 12/13/2024 16:15:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJA8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.222937 | 1.012641 | .2211000 |
| Stddev | .008937  | .008150  | .0013262 |
| %RSD   | .7307517 | .8048389 | .5997996 |
| #1     | 1.225388 | 1.007239 | .2209307 |
| #2     | 1.213031 | 1.008669 | .2198667 |
| #3     | 1.230393 | 1.022016 | .2225028 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2545.853 | 28570.87 | 2589.058 | 2062.175 | 2695.766 |
| Stddev    | 12.255   | 60.39    | 12.996   | 7.974    | 17.952   |
| %RSD      | .4813743 | .2113548 | .5019735 | .3866848 | .6659464 |
| #1        | 2552.635 | 28519.46 | 2600.840 | 2054.289 | 2706.700 |
| #2        | 2553.217 | 28637.36 | 2591.216 | 2070.235 | 2705.550 |
| #3        | 2531.706 | 28555.77 | 2575.117 | 2062.001 | 2675.047 |

Sample Name: P4981-12      Acquired: 12/13/2024 16:19:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJA9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0678815 | .0308587 | .3682630 | -.030434 | .0202253 | 69.49700 |
| Stddev | .0018342 | .0026897 | .0016728 | .005349  | .0010089 | .08666   |
| %RSD   | 2.702018 | 8.716258 | .4542420 | 17.57671 | 4.988153 | .1246944 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0682718 | .0303372 | .3683007 | -.033730 | .0213902 | 69.56712 |
| #2 | .0658837 | .0337710 | .3699166 | -.033311 | .0196297 | 69.40012 |
| #3 | .0694892 | .0284680 | .3665717 | -.024262 | .0196561 | 69.52375 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .9276108 | .0061586 | .0184973 | F 1391.470 | .1076471 | .1201951 |
| Stddev | .0010015 | .0001587 | .0001543 | 9.702      | .0008002 | .0005154 |
| %RSD   | .1079629 | 2.577175 | .8339054 | .6972448   | .7433652 | .4288334 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9287004 | .0062401 | .0183679 | 1391.461 | .1072896 | .1200695 |
| #2 | .9274017 | .0059757 | .0186680 | 1381.773 | .1070881 | .1197540 |
| #3 | .9267305 | .0062600 | .0184560 | 1401.177 | .1085638 | .1207617 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1529273 | 179.6780 | 7.879112 | 624.5595 | .2030605 | -.016885 |
| Stddev | .0083290 | .5863    | .030061  | 2.2791   | .0007203 | .000497  |
| %RSD   | 5.446351 | .3263299 | .3815326 | .3649168 | .3546998 | 2.942776 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1457153 | 180.3073 | 7.913551 | 626.5429 | .2033900 | -.017445 |
| #2 | .1510230 | 179.5798 | 7.858131 | 622.0698 | .2022345 | -.016500 |
| #3 | .1620435 | 179.1470 | 7.865654 | 625.0657 | .2035571 | -.016709 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.843327 | .1465579 | 3.261979 | 6.157144 | 3.479446 | .0351524 |
| Stddev | .738437  | .0063738 | .012733  | .095918  | .019358  | .0015446 |
| %RSD   | 25.97089 | 4.348990 | .3903553 | 1.557839 | .5563627 | 4.394099 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.524068 | .1448442 | 3.266416 | 6.103075 | 3.466559 | .0340784 |
| #2 | 2.058284 | .1536133 | 3.247621 | 6.100465 | 3.470073 | .0369226 |
| #3 | 2.947628 | .1412161 | 3.271900 | 6.267890 | 3.501707 | .0344563 |

Sample Name: P4981-12      Acquired: 12/13/2024 16:19:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJA9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0029505 | 23.68952 | 10.55006 | .0309172 | .7261900 | .8395712 |
| Stddev | .0004226 | .13572   | .03239   | .0007425 | .0082856 | .0025597 |
| %RSD   | 14.32390 | .5728975 | .3070080 | 2.401540 | 1.140972 | .3048825 |
| #1     | .0024760 | 23.66156 | 10.55311 | .0317689 | .7357497 | .8421907 |
| #2     | .0030890 | 23.56996 | 10.51625 | .0304064 | .7217425 | .8370758 |
| #3     | .0032865 | 23.83704 | 10.58081 | .0305762 | .7210777 | .8394471 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1372174 |
| Stddev | .0010770 |
| %RSD   | .7848622 |
| #1     | .1359802 |
| #2     | .1379449 |
| #3     | .1377271 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2355.119 | 26514.70 | 2492.678 | 1897.558 | 2463.184 |
| Stddev    | 8.662    | 114.17   | 7.229    | 9.079    | 9.471    |
| %RSD      | .3677846 | .4306010 | .2900176 | .4784386 | .3845155 |
| #1        | 2350.119 | 26484.23 | 2484.709 | 1891.444 | 2458.862 |
| #2        | 2365.121 | 26641.01 | 2498.816 | 1907.989 | 2474.046 |
| #3        | 2350.118 | 26418.85 | 2494.509 | 1893.239 | 2456.645 |

Sample Name: P4981-13      Acquired: 12/13/2024 16:23:30      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1668089 | .0271721 | 3.987815 | .0051181 | .0283525 | 63.70548 | 1.073975 |
| Stddev | .0027825 | .0009233 | .004578  | .0026936 | .0016145 | .03966   | .001153  |
| %RSD   | 1.668045 | 3.397887 | .1148112 | 52.62921 | 5.694326 | .0622488 | .1073685 |
| #1     | .1653167 | .0265301 | 3.993100 | .0070348 | .0271087 | 63.73939 | 1.072666 |
| #2     | .1700192 | .0282302 | 3.985287 | .0062812 | .0277717 | 63.71517 | 1.074421 |
| #3     | .1650909 | .0267560 | 3.985059 | .0020384 | .0301770 | 63.66187 | 1.074839 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0062281 | .0097932 | 136.9870 | .1349965 | .1167932 | .3492815 | 160.2654 |
| Stddev | .0000989 | .0000386 | .3032    | .0010458 | .0006580 | .0010746 | .1443    |
| %RSD   | 1.587385 | .3945774 | .2213432 | .7747112 | .5634117 | .3076698 | .0900243 |
| #1     | .0061223 | .0098338 | 137.0266 | .1338561 | .1174217 | .3504752 | 160.1661 |
| #2     | .0063181 | .0097569 | 136.6659 | .1359108 | .1161091 | .3489785 | 160.4309 |
| #3     | .0062438 | .0097890 | 137.2684 | .1352225 | .1168487 | .3483909 | 160.1993 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 13.35744 | 34.33418 | .2617010 | -.012347 | 2.474719 | .1755063 | 2.015612 |
| Stddev | .03481   | .16693   | .0009716 | .000363  | .250360  | .0058684 | .012816  |
| %RSD   | .2606310 | .4861979 | .3712749 | 2.937134 | 10.11672 | 3.343699 | .6358171 |
| #1     | 13.34762 | 34.37823 | .2628165 | -.012649 | 2.681377 | .1786791 | 2.013810 |
| #2     | 13.39611 | 34.47468 | .2612471 | -.012447 | 2.546461 | .1791054 | 2.003792 |
| #3     | 13.32859 | 34.14965 | .2610394 | -.011944 | 2.196320 | .1687346 | 2.029233 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.398740 | 8.808665 | .0072680 | .0068427 | 3.978253 | 9.761060 | .1054973 |
| Stddev | .042832  | .016727  | .0027077 | .0002483 | .004295  | .080397  | .0008726 |
| %RSD   | 1.785602 | .1898963 | 37.25465 | 3.629120 | .1079741 | .8236493 | .8270888 |
| #1     | 2.426809 | 8.825571 | .0053744 | .0068287 | 3.978495 | 9.719782 | .1055235 |
| #2     | 2.419972 | 8.792122 | .0060603 | .0070977 | 3.973842 | 9.853711 | .1046120 |
| #3     | 2.349440 | 8.808302 | .0103694 | .0066017 | 3.982422 | 9.709687 | .1063565 |

Sample Name: P4981-13      Acquired: 12/13/2024 16:23:30      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.297445 | .0187748 | .0483039 |
| Stddev | .006354  | .0005712 | .0039172 |
| %RSD   | .4897395 | 3.042325 | 8.109510 |
| #1     | 1.296933 | .0185662 | .0528138 |
| #2     | 1.304040 | .0194210 | .0463490 |
| #3     | 1.291363 | .0183373 | .0457490 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2811.550 | 31372.58 | 2806.306 | 2298.759 | 3031.061 |
| Stddev    | 7.497    | 135.76   | 21.221   | 11.779   | 9.426    |
| %RSD      | .2666445 | .4327345 | .7562004 | .5123965 | .3109952 |
| #1        | 2813.548 | 31230.77 | 2797.498 | 2285.173 | 3031.310 |
| #2        | 2817.846 | 31501.35 | 2790.906 | 2304.999 | 3040.361 |
| #3        | 2803.257 | 31385.63 | 2830.512 | 2306.104 | 3021.513 |

Sample Name: P4981-14      Acquired: 12/13/2024 16:27:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2028838 | .0299539 | 4.582953 | -.001657 | .0354451 | 72.89626 |
| Stddev | .0003607 | .0012037 | .011642  | .003128  | .0002583 | .30378   |
| %RSD   | .1777630 | 4.018555 | .2540380 | 188.7444 | .7286744 | .4167306 |
| #1     | .2029090 | .0306782 | 4.571390 | .001191  | .0351857 | 73.02310 |
| #2     | .2032312 | .0285644 | 4.594673 | -.005005 | .0357022 | 72.54962 |
| #3     | .2025112 | .0306192 | 4.582796 | -.001158 | .0354474 | 73.11607 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.219930 | .0074174 | .0119371 | 227.1709 | .1456312 | .1347131 |
| Stddev | .003965  | .0001705 | .0001691 | .8069    | .0016629 | .0011746 |
| %RSD   | .3250505 | 2.299131 | 1.417021 | .3551965 | 1.141870 | .8719520 |
| #1     | 1.223001 | .0076065 | .0117422 | 227.2976 | .1471575 | .1334516 |
| #2     | 1.215453 | .0072751 | .0120246 | 226.3081 | .1438590 | .1357753 |
| #3     | 1.221336 | .0073707 | .0120447 | 227.9069 | .1458771 | .1349124 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3875291 | 198.4240 | 15.37106 | 41.38895 | .3004898 | -.015530 |
| Stddev | .0049539 | .6186    | .04598   | .17660   | .0006937 | .000750  |
| %RSD   | 1.278328 | .3117653 | .2991566 | .4266724 | .2308630 | 4.832622 |
| #1     | .3914941 | 198.5499 | 15.40130 | 41.54174 | .3001189 | -.016175 |
| #2     | .3819759 | 197.7521 | 15.31814 | 41.19560 | .3000604 | -.015708 |
| #3     | .3891173 | 198.9699 | 15.39373 | 41.42950 | .3012902 | -.014706 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.724625 | .2073651 | 2.259737 | 3.280604 | F 10.01762 | .0053818 |
| Stddev | .117893  | .0085706 | .026090  | .057311  | .02293     | .0008118 |
| %RSD   | 4.326961 | 4.133075 | 1.154560 | 1.746974 | .2289010   | 15.08386 |
| #1     | 2.815529 | .2044609 | 2.283488 | 3.248045 | 9.99308    | .0046513 |
| #2     | 2.591417 | .2006241 | 2.231811 | 3.346779 | 10.03850   | .0052385 |
| #3     | 2.766930 | .2170104 | 2.263912 | 3.246988 | 10.02129   | .0062557 |

Sample Name: P4981-14      Acquired: 12/13/2024 16:27:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0072622 | 4.370548 | 8.809354 | .1186022 | 1.400652 | .0608863 |
| Stddev | .0001139 | .003529  | .082815  | .0008843 | .003455  | .0005831 |
| %RSD   | 1.568019 | .0807512 | .9400797 | .7456208 | .2466883 | .9576795 |
| #1     | .0073717 | 4.368675 | 8.903980 | .1180046 | 1.403916 | .0615015 |
| #2     | .0072704 | 4.368350 | 8.750091 | .1196181 | 1.397033 | .0608155 |
| #3     | .0071444 | 4.374619 | 8.773992 | .1181839 | 1.401008 | .0603418 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0728189 |
| Stddev | .0007350 |
| %RSD   | 1.009407 |
| #1     | .0721359 |
| #2     | .0735968 |
| #3     | .0727239 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2849.260 | 31781.54 | 2853.395 | 2326.331 | 2953.398 |
| Stddev    | 14.498   | 294.89   | 19.631   | 21.569   | 15.842   |
| %RSD      | .5088334 | .9278627 | .6879788 | .9271786 | .5363938 |
| #1        | 2865.984 | 31558.24 | 2831.006 | 2305.189 | 2971.175 |
| #2        | 2840.245 | 32115.82 | 2867.659 | 2348.303 | 2940.773 |
| #3        | 2841.551 | 31670.56 | 2861.521 | 2325.499 | 2948.246 |



Sample Name: P4981-15      Acquired: 12/13/2024 16:31:07      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7434267 | .0260065 | 2.164674 | .0116435 | .0610695 | 74.76611 | 1.316677 |
| Stddev | .0025420 | .0027701 | .020133  | .0027564 | .0021138 | 1.24816  | .018675  |
| %RSD   | .3419340 | 10.65167 | .9300789 | 23.67326 | 3.461301 | 1.669426 | 1.418327 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .7440972 | .0230612 | 2.148639 | .0146966 | .0586434 | 74.63800 | 1.316837 |
| #2 | .7406166 | .0263985 | 2.158113 | .0108960 | .0625145 | 76.07340 | 1.335271 |
| #3 | .7455663 | .0285597 | 2.187269 | .0093380 | .0620506 | 73.58695 | 1.297922 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0088804 | .0117366 | 148.4850 | .1342790 | .1582901 | 1.782074 | 318.6053 |
| Stddev | .0001974 | .0003492 | 2.2865   | .0035025 | .0015507 | .032523  | 5.0926   |
| %RSD   | 2.223249 | 2.975527 | 1.539907 | 2.608371 | .9796438 | 1.825036 | 1.598398 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0087883 | .0116197 | 148.7065 | .1302702 | .1570443 | 1.782614 | 318.3962 |
| #2 | .0091071 | .0114609 | 150.6528 | .1358201 | .1577993 | 1.814324 | 323.7992 |
| #3 | .0087459 | .0121293 | 146.0958 | .1367467 | .1600268 | 1.749284 | 313.6205 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 17.99661 | 31.57825 | .2454793 | .8466737 | 2.135234 | .2166474 | 1.040015 |
| Stddev | .28547   | .58737   | .0029232 | .0185299 | .199529  | .0040775 | .017921  |
| %RSD   | 1.586224 | 1.860031 | 1.190795 | 2.188549 | 9.344616 | 1.882079 | 1.723141 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 18.00645 | 31.55058 | .2429968 | .8257167 | 1.977075 | .2139437 | 1.022155 |
| #2 | 18.27703 | 32.17895 | .2447400 | .8534160 | 2.359404 | .2213374 | 1.057996 |
| #3 | 17.70635 | 31.00520 | .2487012 | .8608884 | 2.069223 | .2146612 | 1.039893 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.115054 | 7.174442 | -.017810 | .0207970 | 7.063363 | 8.492528 | .0769786 |
| Stddev | .215755  | .087488  | .003891  | .0003219 | .075335  | .117418  | .0009250 |
| %RSD   | 4.218044 | 1.219434 | 21.84598 | 1.547763 | 1.066564 | 1.382607 | 1.201637 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.092796 | 7.122173 | -.013776 | .0204488 | 7.007728 | 8.440863 | .0759106 |
| #2 | 5.341075 | 7.125711 | -.018116 | .0210837 | 7.033268 | 8.626920 | .0774994 |
| #3 | 4.911290 | 7.275444 | -.021539 | .0208585 | 7.149094 | 8.409802 | .0775258 |

Sample Name: P4981-15      Acquired: 12/13/2024 16:31:07      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.086226 | -.137213 | .0703013 |
| Stddev | .013202  | .002168  | .0025084 |
| %RSD   | 1.215368 | 1.579778 | 3.568058 |
| #1     | 1.087541 | -.136651 | .0674160 |
| #2     | 1.098721 | -.139606 | .0719638 |
| #3     | 1.072416 | -.135381 | .0715240 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2943.681 | 33553.75 | 2952.854 | 2437.042 | 2926.045 |
| Stddev    | 18.455   | 650.85   | 32.215   | 48.882   | 31.558   |
| %RSD      | .6269516 | 1.939718 | 1.090978 | 2.005803 | 1.078512 |
| #1        | 2955.039 | 34299.57 | 2952.198 | 2493.485 | 2945.272 |
| #2        | 2953.617 | 33260.90 | 2920.972 | 2409.130 | 2943.239 |
| #3        | 2922.386 | 33100.76 | 2985.392 | 2408.512 | 2889.624 |

Sample Name: P4981-16      Acquired: 12/13/2024 16:34:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1186859 | .0358978 | 1.042120 | -.024260 | .0216015 | 65.61576 |
| Stddev | .0034294 | .0043652 | .006092  | .005652  | .0020370 | .41461   |
| %RSD   | 2.889491 | 12.16011 | .5846060 | 23.29682 | 9.429731 | .6318746 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1191551 | .0347508 | 1.037845 | -.028967 | .0200780 | 65.14606 |
| #2 | .1150461 | .0322206 | 1.039420 | -.025823 | .0239151 | 65.93085 |
| #3 | .1218566 | .0407220 | 1.049096 | -.017992 | .0208112 | 65.77036 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .8077113 | .0064295 | .0056825 | F 1014.984 | .1015322 | .1452961 |
| Stddev | .0040540 | .0001363 | .0001367 | 11.954     | .0005292 | .0014086 |
| %RSD   | .5019094 | 2.120297 | 2.406542 | 1.177708   | .5212416 | .9694521 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .8031797 | .0063478 | .0057138 | 1001.294 | .1013733 | .1442241 |
| #2 | .8109937 | .0065869 | .0055328 | 1020.301 | .1011006 | .1447729 |
| #3 | .8089605 | .0063539 | .0058009 | 1023.356 | .1021226 | .1468915 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3353916 | 175.1657 | 12.10921 | 40.47235 | .1957628 | -.016591 |
| Stddev | .0041620 | .9233    | .05334   | .18654   | .0012952 | .001073  |
| %RSD   | 1.240922 | .5271040 | .4404721 | .4609081 | .6616225 | 6.467644 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3358751 | 174.2229 | 12.04810 | 40.27415 | .1942990 | -.016189 |
| #2 | .3392906 | 176.0682 | 12.14642 | 40.64449 | .1962292 | -.017806 |
| #3 | .3310090 | 175.2061 | 12.13311 | 40.49842 | .1967602 | -.015776 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.373905 | .1581974 | .6136011 | 8.041244 | 6.573670 | .0276120 |
| Stddev | .474384  | .0054238 | .0077308 | .075283  | .039441  | .0037785 |
| %RSD   | 19.98326 | 3.428498 | 1.259903 | .9362168 | .5999842 | 13.68423 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.889162 | .1637490 | .6050468 | 7.955345 | 6.542592 | .0314543 |
| #2 | 2.277281 | .1579320 | .6200881 | 8.095753 | 6.560379 | .0239007 |
| #3 | 1.955272 | .1529112 | .6156685 | 8.072634 | 6.618040 | .0274810 |

Sample Name: P4981-16      Acquired: 12/13/2024 16:34:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0015821 | 1.578691 | 8.482216 | .0467174 | .8198913 | .5052471 |
| Stddev | .0005142 | .003004  | .052395  | .0004102 | .0053370 | .0023832 |
| %RSD   | 32.49998 | .1903112 | .6176988 | .8779698 | .6509383 | .4716838 |
| #1     | .0017457 | 1.579464 | 8.436274 | .0462738 | .8144995 | .5025571 |
| #2     | .0010060 | 1.581234 | 8.539278 | .0470830 | .8200026 | .5070947 |
| #3     | .0019945 | 1.575376 | 8.471096 | .0467953 | .8251717 | .5060894 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1063137 |
| Stddev | .0032517 |
| %RSD   | 3.058584 |
| #1     | .1100313 |
| #2     | .1049112 |
| #3     | .1039986 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2614.015 | 29243.68 | 2683.900 | 2116.831 | 2642.280 |
| Stddev    | 2.315    | 23.61    | 14.832   | 3.814    | 5.610    |
| %RSD      | .0885509 | .0807346 | .5526386 | .1801766 | .2123057 |
| #1        | 2616.043 | 29251.72 | 2700.888 | 2118.049 | 2646.222 |
| #2        | 2614.510 | 29217.10 | 2673.519 | 2119.888 | 2644.760 |
| #3        | 2611.493 | 29262.21 | 2677.294 | 2112.557 | 2635.858 |

Sample Name: P4981-17      Acquired: 12/13/2024 16:38:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1173866 | .0517056 | 1.091355 | -.024788 | .0206179 | 42.90831 |
| Stddev | .0048546 | .0048199 | .005025  | .004127  | .0017630 | .18715   |
| %RSD   | 4.135549 | 9.321769 | .4604110 | 16.65003 | 8.551028 | .4361561 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1205013 | .0570939 | 1.096435 | -.022470 | .0222687 | 43.04756 |
| #2 | .1198654 | .0502176 | 1.086388 | -.022340 | .0208242 | 42.98180 |
| #3 | .1117930 | .0478051 | 1.091241 | -.029553 | .0187608 | 42.69557 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .6630355 | .0040757 | .0047819 | F 1276.064 | .0778002 | .1150321 |
| Stddev | .0037763 | .0001533 | .0001253 | 8.902      | .0002709 | .0006291 |
| %RSD   | .5695482 | 3.762174 | 2.620320 | .6975825   | .3481859 | .5469279 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6665682 | .0042486 | .0046520 | 1266.094 | .0775510 | .1157584 |
| #2 | .6634830 | .0039564 | .0047916 | 1283.213 | .0780886 | .1146554 |
| #3 | .6590554 | .0040221 | .0049020 | 1278.886 | .0777610 | .1146824 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4431627 | 154.9894 | 17.60960 | 25.24991 | .1433180 | -.012812 |
| Stddev | .0052322 | .6584    | .05589   | .19974   | .0006131 | .001252  |
| %RSD   | 1.180658 | .4247892 | .3174093 | .7910489 | .4278088 | 9.768672 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4450501 | 155.5373 | 17.67093 | 25.39514 | .1433450 | -.012776 |
| #2 | .4471894 | 155.1720 | 17.59635 | 25.33247 | .1439172 | -.011579 |
| #3 | .4372487 | 154.2591 | 17.56153 | 25.02213 | .1426919 | -.014081 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.599626 | .1211388 | .5619785 | 3.408281 | 6.343069 | .0033326 |
| Stddev | .320751  | .0067324 | .0079428 | .128399  | .006196  | .0032739 |
| %RSD   | 12.33836 | 5.557593 | 1.413371 | 3.767271 | .0976754 | 98.23607 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.915610 | .1158800 | .5679556 | 3.462282 | 6.344378 | .0068955 |
| #2 | 2.608956 | .1287264 | .5650144 | 3.261701 | 6.348506 | .0026457 |
| #3 | 2.274311 | .1188099 | .5529654 | 3.500860 | 6.336324 | .0004568 |

Sample Name: P4981-17      Acquired: 12/13/2024 16:38:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC9      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
|--------|----------|----------|----------|----------|----------|----------|
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0028820 | 1.210752 | 8.505267 | .0359152 | .7513005 | .6658165 |
| Stddev | .0000069 | .003697  | .070878  | .0011234 | .0072821 | .0031408 |
| %RSD   | .2397979 | .3053431 | .8333412 | 3.127931 | .9692678 | .4717269 |
| #1     | .0028767 | 1.206759 | 8.568782 | .0360025 | .7554261 | .6692914 |
| #2     | .0028898 | 1.214056 | 8.518208 | .0347507 | .7555831 | .6649783 |
| #3     | .0028795 | 1.211440 | 8.428810 | .0369924 | .7428923 | .6631798 |

| Elem   | Li6707   |
|--------|----------|
| Units  | ppm      |
| Avg    | .0698573 |
| Stddev | .0042075 |
| %RSD   | 6.023013 |
| #1     | .0731486 |
| #2     | .0713065 |
| #3     | .0651167 |

| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
|-----------|----------|----------|----------|----------|----------|
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2596.500 | 29002.88 | 2677.708 | 2108.366 | 2654.211 |
| Stddev    | 6.214    | 35.55    | 14.629   | 6.137    | 2.952    |
| %RSD      | .2393049 | .1225732 | .5463305 | .2910735 | .1112107 |
| #1        | 2594.130 | 28989.89 | 2662.050 | 2101.281 | 2653.978 |
| #2        | 2591.821 | 29043.09 | 2680.046 | 2112.033 | 2651.383 |
| #3        | 2603.550 | 28975.65 | 2691.027 | 2111.783 | 2657.273 |

Sample Name: P4981-21      Acquired: 12/13/2024 16:42:54      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJD0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1014884 | .0321521 | 1.089302 | -.026427 | .0206199 | 56.25520 |
| Stddev | .0026391 | .0036451 | .004389  | .003463  | .0036413 | .12884   |
| %RSD   | 2.600356 | 11.33709 | .4029026 | 13.10303 | 17.65900 | .2290277 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1035696 | .0363088 | 1.086173 | -.028374 | .0246669 | 56.32684 |
| #2 | .1023755 | .0306465 | 1.087415 | -.022429 | .0195838 | 56.10646 |
| #3 | .0985201 | .0295008 | 1.094319 | -.028478 | .0176089 | 56.33230 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .6372931 | .0048556 | .0047844 | F 1086.373 | .0879211 | .1250871 |
| Stddev | .0015437 | .0001231 | .0000448 | 12.841     | .0003982 | .0006321 |
| %RSD   | .2422321 | 2.535479 | .9363373 | 1.181972   | .4528806 | .5053616 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6390014 | .0049258 | .0048087 | 1078.542 | .0883803 | .1256381 |
| #2 | .6359980 | .0047134 | .0048118 | 1079.385 | .0876721 | .1252261 |
| #3 | .6368800 | .0049275 | .0047327 | 1101.192 | .0877109 | .1243970 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3911097 | 151.1524 | 11.74155 | 31.66365 | .1694854 | -.013649 |
| Stddev | .0092639 | .2297    | .02757   | .07104   | .0011013 | .000216  |
| %RSD   | 2.368625 | .1519635 | .2347664 | .2243715 | .6497884 | 1.579580 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3869608 | 151.3645 | 11.75758 | 31.72991 | .1701562 | -.013898 |
| #2 | .4017229 | 150.9084 | 11.70972 | 31.58863 | .1682144 | -.013516 |
| #3 | .3846454 | 151.1843 | 11.75735 | 31.67239 | .1700856 | -.013533 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.169369 | .1261486 | .7607174 | 3.843447 | 7.848289 | .0002160 |
| Stddev | .578667  | .0018264 | .0020280 | .199544  | .009589  | .0006766 |
| %RSD   | 26.67441 | 1.447784 | .2665961 | 5.191797 | .1221822 | 313.3010 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.791121 | .1265658 | .7621850 | 3.649719 | 7.837248 | .0009280 |
| #2 | 2.070444 | .1277303 | .7584032 | 3.832282 | 7.854542 | -.000419 |
| #3 | 1.646542 | .1241498 | .7615640 | 4.048338 | 7.853075 | .000139  |

Sample Name: P4981-21      Acquired: 12/13/2024 16:42:54      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJD0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0005526 | 1.412478 | 8.820281 | .0387471 | .9491434 | .4892244 |
| Stddev | .0003931 | .009252  | .053909  | .0005675 | .0023502 | .0011499 |
| %RSD   | 71.13544 | .6550326 | .6111982 | 1.464694 | .2476120 | .2350482 |
| #1     | .0010027 | 1.408607 | 8.834127 | .0381370 | .9465665 | .4894475 |
| #2     | .0003778 | 1.405790 | 8.865917 | .0388449 | .9511688 | .4879792 |
| #3     | .0002772 | 1.423037 | 8.760799 | .0392594 | .9496948 | .4902464 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0842264 |
| Stddev | .0069683 |
| %RSD   | 8.273302 |
| #1     | .0888483 |
| #2     | .0762115 |
| #3     | .0876196 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2571.279 | 28742.53 | 2652.190 | 2090.157 | 2706.010 |
| Stddev    | 1.224    | 150.37   | 2.860    | 10.527   | .735     |
| %RSD      | .0476143 | .5231714 | .1078213 | .5036294 | .0271780 |
| #1        | 2571.663 | 28648.87 | 2649.845 | 2081.012 | 2706.859 |
| #2        | 2569.909 | 28915.98 | 2651.350 | 2101.664 | 2705.553 |
| #3        | 2572.265 | 28662.74 | 2655.376 | 2087.797 | 2705.620 |



Sample Name: CCV009      Acquired: 12/13/2024 17:02:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV009      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.832007 | 4.841248 | 23.64655 | 4.509461 | 4.683642 | 376.8997 | 9.682058 |
| Stddev | .018108  | .032212  | .10035   | .017782  | .027966  | 1.8433   | .033959  |
| %RSD   | .3747598 | .6653616 | .4243561 | .3943166 | .5971010 | .4890582 | .3507372 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.814102 | 4.809838 | 23.59355 | 4.489441 | 4.655727 | 376.1112 | 9.667780 |
| #2 | 4.831606 | 4.839699 | 23.58381 | 4.515524 | 4.683542 | 379.0061 | 9.720824 |
| #3 | 4.850312 | 4.874206 | 23.76228 | 4.523419 | 4.711659 | 375.5819 | 9.657570 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4808017 | 2.366246 | 387.1792 | 14.56216 | 2.350240 | 14.59267 | 386.3524 |
| Stddev | .0005072 | .008684  | 2.1386   | .02232   | .008134  | .00977   | .9197    |
| %RSD   | .1054950 | .3669958 | .5523570 | .1532397 | .3460989 | .0669641 | .2380381 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4807037 | 2.361216 | 385.8997 | 14.53690 | 2.346030 | 14.58472 | 385.8922 |
| #2 | .4813507 | 2.361249 | 389.6481 | 14.57035 | 2.345074 | 14.60358 | 387.4113 |
| #3 | .4803505 | 2.376274 | 385.9898 | 14.57922 | 2.359616 | 14.58972 | 385.7536 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.44298 | 376.8928 | 2.390707 | 1.206703 | 377.0150 | 2.436928 | 13.70697 |
| Stddev | .02273   | 1.1325   | .009501  | .002737  | 2.2271   | .018842  | .01485   |
| %RSD   | .1573981 | .3004733 | .3974156 | .2268564 | .5907168 | .7731697 | .1083277 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 14.42349 | 376.2683 | 2.385914 | 1.204481 | 376.4671 | 2.452263 | 13.72396 |
| #2 | 14.46795 | 378.2000 | 2.384558 | 1.209761 | 379.4649 | 2.442626 | 13.69649 |
| #3 | 14.43749 | 376.2101 | 2.401650 | 1.205869 | 375.1130 | 2.415895 | 13.70045 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 143.3968 | 4.718178 | 4.634120 | 4.586733 | 4.707523 | 4.733634 | 4.782256 |
| Stddev | .4631    | .023444  | .017272  | .016905  | .029575  | .007696  | .020635  |
| %RSD   | .3229310 | .4968915 | .3727213 | .3685635 | .6282586 | .1625852 | .4314871 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 143.2233 | 4.710081 | 4.616553 | 4.569159 | 4.683623 | 4.725034 | 4.766443 |
| #2 | 143.9216 | 4.699856 | 4.651082 | 4.588165 | 4.698346 | 4.739873 | 4.774728 |
| #3 | 143.0455 | 4.744598 | 4.634724 | 4.602878 | 4.740599 | 4.735996 | 4.805598 |

Sample Name: CCV009      Acquired: 12/13/2024 17:02:01      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV009      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.871255 | 4.570714 | 4.900104 |
| Stddev | .004700  | .010519  | .016200  |
| %RSD   | .0964868 | .2301394 | .3305952 |
| #1     | 4.871086 | 4.564287 | 4.910238 |
| #2     | 4.876037 | 4.582853 | 4.881421 |
| #3     | 4.866641 | 4.565001 | 4.908654 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1966.041 | 24040.16 | 2226.227 | 1641.556 | 2571.868 |
| Stddev    | 3.244    | 113.51   | 8.851    | 8.182    | 6.765    |
| %RSD      | .1649780 | .4721584 | .3975869 | .4984124 | .2630379 |
| #1        | 1969.049 | 23909.32 | 2216.320 | 1632.199 | 2571.756 |
| #2        | 1966.468 | 24112.16 | 2229.003 | 1645.102 | 2578.688 |
| #3        | 1962.604 | 24099.02 | 2233.357 | 1647.366 | 2565.160 |

Sample Name: CCB009      Acquired: 12/13/2024 17:05:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB009      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0039612 | .0012782 | .0032165 | -.001954 | .0029694 | -.016198 |
| Stddev | .0030390 | .0007619 | .0016756 | .002986  | .0019756 | .003947  |
| %RSD   | 76.71936 | 59.60694 | 52.09261 | 152.7808 | 66.53094 | 24.36943 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0071832 | .0019004 | .0051510 | .000906  | .0052226 | -.012234 |
| #2 | .0011461 | .0004285 | .0022809 | -.001717 | .0021516 | -.016233 |
| #3 | .0035544 | .0015055 | .0022177 | -.005052 | .0015340 | -.020129 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0026786 | .0001228 | .0000715 | .0306852 | -.000878 | .0002707 |
| Stddev | .0004085 | .0001041 | .0000941 | .0249583 | .000356  | .0002278 |
| %RSD   | 15.25090 | 84.80605 | 131.6103 | 81.33683 | 40.52462 | 84.13877 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0025575 | .0000026 | .0001756 | .0265145 | -.000864 | .0004271 |
| #2 | .0031340 | .0001843 | -.000007 | .0574661 | -.000529 | .0003758 |
| #3 | .0023443 | .0001814 | .000046  | .0080749 | -.001240 | .0000094 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000987 | .0014988 | .0006398 | .0142825 | -.000116 | .0010360 |
| Stddev | .008574  | .0320760 | .0002455 | .0951731 | .000080  | .0008694 |
| %RSD   | 868.9109 | 2140.155 | 38.37887 | 666.3626 | 69.44075 | 83.92043 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.000399 | -.007507 | .0008472 | .0673118 | -.000208 | .0016020 |
| #2 | .007278  | .037115  | .0007035 | -.095592 | -.000079 | .0014711 |
| #3 | -.009839 | -.025112 | .0003687 | .071128  | -.000060 | .0000349 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.738052 | -.001241 | .0016904 | -.088599 | -.001534 | .0027001 |
| Stddev | .225441  | .008983  | .0004840 | .101470  | .000955  | .0002381 |
| %RSD   | 12.97090 | 723.9117 | 28.63000 | 114.5273 | 62.23670 | 8.818961 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.941398 | -.008657 | .0013286 | .027422  | -.000865 | .0029689 |
| #2 | 1.777134 | .008748  | .0015024 | -.160771 | -.002627 | .0025156 |
| #3 | 1.495626 | -.003813 | .0022401 | -.132447 | -.001109 | .0026158 |

Sample Name: CCB009      Acquired: 12/13/2024 17:05:39      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB009      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001177 | -.003999 | -.038175 | .0000872 | -.000857 | -.000013 |
| Stddev | .0002763 | .003873  | .000561  | .0003702 | .002759  | .000186  |
| %RSD   | 234.7664 | 96.85603 | 1.470094 | 424.7811 | 321.9270 | 1409.313 |
| #1     | .0004126 | -.008469 | -.037540 | -.000340 | .001601  | .000042  |
| #2     | -.000135 | -.001865 | -.038604 | .000279  | -.000330 | .000139  |
| #3     | .000075  | -.001662 | -.038380 | .000322  | -.003842 | -.000220 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.023690 |
| Stddev | .000346    |
| %RSD   | 1.460557   |
| #1     | -.023578   |
| #2     | -.023414   |
| #3     | -.024078   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2416.170 | 26541.62 | 2353.732 | 1964.187 | 3271.424 |
| Stddev    | 4.256    | 34.19    | 4.589    | 1.116    | 9.934    |
| %RSD      | .1761550 | .1288346 | .1949871 | .0568032 | .3036473 |
| #1        | 2411.302 | 26580.77 | 2348.588 | 1963.075 | 3260.392 |
| #2        | 2418.017 | 26517.61 | 2357.407 | 1965.307 | 3279.660 |
| #3        | 2419.190 | 26526.48 | 2355.201 | 1964.179 | 3274.219 |

Sample Name: P4981-22      Acquired: 12/13/2024 17:09:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0626964 | .0298477 | 1.704691 | -.020259 | .0237945 | 70.59400 | .9369422 |
| Stddev | .0056124 | .0039864 | .007800  | .002029  | .0033460 | .08004   | .0011776 |
| %RSD   | 8.951625 | 13.35589 | .4575371 | 10.01430 | 14.06218 | .1133750 | .1256888 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0685853 | .0324659 | 1.701244 | -.020986 | .0276391 | 70.68431 | .9374550 |
| #2 | .0574090 | .0318174 | 1.699208 | -.021825 | .0215402 | 70.56586 | .9377766 |
| #3 | .0620949 | .0252598 | 1.713620 | -.017967 | .0222042 | 70.53184 | .9355951 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0052240 | .0072104 | 676.2243 | .0968775 | .1124356 | .3212414 | 158.2455 |
| Stddev | .0001865 | .0001165 | 1.3515   | .0005234 | .0008603 | .0040374 | .2761    |
| %RSD   | 3.570815 | 1.615789 | .1998538 | .5402470 | .7651349 | 1.256799 | .1744796 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0054383 | .0071394 | 677.2123 | .0962792 | .1118038 | .3171678 | 158.3198 |
| #2 | .0050978 | .0071468 | 676.7764 | .0972504 | .1120876 | .3213148 | 157.9398 |
| #3 | .0051360 | .0073448 | 674.6842 | .0971029 | .1134154 | .3252415 | 158.4768 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.539306 | 261.4737 | .1802159 | -.012416 | 2.411430 | .1554155 | 1.364864 |
| Stddev | .023190  | .3428    | .0007766 | .001278  | .357343  | .0075565 | .006183  |
| %RSD   | .2715652 | .1310929 | .4309141 | 10.29556 | 14.81871 | 4.862136 | .4530198 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.564888 | 261.8654 | .1796577 | -.013837 | 2.089347 | .1617401 | 1.357998 |
| #2 | 8.519663 | 261.2289 | .1798872 | -.012053 | 2.795834 | .1470474 | 1.366601 |
| #3 | 8.533367 | 261.3267 | .1811028 | -.011359 | 2.349109 | .1574589 | 1.369992 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 7.141521 | 9.671671 | .0128860 | .0012209 | 4.803761 | 8.861985 | .0833749 |
| Stddev | .041921  | .030949  | .0025352 | .0002126 | .012387  | .049591  | .0010623 |
| %RSD   | .5870063 | .3199990 | 19.67390 | 17.41589 | .2578625 | .5595906 | 1.274146 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.189819 | 9.647585 | .0108401 | .0012338 | 4.799376 | 8.901580 | .0838930 |
| #2 | 7.120171 | 9.660850 | .0157222 | .0014269 | 4.794162 | 8.806363 | .0840788 |
| #3 | 7.114573 | 9.706578 | .0120958 | .0010022 | 4.817744 | 8.878013 | .0821530 |

Sample Name: P4981-22      Acquired: 12/13/2024 17:09:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.353943 | .4001173 | .1316781 |
| Stddev | .008857  | .0007362 | .0037190 |
| %RSD   | .6541507 | .1839849 | 2.824322 |
| #1     | 1.348986 | .4009673 | .1358351 |
| #2     | 1.348674 | .3996842 | .1286668 |
| #3     | 1.364168 | .3997005 | .1305323 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2536.468 | 28438.15 | 2642.159 | 2060.273 | 2654.991 |
| Stddev    | 9.517    | 117.26   | 9.730    | 5.688    | 11.407   |
| %RSD      | .3752094 | .4123509 | .3682512 | .2761013 | .4296353 |
| #1        | 2540.626 | 28572.98 | 2637.526 | 2066.549 | 2662.808 |
| #2        | 2543.198 | 28381.60 | 2653.340 | 2058.815 | 2660.263 |
| #3        | 2525.579 | 28359.88 | 2635.612 | 2055.456 | 2641.902 |

Sample Name: P4983-01      Acquired: 12/13/2024 17:13:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJ97      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0474795 | .0410663 | .2642133 | -.027043 | .0056721 | 31.88042 |
| Stddev | .0038202 | .0032277 | .0044206 | .003899  | .0013002 | .08644   |
| %RSD   | 8.045988 | 7.859629 | 1.673124 | 14.41794 | 22.92220 | .2711358 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0432645 | .0441185 | .2683246 | -.031345 | .0068358 | 31.97985 |
| #2 | .0507137 | .0413925 | .2647777 | -.026044 | .0059117 | 31.82315 |
| #3 | .0484604 | .0376880 | .2595375 | -.023741 | .0042688 | 31.83826 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .3021289 | .0027968 | .0037143 | F 1026.554 | .0538413 | .0967367 |
| Stddev | .0004739 | .0000321 | .0000882 | 2.378      | .0004808 | .0001561 |
| %RSD   | .1568645 | 1.148519 | 2.373307 | .2316569   | .8928955 | .1613939 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3020762 | .0028276 | .0037752 | 1028.915 | .0537440 | .0968001 |
| #2 | .3016835 | .0027993 | .0036133 | 1026.588 | .0543633 | .0968512 |
| #3 | .3026269 | .0027635 | .0037546 | 1024.159 | .0534166 | .0965589 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1623015 | 100.1988 | 12.68257 | 289.0779 | .1034838 | -.007456 |
| Stddev | .0036142 | .3941    | .02062   | .0883    | .0001526 | .001295  |
| %RSD   | 2.226859 | .3932800 | .1625773 | .0305323 | .1474337 | 17.37027 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1581383 | 100.3398 | 12.67020 | 289.0102 | .1036572 | -.008903 |
| #2 | .1641316 | 100.5029 | 12.70637 | 289.1777 | .1033702 | -.007063 |
| #3 | .1646346 | 99.7536  | 12.67112 | 289.0457 | .1034239 | -.006403 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.017322 | .0694112 | .3702991 | 3.404737 | 5.360169 | .0211397 |
| Stddev | .329563  | .0084917 | .0048330 | .124191  | .006136  | .0008734 |
| %RSD   | 8.203542 | 12.23396 | 1.305156 | 3.647605 | .1144726 | 4.131732 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 4.394467 | .0730769 | .3743723 | 3.284114 | 5.353089 | .0218944 |
| #2 | 3.872712 | .0597023 | .3715663 | 3.532214 | 5.363933 | .0213416 |
| #3 | 3.784786 | .0754544 | .3649588 | 3.397884 | 5.363486 | .0201829 |

Sample Name: P4983-01      Acquired: 12/13/2024 17:13:33      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJ97      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000079 | 6.939224 | 9.087051 | .0220172 | .4526755 | .5885582 |
| Stddev | .000221  | .010418  | .034307  | .0007060 | .0027306 | .0012466 |
| %RSD   | 281.4243 | .1501309 | .3775337 | 3.206478 | .6032176 | .2118040 |
| #1     | -.000318 | 6.950581 | 9.051384 | .0215449 | .4517827 | .5894621 |
| #2     | -.000037 | 6.930111 | 9.119812 | .0216780 | .4557407 | .5871361 |
| #3     | .000119  | 6.936979 | 9.089959 | .0228288 | .4505030 | .5890764 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0600533 |
| Stddev | .0023571 |
| %RSD   | 3.925055 |
| #1     | .0590160 |
| #2     | .0583927 |
| #3     | .0627512 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2430.549 | 27573.92 | 2536.862 | 1988.498 | 2554.025 |
| Stddev    | 4.587    | 140.36   | 8.504    | 10.339   | 2.725    |
| %RSD      | .1887419 | .5090387 | .3352100 | .5199220 | .1066952 |
| #1        | 2430.611 | 27562.68 | 2542.422 | 1988.259 | 2554.365 |
| #2        | 2425.932 | 27719.56 | 2541.091 | 1998.954 | 2551.146 |
| #3        | 2435.106 | 27439.51 | 2527.072 | 1978.280 | 2556.564 |



Sample Name: P4983-02      Acquired: 12/13/2024 17:17:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1382591 | .0517480 | .9301430 | -.009655 | .0284585 | 58.36595 |
| Stddev | .0022758 | .0007628 | .0017506 | .002160  | .0030569 | .15438   |
| %RSD   | 1.646029 | 1.474000 | .1882085 | 22.37461 | 10.74148 | .2644964 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1396206 | .0510921 | .9281948 | -.007340 | .0309231 | 58.29945 |
| #2 | .1395249 | .0515668 | .9306502 | -.011618 | .0294146 | 58.25596 |
| #3 | .1356318 | .0525850 | .9315841 | -.010006 | .0250379 | 58.54243 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.314914 | .0062801 | .0084996 | 760.5095 | .0924107 | .1370405 |
| Stddev | .002433  | .0000564 | .0000887 | 1.9861   | .0006717 | .0010109 |
| %RSD   | .1850361 | .8973368 | 1.043035 | .2611602 | .7268629 | .7376589 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.314526 | .0062319 | .0083994 | 760.6146 | .0919665 | .1377042 |
| #2 | 1.312699 | .0063420 | .0085678 | 758.4730 | .0931834 | .1358771 |
| #3 | 1.317518 | .0062663 | .0085316 | 762.4411 | .0920821 | .1375402 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4266489 | 194.9651 | 21.97634 | 81.95704 | .2073613 | -.015402 |
| Stddev | .0045382 | .1981    | .01217   | .24496   | .0008250 | .000224  |
| %RSD   | 1.063677 | .1016136 | .0553760 | .2988877 | .3978702 | 1.452574 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4214798 | 195.1144 | 21.97776 | 82.09684 | .2079298 | -.015419 |
| #2 | .4284882 | 194.7404 | 21.96353 | 81.67420 | .2077391 | -.015171 |
| #3 | .4299787 | 195.0407 | 21.98774 | 82.10010 | .2064151 | -.015617 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.643422 | .1544349 | .6778001 | 6.414794 | F 12.82796 | .0054345 |
| Stddev | .245213  | .0049628 | .0018740 | .093209  | .03784     | .0031932 |
| %RSD   | 9.276331 | 3.213525 | .2764883 | 1.453029 | .2949533   | 58.75768 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.903710 | .1577462 | .6788988 | 6.515213 | 12.87165 | .0087779 |
| #2 | 2.416754 | .1568297 | .6788654 | 6.331046 | 12.80600 | .0051094 |
| #3 | 2.609803 | .1487288 | .6756363 | 6.398123 | 12.80622 | .0024163 |

Sample Name: P4983-02      Acquired: 12/13/2024 17:17:24      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJC3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0062927 | 3.262157 | 8.601565 | .2264125 | 1.003184 | .4387189 |
| Stddev | .0005169 | .005271  | .015464  | .0007561 | .001248  | .0009770 |
| %RSD   | 8.214391 | .1615839 | .1797776 | .3339436 | .1243885 | .2226856 |
| #1     | .0068476 | 3.259672 | 8.587071 | .2266425 | 1.001931 | .4383390 |
| #2     | .0062056 | 3.268211 | 8.599781 | .2270269 | 1.004427 | .4379890 |
| #3     | .0058248 | 3.258588 | 8.617844 | .2255681 | 1.003193 | .4398288 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0781996 |
| Stddev | .0018174 |
| %RSD   | 2.324098 |
| #1     | .0775360 |
| #2     | .0768073 |
| #3     | .0802556 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2728.539 | 30498.92 | 2775.447 | 2209.720 | 2643.281 |
| Stddev    | 3.578    | 146.96   | 7.500    | 10.238   | 6.324    |
| %RSD      | .1311291 | .4818627 | .2702380 | .4633313 | .2392606 |
| #1        | 2727.252 | 30515.09 | 2778.921 | 2212.428 | 2637.041 |
| #2        | 2725.783 | 30637.13 | 2780.581 | 2218.332 | 2643.115 |
| #3        | 2732.583 | 30344.54 | 2766.840 | 2198.400 | 2649.687 |

Sample Name: P4983-03      Acquired: 12/13/2024 17:21:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0853496 | .0444316 | .3213224 | -.012167 | .0271957 | 74.71466 | .7529320 |
| Stddev | .0036354 | .0013744 | .0052944 | .002718  | .0009877 | .16122   | .0019910 |
| %RSD   | 4.259389 | 3.093398 | 1.647683 | 22.34240 | 3.631844 | .2157783 | .2644389 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0852124 | .0428699 | .3235072 | -.011574 | .0263140 | 74.82086 | .7552212 |
| #2 | .0817848 | .0454574 | .3251746 | -.015133 | .0282631 | 74.52915 | .7519710 |
| #3 | .0890517 | .0449674 | .3152852 | -.009794 | .0270101 | 74.79397 | .7516037 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0057507 | .0050235 | 562.9271 | .0852553 | .1457667 | .2273681 | 176.2941 |
| Stddev | .0000541 | .0001170 | 1.0997   | .0029598 | .0026510 | .0051198 | .3368    |
| %RSD   | .9408440 | 2.328096 | .1953586 | 3.471636 | 1.818678 | 2.251775 | .1910349 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0056894 | .0051243 | 563.8196 | .0873326 | .1466004 | .2236479 | 176.2817 |
| #2 | .0057917 | .0050509 | 561.6986 | .0865670 | .1479007 | .2252492 | 176.6369 |
| #3 | .0057711 | .0048953 | 563.2632 | .0818664 | .1427990 | .2332073 | 175.9637 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 19.26943 | 74.39196 | .1813879 | -.012797 | 2.152452 | .1419190 | .2892302 |
| Stddev | .03619   | .14698   | .0023574 | .001720  | .440634  | .0033830 | .0073038 |
| %RSD   | .1877980 | .1975757 | 1.299648 | 13.44000 | 20.47123 | 2.383754 | 2.525253 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 19.28052 | 74.49961 | .1825021 | -.012233 | 1.656407 | .1456028 | .2911823 |
| #2 | 19.29877 | 74.45177 | .1829818 | -.014728 | 2.302433 | .1412028 | .2953596 |
| #3 | 19.22899 | 74.22451 | .1786800 | -.011430 | 2.498517 | .1389515 | .2811487 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.690783 | 6.580317 | -.018058 | .0009112 | 1.289460 | 8.314698 | .0250180 |
| Stddev | .057190  | .122279  | .002525  | .0005328 | .024933  | .043446  | .0013906 |
| %RSD   | 2.125403 | 1.858261 | 13.98337 | 58.47411 | 1.933578 | .5225216 | 5.558515 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.685940 | 6.618724 | -.016804 | .0014828 | 1.296134 | 8.347495 | .0234170 |
| #2 | 2.636168 | 6.678782 | -.020965 | .0004283 | 1.310376 | 8.331176 | .0257107 |
| #3 | 2.750240 | 6.443445 | -.016405 | .0008225 | 1.261869 | 8.265424 | .0259261 |

Sample Name: P4983-03      Acquired: 12/13/2024 17:21:11      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.075375 | .2917700 | .0737401 |
| Stddev | .001416  | .0012559 | .0038206 |
| %RSD   | .1316602 | .4304443 | 5.181131 |
| #1     | 1.076982 | .2928721 | .0713257 |
| #2     | 1.074834 | .2920353 | .0781449 |
| #3     | 1.074310 | .2904027 | .0717497 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2857.542 | 32449.55 | 2908.717 | 2353.722 | 2732.401 |
| Stddev    | 34.348   | 771.72   | 10.239   | 54.933   | 45.215   |
| %RSD      | 1.202017 | 2.378220 | .3520103 | 2.333865 | 1.654787 |
| #1        | 2853.681 | 31824.83 | 2899.341 | 2310.540 | 2723.213 |
| #2        | 2825.288 | 32211.60 | 2919.642 | 2335.074 | 2692.486 |
| #3        | 2893.658 | 33312.23 | 2907.167 | 2415.551 | 2781.505 |

Sample Name: P4983-04      Acquired: 12/13/2024 17:24:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960     | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .0688488 | .0576566 | .3475251 | -.022814   | .0133340 | 30.24417 |
| Stddev | .0038570 | .0010258 | .0018852 | .005260    | .0006912 | .03634   |
| %RSD   | 5.602088 | 1.779180 | .5424644 | 23.05494   | 5.184053 | .1201716 |
| #1     | .0649733 | .0585789 | .3468439 | -.026708   | .0137387 | 30.24017 |
| #2     | .0688860 | .0565518 | .3496562 | -.024903   | .0137274 | 30.28234 |
| #3     | .0726870 | .0578393 | .3460752 | -.016831   | .0125358 | 30.20999 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .6329940 | .0031124 | .0051361 | F 1543.572 | .0466341 | .0932529 |
| Stddev | .0026812 | .0000217 | .0000514 | 3.694      | .0005876 | .0008663 |
| %RSD   | .4235783 | .6971410 | 1.001747 | .2393162   | 1.259930 | .9289856 |
| #1     | .6358672 | .0031322 | .0051546 | 1541.206   | .0468454 | .0942267 |
| #2     | .6325564 | .0031157 | .0051757 | 1547.829   | .0470869 | .0929641 |
| #3     | .6305586 | .0030892 | .0050780 | 1541.682   | .0459702 | .0925678 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790     | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .2790922 | 141.9605 | 21.43973 | 121.0162   | .1093173 | -.011246 |
| Stddev | .0079257 | .1047    | .01804   | .1061      | .0011574 | .000909  |
| %RSD   | 2.839828 | .0737460 | .0841423 | .0876834   | 1.058779 | 8.080419 |
| #1     | .2880360 | 142.0008 | 21.46049 | 121.1387   | .1098354 | -.010205 |
| #2     | .2729398 | 141.8416 | 21.42788 | 120.9551   | .1101253 | -.011884 |
| #3     | .2763009 | 142.0390 | 21.43081 | 120.9548   | .1079914 | -.011648 |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698     | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | 2.911882 | .0830776 | .3944861 | 1.922732   | 7.419913 | -.003658 |
| Stddev | .445588  | .0041040 | .0055316 | .134986    | .077613  | .002026  |
| %RSD   | 15.30241 | 4.939938 | 1.402238 | 7.020553   | 1.046009 | 55.38936 |
| #1     | 2.620087 | .0791334 | .3882396 | 2.000474   | 7.443242 | -.001709 |
| #2     | 2.690779 | .0827747 | .3964538 | 1.766863   | 7.483185 | -.005754 |
| #3     | 3.424782 | .0873246 | .3987648 | 2.000858   | 7.333311 | -.003513 |

Sample Name: P4983-04      Acquired: 12/13/2024 17:24:58      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0087806 | 3.380756 | 9.414950 | .0344899 | .4406646 | .7150823 |
| Stddev | .0002571 | .039528  | .062704  | .0012471 | .0027944 | .0006215 |
| %RSD   | 2.927998 | 1.169193 | .6660027 | 3.615745 | .6341236 | .0869159 |
| #1     | .0088542 | 3.379295 | 9.467519 | .0353168 | .4380995 | .7155793 |
| #2     | .0089929 | 3.420994 | 9.431784 | .0350974 | .4402521 | .7143854 |
| #3     | .0084948 | 3.341979 | 9.345548 | .0330555 | .4436424 | .7152821 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0595537 |
| Stddev | .0017280 |
| %RSD   | 2.901531 |
| #1     | .0582556 |
| #2     | .0588904 |
| #3     | .0615150 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2497.042 | 27847.56 | 2588.906 | 2025.302 | 2542.202 |
| Stddev    | 23.189   | 52.51    | 13.661   | 8.158    | 28.675   |
| %RSD      | .9286605 | .1885780 | .5276658 | .4027928 | 1.127942 |
| #1        | 2485.945 | 27803.69 | 2578.833 | 2017.711 | 2528.204 |
| #2        | 2481.487 | 27833.24 | 2583.430 | 2024.266 | 2523.214 |
| #3        | 2523.695 | 27905.75 | 2604.455 | 2033.928 | 2575.187 |

Sample Name: P4983-05      Acquired: 12/13/2024 17:28:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJB6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3096676 | .0637331 | .4467487 | -.003159 | .0355414 | 58.55702 |
| Stddev | .0021994 | .0003663 | .0030399 | .003442  | .0017835 | .07822   |
| %RSD   | .7102510 | .5747209 | .6804459 | 108.9478 | 5.018186 | .1335714 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3120115 | .0637587 | .4500262 | -.006413 | .0335741 | 58.59478 |
| #2 | .3076489 | .0640859 | .4440216 | -.003508 | .0359975 | 58.46708 |
| #3 | .3093422 | .0633546 | .4461983 | .000444  | .0370525 | 58.60918 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .9299893 | .0071939 | .0071610 | F 918.7234 | .0936226 | .2233926 |
| Stddev | .0014939 | .0001745 | .0000514 | 12.3566    | .0007903 | .0006362 |
| %RSD   | .1606331 | 2.425959 | .7178264 | 1.344970   | .8441130 | .2847947 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .9306501 | .0073915 | .0071056 | 924.6719 | .0930157 | .2239525 |
| #2 | .9282790 | .0070609 | .0072071 | 904.5177 | .0945162 | .2227008 |
| #3 | .9310388 | .0071293 | .0071703 | 926.9806 | .0933359 | .2235246 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.050240 | 230.9429 | 29.01495 | 97.74089 | .2579650 | -.016963 |
| Stddev | .005708  | .5174    | .10675   | .23990   | .0012985 | .000386  |
| %RSD   | .5435139 | .2240201 | .3679271 | .2454415 | .5033475 | 2.278227 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.047051 | 230.6029 | 28.94772 | 97.83695 | .2594189 | -.017167 |
| #2 | 1.046838 | 230.6875 | 28.95910 | 97.46784 | .2575550 | -.017204 |
| #3 | 1.056830 | 231.5383 | 29.13805 | 97.91786 | .2569210 | -.016517 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 3.308787 | .1607352 | .5531128 | 8.859006 | F 18.23585 | .0119255 |
| Stddev | .133573  | .0002944 | .0039328 | .039078  | .06700     | .0021101 |
| %RSD   | 4.036931 | .1831810 | .7110240 | .4411118 | .3673820   | 17.69404 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.447080 | .1604761 | .5511140 | 8.884934 | 18.27437 | .0134652 |
| #2 | 3.180496 | .1606742 | .5505808 | 8.814059 | 18.15849 | .0095202 |
| #3 | 3.298786 | .1610554 | .5576435 | 8.878025 | 18.27469 | .0127910 |

Sample Name: P4983-05      Acquired: 12/13/2024 17:28:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJB6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0007147 | 4.361242 | 10.06966 | .0451932 | .5732294 | .6347217 |
| Stddev | .0004071 | .019153  | .04727   | .0003711 | .0039820 | .0021105 |
| %RSD   | 56.96845 | .4391699 | .4694142 | .8211102 | .6946577 | .3325075 |
| #1     | .0011847 | 4.377960 | 10.10536 | .0448710 | .5757518 | .6338684 |
| #2     | .0004892 | 4.340344 | 10.08757 | .0455989 | .5686389 | .6331714 |
| #3     | .0004701 | 4.365423 | 10.01606 | .0451096 | .5752975 | .6371252 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0748801 |
| Stddev | .0024485 |
| %RSD   | 3.269881 |
| #1     | .0720634 |
| #2     | .0760766 |
| #3     | .0765002 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2731.786 | 30484.52 | 2829.240 | 2218.349 | 2638.915 |
| Stddev    | 7.313    | 99.80    | 14.529   | 7.181    | 8.948    |
| %RSD      | .2676964 | .3273890 | .5135345 | .3237220 | .3390726 |
| #1        | 2729.645 | 30439.42 | 2813.608 | 2217.685 | 2631.144 |
| #2        | 2739.931 | 30598.92 | 2842.331 | 2225.840 | 2648.698 |
| #3        | 2725.783 | 30415.23 | 2831.782 | 2211.523 | 2636.904 |



Sample Name: P4983-06      Acquired: 12/13/2024 17:32:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2103651 | .0258578 | .3995902 | .0068310 | .0335609 | 64.96557 | .6951371 |
| Stddev | .0036354 | .0022256 | .0021527 | .0045047 | .0018801 | .15951   | .0021677 |
| %RSD   | 1.728144 | 8.606921 | .5387333 | 65.94552 | 5.602070 | .2455228 | .3118362 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2108660 | .0246975 | .4020595 | .0026169 | .0314888 | 65.02043 | .6955955 |
| #2 | .2137241 | .0284237 | .3986032 | .0115788 | .0351579 | 65.09040 | .6970389 |
| #3 | .2065052 | .0244521 | .3981080 | .0062972 | .0340361 | 64.78587 | .6927768 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0068046 | .0046649 | 106.8915 | .0842705 | .1492267 | .6339461 | 200.4452 |
| Stddev | .0001494 | .0000796 | .2101    | .0004678 | .0003944 | .0033408 | .2725    |
| %RSD   | 2.196215 | 1.706491 | .1965548 | .5551407 | .2643123 | .5269790 | .1359263 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0066363 | .0047526 | 106.7983 | .0838540 | .1487716 | .6360236 | 200.1747 |
| #2 | .0068555 | .0046447 | 107.1321 | .0847767 | .1494680 | .6357223 | 200.7195 |
| #3 | .0069219 | .0045973 | 106.7441 | .0841807 | .1494406 | .6300925 | 200.4413 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.80456 | 45.34167 | .1608480 | -.014968 | 2.334324 | .1609490 | .3815323 |
| Stddev | .00145   | .19050   | .0007082 | .000447  | .339640  | .0019392 | .0053457 |
| %RSD   | .0091882 | .4201376 | .4403033 | 2.987681 | 14.54984 | 1.204881 | 1.401103 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 15.80595 | 45.44767 | .1611134 | -.014597 | 2.354712 | .1625553 | .3765634 |
| #2 | 15.80468 | 45.45558 | .1600455 | -.014843 | 1.984949 | .1614970 | .3808452 |
| #3 | 15.80306 | 45.12175 | .1613853 | -.015465 | 2.663311 | .1587947 | .3871882 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.007880 | 8.964412 | -.032974 | .0043144 | 1.370380 | 9.315659 | .0315565 |
| Stddev | .113745  | .010740  | .004086  | .0003520 | .003794  | .013930  | .0012289 |
| %RSD   | 2.271326 | .1198090 | 12.39235 | 8.159543 | .2768272 | .1495382 | 3.894192 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.070965 | 8.962499 | -.028568 | .0040843 | 1.372238 | 9.299629 | .0301390 |
| #2 | 4.876571 | 8.954756 | -.036639 | .0041393 | 1.366016 | 9.322513 | .0322099 |
| #3 | 5.076103 | 8.975980 | -.033715 | .0047197 | 1.372888 | 9.324834 | .0323207 |

Sample Name: P4983-06      Acquired: 12/13/2024 17:32:47      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJE7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .9367501 | .0941600 | .0320809 |
| Stddev | .0055554 | .0009228 | .0025232 |
| %RSD   | .5930503 | .9800463 | 7.865268 |
| #1     | .9422369 | .0951205 | .0298005 |
| #2     | .9368848 | .0940793 | .0347916 |
| #3     | .9311285 | .0932802 | .0316506 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2894.606 | 32355.53 | 2857.096 | 2371.818 | 2987.885 |
| Stddev    | 1.870    | 108.82   | 10.486   | 11.479   | 1.348    |
| %RSD      | .0646019 | .3363166 | .3670041 | .4839763 | .0451251 |
| #1        | 2896.044 | 32456.18 | 2866.831 | 2384.144 | 2989.343 |
| #2        | 2892.492 | 32240.07 | 2845.993 | 2361.433 | 2987.629 |
| #3        | 2895.282 | 32370.33 | 2858.463 | 2369.878 | 2986.683 |

Sample Name: P4983-07      Acquired: 12/13/2024 17:37:00      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJF9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0624293 | .0283201 | .4619532 | -.032398 | .0157229 | 60.86786 |
| Stddev | .0030706 | .0043166 | .0079487 | .001148  | .0035818 | .04082   |
| %RSD   | 4.918554 | 15.24212 | 1.720673 | 3.542814 | 22.78079 | .0670694 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0658302 | .0233719 | .4578631 | -.033708 | .0125156 | 60.86600 |
| #2 | .0598605 | .0313130 | .4568825 | -.031569 | .0195881 | 60.82800 |
| #3 | .0615972 | .0302754 | .4711141 | -.031917 | .0150652 | 60.90958 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .8404452 | .0055311 | .0074202 | F 1424.961 | .1037137 | .1077946 |
| Stddev | .0027519 | .0002287 | .0001253 | 16.754     | .0009406 | .0021712 |
| %RSD   | .3274283 | 4.135274 | 1.688269 | 1.175756   | .9068995 | 2.014161 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .8425902 | .0054620 | .0073112 | 1421.411 | .1045683 | .1071660 |
| #2 | .8373425 | .0057864 | .0073922 | 1443.206 | .1038671 | .1060072 |
| #3 | .8414030 | .0053449 | .0075571 | 1410.267 | .1027059 | .1102108 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1580107 | 158.5201 | 8.829531 | 651.7531 | .1908696 | -.014638 |
| Stddev | .0040045 | .2390    | .008583  | .6200    | .0036388 | .000757  |
| %RSD   | 2.534333 | .1507938 | .0972081 | .0951229 | 1.906451 | 5.174092 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1614028 | 158.7020 | 8.835731 | 651.5564 | .1899677 | -.015043 |
| #2 | .1535932 | 158.2494 | 8.833127 | 651.2552 | .1877665 | -.015107 |
| #3 | .1590360 | 158.6090 | 8.819735 | 652.4475 | .1948745 | -.013765 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.654413 | .1319177 | 1.150346 | 6.649384 | 5.299212 | .0285642 |
| Stddev | .071253  | .0007864 | .005673  | .080935  | .099465  | .0007450 |
| %RSD   | 2.684311 | .5961178 | .4931145 | 1.217182 | 1.876977 | 2.608133 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.717878 | .1321156 | 1.154219 | 6.742605 | 5.241454 | .0285658 |
| #2 | 2.577336 | .1310513 | 1.143835 | 6.608505 | 5.242118 | .0278184 |
| #3 | 2.668024 | .1325863 | 1.152985 | 6.597042 | 5.414063 | .0293084 |

Sample Name: P4983-07      Acquired: 12/13/2024 17:37:00      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJF9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0030959 | 17.44984 | 11.27565 | .0352871 | .6821825 | .8744734 |
| Stddev | .0006007 | .31961   | .09454   | .0011360 | .0023797 | .0004701 |
| %RSD   | 19.40225 | 1.831574 | .8384844 | 3.219400 | .3488303 | .0537615 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0024059 | 17.24910 | 11.25691 | .0354969 | .6808998 | .8745056 |
| #2 | .0033803 | 17.28201 | 11.37816 | .0363036 | .6849283 | .8739880 |
| #3 | .0035016 | 17.81840 | 11.19187 | .0340608 | .6807193 | .8749266 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1316859 |
| Stddev | .0042179 |
| %RSD   | 3.203027 |

|    |          |
|----|----------|
| #1 | .1279180 |
| #2 | .1362425 |
| #3 | .1308970 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2249.788 | 25878.74 | 2403.701 | 1855.491 | 2397.997 |
| Stddev    | 29.081   | 129.15   | 10.562   | 9.968    | 38.076   |
| %RSD      | 1.292603 | .4990741 | .4394065 | .5372317 | 1.587822 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2263.656 | 25788.48 | 2407.135 | 1847.867 | 2419.451 |
| #2 | 2269.338 | 25821.05 | 2391.849 | 1851.835 | 2420.506 |
| #3 | 2216.369 | 26026.68 | 2412.118 | 1866.771 | 2354.035 |

Sample Name: P4880-14A      Acquired: 12/13/2024 17:40:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1029969 | .0214450 | 4.035667 | .0334171 | .0201397 | 55.36489 |
| Stddev | .0017755 | .0022604 | .006528  | .0012913 | .0016084 | .24664   |
| %RSD   | 1.723876 | 10.54026 | .1617517 | 3.864197 | 7.986161 | .4454858 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1043846 | .0211959 | 4.034547 | .0321287 | .0190276 | 55.35290 |
| #2 | .1036102 | .0193196 | 4.029772 | .0334114 | .0219839 | 55.12446 |
| #3 | .1009961 | .0238196 | 4.042682 | .0347113 | .0194076 | 55.61731 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.268657 | .0049560 | .0082416 | 261.2672 | .1413234 | .0903762 |
| Stddev | .008770  | .0000723 | .0000806 | 1.0916   | .0010720 | .0001464 |
| %RSD   | .3865613 | 1.459848 | .9779546 | .4178257 | .7585629 | .1619771 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.272312 | .0049519 | .0082824 | 261.1337 | .1405765 | .0902080 |
| #2 | 2.258651 | .0048858 | .0082936 | 260.2485 | .1408420 | .0904457 |
| #3 | 2.275008 | .0050303 | .0081488 | 262.4195 | .1425518 | .0904749 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6194541 | 120.2991 | 5.677627 | 98.06267 | .1715508 | -.008015 |
| Stddev | .0107528 | .4215    | .023199  | .26832   | .0001852 | .000926  |
| %RSD   | 1.735846 | .3503654 | .4085954 | .2736216 | .1079581 | 11.55172 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .6276095 | 120.2261 | 5.681945 | 98.16197 | .1714662 | -.008064 |
| #2 | .6072685 | 119.9188 | 5.652573 | 97.75885 | .1714229 | -.007065 |
| #3 | .6234845 | 120.7523 | 5.698363 | 98.26718 | .1717632 | -.008915 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 3.012793 | .1578652 | 2.521365 | 3.217050 | F 10.47477 | .0169153 |
| Stddev | .626301  | .0127504 | .021800  | .137223  | .02042     | .0010950 |
| %RSD   | 20.78806 | 8.076735 | .8646004 | 4.265482 | .1948979   | 6.473372 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.194291 | .1695444 | 2.542824 | 3.374996 | 10.47175 | .0179682 |
| #2 | 3.528301 | .1597890 | 2.499240 | 3.127131 | 10.45604 | .0157826 |
| #3 | 2.315787 | .1442623 | 2.522030 | 3.149023 | 10.49653 | .0169950 |

Sample Name: P4880-14A      Acquired: 12/13/2024 17:40:56      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHH91A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0051811 | 3.635375 | 9.718738 | .1557843 | .9177012 | .2760410 |
| Stddev | .0001762 | .010346  | .046762  | .0019173 | .0049197 | .0005211 |
| %RSD   | 3.400405 | .2845898 | .4811499 | 1.230730 | .5360921 | .1887803 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0049905 | 3.626560 | 9.664839 | .1537859 | .9205623 | .2756083 |
| #2 | .0052147 | 3.632799 | 9.742900 | .1576085 | .9120205 | .2758951 |
| #3 | .0053380 | 3.646765 | 9.748476 | .1559585 | .9205209 | .2766195 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0714966 |
| Stddev | .0023883 |
| %RSD   | 3.340472 |

|    |          |
|----|----------|
| #1 | .0727698 |
| #2 | .0687414 |
| #3 | .0729785 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2550.397 | 28485.75 | 2535.436 | 2065.502 | 2853.744 |
| Stddev    | 5.461    | 152.14   | 10.208   | 9.756    | 1.644    |
| %RSD      | .2141053 | .5341029 | .4026190 | .4723237 | .0576120 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2550.166 | 28412.23 | 2537.308 | 2056.072 | 2852.235 |
| #2 | 2545.056 | 28660.69 | 2544.578 | 2075.554 | 2853.502 |
| #3 | 2555.969 | 28384.34 | 2524.421 | 2064.881 | 2855.496 |

Sample Name: P5042-01A      Acquired: 12/13/2024 17:44:43      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1217906 | .0246661 | 1.803092 | .0454298 | .0256708 | 55.17306 | 1.308790 |
| Stddev | .0010342 | .0011073 | .004508  | .0024794 | .0018815 | .10101   | .000149  |
| %RSD   | .8491187 | 4.489136 | .2500017 | 5.457589 | 7.329520 | .1830696 | .0113772 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1206488 | .0252625 | 1.798226 | .0425774 | .0238181 | 55.26492 | 1.308940 |
| #2 | .1226643 | .0253475 | 1.807126 | .0470690 | .0275799 | 55.18936 | 1.308789 |
| #3 | .1220586 | .0233885 | 1.803923 | .0466429 | .0256143 | 55.06490 | 1.308642 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0058287 | .0074171 | 111.7739 | .0938506 | .1020455 | .4254714 | 145.0262 |
| Stddev | .0000602 | .0000217 | .2030    | .0009201 | .0002594 | .0070170 | .1205    |
| %RSD   | 1.032679 | .2923067 | .1815957 | .9804194 | .2542153 | 1.649223 | .0830592 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0057642 | .0074402 | 112.0039 | .0947332 | .1017861 | .4332284 | 144.9807 |
| #2 | .0058834 | .0074141 | 111.6201 | .0928970 | .1023049 | .4236199 | 145.1628 |
| #3 | .0058385 | .0073971 | 111.6975 | .0939216 | .1020455 | .4195658 | 144.9351 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 11.48705 | 28.52270 | .1475244 | -.008965 | 1.875592 | .1429437 | 1.267985 |
| Stddev | .00837   | .12108   | .0005850 | .000576  | .142010  | .0087991 | .010877  |
| %RSD   | .0729068 | .4244987 | .3965595 | 6.423607 | 7.571501 | 6.155653 | .8578523 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 11.47789 | 28.52784 | .1480386 | -.008619 | 2.014990 | .1444791 | 1.279509 |
| #2 | 11.49431 | 28.39914 | .1468879 | -.009630 | 1.880679 | .1334779 | 1.257897 |
| #3 | 11.48894 | 28.64113 | .1476468 | -.008646 | 1.731106 | .1508741 | 1.266549 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.110503 | 6.525670 | -.001200 | .0063633 | 1.909481 | 7.903867 | .0925148 |
| Stddev | .084158  | .011813  | .004859  | .0002636 | .003634  | .067583  | .0019368 |
| %RSD   | 2.047391 | .1810161 | 405.0198 | 4.143059 | .1902954 | .8550581 | 2.093551 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.063813 | 6.512282 | .003805  | .0063286 | 1.907891 | 7.835480 | .0940924 |
| #2 | 4.060040 | 6.530104 | -.001507 | .0061186 | 1.906913 | 7.970616 | .0930988 |
| #3 | 4.207656 | 6.534624 | -.005897 | .0066425 | 1.913639 | 7.905505 | .0903531 |

Sample Name: P5042-01A      Acquired: 12/13/2024 17:44:43      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKB0A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .6804737 | .8350444 | .0398410 |
| Stddev | .0032294 | .0014591 | .0012383 |
| %RSD   | .4745835 | .1747279 | 3.108054 |
| #1     | .6806533 | .8367070 | .0384577 |
| #2     | .6836096 | .8344488 | .0402192 |
| #3     | .6771582 | .8339773 | .0408460 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2780.645 | 30853.81 | 2725.749 | 2263.514 | 3108.763 |
| Stddev    | 6.441    | 162.27   | 9.896    | 15.826   | 8.046    |
| %RSD      | .2316317 | .5259457 | .3630469 | .6991785 | .2588070 |
| #1        | 2787.215 | 30668.04 | 2733.357 | 2245.291 | 3113.742 |
| #2        | 2774.342 | 30967.95 | 2714.562 | 2271.437 | 3099.480 |
| #3        | 2780.378 | 30925.42 | 2729.328 | 2273.813 | 3113.065 |



Sample Name: P5041-01A      Acquired: 12/13/2024 17:48:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2564434 | .0205741 | 9.100652 | .0486026 | .0187550 | 61.93128 |
| Stddev | .0034666 | .0014272 | .015153  | .0015209 | .0005282 | .06853   |
| %RSD   | 1.351818 | 6.936841 | .1665096 | 3.129316 | 2.816221 | .1106536 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2603903 | .0221111 | 9.083960 | .0502834 | .0190366 | 61.85446 |
| #2 | .2538921 | .0192907 | 9.113543 | .0473212 | .0181457 | 61.95326 |
| #3 | .2550478 | .0203206 | 9.104452 | .0482033 | .0190828 | 61.98612 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.373906 | .0065807 | .0117319 | 162.5325 | .1514980 | .1031291 |
| Stddev | .004381  | .0000346 | .0000666 | .1523    | .0006963 | .0002923 |
| %RSD   | .1845686 | .5251570 | .5675393 | .0936963 | .4596164 | .2833995 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.369354 | .0065468 | .0117308 | 162.4247 | .1517005 | .1031591 |
| #2 | 2.374270 | .0065795 | .0117990 | 162.4660 | .1520706 | .1034052 |
| #3 | 2.378094 | .0066159 | .0116658 | 162.7067 | .1507229 | .1028229 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4172107 | 126.2487 | 9.136997 | 22.85099 | .1810309 | -.006233 |
| Stddev | .0079384 | .3754    | .010472  | .08015   | .0003326 | .000292  |
| %RSD   | 1.902736 | .2973366 | .1146073 | .3507702 | .1837513 | 4.682921 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4108073 | 125.8171 | 9.130069 | 22.81636 | .1811360 | -.006140 |
| #2 | .4260927 | 126.4993 | 9.149043 | 22.94263 | .1812983 | -.006561 |
| #3 | .4147321 | 126.4297 | 9.131878 | 22.79396 | .1806584 | -.006000 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.846038 | .3257497 | 2.960134 | 2.848838 | F 17.03937 | .0196251 |
| Stddev | .150868  | .0095251 | .017556  | .198376  | .02589     | .0027865 |
| %RSD   | 5.301000 | 2.924041 | .5930865 | 6.963387 | .1519556   | 14.19845 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.681625 | .3153514 | 2.950313 | 3.011109 | 17.01414 | .0184675 |
| #2 | 2.878370 | .3340525 | 2.949686 | 2.907717 | 17.06588 | .0176040 |
| #3 | 2.978121 | .3278453 | 2.980403 | 2.627689 | 17.03810 | .0228037 |

Sample Name: P5041-01A      Acquired: 12/13/2024 17:48:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHK78A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0208344 | 3.170107 | 7.553159 | .2027583 | .8334742 | .5888331 |
| Stddev | .0002310 | .007623  | .058501  | .0004546 | .0031345 | .0004921 |
| %RSD   | 1.108909 | .2404743 | .7745179 | .2242221 | .3760816 | .0835697 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0208801 | 3.162219 | 7.567016 | .2022739 | .8299167 | .5893915 |
| #2 | .0210392 | 3.177435 | 7.603487 | .2031757 | .8358302 | .5884628 |
| #3 | .0205840 | 3.170667 | 7.488974 | .2028253 | .8346759 | .5886451 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1140212 |
| Stddev | .0041982 |
| %RSD   | 3.681985 |

|    |          |
|----|----------|
| #1 | .1162269 |
| #2 | .1091799 |
| #3 | .1166569 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2787.672 | 30926.90 | 2756.164 | 2271.539 | 3193.582 |
| Stddev    | 3.303    | 144.08   | 9.422    | 8.175    | 3.158    |
| %RSD      | .1184985 | .4658766 | .3418366 | .3598833 | .0988914 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2786.435 | 31023.97 | 2760.236 | 2277.839 | 3190.880 |
| #2 | 2791.415 | 30995.39 | 2745.392 | 2274.476 | 3197.054 |
| #3 | 2785.165 | 30761.36 | 2762.865 | 2262.301 | 3192.813 |

Sample Name: P5040-01A      Acquired: 12/13/2024 17:52:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0433767 | .0286726 | .2605444 | .0237479 | .0132912 | 50.15156 | .8616390 |
| Stddev | .0016492 | .0019214 | .0027755 | .0023374 | .0005324 | .08836   | .0021881 |
| %RSD   | 3.802102 | 6.701073 | 1.065260 | 9.842449 | 4.005726 | .1761875 | .2539486 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0427727 | .0308709 | .2621988 | .0211333 | .0134465 | 50.16810 | .8601568 |
| #2 | .0452427 | .0278329 | .2620943 | .0256352 | .0137287 | 50.05609 | .8606080 |
| #3 | .0421146 | .0273140 | .2573402 | .0244750 | .0126984 | 50.23048 | .8641521 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0041353 | .0038102 | 540.9203 | .0810219 | .0956075 | .1458113 | 125.5485 |
| Stddev | .0000754 | .0000232 | .9312    | .0008645 | .0006205 | .0067211 | .0897    |
| %RSD   | 1.822297 | .6095941 | .1721534 | 1.067028 | .6490428 | 4.609417 | .0714718 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0042153 | .0037880 | 541.8385 | .0809819 | .0962801 | .1465755 | 125.4807 |
| #2 | .0040656 | .0038083 | 539.9766 | .0819058 | .0954851 | .1521177 | 125.5145 |
| #3 | .0041249 | .0038343 | 540.9460 | .0801782 | .0950572 | .1387409 | 125.6502 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 7.547430 | 127.7011 | .1507610 | -.011534 | 2.394339 | .1407997 | .4243262 |
| Stddev | .012877  | .3520    | .0009460 | .000724  | .388463  | .0161381 | .0060041 |
| %RSD   | .1706156 | .2756562 | .6275083 | 6.274648 | 16.22421 | 11.46173 | 1.414981 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 7.548131 | 127.9182 | .1516960 | -.011616 | 2.786328 | .1520504 | .4290122 |
| #2 | 7.534217 | 127.2950 | .1507826 | -.012213 | 2.387188 | .1480393 | .4175582 |
| #3 | 7.559943 | 127.8902 | .1498043 | -.010772 | 2.009501 | .1223095 | .4264083 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .7844230 | 8.089087 | -.005901 | .0027212 | 1.055691 | 6.154296 | .0531884 |
| Stddev | .1284205 | .016740  | .002114  | .0005288 | .004160  | .016341  | .0004101 |
| %RSD   | 16.37133 | .2069443 | 35.82633 | 19.43082 | .3940963 | .2655152 | .7709705 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .6594437 | 8.105986 | -.007989 | .0022681 | 1.060371 | 6.169450 | .0536220 |
| #2 | .7777972 | 8.072511 | -.005951 | .0025934 | 1.052412 | 6.136983 | .0528068 |
| #3 | .9160282 | 8.088764 | -.003762 | .0033022 | 1.054291 | 6.156455 | .0531365 |

Sample Name: P5040-01A      Acquired: 12/13/2024 17:52:19      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHKD6A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .9852240 | .5157749 | .0862689 |
| Stddev | .0052853 | .0022652 | .0029159 |
| %RSD   | .5364601 | .4391860 | 3.380055 |
| #1     | .9854475 | .5139360 | .0885955 |
| #2     | .9798304 | .5150836 | .0829978 |
| #3     | .9903940 | .5183053 | .0872135 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2600.503 | 28874.85 | 2642.432 | 2112.908 | 2886.651 |
| Stddev    | 5.332    | 46.78    | 5.794    | 7.718    | 6.282    |
| %RSD      | .2050542 | .1620183 | .2192613 | .3652951 | .2176212 |
| #1        | 2594.561 | 28831.53 | 2641.086 | 2119.818 | 2879.397 |
| #2        | 2602.077 | 28868.56 | 2648.781 | 2104.578 | 2890.246 |
| #3        | 2604.871 | 28924.46 | 2637.430 | 2114.328 | 2890.309 |

Sample Name: P4905-02A      Acquired: 12/13/2024 17:56:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3720331 | .0225526 | 3.265793 | .0493031 | .1125509 | 70.29521 |
| Stddev | .0060743 | .0037193 | .007651  | .0023972 | .0023009 | .16485   |
| %RSD   | 1.632723 | 16.49175 | .2342716 | 4.862176 | 2.044305 | .2345168 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3744808 | .0249139 | 3.271335 | .0520496 | .1105062 | 70.46807 |
| #2 | .3651169 | .0244787 | 3.257064 | .0482283 | .1121041 | 70.13974 |
| #3 | .3765017 | .0182653 | 3.268980 | .0476313 | .1150425 | 70.27782 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 6.101665 | .0064339 | .0108782 | 147.2969 | .1519988 | .1140095 |
| Stddev | .015451  | .0000571 | .0000810 | .3671    | .0014494 | .0005563 |
| %RSD   | .2532301 | .8879176 | .7447742 | .2492390 | .9535841 | .4879346 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 6.114374 | .0064475 | .0107923 | 147.7198 | .1534475 | .1145496 |
| #2 | 6.084466 | .0063712 | .0109533 | 147.0601 | .1520004 | .1140408 |
| #3 | 6.106155 | .0064830 | .0108891 | 147.1109 | .1505486 | .1134383 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.185332 | 182.8893 | 12.17538 | 36.18179 | .2120554 | .0039434 |
| Stddev | .007235  | .4788    | .03601   | .25457   | .0004655 | .0002434 |
| %RSD   | .6103742 | .2617852 | .2957566 | .7035789 | .2195326 | 6.173010 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.181021 | 183.2919 | 12.18205 | 36.34414 | .2123802 | .0041626 |
| #2 | 1.181290 | 182.3599 | 12.13651 | 35.88839 | .2115221 | .0039862 |
| #3 | 1.193685 | 183.0162 | 12.20759 | 36.31283 | .2122640 | .0036814 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.776082 | .1771131 | 5.389650 | 10.48600 | F 21.61427 | .0187959 |
| Stddev | .334745  | .0037893 | .015620  | .17845   | .07562     | .0028724 |
| %RSD   | 12.05817 | 2.139504 | .2898209 | 1.701752 | .3498724   | 15.28204 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.429449 | .1814546 | 5.407523 | 10.33988 | 21.69855 | .0194189 |
| #2 | 3.097514 | .1744703 | 5.382812 | 10.43325 | 21.59192 | .0156631 |
| #3 | 2.801283 | .1754143 | 5.378615 | 10.68488 | 21.55234 | .0213056 |

Sample Name: P4905-02A      Acquired: 12/13/2024 17:56:08      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHA6A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0067519 | 4.577939 | 9.478952 | .1828291 | 1.337784 | .1914517 |
| Stddev | .0005160 | .015425  | .032604  | .0021455 | .002467  | .0008322 |
| %RSD   | 7.642591 | .3369476 | .3439625 | 1.173478 | .1844273 | .4346659 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0072189 | 4.594120 | 9.478748 | .1840452 | 1.334949 | .1923782 |
| #2 | .0061979 | 4.576297 | 9.446450 | .1840903 | 1.338957 | .1912092 |
| #3 | .0068389 | 4.563401 | 9.511657 | .1803519 | 1.339445 | .1907677 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0650976 |
| Stddev | .0030346 |
| %RSD   | 4.661597 |

|    |          |
|----|----------|
| #1 | .0632347 |
| #2 | .0634588 |
| #3 | .0685992 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2845.302 | 31614.30 | 2839.222 | 2316.629 | 2994.445 |
| Stddev    | 2.919    | 46.24    | 6.963    | 8.940    | 3.073    |
| %RSD      | .1025798 | .1462777 | .2452402 | .3859051 | .1026296 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2848.032 | 31560.91 | 2833.455 | 2309.893 | 2991.624 |
| #2 | 2842.225 | 31640.13 | 2846.957 | 2313.222 | 2993.990 |
| #3 | 2845.649 | 31641.85 | 2837.255 | 2326.771 | 2997.720 |

Sample Name: P4907-01A      Acquired: 12/13/2024 17:59:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHE1A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1301036 | .0224529 | 1.426422 | .0361382 | .0259700 | 88.77963 |
| Stddev | .0005190 | .0007222 | .002845  | .0031399 | .0025924 | .70626   |
| %RSD   | .3988822 | 3.216662 | .1994798 | 8.688742 | 9.982250 | .7955233 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1301410 | .0226978 | 1.428053 | .0397606 | .0252370 | 89.01045 |
| #2 | .1306029 | .0230208 | 1.423136 | .0344607 | .0238231 | 87.98683 |
| #3 | .1295670 | .0216400 | 1.428076 | .0341932 | .0288500 | 89.34160 |

|        |          |            |          |          |          |          |
|--------|----------|------------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348     | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm        | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.870033 | F 2.825185 | .0102115 | 270.2270 | .1516808 | .1227911 |
| Stddev | .014597  | .017361    | .0001279 | 2.2532   | .0009516 | .0003646 |
| %RSD   | .7805847 | .6145234   | 1.252397 | .8338359 | .6273442 | .2969098 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.878492 | 2.835126 | .0103514 | 270.9462 | .1524263 | .1232023 |
| #2 | 1.853178 | 2.805138 | .0101823 | 267.7019 | .1520071 | .1225075 |
| #3 | 1.878430 | 2.835290 | .0101007 | 272.0328 | .1506090 | .1226634 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.536327 | 166.5496 | 10.00794 | 78.00625 | .2208566 | -.010921 |
| Stddev | .012552  | 1.3723   | .08628   | .61668   | .0009667 | .000372  |
| %RSD   | .8169848 | .8239464 | .8620886 | .7905535 | .4377180 | 3.402322 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.550762 | 167.2143 | 10.07235 | 78.42724 | .2215876 | -.010697 |
| #2 | 1.527979 | 164.9716 | 9.90992  | 77.29839 | .2212218 | -.011350 |
| #3 | 1.530241 | 167.4630 | 10.04156 | 78.29311 | .2197605 | -.010716 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.280596 | .2000136 | 4.138669 | 9.677424 | F 16.44950 | .0186930 |
| Stddev | .393916  | .0089647 | .014896  | .171531  | .04483     | .0021913 |
| %RSD   | 17.27251 | 4.482067 | .3599115 | 1.772484 | .2725218   | 11.72278 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.858597 | .1922152 | 4.154104 | 9.819599 | 16.50061 | .0211639 |
| #2 | 2.344599 | .2098082 | 4.137524 | 9.486911 | 16.43109 | .0169856 |
| #3 | 2.638591 | .1980175 | 4.124378 | 9.725762 | 16.41681 | .0179294 |

Sample Name: P4907-01A      Acquired: 12/13/2024 17:59:55      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHE1A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0044675 | 4.234892 | 8.983939 | .1019545 | .9568737 | .2452715 |
| Stddev | .0003649 | .023756  | .034804  | .0019205 | .0082323 | .0019389 |
| %RSD   | 8.168105 | .5609662 | .3874016 | 1.883653 | .8603330 | .7905030 |
| #1     | .0048634 | 4.262304 | 9.013444 | .1011478 | .9655779 | .2471915 |
| #2     | .0043945 | 4.222096 | 8.945556 | .1005690 | .9492127 | .2433143 |
| #3     | .0041446 | 4.220277 | 8.992815 | .1041468 | .9558306 | .2453086 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1149643 |
| Stddev | .0045420 |
| %RSD   | 3.950829 |
| #1     | .1145948 |
| #2     | .1106183 |
| #3     | .1196798 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2834.157 | 31720.10 | 2862.401 | 2305.202 | 2814.720 |
| Stddev    | 3.987    | 26.05    | 21.816   | 3.770    | 3.793    |
| %RSD      | .1406800 | .0821158 | .7621598 | .1635534 | .1347725 |
| #1        | 2836.059 | 31690.09 | 2851.953 | 2306.350 | 2813.212 |
| #2        | 2829.575 | 31736.72 | 2887.476 | 2308.265 | 2811.913 |
| #3        | 2836.837 | 31733.50 | 2847.773 | 2300.991 | 2819.036 |



Sample Name: P4932-02A      Acquired: 12/13/2024 18:03:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHQ2A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1528657 | .0264803 | 3.711174 | -.002660 | .0361723 | 63.05863 |
| Stddev | .0025003 | .0030416 | .005537  | .001926  | .0007326 | .26502   |
| %RSD   | 1.635603 | 11.48611 | .1492063 | 72.41850 | 2.025292 | .4202703 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1528479 | .0288032 | 3.705480 | -.002239 | .0355840 | 62.98105 |
| #2 | .1503744 | .0230376 | 3.711503 | -.004762 | .0359401 | 62.84106 |
| #3 | .1553748 | .0276001 | 3.716540 | -.000979 | .0369929 | 63.35378 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.580918 | .0062350 | .0200610 | 178.6938 | .1579569 | .1159552 |
| Stddev | .004844  | .0001030 | .0001438 | .7360    | .0008734 | .0005954 |
| %RSD   | .3063774 | 1.651869 | .7166547 | .4118637 | .5529544 | .5134395 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.580476 | .0063137 | .0199040 | 178.8190 | .1577778 | .1166073 |
| #2 | 1.576311 | .0061184 | .0201863 | 177.9033 | .1589060 | .1158177 |
| #3 | 1.585968 | .0062728 | .0200925 | 179.3592 | .1571869 | .1154406 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .8178790 | 172.3765 | 12.01442 | 41.45245 | .2046117 | -.009851 |
| Stddev | .0057238 | .4889    | .02596   | .31713   | .0009015 | .000236  |
| %RSD   | .6998313 | .2836295 | .2160986 | .7650478 | .4405997 | 2.391348 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .8236684 | 172.4436 | 12.03614 | 41.46959 | .2054579 | -.009674 |
| #2 | .8122232 | 171.8575 | 11.98566 | 41.12710 | .2047135 | -.010118 |
| #3 | .8177454 | 172.8284 | 12.02145 | 41.76067 | .2036636 | -.009760 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.578629 | .1695707 | 6.362461 | 6.538287 | F 12.44803 | .0114273 |
| Stddev | .351495  | .0064361 | .006963  | .114307  | .02682     | .0019879 |
| %RSD   | 13.63107 | 3.795523 | .1094447 | 1.748272 | .2154908   | 17.39634 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.579363 | .1632404 | 6.362990 | 6.617027 | 12.42769 | .0119304 |
| #2 | 2.226767 | .1761076 | 6.355248 | 6.407178 | 12.43798 | .0092361 |
| #3 | 2.929755 | .1693643 | 6.369145 | 6.590657 | 12.47843 | .0131153 |

Sample Name: P4932-02A      Acquired: 12/13/2024 18:03:42      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHQ2A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0058498 | 2.239676 | 9.195384 | .2448857 | 1.069457 | .1700065 |
| Stddev | .0002222 | .007205  | .043784  | .0012949 | .004567  | .0008159 |
| %RSD   | 3.799109 | .3217154 | .4761510 | .5287688 | .4270751 | .4799395 |
| #1     | .0061016 | 2.234262 | 9.225862 | .2438101 | 1.073103 | .1695163 |
| #2     | .0056810 | 2.247854 | 9.215078 | .2445240 | 1.064334 | .1695547 |
| #3     | .0057668 | 2.236911 | 9.145211 | .2463229 | 1.070933 | .1709483 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0633284 |
| Stddev | .0037816 |
| %RSD   | 5.971468 |
| #1     | .0603238 |
| #2     | .0675748 |
| #3     | .0620866 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2700.770 | 29959.13 | 2677.969 | 2179.885 | 2924.029 |
| Stddev    | 12.972   | 38.37    | 16.353   | 8.576    | 10.786   |
| %RSD      | .4802959 | .1280794 | .6106502 | .3934118 | .3688892 |
| #1        | 2687.243 | 29914.84 | 2660.228 | 2170.316 | 2912.955 |
| #2        | 2701.963 | 29982.40 | 2681.240 | 2182.460 | 2924.632 |
| #3        | 2713.104 | 29980.15 | 2692.439 | 2186.878 | 2934.502 |

Sample Name: P4933-20A      Acquired: 12/13/2024 18:07:29      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHX4A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1788730 | .0161254 | 7.159508 | .0630692 | .0318662 | 56.27057 |
| Stddev | .0007378 | .0000937 | .015270  | .0009695 | .0034707 | .18429   |
| %RSD   | .4124772 | .5809679 | .2132795 | 1.537203 | 10.89155 | .3275051 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1792010 | .0160975 | 7.146244 | .0638371 | .0286926 | 56.44569 |
| #2 | .1793899 | .0160489 | 7.156078 | .0619798 | .0313336 | 56.07831 |
| #3 | .1780280 | .0162299 | 7.176200 | .0633907 | .0355724 | 56.28770 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.876161 | .0056915 | .0086416 | 33.18014 | .1825904 | .1005438 |
| Stddev | .006341  | .0000572 | .0000695 | .06876   | .0008150 | .0005289 |
| %RSD   | .3379864 | 1.005088 | .8046279 | .2072336 | .4463332 | .5260451 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.882389 | .0057068 | .0085688 | 33.21089 | .1828794 | .0999582 |
| #2 | 1.869713 | .0057394 | .0086486 | 33.10137 | .1832214 | .1006862 |
| #3 | 1.876380 | .0056282 | .0087073 | 33.22816 | .1816703 | .1009868 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5291413 | 141.9343 | 12.43002 | 14.86252 | .2010525 | -.002596 |
| Stddev | .0041450 | .4711    | .04660   | .01930   | .0006201 | .000356  |
| %RSD   | .7833363 | .3319256 | .3749067 | .1298632 | .3084461 | 13.69700 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5291827 | 142.0810 | 12.44856 | 14.84063 | .2008640 | -.002791 |
| #2 | .5249758 | 141.4073 | 12.37701 | 14.86982 | .2017450 | -.002186 |
| #3 | .5332654 | 142.3146 | 12.46450 | 14.87710 | .2005485 | -.002811 |

|        |          |          |          |          |            |          |
|--------|----------|----------|----------|----------|------------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm      |
| Avg    | 2.488923 | .1504526 | 4.974233 | 5.161644 | F 11.70034 | -.007124 |
| Stddev | .131509  | .0073460 | .014792  | .135924  | .02587     | .001397  |
| %RSD   | 5.283782 | 4.882573 | .2973789 | 2.633345 | .2210778   | 19.60590 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 2.635580 | .1532135 | 4.965925 | 5.078523 | 11.67048 | -.008531 |
| #2 | 2.449702 | .1421262 | 4.965461 | 5.318502 | 11.71460 | -.007102 |
| #3 | 2.381486 | .1560181 | 4.991311 | 5.087908 | 11.71594 | -.005738 |

Sample Name: P4933-20A      Acquired: 12/13/2024 18:07:29      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHHX4A      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0112249 | 3.127835 | 9.851193 | .3366772 | 1.182287 | -.001265 |
| Stddev | .0001830 | .014065  | .043793  | .0002171 | .005944  | .000092  |
| %RSD   | 1.630138 | .4496760 | .4445448 | .0644902 | .5027152 | 7.291008 |
| #1     | .0110897 | 3.111772 | 9.839734 | .3364275 | 1.184544 | -.001300 |
| #2     | .0114331 | 3.133791 | 9.814269 | .3367823 | 1.175546 | -.001335 |
| #3     | .0111518 | 3.137942 | 9.899576 | .3368217 | 1.186773 | -.001161 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0341400 |
| Stddev | .0049461 |
| %RSD   | 14.48764 |
| #1     | .0394164 |
| #2     | .0333946 |
| #3     | .0296089 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2730.553 | 30251.26 | 2637.097 | 2209.891 | 3108.113 |
| Stddev    | 2.409    | 165.42   | 16.222   | 13.686   | 4.601    |
| %RSD      | .0882408 | .5468173 | .6151299 | .6193149 | .1480212 |
| #1        | 2732.149 | 30131.91 | 2618.366 | 2202.729 | 3109.144 |
| #2        | 2727.782 | 30181.79 | 2646.309 | 2201.273 | 3103.084 |
| #3        | 2731.730 | 30440.09 | 2646.614 | 2225.672 | 3112.111 |

Sample Name: P4983-08      Acquired: 12/13/2024 18:11:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0634755 | .0541542 | .4997264 | -.006163 | .0363001 | 96.66659 | 2.527213 |
| Stddev | .0016646 | .0020444 | .0065633 | .003376  | .0022576 | .87162   | .024318  |
| %RSD   | 2.622492 | 3.775206 | 1.313377 | 54.78378 | 6.219336 | .9016735 | .9622603 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0628094 | .0523000 | .4930994 | -.004858 | .0339932 | 97.22888 | 2.540147 |
| #2 | .0622471 | .0538159 | .4998559 | -.003634 | .0385050 | 95.66254 | 2.499161 |
| #3 | .0653701 | .0563467 | .5062240 | -.009997 | .0364020 | 97.10833 | 2.542332 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0081105 | .0233154 | 785.5191 | .1608489 | .2205243 | .2310907 | 234.9635 |
| Stddev | .0000310 | .0005036 | 6.2351   | .0119402 | .0039078 | .0061819 | 2.0187   |
| %RSD   | .3822916 | 2.159963 | .7937598 | 7.423212 | 1.772050 | 2.675116 | .8591760 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0080790 | .0227424 | 789.1685 | .1737730 | .2160452 | .2316867 | 236.0040 |
| #2 | .0081113 | .0235161 | 778.3196 | .1502283 | .2232371 | .2246323 | 232.6367 |
| #3 | .0081410 | .0236878 | 789.0691 | .1585453 | .2222906 | .2369530 | 236.2497 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 28.75557 | 236.6009 | .3516946 | -.018797 | 2.616964 | .2069055 | 1.315733 |
| Stddev | .26232   | 1.5061   | .0060194 | .003626  | .248665  | .0002178 | .074778  |
| %RSD   | .9122322 | .6365384 | 1.711536 | 19.29175 | 9.502042 | .1052668 | 5.683348 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 28.90911 | 237.6023 | .3449761 | -.022684 | 2.838117 | .2066657 | 1.395690 |
| #2 | 28.45268 | 234.8689 | .3535111 | -.015505 | 2.347791 | .2069596 | 1.247526 |
| #3 | 28.90491 | 237.3315 | .3565965 | -.018203 | 2.664984 | .2070911 | 1.303983 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.184651 | 4.764528 | -.016650 | .0056584 | 6.042859 | 11.51572 | .0350034 |
| Stddev | .184692  | .091334  | .004803  | .0003343 | .126569  | .26045   | .0012279 |
| %RSD   | 5.799451 | 1.916956 | 28.84620 | 5.907963 | 2.094522 | 2.261731 | 3.507944 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.340282 | 4.659519 | -.022131 | .0052824 | 5.896923 | 11.79186 | .0343419 |
| #2 | 2.980560 | 4.808559 | -.013174 | .0059220 | 6.108988 | 11.27447 | .0364202 |
| #3 | 3.233111 | 4.825505 | -.014647 | .0057707 | 6.122665 | 11.48083 | .0342481 |

Sample Name: P4983-08      Acquired: 12/13/2024 18:11:17      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .8695118 | 1.435449 | .1538628 |
| Stddev | .0081511 | .012898  | .0003442 |
| %RSD   | .9374278 | .8985377 | .2237107 |
| #1     | .8740155 | 1.443476 | .1535105 |
| #2     | .8601027 | 1.420571 | .1541983 |
| #3     | .8744173 | 1.442300 | .1538797 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2510.145 | 27509.35 | 2571.930 | 2000.174 | 2662.049 |
| Stddev    | 33.894   | 1521.98  | 30.093   | 105.923  | 46.798   |
| %RSD      | 1.350284 | 5.532604 | 1.170040 | 5.295699 | 1.757983 |
| #1        | 2548.701 | 25861.53 | 2538.957 | 1888.105 | 2715.951 |
| #2        | 2485.045 | 28862.36 | 2597.911 | 2098.637 | 2631.777 |
| #3        | 2496.690 | 27804.16 | 2578.922 | 2013.781 | 2638.419 |

Sample Name: P4983-09      Acquired: 12/13/2024 18:15:04      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0322374 | .0191630 | .2081420 | -.017133 | .0297585 | 99.40617 | 1.543755 |
| Stddev | .0045262 | .0012906 | .0009221 | .003764  | .0004149 | .41774   | .003432  |
| %RSD   | 14.04037 | 6.734682 | .4429910 | 21.96722 | 1.394085 | .4202345 | .2222948 |
| #1     | .0322752 | .0205592 | .2085841 | -.018047 | .0296715 | 99.08898 | 1.540997 |
| #2     | .0367447 | .0189158 | .2087599 | -.020356 | .0302100 | 99.25004 | 1.542670 |
| #3     | .0276924 | .0180138 | .2070822 | -.012997 | .0293941 | 99.87949 | 1.547598 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0086076 | .0080447 | 583.7717 | .1445857 | .1358684 | .2101292 | 198.2020 |
| Stddev | .0001066 | .0000387 | 1.9836   | .0007846 | .0004471 | .0064782 | .4192    |
| %RSD   | 1.238810 | .4810186 | .3397857 | .5426303 | .3290914 | 3.082980 | .2115258 |
| #1     | .0085293 | .0080874 | 582.9076 | .1438712 | .1356258 | .2158267 | 198.1776 |
| #2     | .0085644 | .0080120 | 582.3667 | .1444605 | .1355950 | .2114781 | 197.7956 |
| #3     | .0087291 | .0080348 | 586.0407 | .1454253 | .1363844 | .2030827 | 198.6330 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.296670 | 81.41379 | .2536075 | -.018009 | 1.995977 | .1919521 | .9618992 |
| Stddev | .013462  | .49998   | .0009013 | .001171  | .364997  | .0054734 | .0043784 |
| %RSD   | .2541536 | .6141202 | .3554129 | 6.501041 | 18.28662 | 2.851436 | .4551831 |
| #1     | 5.282762 | 81.05148 | .2529556 | -.019338 | 1.574655 | .1980339 | .9584793 |
| #2     | 5.297614 | 81.20569 | .2546361 | -.017130 | 2.197233 | .1874223 | .9603845 |
| #3     | 5.309635 | 81.98421 | .2532310 | -.017560 | 2.216044 | .1904000 | .9668338 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.907255 | 3.896529 | -.026304 | .0048577 | 1.852795 | 12.31799 | .0287266 |
| Stddev | .043771  | .005070  | .001574  | .0005184 | .015491  | .05481   | .0006367 |
| %RSD   | 2.294981 | .1301091 | 5.982171 | 10.67214 | .8361041 | .4449788 | 2.216365 |
| #1     | 1.862933 | 3.897036 | -.025773 | .0052893 | 1.834912 | 12.34848 | .0286066 |
| #2     | 1.950454 | 3.891226 | -.025064 | .0042827 | 1.862114 | 12.25471 | .0281586 |
| #3     | 1.908378 | 3.901327 | -.028074 | .0050012 | 1.861358 | 12.35078 | .0294148 |

Sample Name: P4983-09      Acquired: 12/13/2024 18:15:04      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG1      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 1.027171 | 1.515805 | .1445141 |
| Stddev | .007496  | .004118  | .0017401 |
| %RSD   | .7297646 | .2716589 | 1.204108 |
| #1     | 1.020956 | 1.513533 | .1428403 |
| #2     | 1.025061 | 1.513322 | .1463137 |
| #3     | 1.035496 | 1.520558 | .1443882 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2472.944 | 27721.64 | 2509.253 | 2015.639 | 2787.403 |
| Stddev    | 3.109    | 27.47    | 7.762    | 3.314    | 4.055    |
| %RSD      | .1257322 | .0991021 | .3093539 | .1643949 | .1454877 |
| #1        | 2471.370 | 27753.30 | 2510.978 | 2011.858 | 2786.429 |
| #2        | 2470.937 | 27707.49 | 2516.007 | 2018.039 | 2783.923 |
| #3        | 2476.526 | 27704.12 | 2500.773 | 2017.020 | 2791.856 |



Sample Name: P4983-13      Acquired: 12/13/2024 18:18:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0404039 | .0253719 | .3350630 | -.030353 | .0285205 | 101.1419 |
| Stddev | .0027518 | .0032843 | .0056133 | .006759  | .0014237 | .1984    |
| %RSD   | 6.810641 | 12.94478 | 1.675299 | 22.26722 | 4.991836 | .1961943 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0390598 | .0277184 | .3403290 | -.035867 | .0273009 | 101.3597 |
| #2 | .0385825 | .0216185 | .3357028 | -.032380 | .0281757 | 101.0944 |
| #3 | .0435694 | .0267787 | .3291572 | -.022813 | .0300849 | 100.9715 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | 1.484141 | .0085974 | .0097633 | F 1214.946 | .1516195 | .1442684 |
| Stddev | .004739  | .0001083 | .0000634 | 5.206      | .0007097 | .0005202 |
| %RSD   | .3193253 | 1.259955 | .6497772 | .4285227   | .4680563 | .3605760 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.489177 | .0085901 | .0098344 | 1220.911 | .1519078 | .1448481 |
| #2 | 1.483480 | .0087092 | .0097429 | 1212.606 | .1508111 | .1438424 |
| #3 | 1.479768 | .0084929 | .0097126 | 1211.319 | .1521397 | .1441146 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2125471 | 210.8963 | 7.376397 | 453.7781 | .2730719 | -.018680 |
| Stddev | .0058827 | .4015    | .016296  | .5755    | .0020221 | .000501  |
| %RSD   | 2.767707 | .1904009 | .2209151 | .1268211 | .7404846 | 2.682251 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .2150727 | 211.3579 | 7.394980 | 454.4175 | .2748168 | -.018765 |
| #2 | .2058234 | 210.7043 | 7.364545 | 453.6149 | .2708559 | -.018142 |
| #3 | .2167454 | 210.6269 | 7.369667 | 453.3018 | .2735431 | -.019133 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.910370 | .1837002 | 1.458538 | 3.901360 | 4.178525 | -.003419 |
| Stddev | .569230  | .0052739 | .013620  | .085858  | .013330  | .003190  |
| %RSD   | 19.55868 | 2.870908 | .9338242 | 2.200716 | .3190015 | 93.28734 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.509188 | .1826796 | 1.449659 | 3.988172 | 4.189063 | -.003805 |
| #2 | 2.845661 | .1790112 | 1.451735 | 3.816489 | 4.182972 | -.000054 |
| #3 | 2.376259 | .1894097 | 1.474219 | 3.899418 | 4.163541 | -.006399 |

Sample Name: P4983-13      Acquired: 12/13/2024 18:18:52      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG3      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0040507 | 9.556459 | 11.51110 | .0366500 | .9188303 | 1.594703 |
| Stddev | .0002394 | .044071  | .04340   | .0010908 | .0042090 | .004731  |
| %RSD   | 5.909499 | .4611672 | .3770147 | 2.976139 | .4580766 | .2966856 |
| #1     | .0039366 | 9.606168 | 11.56076 | .0373064 | .9215351 | 1.599413 |
| #2     | .0043258 | 9.541040 | 11.49207 | .0372527 | .9209748 | 1.594747 |
| #3     | .0038898 | 9.522169 | 11.48047 | .0353909 | .9139810 | 1.589951 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .1823691 |
| Stddev | .0049017 |
| %RSD   | 2.687793 |
| #1     | .1813747 |
| #2     | .1780408 |
| #3     | .1876918 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2312.604 | 25919.26 | 2440.045 | 1877.581 | 2474.510 |
| Stddev    | 7.519    | 138.76   | 16.750   | 9.788    | 4.480    |
| %RSD      | .3251279 | .5353379 | .6864616 | .5213067 | .1810640 |
| #1        | 2321.285 | 25809.36 | 2421.960 | 1873.702 | 2477.173 |
| #2        | 2308.346 | 26075.17 | 2455.026 | 1888.714 | 2469.338 |
| #3        | 2308.179 | 25873.24 | 2443.148 | 1870.328 | 2477.021 |

Sample Name: P4983-14      Acquired: 12/13/2024 18:22:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0368451 | .0322387 | .4594240 | -.037481 | .0047220 | 18.97166 |
| Stddev | .0018394 | .0013281 | .0024369 | .004434  | .0011913 | .00922   |
| %RSD   | 4.992209 | 4.119600 | .5304176 | 11.82868 | 25.22919 | .0486121 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0383625 | .0323043 | .4613400 | -.037000 | .0060857 | 18.96124 |
| #2 | .0347994 | .0335329 | .4602506 | -.033307 | .0038833 | 18.97499 |
| #3 | .0373735 | .0308791 | .4566813 | -.042135 | .0041971 | 18.97876 |

|        |          |          |          |            |          |          |
|--------|----------|----------|----------|------------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736     | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm        | ppm      | ppm      |
| Avg    | .1715348 | .0028360 | .0059765 | F 1365.029 | .0505906 | .0771337 |
| Stddev | .0000642 | .0000849 | .0001054 | 11.197     | .0005438 | .0005944 |
| %RSD   | .0374221 | 2.992571 | 1.763073 | .8202468   | 1.074983 | .7705743 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1715002 | .0027549 | .0058624 | 1376.703 | .0501207 | .0764475 |
| #2 | .1714953 | .0029242 | .0060701 | 1364.003 | .0504648 | .0774867 |
| #3 | .1716089 | .0028290 | .0059970 | 1354.380 | .0511863 | .0774670 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1766754 | 89.71418 | 7.758857 | 720.5492 | .0844714 | -.006489 |
| Stddev | .0039187 | .30863   | .025529  | 1.7691   | .0010717 | .000771  |
| %RSD   | 2.218031 | .3440141 | .3290343 | .2455279 | 1.268683 | 11.88889 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1811980 | 89.79947 | 7.742776 | 718.8283 | .0841232 | -.007314 |
| #2 | .1742878 | 89.37188 | 7.745503 | 720.4563 | .0836171 | -.006365 |
| #3 | .1745404 | 89.97120 | 7.788294 | 722.3629 | .0856739 | -.005786 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.184703 | .0496494 | 1.022391 | 9.847265 | 2.466443 | .0813497 |
| Stddev | .194154  | .0032261 | .009923  | .131015  | .002061  | .0022856 |
| %RSD   | 6.096453 | 6.497726 | .9705523 | 1.330466 | .0835582 | 2.809623 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 3.400488 | .0531028 | 1.014379 | 9.899055 | 2.468718 | .0831013 |
| #2 | 3.129473 | .0491325 | 1.033490 | 9.944468 | 2.465907 | .0787642 |
| #3 | 3.024148 | .0467130 | 1.019303 | 9.698272 | 2.464703 | .0821835 |

Sample Name: P4983-14      Acquired: 12/13/2024 18:22:48      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: MBHJG4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001303 | 24.68342 | 8.704825 | .0551952 | .1746524 | .5418887 |
| Stddev | .000407  | .07224   | .045405  | .0013106 | .0025832 | .0012337 |
| %RSD   | 31.21995 | .2926664 | .5216050 | 2.374542 | 1.479069 | .2276648 |
| #1     | -.001096 | 24.76359 | 8.757020 | .0540115 | .1716817 | .5415023 |
| #2     | -.001041 | 24.62337 | 8.674445 | .0566037 | .1763705 | .5408945 |
| #3     | -.001772 | 24.66331 | 8.683010 | .0549705 | .1759051 | .5432693 |

|        |          |
|--------|----------|
| Elem   | Li6707   |
| Units  | ppm      |
| Avg    | .0627083 |
| Stddev | .0020601 |
| %RSD   | 3.285245 |
| #1     | .0640523 |
| #2     | .0637362 |
| #3     | .0603365 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2197.560 | 24910.67 | 2325.484 | 1784.641 | 2447.931 |
| Stddev    | 1.085    | 96.40    | 8.993    | 5.725    | 1.683    |
| %RSD      | .0493565 | .3869979 | .3867240 | .3208155 | .0687330 |
| #1        | 2197.070 | 24967.84 | 2316.607 | 1779.377 | 2449.094 |
| #2        | 2196.807 | 24799.37 | 2334.589 | 1783.810 | 2446.002 |
| #3        | 2198.803 | 24964.81 | 2325.255 | 1790.737 | 2448.698 |

Sample Name: CCV010      Acquired: 12/13/2024 18:32:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV010      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.813776 | 4.949035 | 23.72527 | 4.517203 | 4.616963 | 382.4420 | 9.738916 |
| Stddev | .006047  | .018769  | .05322   | .009058  | .022767  | 1.8883   | .045976  |
| %RSD   | .1256269 | .3792396 | .2242993 | .2005165 | .4931114 | .4937541 | .4720815 |
| #1     | 4.809861 | 4.938247 | 23.70245 | 4.512067 | 4.610509 | 384.6205 | 9.790694 |
| #2     | 4.810726 | 4.938150 | 23.68728 | 4.511880 | 4.598121 | 381.4318 | 9.723178 |
| #3     | 4.820741 | 4.970707 | 23.78609 | 4.527661 | 4.642261 | 381.2736 | 9.702876 |
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4818012 | 2.370615 | 394.3218 | 14.60725 | 2.336108 | 14.91390 | 394.7957 |
| Stddev | .0054980 | .005747  | 2.1776   | .08538   | .003857  | .06989   | 1.8918   |
| %RSD   | 1.141131 | .2424380 | .5522322 | .5844727 | .1650896 | .4686337 | .4791801 |
| #1     | .4865982 | 2.369943 | 396.7545 | 14.57638 | 2.335590 | 14.97876 | 396.9240 |
| #2     | .4758014 | 2.365233 | 392.5546 | 14.54161 | 2.332536 | 14.92305 | 394.1579 |
| #3     | .4830039 | 2.376668 | 393.6564 | 14.70377 | 2.340197 | 14.83988 | 393.3053 |
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 14.72782 | 379.4505 | 2.393647 | 1.224453 | 383.4285 | 2.456351 | 13.70404 |
| Stddev | .07325   | 2.5109   | .003441  | .008043  | 2.7568   | .011746  | .05786   |
| %RSD   | .4973364 | .6617281 | .1437750 | .6568750 | .7189807 | .4782022 | .4221818 |
| #1     | 14.80598 | 382.1286 | 2.394387 | 1.226783 | 386.2366 | 2.465281 | 13.64267 |
| #2     | 14.71671 | 379.0738 | 2.389896 | 1.215503 | 383.3229 | 2.460727 | 13.75758 |
| #3     | 14.66076 | 377.1493 | 2.396658 | 1.231074 | 380.7261 | 2.443044 | 13.71186 |
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 142.6892 | 4.724129 | 4.669166 | 4.634931 | 4.663444 | 4.836362 | 4.806605 |
| Stddev | .3400    | .009809  | .043264  | .017398  | .005868  | .040522  | .007361  |
| %RSD   | .2383078 | .2076261 | .9265979 | .3753614 | .1258193 | .8378580 | .1531427 |
| #1     | 143.0791 | 4.727676 | 4.706850 | 4.624087 | 4.661175 | 4.873653 | 4.803283 |
| #2     | 142.4539 | 4.713040 | 4.621921 | 4.625706 | 4.659049 | 4.793241 | 4.801491 |
| #3     | 142.5347 | 4.731670 | 4.678727 | 4.654998 | 4.670107 | 4.842192 | 4.815042 |

Sample Name: CCV010      Acquired: 12/13/2024 18:32:32      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCV010      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Sr4077   | Li6707   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 4.966945 | 4.603634 | 5.033048 |
| Stddev | .046413  | .019556  | .028507  |
| %RSD   | .9344355 | .4247878 | .5663955 |
| #1     | 5.020502 | 4.624478 | 5.065073 |
| #2     | 4.938464 | 4.600734 | 5.023625 |
| #3     | 4.941869 | 4.585691 | 5.010445 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 1950.289 | 23958.18 | 2201.525 | 1643.009 | 2564.802 |
| Stddev    | 4.315    | 14.42    | 15.285   | 3.462    | 1.994    |
| %RSD      | .2212571 | .0601993 | .6942840 | .2107199 | .0777311 |
| #1        | 1952.825 | 23953.00 | 2183.911 | 1644.569 | 2564.004 |
| #2        | 1952.734 | 23974.48 | 2209.355 | 1639.041 | 2567.071 |
| #3        | 1945.306 | 23947.06 | 2211.308 | 1645.417 | 2563.330 |

Sample Name: CCB010      Acquired: 12/13/2024 18:45:21      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB010      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.001048 | .0015622 | -.000063 | -.001501 | .0023237 | -.005267 |
| Stddev | .003591  | .0017781 | .002139  | .004861  | .0035446 | .006589  |
| %RSD   | 342.4958 | 113.8195 | 3384.740 | 323.8174 | 152.5364 | 125.0934 |
| #1     | -.001557 | .0002186 | .002110  | -.003817 | .0030964 | .001013  |
| #2     | .002770  | .0035784 | -.000132 | .004085  | .0054182 | -.012127 |
| #3     | -.004358 | .0008894 | -.002167 | -.004772 | -.001543 | -.004687 |
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011479 | .0000530 | -.000036 | -.022312 | -.000413 | .0005170 |
| Stddev | .0006824 | .0000686 | .000028  | .018443  | .000237  | .0003642 |
| %RSD   | 59.44674 | 129.2768 | 78.19773 | 82.65857 | 57.32248 | 70.44407 |
| #1     | .0003609 | .0000038 | -.000058 | -.029729 | -.000326 | .0007926 |
| #2     | .0015080 | .0001314 | -.000004 | -.035891 | -.000233 | .0001041 |
| #3     | .0015747 | .0000240 | -.000046 | -.001315 | -.000682 | .0006543 |
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.004542 | -.012112 | .0004299 | -.005828 | -.000420 | .0011318 |
| Stddev | .006074  | .012182  | .0006923 | .113012  | .000460  | .0021146 |
| %RSD   | 133.7303 | 100.5771 | 161.0574 | 1939.144 | 109.3856 | 186.8322 |
| #1     | -.009471 | -.006201 | .0002645 | .039204  | -.000508 | .0026222 |
| #2     | -.006400 | -.004014 | .0011899 | .077726  | .000077  | -.001288 |
| #3     | .002244  | -.026123 | -.000165 | -.134414 | -.000830 | .002062  |
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.050937 | -.013714 | .0019596 | -.498972 | -.002359 | -.007139 |
| Stddev | .718059  | .005394  | .0087051 | .100986  | .000574  | .001122  |
| %RSD   | 35.01126 | 39.32982 | 444.2326 | 20.23884 | 24.32173 | 15.72183 |
| #1     | 2.723765 | -.008377 | .0101126 | -.517880 | -.001733 | -.006019 |
| #2     | 2.134147 | -.013603 | -.007209 | -.589169 | -.002860 | -.008263 |
| #3     | 1.294898 | -.019163 | .002975  | -.389869 | -.002484 | -.007135 |

Sample Name: CCB010      Acquired: 12/13/2024 18:45:21      Type: Unk  
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v19)      Mode: CONC      Corr. Factor: 1.000000  
User: Kareem      Custom ID1: CCB010      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Sr4077   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000090 | -.004184 | -.040186 | -.000640 | -.002991 | -.000192 |
| Stddev | .000276  | .003357  | .000765  | .001109  | .003707  | .000122  |
| %RSD   | 306.5233 | 80.23703 | 1.902533 | 173.2073 | 123.9496 | 63.81632 |
| #1     | -.000404 | -.004570 | -.040106 | .000226  | .000745  | -.000160 |
| #2     | .000115  | -.007330 | -.039465 | -.001891 | -.003049 | -.000088 |
| #3     | .000019  | -.000650 | -.040988 | -.000256 | -.006668 | -.000327 |

|        |            |
|--------|------------|
| Elem   | Li6707     |
| Units  | ppm        |
| Avg    | F -.045068 |
| Stddev | .005451    |
| %RSD   | 12.09515   |
| #1     | -.046078   |
| #2     | -.039183   |
| #3     | -.049944   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_3600   | Y_3710   | Y_2243   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2403.826 | 26512.75 | 2320.467 | 1958.268 | 3294.821 |
| Stddev    | 4.656    | 71.17    | 13.738   | 7.268    | 8.487    |
| %RSD      | .1936966 | .2684400 | .5920305 | .3711534 | .2575722 |
| #1        | 2401.282 | 26478.98 | 2313.794 | 1953.840 | 3285.022 |
| #2        | 2400.995 | 26594.52 | 2311.340 | 1954.309 | 3299.630 |
| #3        | 2409.199 | 26464.74 | 2336.267 | 1966.657 | 3299.810 |



## Prep Standard - Chemical Standard Summary

**Order ID :** P4905

**Test :** Metals CLP Full

**Prepbatch ID :** PB165101,

**Sequence ID/Qc Batch ID:** LB133543, LB133883, LB133949,

**Standard ID :**

MP83014, MP83122, MP83134, MP83136, MP83137, MP83138, MP83139, MP83140, MP83141, MP83142, MP83143, MP83144, MP83145, MP83146, MP83147, MP83148, MP83149, MP83500, MP83501, MP83502, MP83503, MP83504, MP83505, MP83506, MP83507, MP83508, MP83509, MP83510, MP83511, MP83513, MP83514, MP83567,

**Chemical ID :**

M5130, M5218, M5223, M5289, M5295, M5296, M5387, M5390, M5393, M5395, M5429, M5473, M5476, M5496, M5497, M5498, M5513, M5515, M5519, M5634, M5658, M5697, M5698, M5751, M5768, M5769, M5798, M5799, M5800, M5801, M5802, M5806, M5815, M5816, M5817, M5818, M5819, M5820, M5875, M5959, M5960, M5962, M5970, M5976, M5978, M5982, M5984, M5985, M5990, M5999, M6021, M6023, M6025, M6028, M6030, M6033, M6095, M6111, M6115, M6116, M6117, M6118, M6120, 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>     |
|------------------|----------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------|
| 1122             | ICPMS CALIB<br>BLANK(S0/ICB/CCB) | <a href="#">MP83014</a> | 11/02/2024       | 12/14/2024             | Sarabjit Jaswal    | None           | None             | Mohan Bera<br>11/04/2024 |

**FROM** 25.00000ml of M6095 + 4925.00000ml of W3112 + 50.00000ml of M6115 = Final Quantity: 5000.000 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>          |
|------------------|-------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 169              | 1:1HNO3     | <a href="#">MP83122</a> | 11/07/2024       | 12/06/2024             | Janvi Patel        | None           | None             | Sarabjit Jaswal<br>11/07/2024 |

**FROM** 1000.00000ml of M6116 + 1000.00000ml 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> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 902              | ICP AES CAL BLK ( SO/ICB/CCB) | <a href="#">MP83134</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                               |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 125.00000ml of M6111 + 2350.00000ml of W3112 + 25.00000ml of M6117 = 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> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2480             | ICP AES STD 6 ISM01.3 | <a href="#">MP83136</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                       |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83134 = Final Quantity: 50.000 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>     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------|
| 1004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ICPAES ISM01.2 (S5) | <a href="#">MP83137</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera<br>11/08/2024 |
| <b>FROM</b> 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5476 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5751 + 14.50000ml of M5515 + 14.50000ml of M5658 + 14.50000ml of M6033 + 2.00000ml of M5513 + 22.50000ml of M5498 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5395 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83134 = 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>     |
|------------------------------------------------------------------------------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------|
| 1005                                                                                     | ICPAES ISM01.2(S4) | <a href="#">MP83138</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera<br>11/08/2024 |
| <b>FROM</b> 250.00000ml of MP83134 + 250.00000ml of MP83137 = 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> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1007             | ICPAES ISM01.2(S3) | <a href="#">MP83139</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                    |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 25.00000ml of MP83137 + 75.00000ml of MP83134 = 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> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1008             | ICPAES ISM01.2(S2) | <a href="#">MP83140</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                    |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 12.50000ml of MP83137 + 87.50000ml of MP83134 = 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> |
|------------------|---------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 994              | ICPAES ISM01.2 S1 (CONC.) | <a href="#">MP83141</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                           |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5476 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M6033 + 0.50000ml of M5751 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5768 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83134 = 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> |
|------------------|-------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1003             | ICPAES ISM01.2 S1 | <a href="#">MP83142</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                   |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 0.50000ml of MP83141 + 99.50000ml of MP83134 = 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>     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------|
| 2054                                                                                                                                                                                          | ICV-ICPAES  | <a href="#">MP83143</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera<br>11/08/2024 |
| <b>FROM</b> 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83134 = 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 | <a href="#">MP83144</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera<br>11/08/2024 |
| <b>FROM</b> 25.00000ml of M5130 + 200.00000ml of MP83134 = 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> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 905              | ICP AES ICSAB SOLN | <a href="#">MP83145</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                    |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP83134 = 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> |
|------------------|---------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1119             | ICPAES ISM01.2(CCV) | <a href="#">MP83146</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                     |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 0.75000ml of M5498 + 0.75000ml of M5768 + 1.22500ml of M6033 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83134 + 25.00000ml of MP83137 = Final Quantity: 50.000 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> |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 921                                                                                                                              | ICPAES SPIKE SOL#6 | <a href="#">MP83147</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
| 11/08/2024                                                                                                                       |                    |                         |                  |                        |                    |                |                  |                      |
| <b>FROM</b> 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83134 = 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> |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 919                                                                                                                              | ICP AES INTERNAL STD | <a href="#">MP83148</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
| 11/08/2024                                                                                                                       |                      |                         |                  |                        |                    |                |                  |                      |
| <b>FROM</b> 1.00000ml of M5984 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6117 = 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 | <a href="#">MP83149</a> | 10/30/2024       | 12/06/2024             | Kareem Khairalla   | None           | None             | Mohan Bera           |
|                  |                    |                         |                  |                        |                    |                |                  | 11/08/2024           |

**FROM** 200.00000ml of M6117 + 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> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 902              | ICP AES CAL BLK ( SO/ICB/CCB) | <a href="#">MP83500</a> | 12/06/2024       | 01/06/2025             | 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> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2480                                                                                                                                                                   | ICP AES STD 6 ISM01.3 | <a href="#">MP83501</a> | 12/06/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
| <b>FROM</b> 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 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> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ICPAES ISM01.2 (S5) | <a href="#">MP83502</a> | 12/06/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
| <b>FROM</b> 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = 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> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1005             | ICPAES ISM01.2(S4) | <a href="#">MP83503</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |                    |                         |                  |                        |                    |                |                  | 12/09/2024           |

**FROM** 250.00000ml of MP83500 + 250.00000ml of MP83502 = 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> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1007             | ICPAES ISM01.2(S3) | <a href="#">MP83504</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |                    |                         |                  |                        |                    |                |                  | 12/09/2024           |

**FROM** 25.00000ml of MP83502 + 75.00000ml 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> |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1008             | ICPAES ISM01.2(S2) | <a href="#">MP83505</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |                    |                         |                  |                        |                    |                |                  | 12/09/2024           |

**FROM** 12.50000ml of MP83502 + 87.50000ml 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> |
|------------------|---------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 994              | ICPAES ISM01.2 S1 (CONC.) | <a href="#">MP83506</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |                           |                         |                  |                        |                    |                |                  | 12/09/2024           |

**FROM** 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml 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> |
|------------------|-------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1003             | ICPAES ISM01.2 S1 | <a href="#">MP83507</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |                   |                         |                  |                        |                    |                |                  | 12/09/2024           |

**FROM** 0.50000ml of MP83506 + 99.50000ml 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> |
|------------------|-------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2054             | ICV-ICPAES  | <a href="#">MP83508</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |             |                         |                  |                        |                    |                |                  | 12/09/2024           |

**FROM** 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml 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>          |
|------------------|-------------------|-------------------------|------------------|------------------------|--------------------|----------------|----------------------|-------------------------------|
| 904              | ICP AES ICSA SOLN | <a href="#">MP83509</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | METALS_PIPETTE_3 (A) | Sarabjit Jaswal<br>12/09/2024 |

**FROM** 10.00000ml of M5130 + 90.00000ml of MP83500 = 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>          |
|------------------|--------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 905              | ICP AES ICSAB SOLN | <a href="#">MP83510</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal<br>12/09/2024 |

**FROM** 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml 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> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1119                                                                                                                                                                                           | ICPAES ISM01.2(CCV) | <a href="#">MP83511</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
| <b>FROM</b> 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 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 | <a href="#">MP83513</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
| <b>FROM</b> 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> |
|------------------|-------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 513              | RINSE SOLN  | <a href="#">MP83514</a> | 12/09/2024       | 01/06/2025             | Kareem Khairalla   | None           | None             | Sarabjit Jaswal      |
|                  |             |                         |                  |                        |                    |                |                  | 12/09/2024           |

**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> |
|------------------|-------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1883             | SE 10PPM    | <a href="#">MP83567</a> | 12/09/2024       | 12/13/2024             | Sarabjit Jaswal    | None           | None             | Mohan Bera           |
|                  |             |                         |                  |                        |                    |                |                  | 12/13/2024           |

**FROM** 0.10000ml of M5962 + 9.90000ml of MP83014 = Final Quantity: 10.000 ml

### CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                 | Lot #     | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------|-----------|-----------------|-------------------------|-----------------------------|----------------|
| EPA      | PART A / ICSA ( ICP )<br>STOCK SOLN | ICSA-1211 | 12/28/2024      | 05/20/2024 /<br>jaswal  | 04/20/2021 /<br>bin         | M5130          |

| Supplier           | ItemCode / ItemName                                                          | Lot #        | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------|------------------------------------------------------------------------------|--------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CHEM-QC-4 /<br>CHEM-QC-4, Second<br>Source, 1000 ug/ml, B, Mo,<br>Si, Sn, Ti | S2-MEB711674 | 11/02/2026      | 07/01/2022 /<br>bin     | 09/10/2021 /<br>bin         | M5218          |

| Supplier | ItemCode / ItemName                  | Lot #     | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------|-----------|-----------------|-------------------------|-----------------------------|----------------|
| EPA      | PART B / ICSAB ( ICP )<br>STOCK SOLN | ICSB-0710 | 12/28/2024      | 05/20/2024 /<br>jaswal  | 04/20/2021 /<br>bin         | M5223          |

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

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

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

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 072122 | 07/21/2025      | 11/01/2022 / jaswal     | 09/18/2022 / jaswal         | M5387          |

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 072122 | 07/21/2025      | 08/07/2024 / jaswal     | 09/18/2022 / bin            | M5390          |

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

| Supplier           | ItemCode / ItemName                     | Lot #        | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------|-----------------------------------------|--------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL | T2-MEB714159 | 01/13/2027      | 01/30/2024 / bin        | 09/19/2022 / bin            | M5395          |

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

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57138 / Sr, 10000 PPM, 125 ml | 082922 | 08/29/2025      | 03/16/2023 / jaswal     | 03/16/2023 / jaswal         | M5473          |

## CHEMICAL RECEIPT LOG BOOK

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

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

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

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026      | 08/15/2023 / jaswal     | 03/17/2023 / bin            | M5498          |

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

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 092122 | 09/21/2025      | 08/01/2024 / Jaswal     | 03/17/2023 / bin            | M5515          |

## CHEMICAL RECEIPT LOG BOOK

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

| Supplier                    | ItemCode / ItemName                 | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 1403 / Hydrogen Peroxide, 30% 1 gal | 820803 | 02/03/2025      | 04/18/2024 / jaswal     | 08/03/2022 / Al-Terek       | M5634          |

| Supplier                 | ItemCode / ItemName                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|----------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026      | 08/28/2023 / jaswal     | 08/25/2023 / jaswal         | M5658          |

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

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58025 / Mn, 1000 PPM, 500 ml | 102623 | 10/26/2026      | 04/18/2024 / jaswal     | 10/27/2023 / jaswal         | M5698          |

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 071723 | 07/17/2026      | 10/01/2024 / Jaswal     | 08/25/2023 / jaswal         | M5751          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 091823 | 09/18/2026      | 01/08/2024 / bin        | 01/03/2024 / bin            | M5768          |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 091823 | 09/18/2026      | 05/24/2024 / Jaswal     | 01/03/2024 / bin            | M5769          |

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

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

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

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

## CHEMICAL RECEIPT LOG BOOK

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

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

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

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

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

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57014 / Si, 1000 PPM, 125 ml | 122023 | 12/20/2026      | 03/06/2024 / jaswal     | 02/09/2024 / jaswal         | M5818          |

## CHEMICAL RECEIPT LOG BOOK

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

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

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

| Supplier           | ItemCode / ItemName                 | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------|-------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CGY10-1 / YTTRIUM 125mL 10,000ug/mL | V2-Y740548 | 02/20/2029      | 07/01/2024 / Jaswal     | 06/14/2024 / Jaswal         | M5959          |

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57028 / Ni, 1000 PPM, 125 ml | 041124 | 04/11/2027      | 07/03/2024 / kareem     | 06/11/2024 / kareem         | M5960          |

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



## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57003 / Li, 1000 PPM, 125 ml | 061224 | 06/21/2027      | 07/01/2024 / Jaswal     | 07/01/2024 / Jaswal         | M5970          |

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

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

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57038 / Sr, 1000 PPM, 125 ml | 031524 | 03/15/2027      | 07/01/2024 / Jaswal     | 06/11/2024 / Jaswal         | M5982          |

| Supplier           | ItemCode / ItemName                 | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------|-------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CGY10-1 / YTTRIUM 125mL 10,000ug/mL | V2-Y740548 | 02/20/2029      | 08/05/2024 / kareem     | 06/14/2024 / Jaswal         | M5984          |

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

## CHEMICAL RECEIPT LOG BOOK

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

| Supplier           | ItemCode / ItemName                         | Lot #        | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------|---------------------------------------------|--------------|-----------------|-------------------------|-----------------------------|----------------|
| Inorganic Ventures | CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL | T2-MEB721963 | 07/27/2027      | 09/04/2024 / Jaswal     | 02/22/2024 / kareem         | M5999          |

| Supplier                 | ItemCode / ItemName         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027      | 09/28/2024 / jaswal     | 08/05/2024 / Jaswal         | M6021          |

| Supplier                 | ItemCode / ItemName          | Lot #   | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|---------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57081 / TI, 1000 PPM, 125 ml | 0624724 | 06/27/2027      | 08/05/2024 / kareem     | 08/05/2024 / Jaswal         | M6023          |

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 11/09/2026      | 08/05/2024 / Jaswal     | 08/05/2024 / Jaswal         | M6025          |

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027      | 08/05/2024 / kareem     | 08/05/2024 / Jaswal         | M6028          |

### CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 57047 / Ag, 1000 PPM, 125 ml | 122823 | 12/28/2026      | 08/05/2024 / kareem     | 08/05/2024 / Jaswal         | M6030          |

| Supplier                 | ItemCode / ItemName           | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 58113 / Al, 10000 PPM, 500 ml | 011623 | 01/16/2026      | 08/07/2024 / Jaswal     | 01/03/2024 / Jaswal         | M6033          |

| Supplier         | ItemCode / ItemName                                         | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) |       | 03/17/2029      | 10/26/2024 / Janvi      | 10/21/2024 / Janvi          | M6095          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22F0762009 | 05/09/2027      | 11/04/2024 / Eman       | 09/29/2024 / Janvi          | M6111          |

| Supplier         | ItemCode / ItemName                                   | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24B1362001 | 05/04/2025      | 11/02/2024 / Janvi      | 09/29/2024 / Eman           | M6115          |

| Supplier         | ItemCode / ItemName                                   | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24B1362001 | 05/03/2025      | 11/04/2024 / Janvi      | 09/29/2024 / Eman           | M6116          |

### CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                   | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24B1362001 | 05/06/2025      | 11/06/2024 / Janvi      | 09/29/2024 / Eman           | M6117          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22E1662006 | 05/09/2025      | 11/09/2024 / Janvi      | 10/09/2024 / Janvi          | M6118          |

| Supplier         | ItemCode / ItemName                                   | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 23I0662003 | 05/13/2025      | 11/13/2024 / Eman       | 10/13/2024 / Eman           | M6120          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025      | 11/13/2024 / Eman       | 10/13/2024 / Eman           | M6121          |

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

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

# Certificate of Analysis

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

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## 1.0 ACCREDITATION / REGISTRATION

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



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
 Catalog Number: CLPP-SPK-5  
 Lot Number: V2-MEB742037  
 Matrix: 5% (v/v) HNO<sub>3</sub>  
 Value / Analyte(s):  
     100 µg/mL ea:  
     Antimony,  
     50 µg/mL ea:  
     Selenium, Thallium,  
     Cadmium,  
     40 µg/mL ea:  
     Arsenic,  
     20 µg/mL ea:  
     Lead

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

Assay Information:

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

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

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

Certified Value,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty (k)} = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty (k)} = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

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

### **7.1 Storage and Handling Recommendations**

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://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](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## **11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY**

### 11.1 Certification Issue Date

March 12, 2024

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

### 11.2 Lot Expiration Date

- **March 12, 2029**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Joseph Burns  
Custom VS Manager



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director







**CERTIFIED WEIGHT REPORT:**

**Part Number:**  
**Lot Number:**  
**Description:**

57048  
070124  
Cadmium (Cd)

**Lot #**  
**Solvent:** 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

**Expiration Date:** 070127

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 1000

**NIST Test Number:** 6UTB

SE-05 Balance Uncertainty

**Weight shown below was diluted to (mL):** 2000.07 0.100 Flask Uncertainty

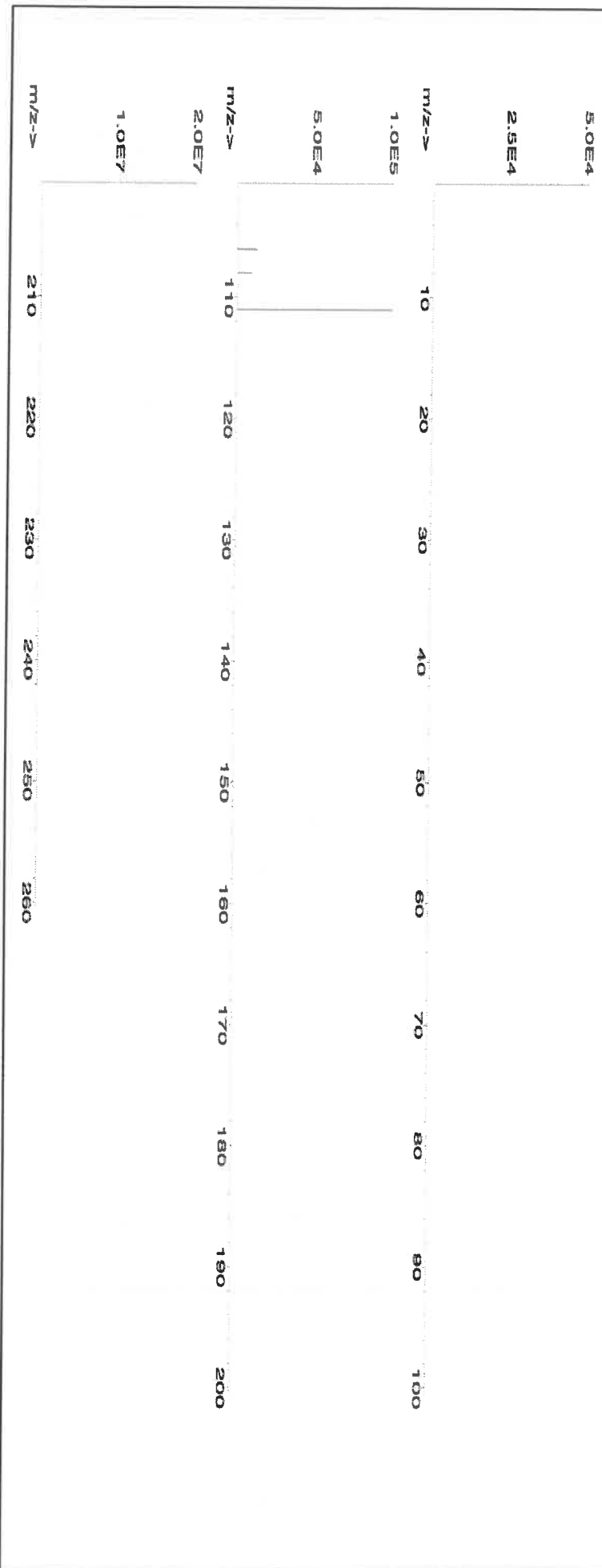
|                |                 |
|----------------|-----------------|
| Aleah O'Brady  |                 |
| Formulated By: | Aleah O'Brady   |
|                | 070124          |
| Reviewed By:   | Pedro L. Rentas |
|                | 070124          |

**Compound**

| Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Cadmium nitrate tetrahydrate (Cd) IN024 CDM09221A1 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]:\$8148.D# [Count] [Linear]





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

691

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.2  | 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 | Ba | <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 | Cd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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).



Refine your results. Redefine your industry.

# 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: CHEM-CLP-4  
Lot Number: S2-MEB711673  
Matrix: 3% (v/v) HNO<sub>3</sub>  
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,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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](http://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



300 Technology Drive  
 Christiansburg, VA 24073 USA  
 inorganicventures.com

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

## 1.0 ACCREDITATION / REGISTRATION

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



## 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 <sub>3</sub>           |                       |
| Value / Analyte(s): | 5 000 µg/mL ea:                     | Potassium,<br>Sodium, |
|                     | Calcium,<br>Magnesium,              |                       |
|                     | 2 000 µg/mL ea:                     | Barium,               |
|                     | Aluminum,                           |                       |
|                     | 1 000 µg/mL ea:                     |                       |
|                     | Iron,                               |                       |
|                     | 500 µg/mL ea:                       | Vanadium,<br>Cobalt,  |
|                     | Nickel,                             |                       |
|                     | Zinc,                               |                       |
|                     | Manganese,                          |                       |
|                     | 250 µg/mL ea:                       | Copper,               |
|                     | Silver,                             |                       |
|                     | 200 µg/mL ea:                       |                       |
|                     | Chromium,                           |                       |
|                     | 50 µg/mL ea:                        |                       |
|                     | Beryllium                           |                       |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

|                |                        |                |                        |
|----------------|------------------------|----------------|------------------------|
| <b>ANALYTE</b> | <b>CERTIFIED VALUE</b> | <b>ANALYTE</b> | <b>CERTIFIED VALUE</b> |
| 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:**

| <b>ANALYTE</b> | <b>METHOD</b> | <b>NIST SRM#</b> | <b>SRM LOT#</b> |
|----------------|---------------|------------------|-----------------|
| Ag             | ICP Assay     | 3151             | 160729          |
| Ag             | Volhard       | 999c             | 999c            |
| Al             | ICP Assay     | 3101a            | 140903          |
| Al             | EDTA          | 928              | 928             |
| Ba             | ICP Assay     | 3104a            | 140909          |
| Ba             | Gravimetric   |                  | See Sec. 4.2    |
| Be             | ICP Assay     | 3105a            | 090514          |
| Be             | Calculated    |                  | See Sec. 4.2    |
| Ca             | ICP Assay     | 3109a            | 130213          |
| Ca             | EDTA          | 928              | 928             |
| Co             | ICP Assay     | 3113             | 190630          |
| Co             | EDTA          | 928              | 928             |
| Cr             | ICP Assay     | 3112a            | 170630          |
| Cr             | Calculated    |                  | See Sec. 4.2    |
| Cu             | ICP Assay     | 3114             | 121207          |
| Cu             | EDTA          | 928              | 928             |
| Fe             | ICP Assay     | 3126a            | 140812          |
| Fe             | EDTA          | 928              | 928             |
| K              | ICP Assay     | 3141a            | 140813          |
| K              | Gravimetric   |                  | See Sec. 4.2    |
| Mg             | ICP Assay     | 3131a            | 140110          |
| Mg             | EDTA          | 928              | 928             |
| Mn             | ICP Assay     | 3132             | 050429          |
| Mn             | EDTA          | 928              | 928             |
| Na             | ICP Assay     | 3152a            | 120715          |
| Na             | Gravimetric   |                  | See Sec. 4.2    |
| Ni             | ICP Assay     | 3136             | 120619          |
| Ni             | EDTA          | 928              | 928             |
| V              | IC Assay      | 3165             | 160906          |
| V              | EDTA          | 928              | 928             |
| Zn             | ICP Assay     | 3168a            | 120629          |
| Zn             | EDTA          | 928              | 928             |

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

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

Certified Value,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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](http://www.inorganicventures.com/TCT)

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

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

## 8.0 HAZARDOUS INFORMATION

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



## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 27, 2022

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

### 11.2 Lot Expiration Date

- January 27, 2027

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Thomas Kozikowski  
Manager, Quality Control



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030  
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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) HNO<sub>3</sub>  
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,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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°  $\pm$  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](http://www.inorganicventures.com/TCT)

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 13, 2022

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

### 11.2 Lot Expiration Date

- **January 13, 2027**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Thomas Kozikowski  
Manager, Quality Control



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030  
F: 540-585-3012  
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
Catalog Number: CLPP-CAL-3  
Lot Number: T2-MEB714159  
Matrix: 7% (v/v) HNO<sub>3</sub>  
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,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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](http://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](http://inorganicventures.com); [info@inorganicventures.com](mailto: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





**Certified Reference Material CRM**

Lot #

R: 815/24

M6025



**CERTIFIED WEIGHT REPORT:**

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

Solvent: 24002546 Nitric Acid

Expiration Date: 110926  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 10000  
NIST Test Number: 6UTB

2% 40.0 (mL) Nitric Acid

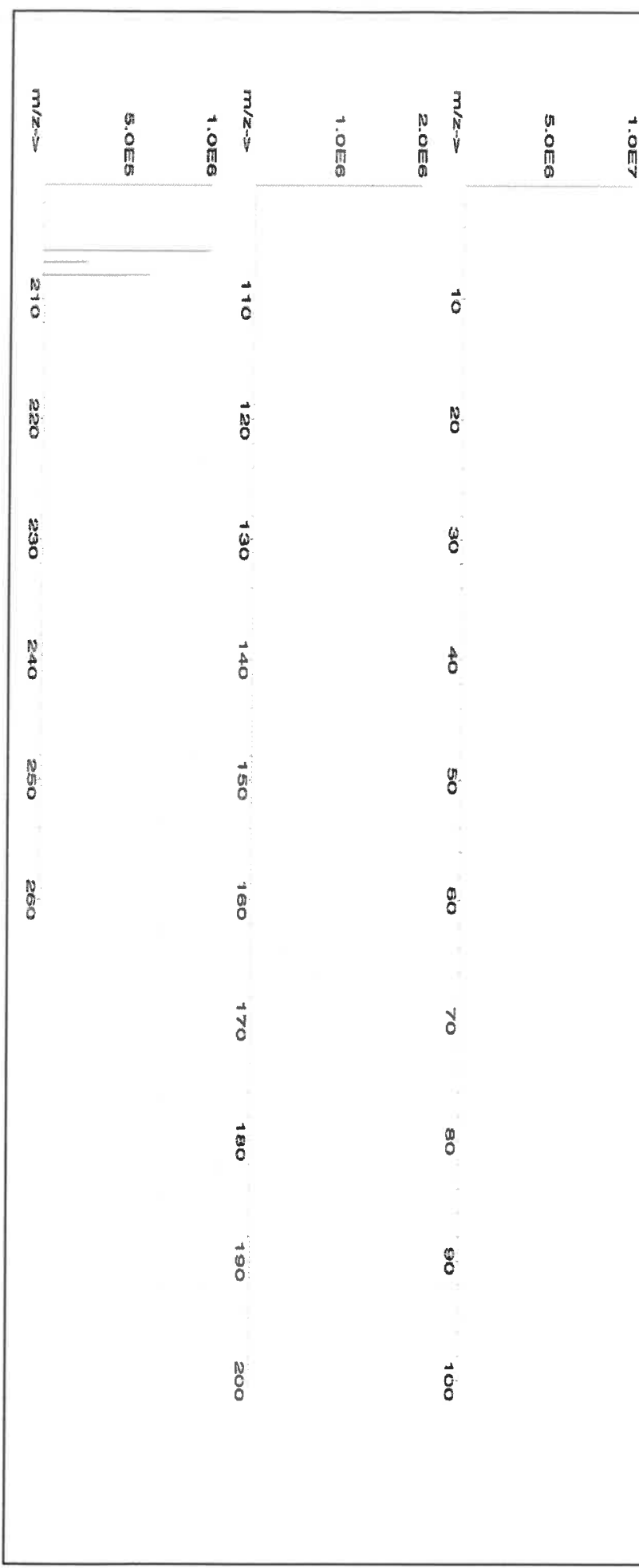
Weight shown below was diluted to (mL): 2000.02 0.058 Balance Uncertainty  
0.058 Flask Uncertainty

|                |                 |
|----------------|-----------------|
|                |                 |
| Formulated By: | Lawrence Barry  |
|                |                 |
| Reviewed By:   | Pedro L. Rentas |
| 110923         |                 |

| Compound | SDS Information |            |                       |            |                        |           |                   |                   |                      |                                  |
|----------|-----------------|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|
|          | 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) |

|                          |       |             |       |        |      |      |         |         |         |      |
|--------------------------|-------|-------------|-------|--------|------|------|---------|---------|---------|------|
| 1. Lead(II) nitrate (Pb) | IN029 | PED122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | 10001.1 | 20.0 |
|--------------------------|-------|-------------|-------|--------|------|------|---------|---------|---------|------|

[1] Spectrum No.1 [ 17.284 sec]:58182.D# [Count] [Linear]







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

706

**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 | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | T     | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

**Physical Characterization:**

(T)= Target analyte

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).

**QATS LABORATORY INORGANIC REFERENCE MATERIAL  
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)**

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

**APPLICATION:** For use with the CLP SFAM01.0 SOW and revisions.

**CAUTION:** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals  
**HAZARDOUS MATERIAL**

Safety Data Sheets  
Available Upon Request

**(A) SAMPLE DESCRIPTION**

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

**CAUTION:** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

**(B) BREAKAGE OR MISSING ITEMS**

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

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

**(C) ANALYSIS OF SAMPLES**

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Instructions for QATS Reference Material: ICP-AES ICS

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

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

**ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO<sub>3</sub>. Analyze this ICSA solution by ICP-AES.

**ICSB-0710, Analytes, mixed with ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO<sub>3</sub>. Analyze this ICSAB solution by ICP-AES.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

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

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.

ICSA  
M5126  
M5127  
M5128  
M5129  
M5130

ICSB  
M5219  
M5220  
M5221  
M5222  
M5223

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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: CHEM-QC-4  
 Lot Number: S2-MEB711674  
 Matrix: 3% (v/v) HNO<sub>3</sub>  
 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,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k(u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{Its}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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](http://www.inorganicventures.com/TCT)

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

November 02, 2021

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

### 11.2 Lot Expiration Date

- **November 02, 2026**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Michael Booth  
Director, Quality Control



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





Instructions for QATS Reference Material: ICP-AES ICS

**QATS LABORATORY INORGANIC REFERENCE MATERIAL  
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)**

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

**APPLICATION:** For use with the CLP SFAM01.0 SOW and revisions.

**CAUTION:** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals  
**HAZARDOUS MATERIAL**

Safety Data Sheets  
Available Upon Request

**(A) SAMPLE DESCRIPTION**

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

**CAUTION:** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

**(B) BREAKAGE OR MISSING ITEMS**

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

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

**(C) ANALYSIS OF SAMPLES**

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,



Instructions for QATS Reference Material: ICP-AES ICS

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

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

**ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO<sub>3</sub>. Analyze this ICSA solution by ICP-AES.

**ICSB-0710, Analytes, mixed with ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO<sub>3</sub>. Analyze this ICSAB solution by ICP-AES.

(D) "CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

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

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.

ICSA  
M5126  
M5127  
M5128  
M5129  
M5130

ICSB  
M5219  
M5220  
M5221  
M5222  
M5223





M5289 R: 07/12/22  
Certified Reference Material CRM

(34)



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

**CERTIFIED WEIGHT REPORT:**

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

**Lot #**  
**Solvent:** 20370011 Nitric Acid

**Expiration Date:** 070625  
**Recommended Storage:** Ambient (20 °C)  
**Nominal Concentration (µg/mL):** 10000  
**NIST Test Number:** 6UTB

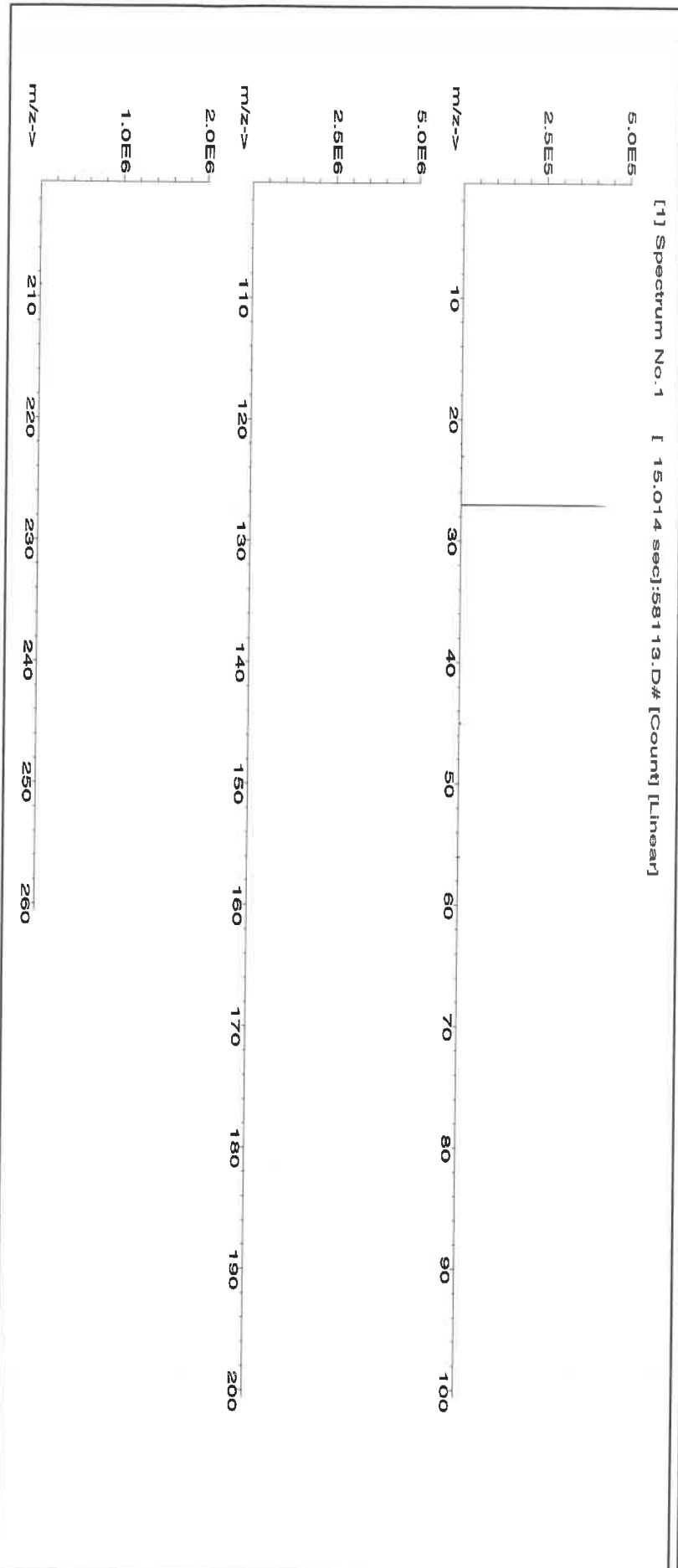
2% 40.0 (mL) Nitric Acid

**Weight shown below was diluted to (mL):** 2000.02  
5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                |                   |
|----------------|-------------------|
|                |                   |
| Formulated By: | Lawrence Barry    |
|                | 070622            |
|                |                   |
| Reviewed By:   | Pedro L. Renteria |
|                | 070622            |

| SDS Information |     |            |                       |            |                        |           |                   |                   |                      |                         |      |                                        |
|-----------------|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|-------------------------|------|----------------------------------------|
| 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) | CAS# | (Solvent Safety Info. On Attached pg.) |
|                 |     |            |                       |            |                        |           |                   |                   |                      |                         |      |                                        |
|                 |     |            |                       |            |                        |           |                   |                   |                      | NSH4 PEI (TWA)          | 1050 | NIST SRM                               |

1. Aluminum nitrate nonahydrate (Al) IN022 ALD012021A1 10000 99.999 0.10 7.10 281.6956 281.6977 10000.1 20.0 7784-27-2 2 mg/m3 or-tal 3671 mg/kg 3101a





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | T     | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | Ru | <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 | Sr | <0.02 | S  | <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 | 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 | 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).



R: 4/20/21

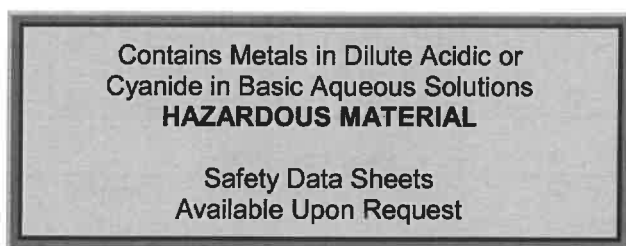
Instructions for QATS Reference Material: *Inorganic ICV Solutions*

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.



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.





Instructions for QATS Reference Material: *Inorganic ICV Solutions*

- ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.
- ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v)  $K_2Cr_2O_7$  and 5% (v/v) nitric acid.
- ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from  $K_3Fe(CN)_6$ , Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

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

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

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

| ICV5-0415 |                                                   | ICV6-0400       |                                                   |
|-----------|---------------------------------------------------|-----------------|---------------------------------------------------|
| Element   | Concentration (µg/L)<br>(after 100-fold dilution) | Analyte         | Concentration (µg/L)<br>(after 100-fold dilution) |
| Hg        | 4.0                                               | CN <sup>-</sup> | 99                                                |



*R-09/18/22* (RH)  
Certified Reference Material CRM

MS387 - MS389, MS390, MS391, MS392



**CERTIFIED WEIGHT REPORT:**

Part Number: **57056**  
Lot Number: **072122**  
Description: **Barium (Ba)**

Solvent: **20510011 Nitric Acid**

Lot #

Expiration Date: **072125**  
Recommended Storage: **Ambient (20 °C)**  
Nominal Concentration (µg/mL): **1000**  
NIST Test Number: **6UTB**

2% **40.0** **Nitric Acid**  
(mL)

Weight shown below was diluted to (mL): **2000.02** **5E-05** Balance Uncertainty **0.058** Flask Uncertainty

|                          |                          |
|--------------------------|--------------------------|
| <i>Giovanni Esposito</i> |                          |
| Formulated By:           | Giovanni Esposito        |
| Reviewed By:             | <i>Pedro L. Renteria</i> |
|                          | 072122                   |

| SDS Information        |            |                       |            |                       |                   |                   |                      |                                  |                  |
|------------------------|------------|-----------------------|------------|-----------------------|-------------------|-------------------|----------------------|----------------------------------|------------------|
| Compound               | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS#             |
| 1. Barium nitrate (Ba) | IN023      | BA022019A1            | 1000       | 99.999                | 0.10              | 52.3              | 3.82417              | 3.82426                          | 1000.0           |
|                        |            |                       |            |                       |                   |                   |                      |                                  | 2.0              |
|                        |            |                       |            |                       |                   |                   |                      |                                  | 10022-31-8       |
|                        |            |                       |            |                       |                   |                   |                      |                                  | 0.5 mg/m3        |
|                        |            |                       |            |                       |                   |                   |                      |                                  | or 1st 355 mg/kg |
|                        |            |                       |            |                       |                   |                   |                      |                                  | 31044            |

[1] Spectrum No. 1 [ 12.514 sec]:58156.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 | <0.02 | Er | <0.2  | 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 | <0.02 | Os | <0.01 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V  | <0.02 |
| Ba | T     | Cs | <0.02 | Cd | <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 | <0.02 | 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 | 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 | <0.2  | 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:**

Ben. L. R.

\* 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).



*R-09/18/22* (RH)  
Certified Reference Material CRM

**CERTIFIED WEIGHT REPORT:**

Part Number: **57056**  
Lot Number: **072122**  
Description: **Barium (Ba)**

Solvent: **20510011 Nitric Acid**

*M5387 - M5389 - M5390 - M5391 - M5392*



Expiration Date: **072125**  
Recommended Storage: **Ambient (20 °C)**  
Nominal Concentration (µg/mL): **1000**  
NIST Test Number: **6UTB**

2% **40.0** **Nitric Acid**  
(mL)

Weight shown below was diluted to (mL): **2000.02** **5E-05** **Balance Uncertainty**  
**0.058** **Flask Uncertainty**

|                          |                        |
|--------------------------|------------------------|
| <i>Giovanni Esposito</i> |                        |
| Formulated By:           | Giovanni Esposito      |
| Reviewed By:             | <i>Pedro L. Rentes</i> |
|                          | 072122                 |

| SDS Information        |                  |                       |            |                 |           |                   |                   |                      |                                  |
|------------------------|------------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|
| Compound               | Lot Number       | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) |
| 1. Barium nitrate (Ba) | IN023 BA022019A1 | 1000                  | 99.999     | 0.10            | 52.3      | 3.82417           | 3.82426           | 1000.0               | 2.0                              |

1. Barium nitrate (Ba) IN023 BA022019A1 1000 99.999 0.10 52.3 3.82417 3.82426 1000.0 2.0 10022-31-8 0.5 mg/m3 or-ral 355 mg/kg 31046

[1] Spectrum No. 1 [ 12.514 sec]:58156.D# [Count] [Linear]





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

| Trace Metals Verification by ICP-MS (µg/mL) |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|---------------------------------------------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al                                          | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 |
| 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 | <0.02 | Os | <0.01 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 |
| Ba                                          | T     | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Th | <0.02 |
| Be                                          | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.02 | 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 | Sn | <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 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | W  | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | U  | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | V  | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | Yb | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | Y  | <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.
- \* 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**

M5429 R1 0126/23 (B)

**CERTIFIED WEIGHT REPORT:**

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

**Expiration Date:** 070625  
**Recommended Storage:** Ambient (20 °C)  
**Nominal Concentration (µg/mL):** 10000  
**NIST Test Number:** 6UTB

Weight shown below was diluted to (mL): 1000.12

**Solvent:** 20510011 Nitric Acid

2% 20.0 Nitric Acid (mL)

5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                        |                 |
|------------------------|-----------------|
| <i>Lawrence Barry</i>  |                 |
| Formulated By:         | Lawrence Barry  |
| <i>Pedro L. Rentas</i> |                 |
| Reviewed By:           | Pedro L. Rentas |

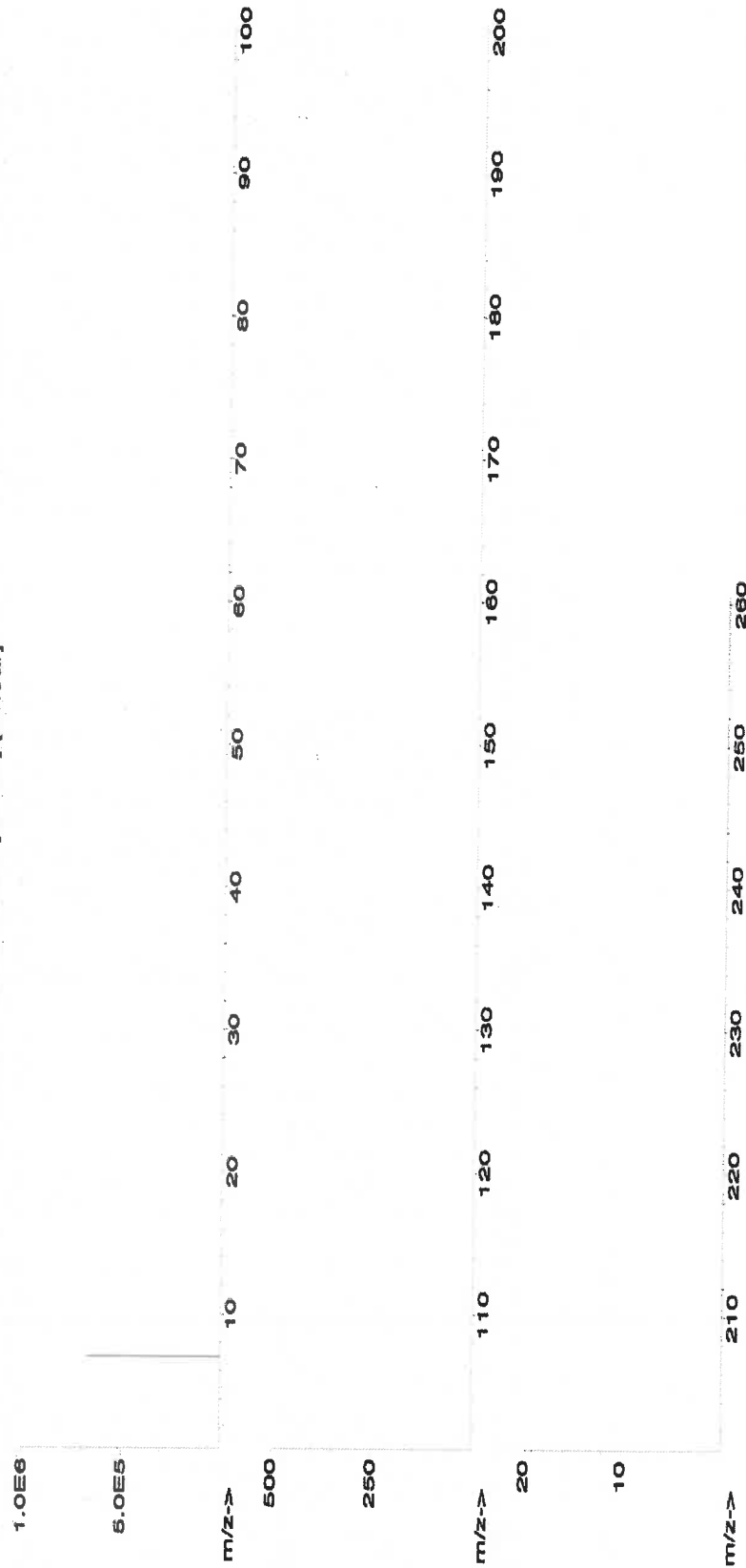
| Compound                               | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Conc. (µg/mL) | Actual | Expanded Uncertainty |      | NIST SRM |
|----------------------------------------|-----|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|---------------|--------|----------------------|------|----------|
|                                        |     |            |                       |            |                 |           |                   |                   |               |        | +/- (µg/mL)          | CAS# |          |
| SDS Information                        |     |            |                       |            |                 |           |                   |                   |               |        |                      |      |          |
| (Solvent Safety Info. On Attached pg.) |     |            |                       |            |                 |           |                   |                   |               |        |                      |      |          |
| LD50                                   |     |            |                       |            |                 |           |                   |                   |               |        |                      |      |          |

|                         |       |            |       |        |      |      |          |          |         |      |           |         |                   |    |
|-------------------------|-------|------------|-------|--------|------|------|----------|----------|---------|------|-----------|---------|-------------------|----|
| 1. Lithium nitrate (Li) | IN019 | L2042019A1 | 10000 | 99.999 | 0.10 | 10.0 | 100.0134 | 100.0173 | 10000.4 | 20.0 | 7790-69-4 | 5 mg/m3 | of-rat 1426 mg/kg | NA |
|-------------------------|-------|------------|-------|--------|------|------|----------|----------|---------|------|-----------|---------|-------------------|----|

**SDS Information**

(Solvent Safety Info. On Attached pg.)  
CAS# OSHA PEL (TWA) LD50

[1] Spectrum No.1 [ 9.619 sec]:58103.D# [Count] [Linear]



722



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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.02 | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.2  | Ho | <0.02 | La | <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 | <0.02 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.02 | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

Physical Characterization:

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

Certified by:

*[Signature]*

- \* 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).



15497-15498 R203/17/23(2)

**CERTIFIED WEIGHT REPORT:**

**Part Number:**  
**Lot Number:**  
**Description:**

**58120**  
**031523**  
**Calcium (Ca)**

**Solvent:** 21110221 Nitric Acid

**Expiration Date:**  
**Recommended Storage:**  
**Nominal Concentration (µg/mL):**  
**NIST Test Number:**

**031526**  
**Ambient (20 °C)**  
**10000**  
**6UTB**

**2%**  
**60.0**  
**(mL)**  
**Nitric Acid**

**Weight shown below was diluted to (mL):** 3000.41  
**5E-05** Balance Uncertainty  
**0.058** Flask Uncertainty

|                          |                          |
|--------------------------|--------------------------|
| <i>Giovanni Esposito</i> |                          |
| Formulated By:           | Giovanni Esposito 031523 |
| <i>Pedro L. Rentas</i>   |                          |
| Reviewed By:             | Pedro L. Rentas 031523   |

**SDS Information**

(Solvent Safety Info. On Attached pg.)  
NIST  
SRM

Expanded  
Uncertainty

Actual  
Conc. (µg/mL)

Actual  
Weight (g)

Target  
Weight (g)

Assay  
(%)

Purity  
(%)

Purity  
(%)

Nominal  
Conc. (µg/mL)

Lot  
Number

RM#

Compound

IN014

CAD072022A1

10000

99.999

0.10

39.9

75.1990

75.2093

10001.4

20.0

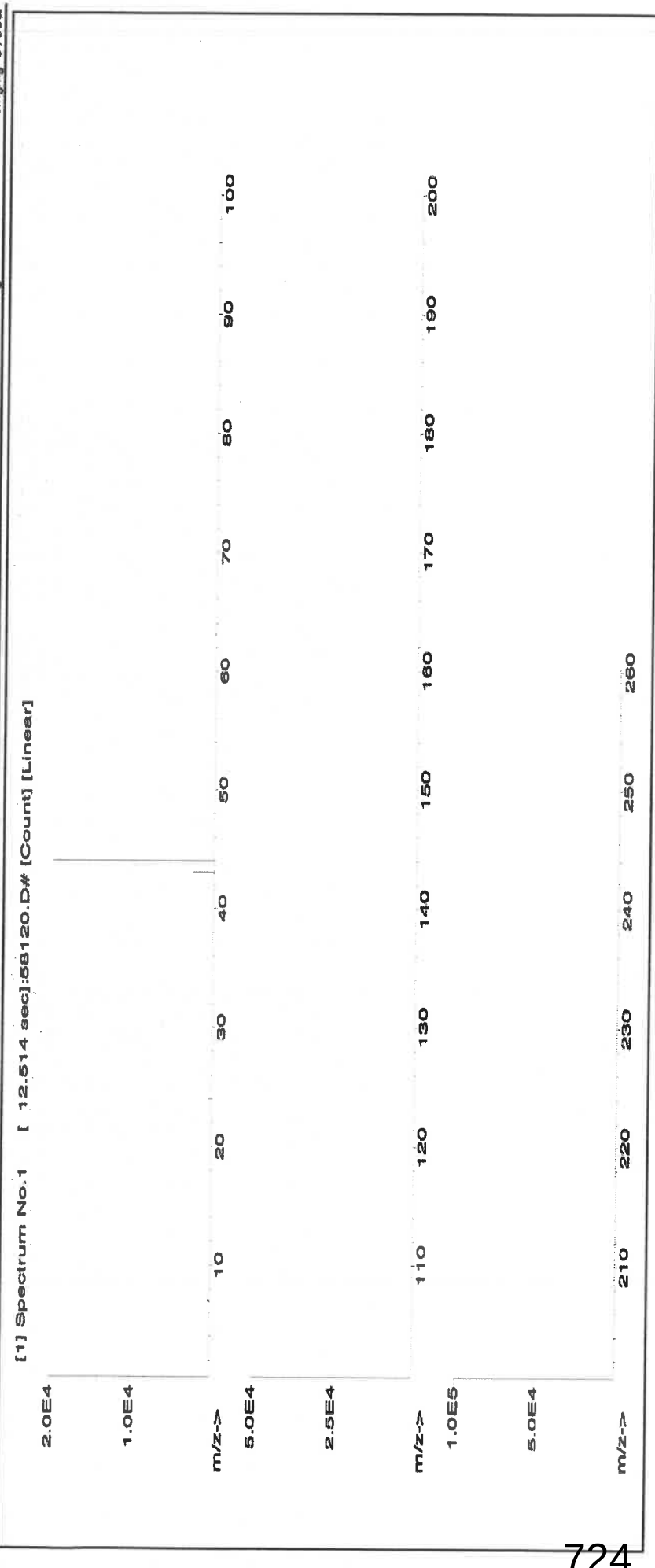
471-34-1

5 mg/m3

or:rat >2000mg/kg

3109a

1. Calcium carbonate (Ca) [1] Spectrum No.1 [ 12.514 sec]:58120.D# [Count] [Linear]



724



## 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 | <0.02 | Er | T     | 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 | Ba | <0.02 | In | <0.02 | Mg | <0.02 | 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 | <0.02 | 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 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

**(T) = Target analyte**

### Physical Characterization:

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

**Certified by:**

Ben. P. Davis

- \* 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).



15497-15498 R203/17/23(2)

**CERTIFIED WEIGHT REPORT:**

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

**Solvent:** 21110221 Nitric Acid

**Expiration Date:** 031526  
**Recommended Storage:** Ambient (20 °C)  
**Nominal Concentration (µg/mL):** 10000  
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 3000.41  
5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                          |                          |
|--------------------------|--------------------------|
| <i>Giovanni Esposito</i> |                          |
| Formulated By:           | Giovanni Esposito 031523 |
| <i>Pedro L. Rentas</i>   |                          |
| Reviewed By:             | Pedro L. Rentas 031523   |

**SDS Information**

Expanded Uncertainty  
(Solvent Safety Info. On Attached pg.)  
NIST SRM

Actual Conc. (µg/mL)

Actual Weight (g)

Target Weight (g)

Assay Purity (%)

Assay Purity (%)

Assay Purity (%)

Assay Purity (%)

Assay Purity (%)

Assay Purity (%)

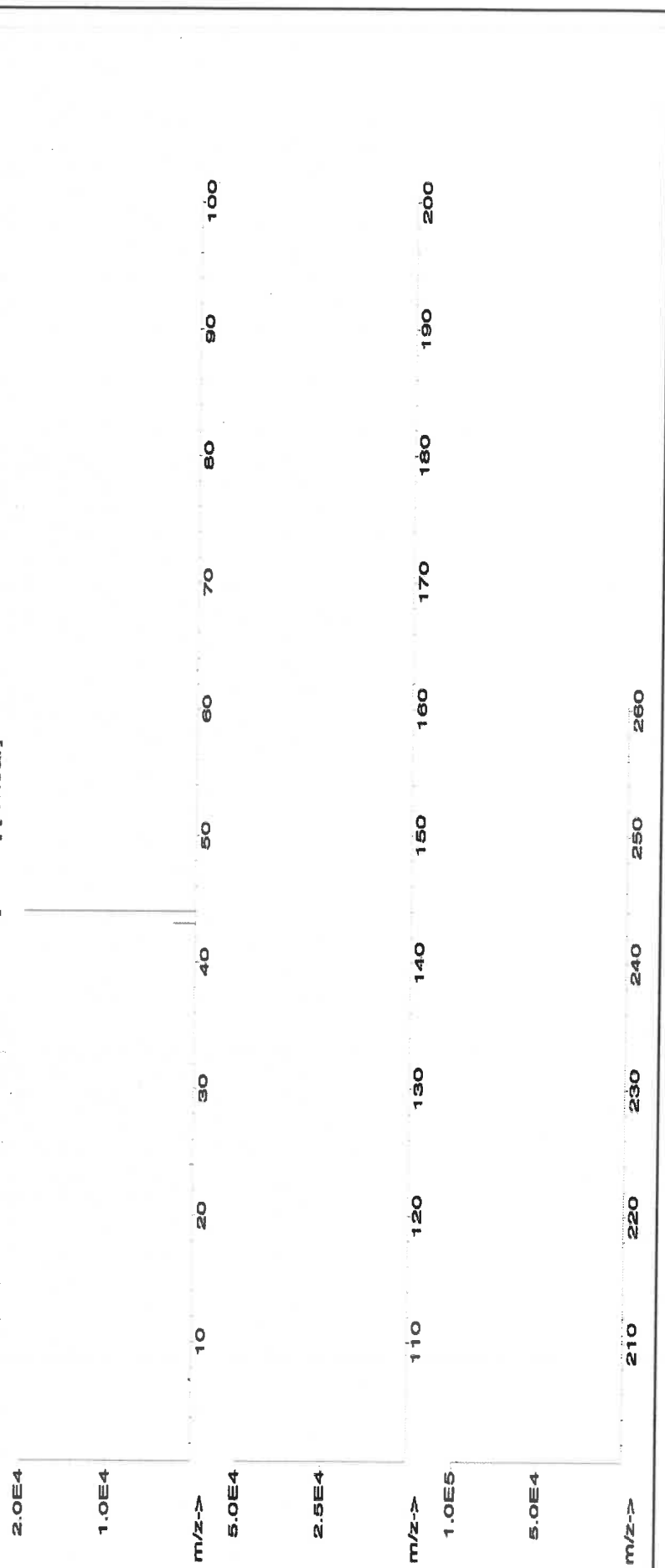
Assay Purity (%)

Assay Purity (%)

Assay Purity (%)

|                           |                   |       |        |      |      |         |         |         |      |          |         |                          |
|---------------------------|-------------------|-------|--------|------|------|---------|---------|---------|------|----------|---------|--------------------------|
| 1. Calcium carbonate (Ca) | IN014 CAD072022A1 | 10000 | 99.999 | 0.10 | 39.9 | 75.1990 | 75.2093 | 10001.4 | 20.0 | 471-34-1 | 5 mg/m3 | ort-rat >2000mg/kg 3109a |
|---------------------------|-------------------|-------|--------|------|------|---------|---------|---------|------|----------|---------|--------------------------|

[1] Spectrum No.1 [ 12.514 sec]:58120.D# [Count] [Linear]



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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | T     | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | 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 | Ti | <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 | <0.2  | Fe | <0.02 | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | 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).





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

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

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

(T)= Target analyte

## Physical Characterization:

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

Certified by:

*Ben P. Sha*

- \* 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 #

Solvent: 20510011 Nitric Acid

**Part Number:** 58126  
**Lot Number:** 092122  
**Description:** Iron (Fe)

**Expiration Date:** 092125

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 10000

**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 5000.1

SE-05 Balance Uncertainty

0.12 Flask Uncertainty

7.0% 350.0 (mL) Nitric Acid

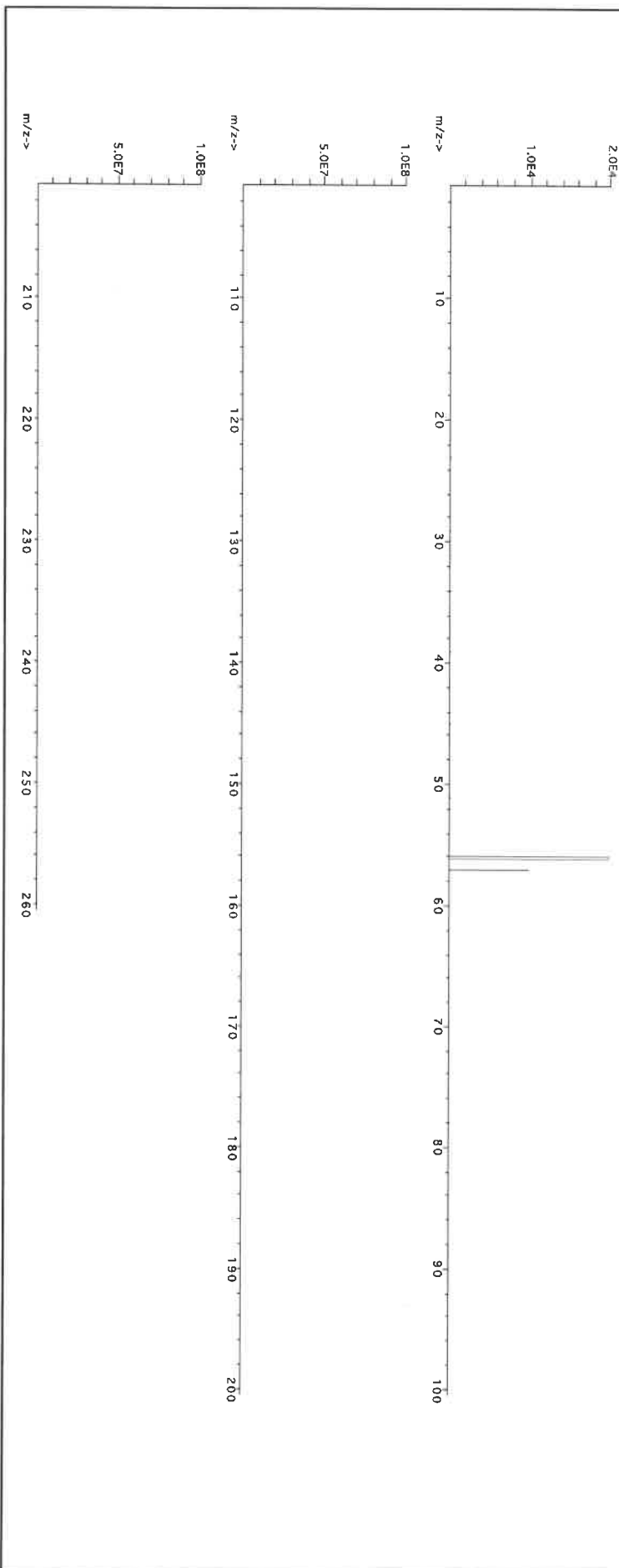
|                          |                   |
|--------------------------|-------------------|
| <i>Giovanni Caporaso</i> |                   |
| Formulated By:           | Giovanni Esposito |
|                          | 092122            |
| Reviewed By:             | Pedro L. Rentas   |
|                          | 092122            |

**SDS Information**

| Compound | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|----------|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

|              |       |             |       |        |      |       |         |         |         |      |           |         |                        |
|--------------|-------|-------------|-------|--------|------|-------|---------|---------|---------|------|-----------|---------|------------------------|
| 1. Iron (Fe) | IN346 | 2224912-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | 10001.5 | 20.0 | 7439-89-6 | 5 mg/m3 | or-hal 7500mg/kg 3126a |
|--------------|-------|-------------|-------|--------|------|-------|---------|---------|---------|------|-----------|---------|------------------------|

[1] Spectrum No.1 [30.763 sec]:58126.D# [Count] [Linear]





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.10 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.02 | Ho | <0.02 | La | <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 | <0.02 | 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 | <0.05 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.05 |
| B  | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

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

Certified by:

- \* 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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*Certified Reference Material CRM*

**CERTIFIED WEIGHT REPORT:**

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

Solvent: 20510011 Nitric Acid

Lot #

*Giovanni Esposito*

Formulated By: Giovanni Esposito 120822

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

2% 60.0 (mL) Nitric Acid

*Pedro L. Rentas*

Reviewed By: Pedro L. Rentas 120822

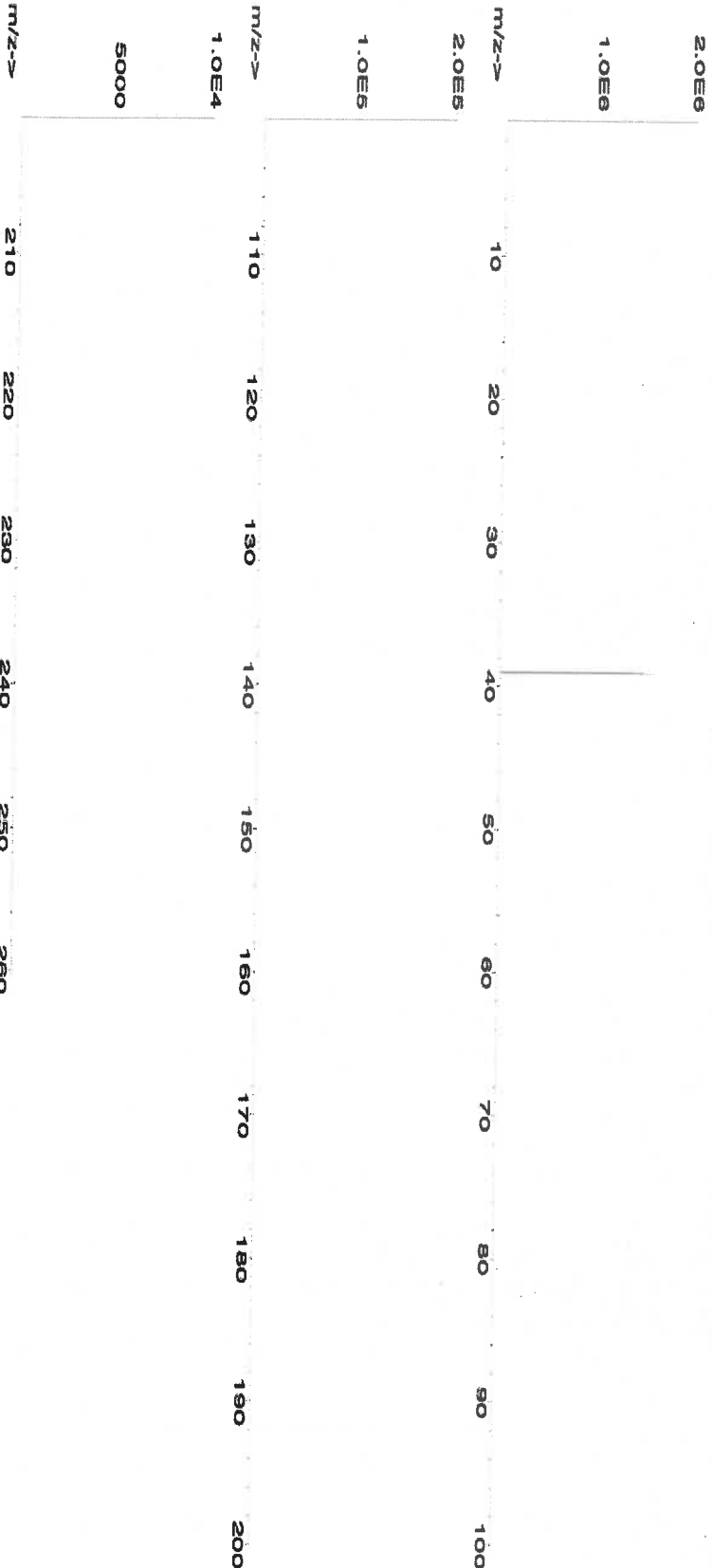
Weight shown below was diluted to (mL): 3000.4 0.06 Flask Uncertainty

**Compound**

| Lot | Nominal | Purity        | Uncertainty | Assay      | Target     | Actual     | Actual        | Expanded    | SDS Information                        | NIST |
|-----|---------|---------------|-------------|------------|------------|------------|---------------|-------------|----------------------------------------|------|
| RM# | Number  | Conc. (µg/mL) | (%)         | Purity (%) | Weight (g) | Weight (g) | Conc. (µg/mL) | +/- (µg/mL) | (Solvent Safety Info. On Attached pg.) | SRM  |

1. Potassium nitrate (K) IN034 KD022021A1 10000 99.989 0.10 37.6 79.7990 79.8075 10001.1 20.0 7757-79-1 5 mg/m3 or/air 3015 mg/kg 3141a

[1] Spectrum No.1 [ 35.763 sec]:58119.D# [Count] [Linear]





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

733

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.02 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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).

# CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

## CERTIFICATE OF ANALYSIS

Date: 8/3/2022

MS631 MS632 MS633 MS634

Lot No 820803

Hydrogen Peroxide, ACS  
Reagent Grade

| <u>TEST</u>                 | <u>MAXIMUM LIMITS</u>                                | <u>RESULT</u> |
|-----------------------------|------------------------------------------------------|---------------|
| Appearance                  | Colorless and free from suspended matter or sediment | Pass          |
| Assay                       | 29-32%                                               | 31.4%         |
| Color (APHA)                | 10                                                   | 5             |
| Residue after Evaporation   | 0.002%                                               | .0001%        |
| Titrateable Acid            | 0.0006 meq/g                                         | < .0006 meq/g |
| Chloride (Cl)               | 2 ppm                                                | < 1 ppm       |
| Nitrate (NO <sub>3</sub> )  | 2 ppm                                                | < 1 ppm       |
| Phosphate                   | 2 ppm                                                | < 1 ppm       |
| Sulfate (SO <sub>4</sub> )  | 5 ppm                                                | < .5 ppm      |
| Ammonium (NH <sub>4</sub> ) | 5 ppm                                                | < 1 ppm       |
| Heavy Metals (as Pb)        | 1 ppm                                                | < .1 ppm      |
| Iron (Fe)                   | 0.5 ppm                                              | < .1 ppm      |
| Sodium Stannate             | 200 – 300 ppb                                        | Pass          |

\*\*\*Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022

Retest date: 8/2024

*Gina M. Rambo*  
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781



**CERTIFIED WEIGHT REPORT:**

Part Number: 58024  
Lot Number: 060523  
Description: Chromium (Cr)

Lot #  
21110221  
Solvent: Nitric Acid

2.0%

40.0 (mL)  
Nitric Acid

Formulated By: *Lawrence Barry*  
Reviewed By: *Pedro L. Renteria*

735

Expiration Date: 060526  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 1000

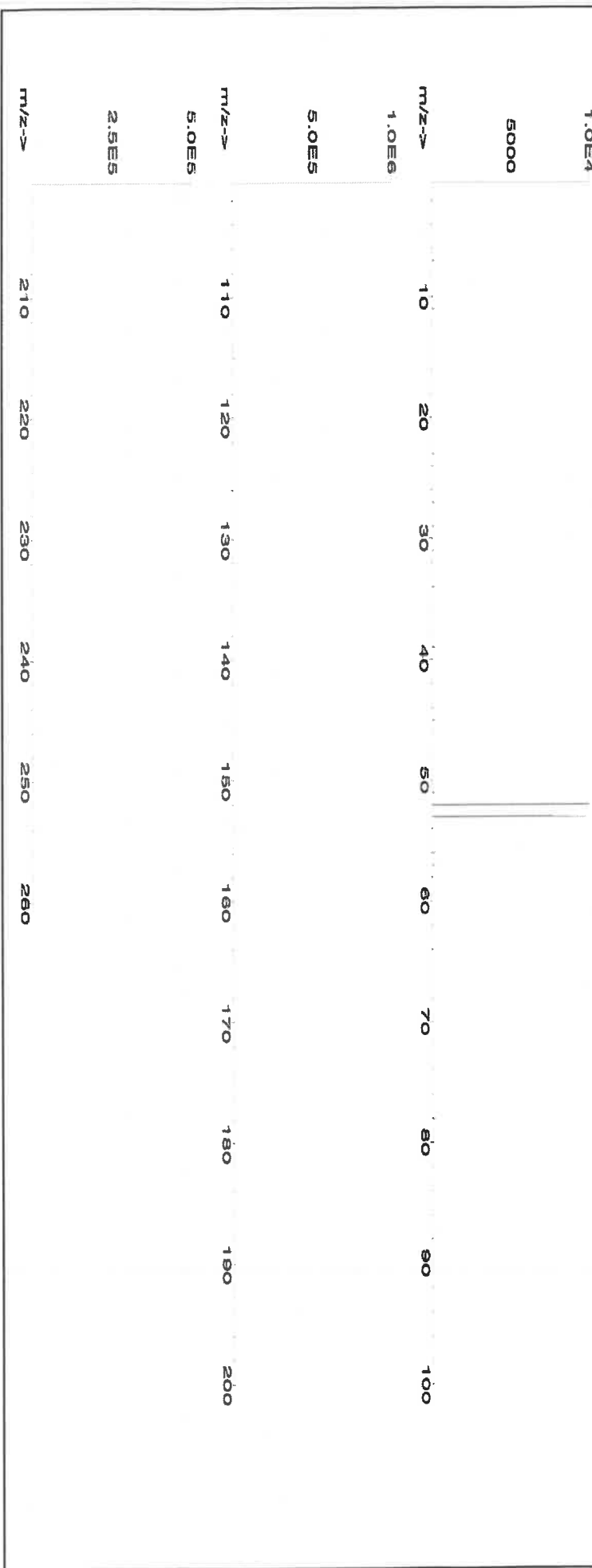
Formulated By: *Lawrence Barry*  
Reviewed By: *Pedro L. Renteria*

NIST Test Number: 6UTB  
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 (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|-------------|------------|-----------------|-------------------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|----------|-------------|------------|-----------------|-------------------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

1. Chromium(III) nitrate nonahydrate (Cr) 58124 071122 0.1000 200.0 0.084 1000 10000.1 1000.0 2.2 7789-02-8 0.5 mg(Cr)/m3 or rat 3250 mg/kg 3112a

[1] Spectrum No.1 [31.393 sec]:57024.D# [Count] [Linear]





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

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

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

(T) = Target analyte

**Physical Characterization:**

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:** 58029  
**Lot Number:** 102523  
**Description:** Copper (Cu)

**Lot #** 24002546  
**Solvent:** Nitric Acid

**Expiration Date:** 102526

2.0%

40.0 (mL)

Nitric Acid

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 1000

**NIST Test Number:** 6UTB

5E-05 Balance Uncertainty

**Volume shown below was diluted to (mL):** 2000.02

0.058 Flask Uncertainty

**Formulated By:** Benson Chan 102523

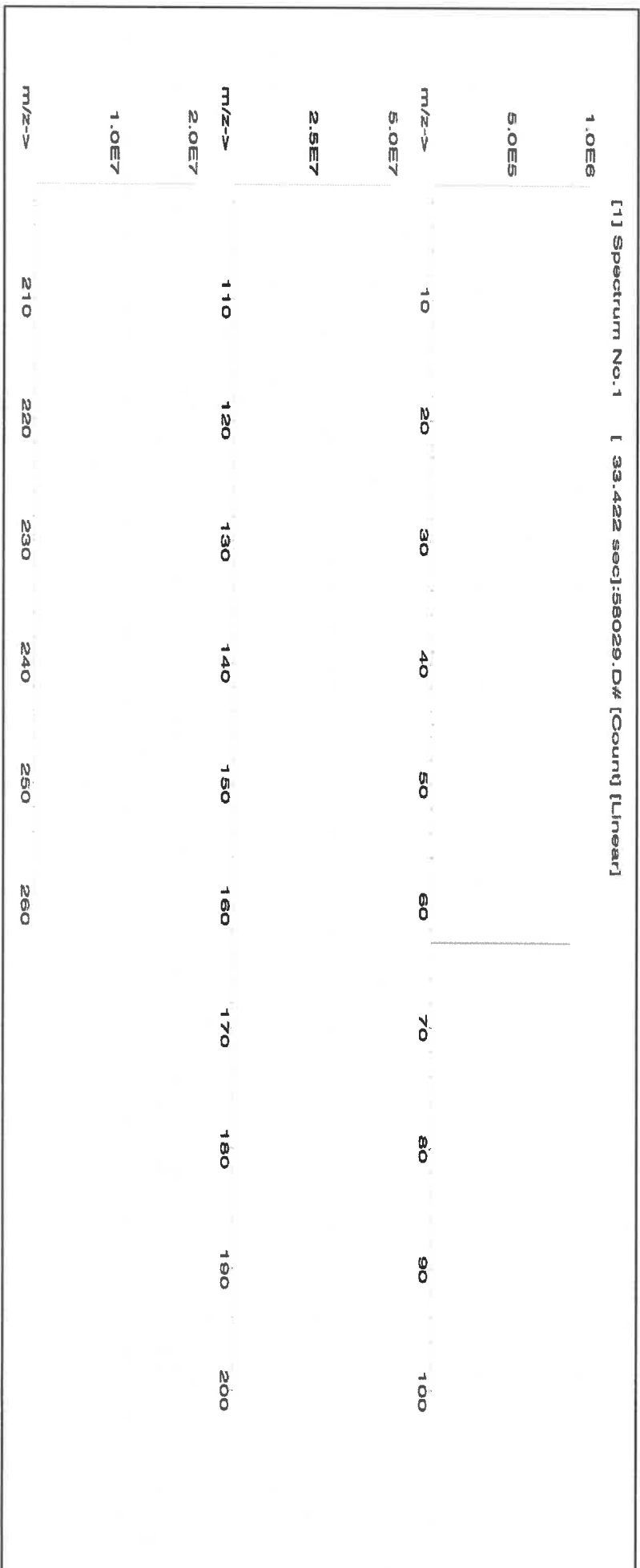
**Reviewed By:** Pedro L. Rentas 102523

**SDS Information**

| 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) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|----------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

1. Copper(II) nitrate trihydrate (Cu) 58129 100223 0.1000 200.0 0.084 1000 10000.1 1000.0 2.2 10031-43-3 1 mg/m3 or-rat 794 mg/kg 3114

[1] Spectrum No. 1 [ 33.422 sec]:58029.D# [Count] [Linear]







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

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

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

(T) = Target analyte

## Physical Characterization:

Certified by:

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

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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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).



M5648 R:10123123

**CERTIFIED WEIGHT REPORT:**

**Part Number:** 58025  
**Lot Number:** 102623  
**Description:** Manganese (Mn)

**Lot #** 24002546  
**Solvent:** Nitric Acid

**Expiration Date:** 102626

**2.0%** 60.0 (mL) Nitric Acid

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 1000

**NIST Test Number:** 6UTB

5E-05 Balance Uncertainty

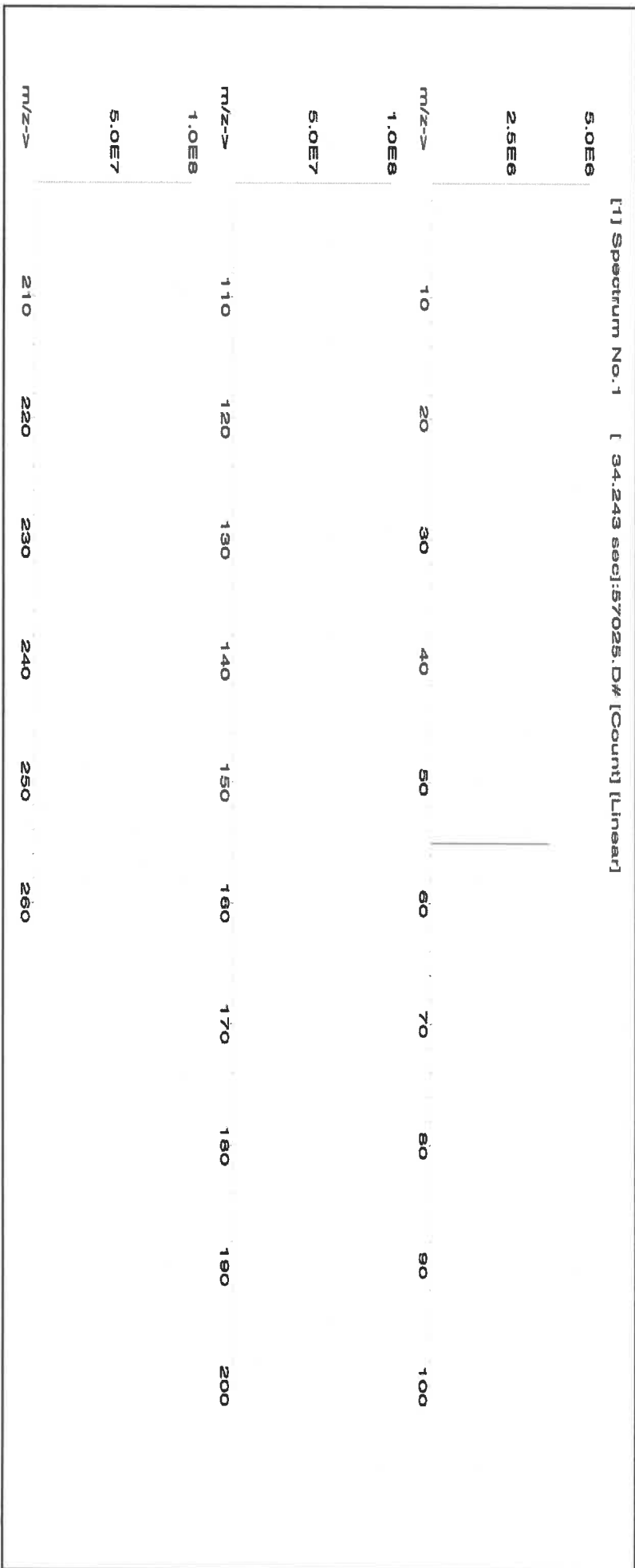
**Volume shown below was diluted to (mL):** 3000.41 0.058 Flask Uncertainty

|                |                 |        |
|----------------|-----------------|--------|
| Formulated By: | Benson Chan     | 102623 |
| Reviewed By:   | Pedro L. Ruelas | 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 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 or-rel>300mg/kg 3132

[1] Spectrum No.1 [34.243 sec]:57025.D# [Count] [Linear]





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | T     | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

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

Certified by:

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
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**CERTIFIED WEIGHT REPORT:**

Part Number: **58029**  
Lot Number: **071723**  
Description: **Copper (Cu)**

Lot #: **2110221**  
Solvent: **Nitric Acid**

Expiration Date: **071726**  
Recommended Storage: **Ambient (20 °C)**  
Nominal Concentration (µg/mL): **1000**

2.0%  
40.0 (mL)  
Nitric Acid

|                |                 |        |
|----------------|-----------------|--------|
| Formulated By: | Benson Chan     | 071723 |
| Reviewed By:   | Pedro L. Ruelas | 071723 |

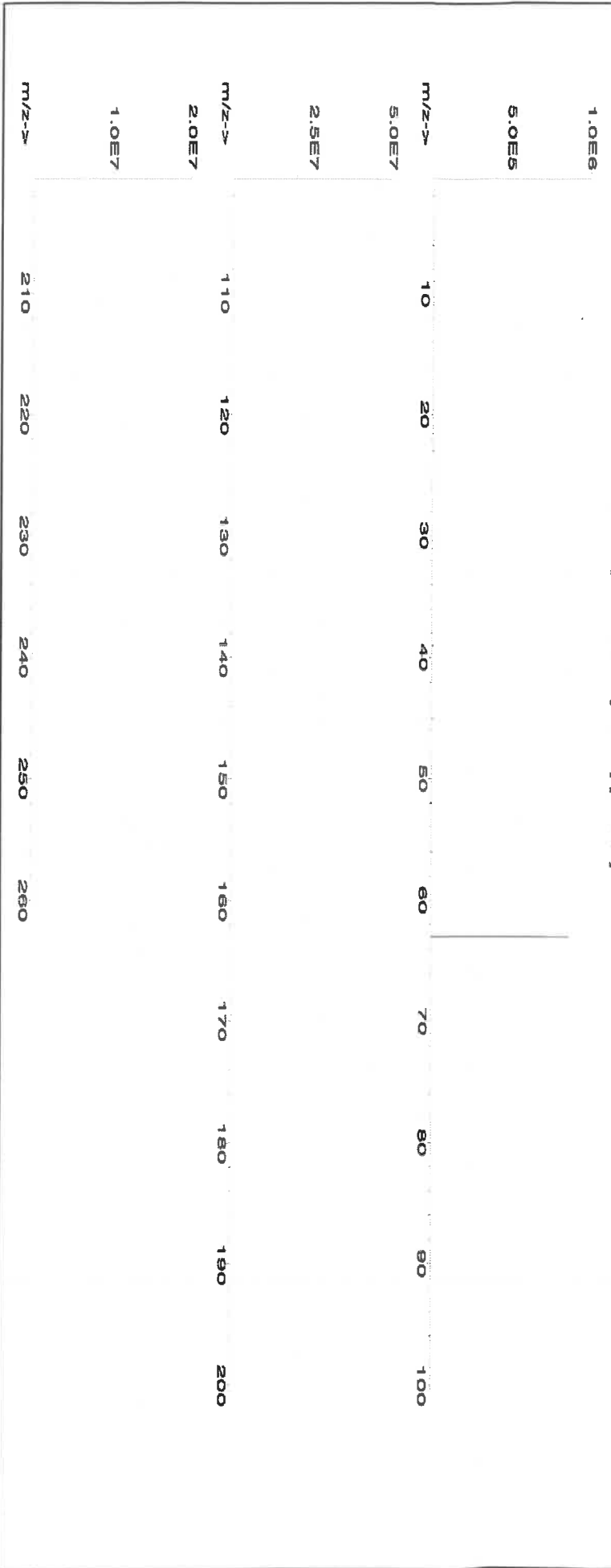
NIST Test Number: **6UTB**  
Volume shown below was diluted to (mL): **2000.02**  
Balance Uncertainty: **5E-05**  
Flask Uncertainty: **0.058**

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|-------------|------------|-----------------|-------------------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|----------|-------------|------------|-----------------|-------------------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

**SDS Information**

1. Copper(II) nitrate trihydrate (Cu) 58129 022723 0.1000 200.0 0.084 1000 10000.5 1000.0 2.2 10031-43-3 1 mg/m3 or rat 794 mg/kg 3114

[1] Spectrum No.1 [33.422 sec]:58029.D# [Count] [Linear]





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U  | <0.02 |
| As | <0.2  | Ce | <0.02 | Bu | <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 | Ru | <0.02 | Na | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | La | <0.2  | Hg | <0.2  | P  | <0.02 | Sr | <0.02 | S  | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | Pb | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | Ta | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | T     | Au | <0.02 |    |       | Nd | <0.02 | K  | <0.2  | Sc | <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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M5768 M5769  
Certified Reference Material CRM  
R: 1/13/24



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

**CERTIFIED WEIGHT REPORT:**

Part Number: 58112  
Lot Number: 091823  
Description: Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 091826

2% 40.0 (mL) Nitric Acid

Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 10000

M5768 M5769

NIST Test Number: 6UTB

5E-05 Balance Uncertainty

BP R: 1/13/24

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

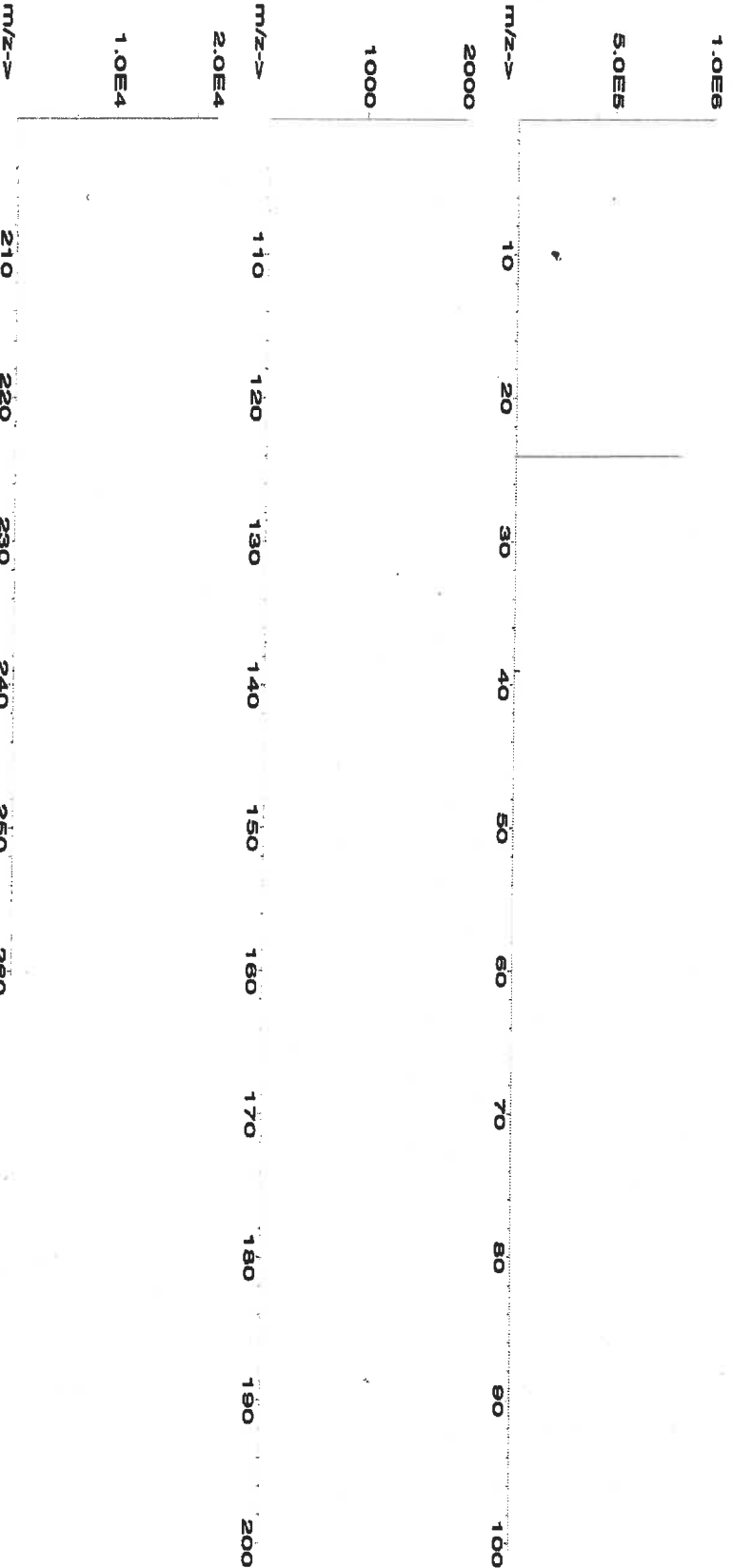
|                                      |  |        |
|--------------------------------------|--|--------|
| Formulated By: <i>Lawrence Barry</i> |  | 091823 |
| Reviewed By: <i>Pedro L. Rentas</i>  |  | 091823 |

**Compound**

| Lot<br>Number | Nominal       | Purity | Uncertainty | Assay | Target     | Actual     | Actual        | Uncertainty | (Solvent Safety Info. On Attached pg.) |                |      |      |
|---------------|---------------|--------|-------------|-------|------------|------------|---------------|-------------|----------------------------------------|----------------|------|------|
|               | Conc. (µg/mL) | (%)    | (%)         | (%)   | Weight (g) | Weight (g) | Conc. (µg/mL) | +/- (µg/mL) | CAS#                                   | OSHA PEL (TWA) | LD50 | SRM  |
|               |               |        |             |       |            |            |               |             |                                        |                |      | NIST |

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [ 19.923 sec]: 58112.D# [Count] [Linear]





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

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

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

(T) = Target analyte

## Physical Characterization:

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

Certified by:

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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  
Certified Reference Material CRM  
R: 1/13/24



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

**CERTIFIED WEIGHT REPORT:**

Part Number: 58112  
Lot Number: 091823  
Description: Magnesium (Mg)

Solvent: 24002546 Nitric Acid

Lot #

Expiration Date: 091826

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 10000

NIST Test Number: 6UTB

Weight shown below was diluted to (mL): 2000.02 0.058 Flask Uncertainty

2% 40.0 (mL) Nitric Acid

M5768 M5769

BP R: 1/13/24

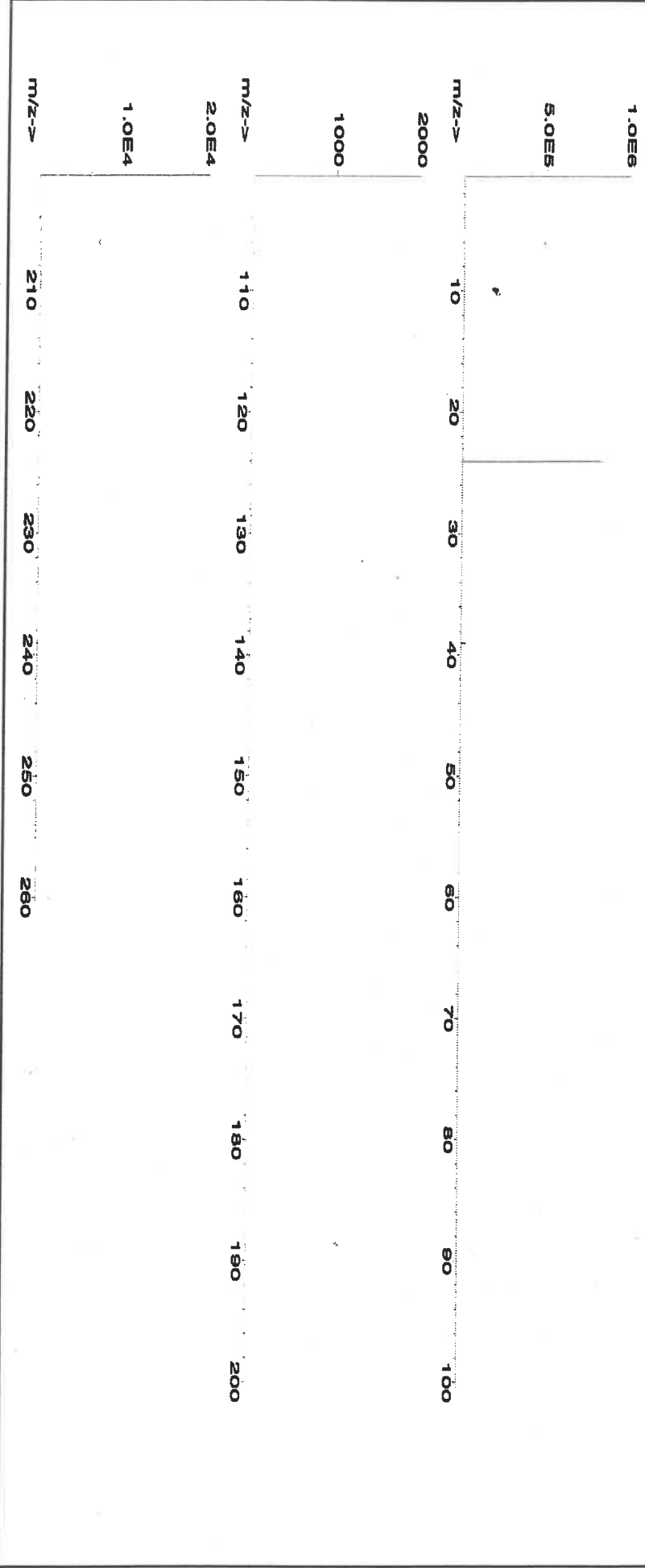
|                                      |  |        |
|--------------------------------------|--|--------|
| Formulated By: <i>Lawrence Barry</i> |  | 091823 |
| Reviewed By: <i>Pedro L. Rentas</i>  |  | 091823 |

**Compound**

| Lot    | Nominal       | Purity | Uncertainty | Assay | Target     | Actual     | Actual        | Expanded    | SDS Information                        | NIST |
|--------|---------------|--------|-------------|-------|------------|------------|---------------|-------------|----------------------------------------|------|
| Number | Conc. (µg/mL) | (%)    | Purity (%)  | (%)   | Weight (g) | Weight (g) | Conc. (µg/mL) | +/- (µg/mL) | (Solvent Safety Info. On Attached pg.) | SRM  |

1. Magnesium nitrate hexahydrate (Mg) IN030 M500222A1 10000 99.999 0.10 8.51 234.9118 234.9126 10000.0 20.0 13446-18-9 NA or-rat 5440 mg/kg 3131a

[1] Spectrum No. 1 [ 19.923 sec]:58112.D# [Count] [Linear]







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

746

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

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

(T) = Target analyte

## Physical Characterization:

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

Certified by:

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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:** 57004  
**Lot Number:** 102523  
**Description:** Beryllium (Be)

**Lot #** 24002546  
**Solvent:** Nitric Acid

**Expiration Date:**

102526

2.0%

40.0 (mL)

Nitric Acid

**Recommended Storage:**

Ambient (20 °C)

**Nominal Concentration (µg/mL):**

1000

**NIST Test Number:**

6UTB

**Volume shown below was diluted to (mL):**

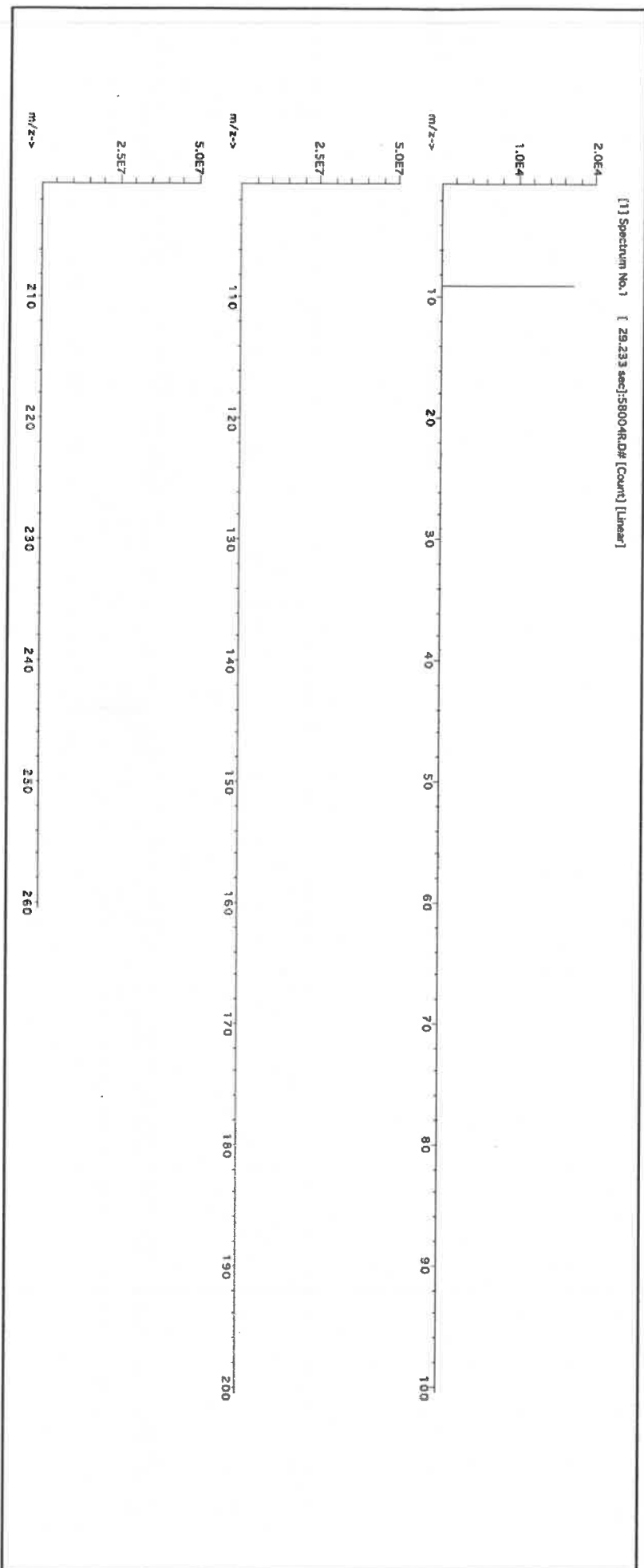
5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                |                 |        |
|----------------|-----------------|--------|
| Formulated By: | Benson Chan     | 102523 |
| Reviewed By:   | Pedro L. Rentas | 102523 |

**SDS Information**

| Compound | Part Number | Lot | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|-------------|-----|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|----------|-------------|-----|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

|                           |       |        |        |       |       |      |         |        |     |            |          |                        |    |
|---------------------------|-------|--------|--------|-------|-------|------|---------|--------|-----|------------|----------|------------------------|----|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | 1000.0 | 2.2 | 13597-99-4 | 0.2µg/m3 | intrinsc-rat 3.16mg/kg | NA |
|---------------------------|-------|--------|--------|-------|-------|------|---------|--------|-----|------------|----------|------------------------|----|





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

748



**Certified Reference Material CRM**

**CERTIFIED WEIGHT REPORT:**

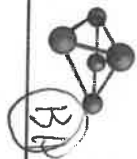
Part Number: 57050  
Lot Number: 071123  
Description: Tin (Sn)

Solvents: 21110221 Nitric Acid  
22D0562008 Hydrochloric acid

Lot #

R-02509124

M599



Expiration Date: 071126  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 1000  
NIST Test Number: 6UTB

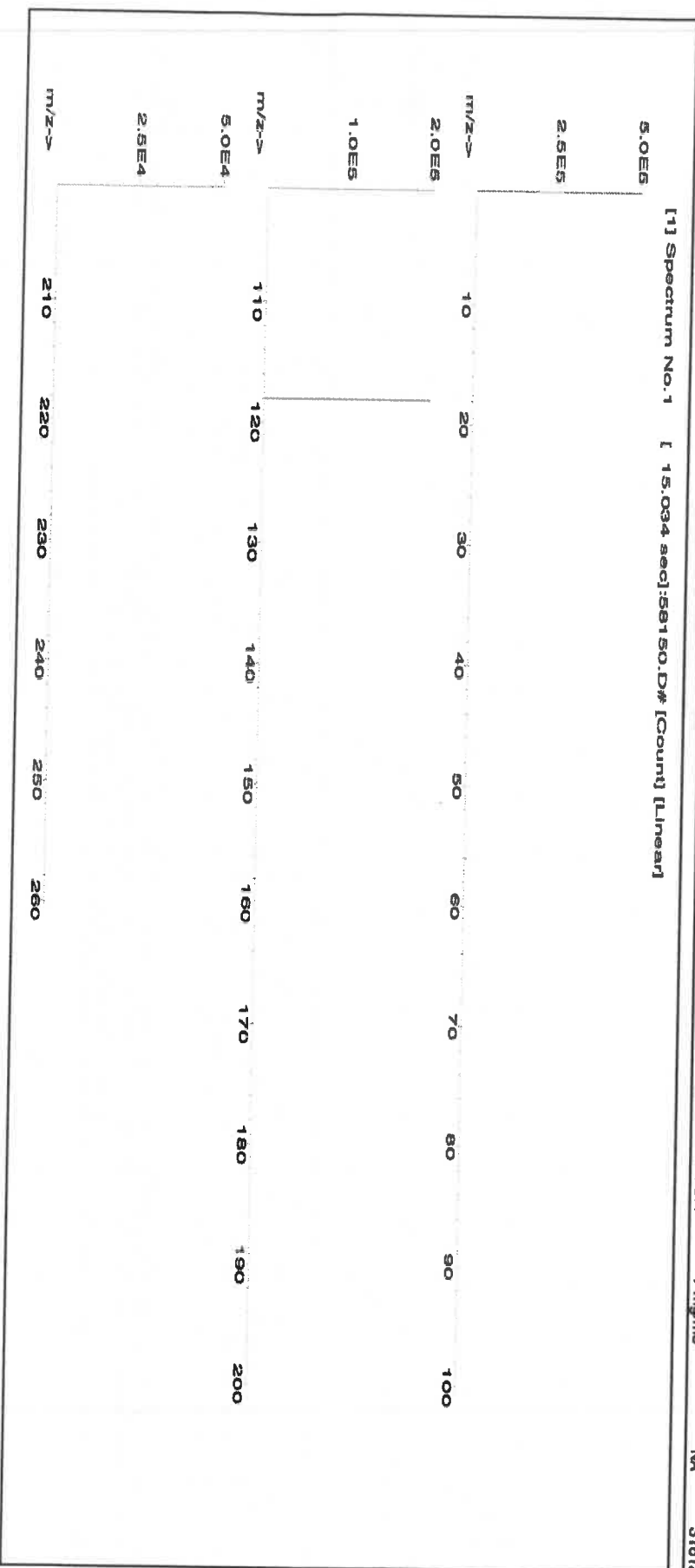
Weight shown below was diluted to (mL): 499.93  
5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                               |  |
|-------------------------------|--|
| Formulated By: Benson Chan    |  |
| 071123                        |  |
| Reviewed By: Pedro L. Rientas |  |
| 071123                        |  |

| SDS Information |     |        |  |               |     |            |     |             |            |               |     |            |            |               | NIST |            |            |                                        |
|-----------------|-----|--------|--|---------------|-----|------------|-----|-------------|------------|---------------|-----|------------|------------|---------------|------|------------|------------|----------------------------------------|
| Compound        |     | Lot    |  | Nominal       |     | Purity     |     | Uncertainty |            | Assay         |     | Target     |            | Actual        |      | Expanded   |            |                                        |
|                 | RM# | Number |  | Conc. (µg/mL) | (%) | Purity (%) | (%) | Weight (g)  | Weight (g) | Conc. (µg/mL) | (%) | Weight (g) | Weight (g) | Conc. (µg/mL) | (%)  | Weight (g) | Weight (g) | (Solvent Safety Info. On Attached pg.) |

1. Ammonium hexafluoroantimonate(V) (Sn) IN010 SMD042023A1 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]:56150.D# [Coun] [Linear]





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

750

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U  | <0.02 |
| As | <0.2  | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Ti | <0.02 | V  | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | 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.
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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).



R: 02/09/24 115800 (54)

CERTIFIED WEIGHT REPORT:

Part Number: 57027  
Lot Number: 091923  
Description: Cobalt (Co)

Expiration Date: 091926  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 1000  
NIST Test Number: 6UTB  
Volume shown below was diluted to (mL): 2000.02

Lot # 24002546  
Solvent: Nitric Acid

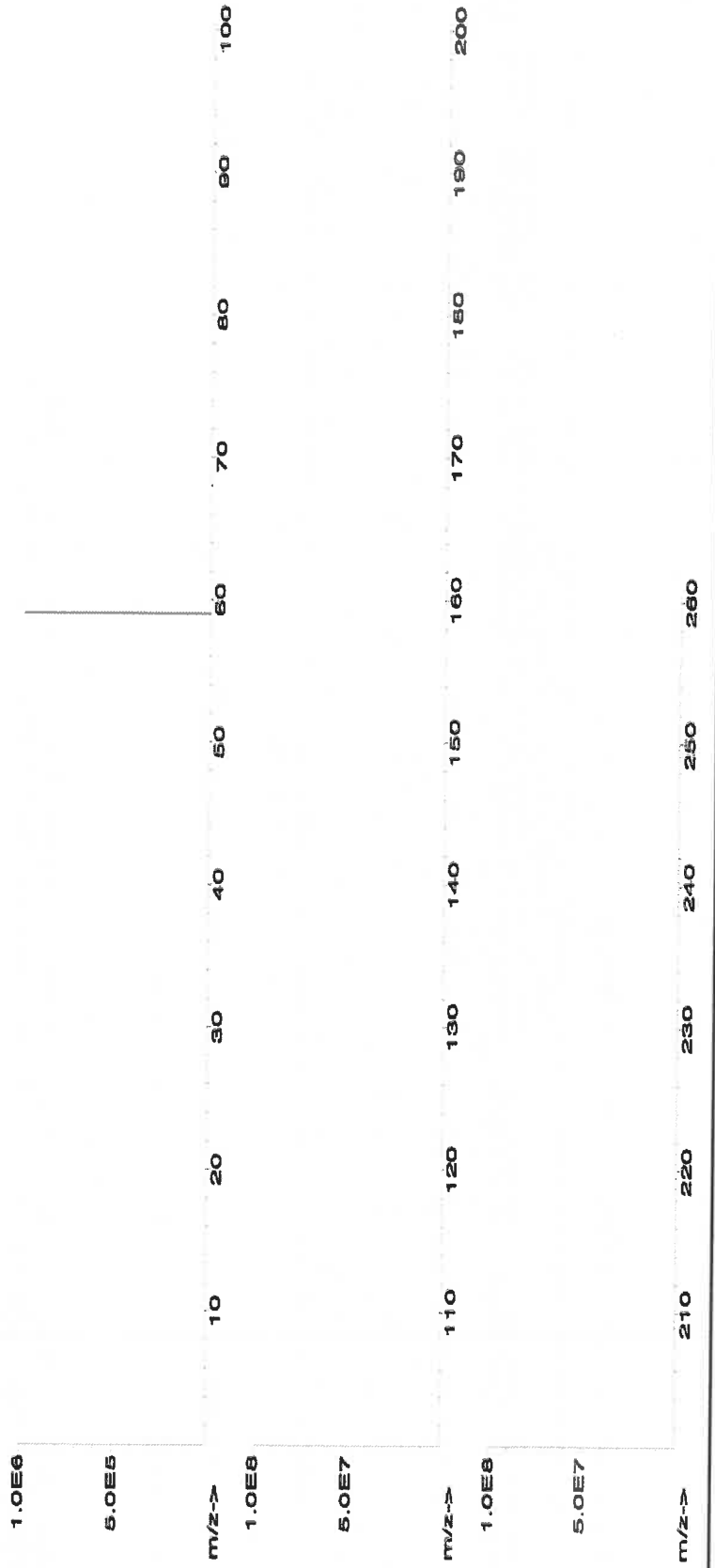
|                |                 |        |
|----------------|-----------------|--------|
| Formulated By: | Lawrence Barry  | 091923 |
| Reviewed By:   | Pedro L. Rentas | 091923 |

SDS Information

Expanded Uncertainty +/- (µg/mL)  
NIST SRM  
(Solvent Safety Info. On Attached pg.)  
CAS# OSHA PEL (TWA) LD50

1. Cobalt(II) nitrate hexahydrate (Co) 58127 050923 0.1000 200.0 0.084 1000 10000.0 1000.0 2.2 10026-22-9 0.02 mg/m3 orl-rat 691 mg/kg 3113

[1] Spectrum No.1 [ 34.243 sec]:58027.D# [Count] [Linear]



751



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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U  | <0.02 |
| As | <0.2  | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.02 | 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 | <0.2  | Na | <0.02 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | T     | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.2  | 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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- \* 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:**  
**Lot Number:**  
**Description:**

**57033**  
**111323**  
**Arsenic (As)**

**Lot #**  
**Solvent:**

**24002546**  
**Nitric Acid**

**2.0%**  
**80.0 (mL)**

**Nitric Acid**

**Expiration Date:**  
**Recommended Storage:**  
**Nominal Concentration (µg/mL):**

**111326**  
**Ambient (20 °C)**  
**1000**

**NIST Test Number:**  
**Volume shown below was diluted to (mL):**

**6UTB**  
**4000.0**

**5E-05**  
**0.06**  
**Balance Uncertainty**  
**Flask Uncertainty**

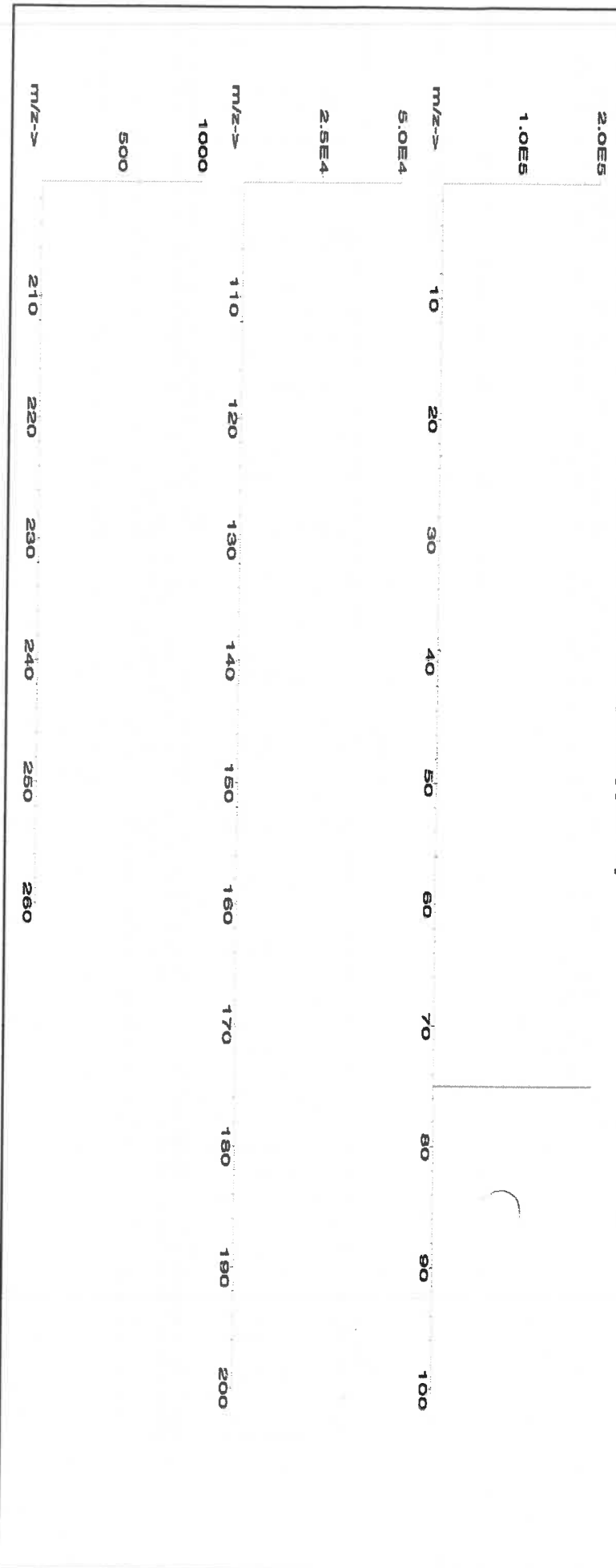
|                |                 |        |
|----------------|-----------------|--------|
| Formulated By: | Lawrence Barry  | 111323 |
| Reviewed By:   | Pedro L. Rendas | 111323 |

**Compound**

| Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

|                 |       |        |        |       |       |      |         |        |     |           |           |                  |       |
|-----------------|-------|--------|--------|-------|-------|------|---------|--------|-----|-----------|-----------|------------------|-------|
| 1. Arsenic (As) | 58133 | 020522 | 0.1000 | 400.0 | 0.084 | 1000 | 10001.0 | 1000.0 | 2.0 | 7440-38-2 | 0.5 mg/m3 | or-rat 500 mg/kg | 3103a |
|-----------------|-------|--------|--------|-------|-------|------|---------|--------|-----|-----------|-----------|------------------|-------|

[1] Spectrum No.1 [34.433 sec]:57033.D# [Count] [Linear]







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

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

|    |       |    |       |                 |       |    |       |    |       |    |       |    |       |    |       |                 |       |    |       |
|----|-------|----|-------|-----------------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|-----------------|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy              | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | T     | Ce | <0.02 | Eu              | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl              | <0.02 | V  | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd              | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Ru | <0.02 | Na | <0.2  | Tl <sub>2</sub> | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga              | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Sr | <0.02 | S  | <0.02 | Tm              | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge <sup>*</sup> | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | Ta | <0.02 | Sr              | <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 |    |       | 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 WEIGHT REPORT:**

**Part Number:** 57115  
**Lot Number:** 041723  
**Description:** Phosphorous (P)

**Solvent:** 21110221 Nitric Acid

**Lot #**

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

**Expiration Date:** 041726

**2%** 40.0 (mL) Nitric Acid

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 10000

**NIST Test Number:** 6UTB

**5E-05** Balance Uncertainty

**Weight shown below was diluted to (mL):** 2000.02 0.058 Flask Uncertainty

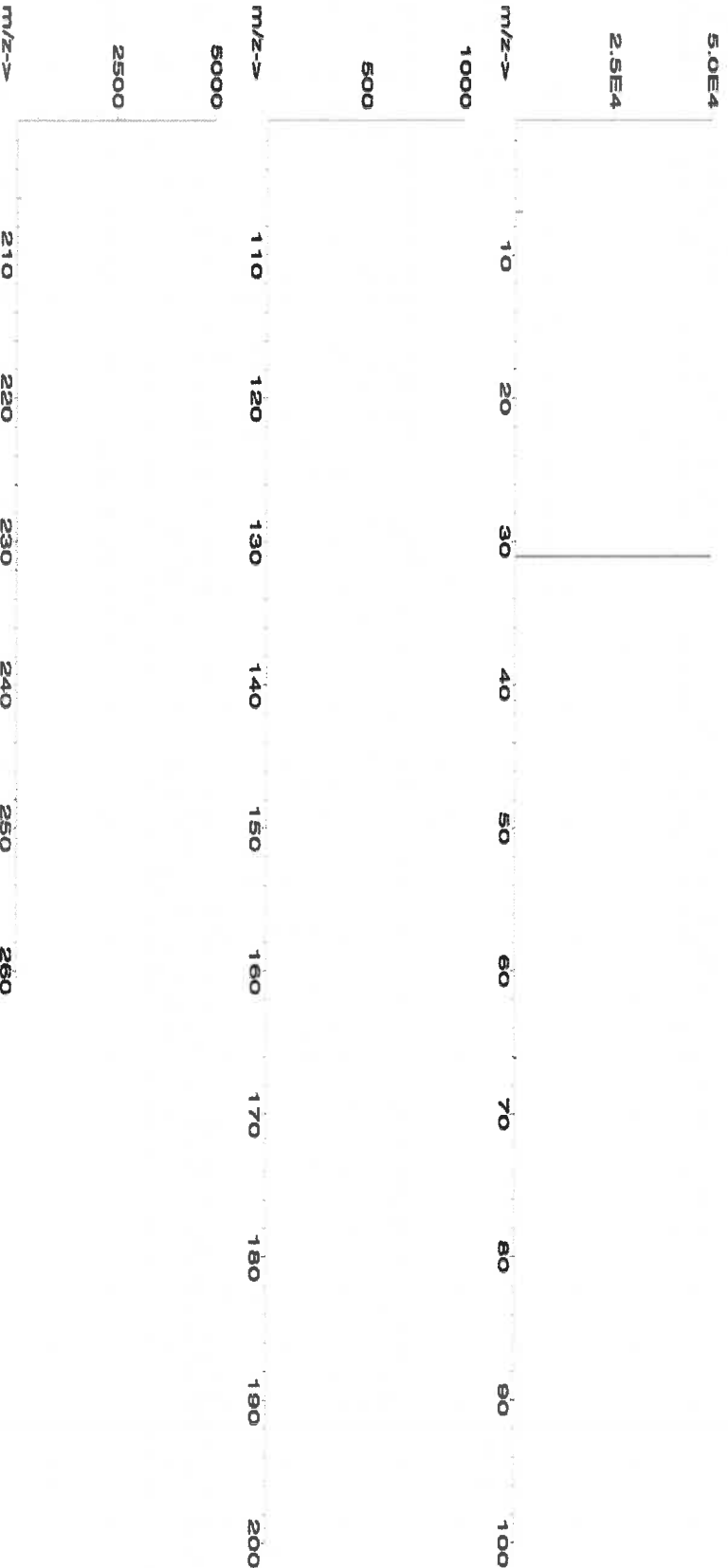
**SDS Information**

**Compound**

| Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS#      | OSHA PEL (TWA) | LD50           | NIST SRM |
|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|-----------|----------------|----------------|----------|
| 57115      | 10000                 | 99.999     | 0.10            | 27.5      | 72.7287           | 72.7289           | 10000.0              | 20.0                             | 7722-76-1 | 5 mg/m3        | oral>2000mg/kg | 3186     |

1. Ammonium dihydrogen phosphate (P) IN008 P082019A1 10000 99.999 0.10 27.5 72.7287 72.7289 10000.0 20.0 7722-76-1 5 mg/m3 oral>2000mg/kg 3186

[1] Spectrum No.1 [ 12.074 sec]:58115.D# [Count] [Linear]





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | T     | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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:  
Lot Number:  
Description:

57016  
122923  
Sulfur (S)

Lot #

ASTM Type 1 Water

|                |                 |
|----------------|-----------------|
|                |                 |
| Formulated By: | Benson Chan     |
| Reviewed By:   | Pedro L. Rentas |
| 122923         |                 |

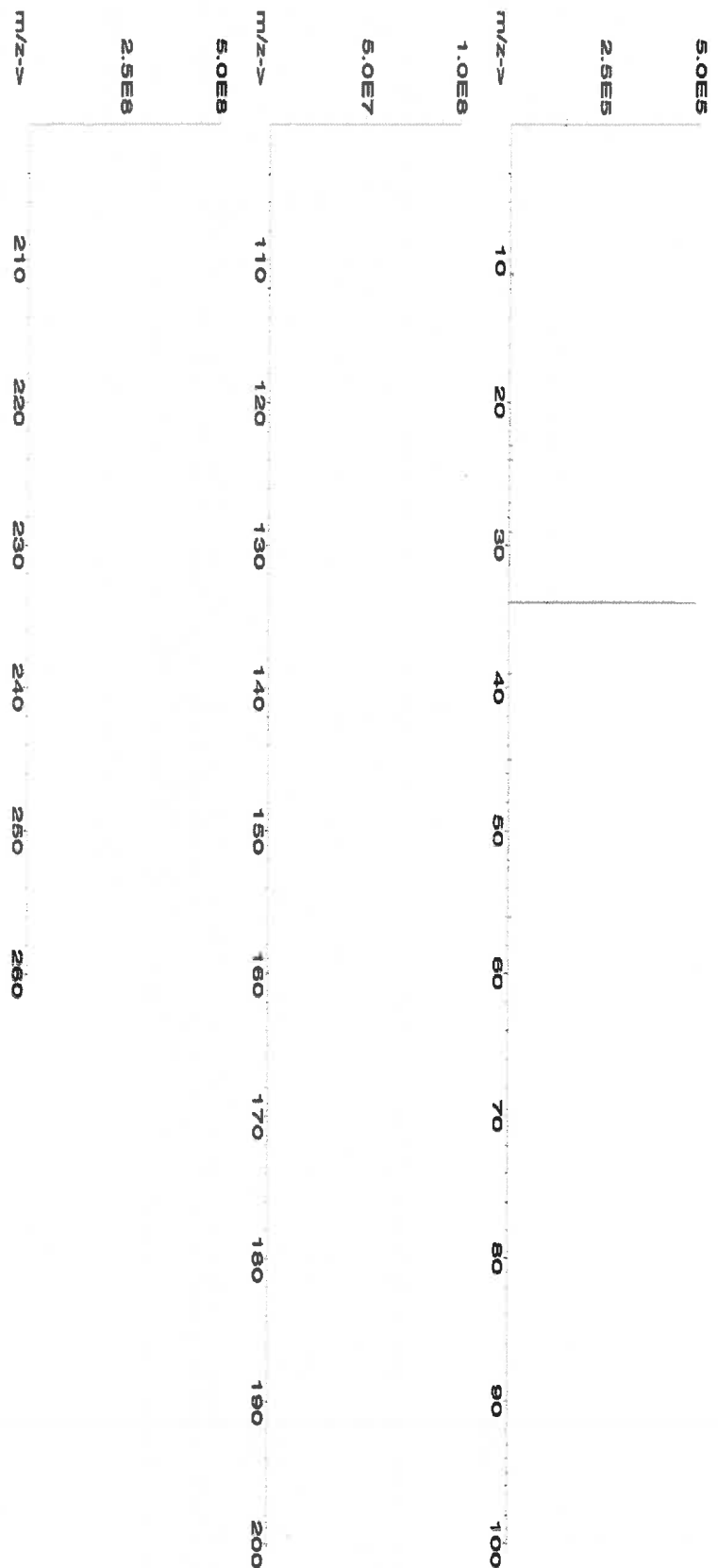
Expiration Date: 122926  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 1000  
NIST Test Number: 6L7B  
Weight shown below was diluted to (mL): 4000.0  
SE-05 Balance Uncertainty  
0.06 Flask Uncertainty

**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) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|-----|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|-----|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Ammonium sulfate (S) IN117 SLBR225V 1000 99.9 0.10 24.3 16.4979 16.4980 1000.0 2.0 7783-20-2 NA 0.01-0.02 4250mg/kg 3181

[1] Spectrum No. 1 [33.603 sec]: 57016.D# [Count] [Linear]





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U  | <0.02 |
| As | <0.2  | Ce | <0.02 | Ba | <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 | Ru | <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 | S  | <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 | Ta | <0.02 | Ti | <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).



**CERTIFIED WEIGHT REPORT:**

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

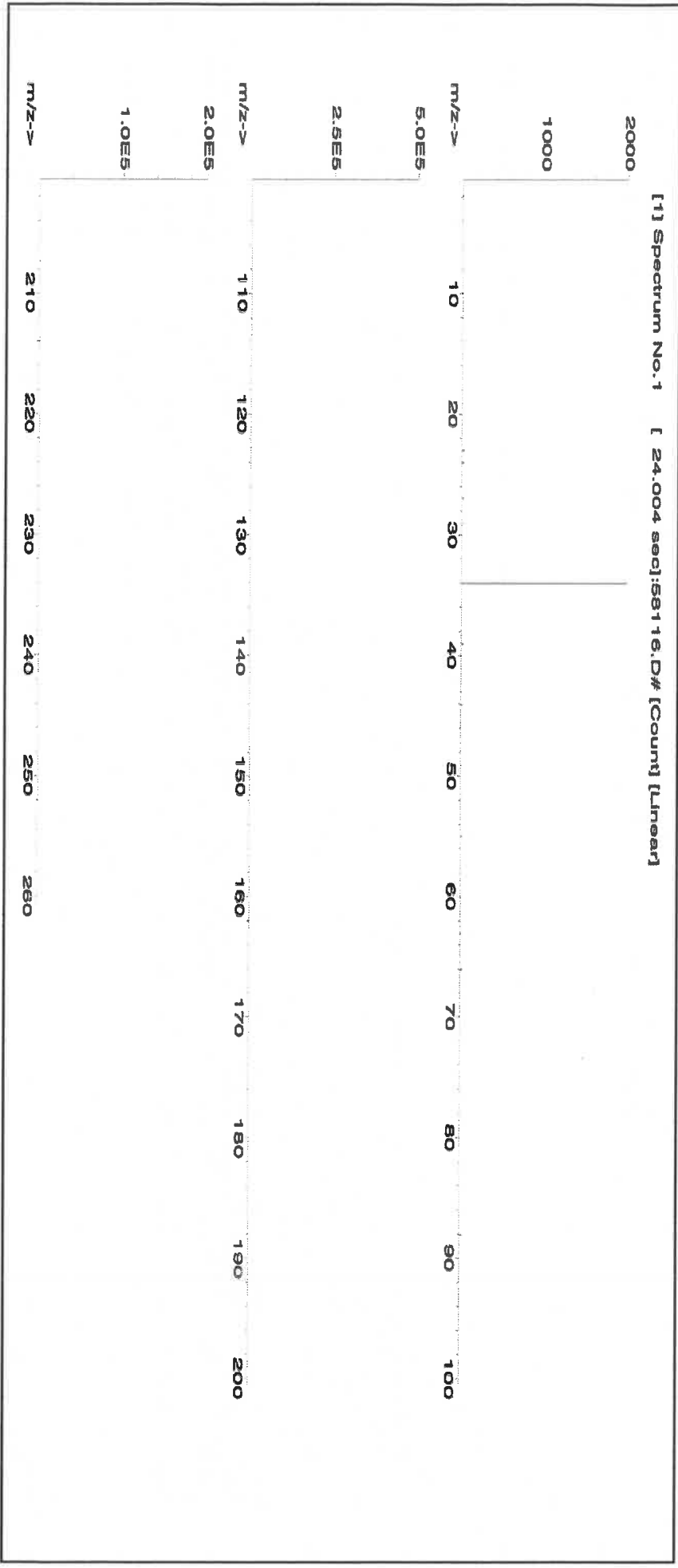
Solvent: **071123** Lot #  
ASTM Type 1 Water

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

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

| SDS Information |        |               |        |             |       |            |            |               |                              |
|-----------------|--------|---------------|--------|-------------|-------|------------|------------|---------------|------------------------------|
| Compound        | Lot    | Nominal       | Purity | Uncertainty | Assay | Target     | Actual     | Actual        | Expanded                     |
|                 | Number | Conc. (µg/mL) | (%)    | Purity (%)  | (%)   | Weight (g) | Weight (g) | Conc. (µg/mL) | +/- (µg/mL)                  |
|                 |        |               |        |             |       |            |            |               | CAS# OSHA PEL (TWA) LD50 SRM |

|                         |       |          |       |      |      |      |         |         |         |      |           |    |                |      |
|-------------------------|-------|----------|-------|------|------|------|---------|---------|---------|------|-----------|----|----------------|------|
| 1. Ammonium sulfate (S) | IN117 | SLBR725V | 10000 | 99.9 | 0.10 | 24.3 | 82.4675 | 82.4692 | 10000.1 | 20.0 | 7783-20-2 | NA | oral 4250mg/kg | 3181 |
|-------------------------|-------|----------|-------|------|------|------|---------|---------|---------|------|-----------|----|----------------|------|





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | <0.2  | Tm | <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 | Sn | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | T     | Ti | <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 |

**Physical Characterization:**

(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).



**CERTIFIED WEIGHT REPORT:**

Part Number: **57014**  
Lot Number: **122023**  
Description: **Silicon (Si)**

Solvent: **24002546** Nitric Acid

Lot #

Formulated By: *Aleah O Brady*  
Reviewed By: *Pedro L. Rentas*

122023

761

Expiration Date: **122026**

2% 40.0 (mL)

Nitric Acid

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

5E-05 Balance Uncertainty

Weight shown below was diluted to (mL): **1999.48** 0.058 Flask Uncertainty

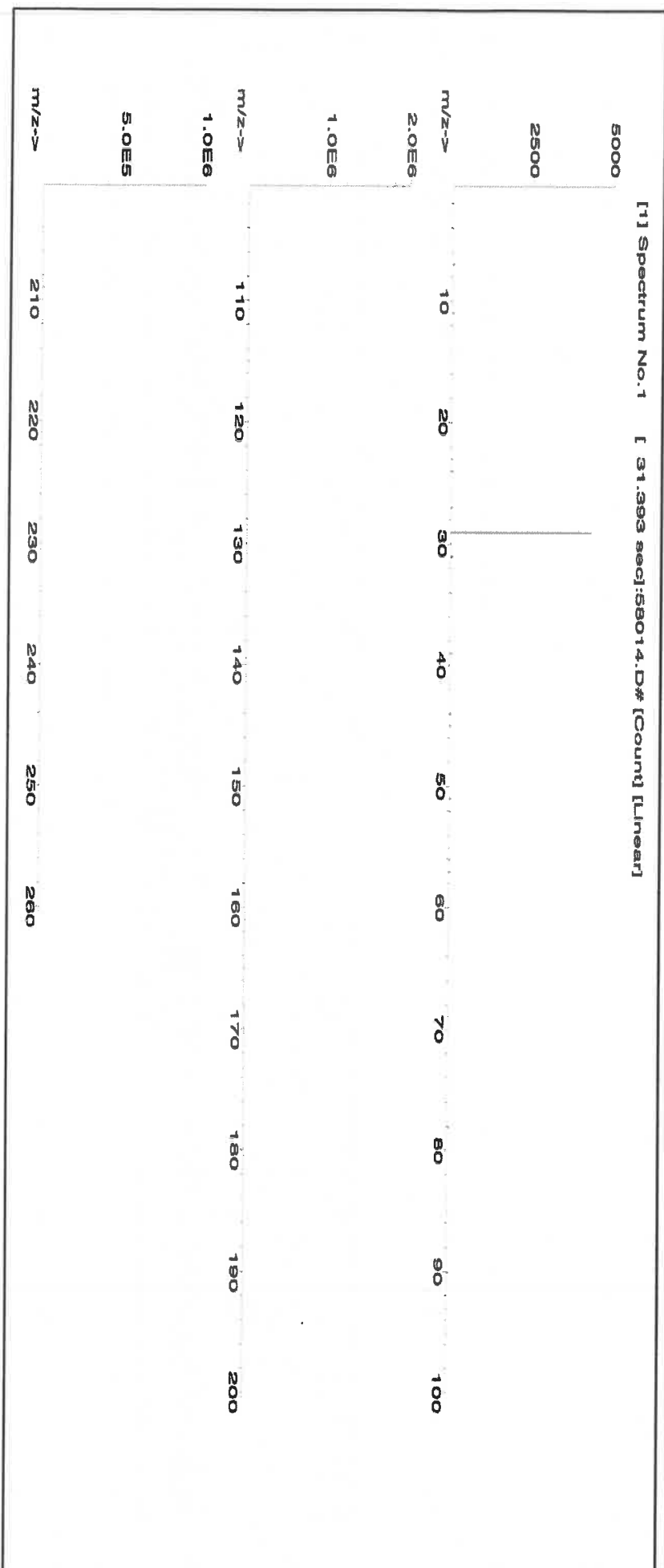
**SDS Information**

**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) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Ammonium hexafluorosilicate (Si) IN009 S1D08022A1 1000 99.999 0.10 14.4 13.8854 13.8855 1000.0 2.0 18919-19-0 2.5 mg/m3 or 1-mus 70 mg/kg NA

[1] Spectrum No. 1 [ 31.393 sec; 158014.D# [Count] [Linear]







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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | T     | Te | <0.02 | U  | <0.02 |
| As | <0.2  | Ce | <0.02 | Bu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Ru | <0.02 | Ag | <0.02 | Ti | <0.02 | V  | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | 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)

**Solvent:** 24002546 Nitric Acid

**Lot #** R: 02109124 MS819

**2%** 60.0 (mL) Nitric Acid

**Expiration Date:** 111626

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 1000

**NIST Test Number:** 6UTB

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

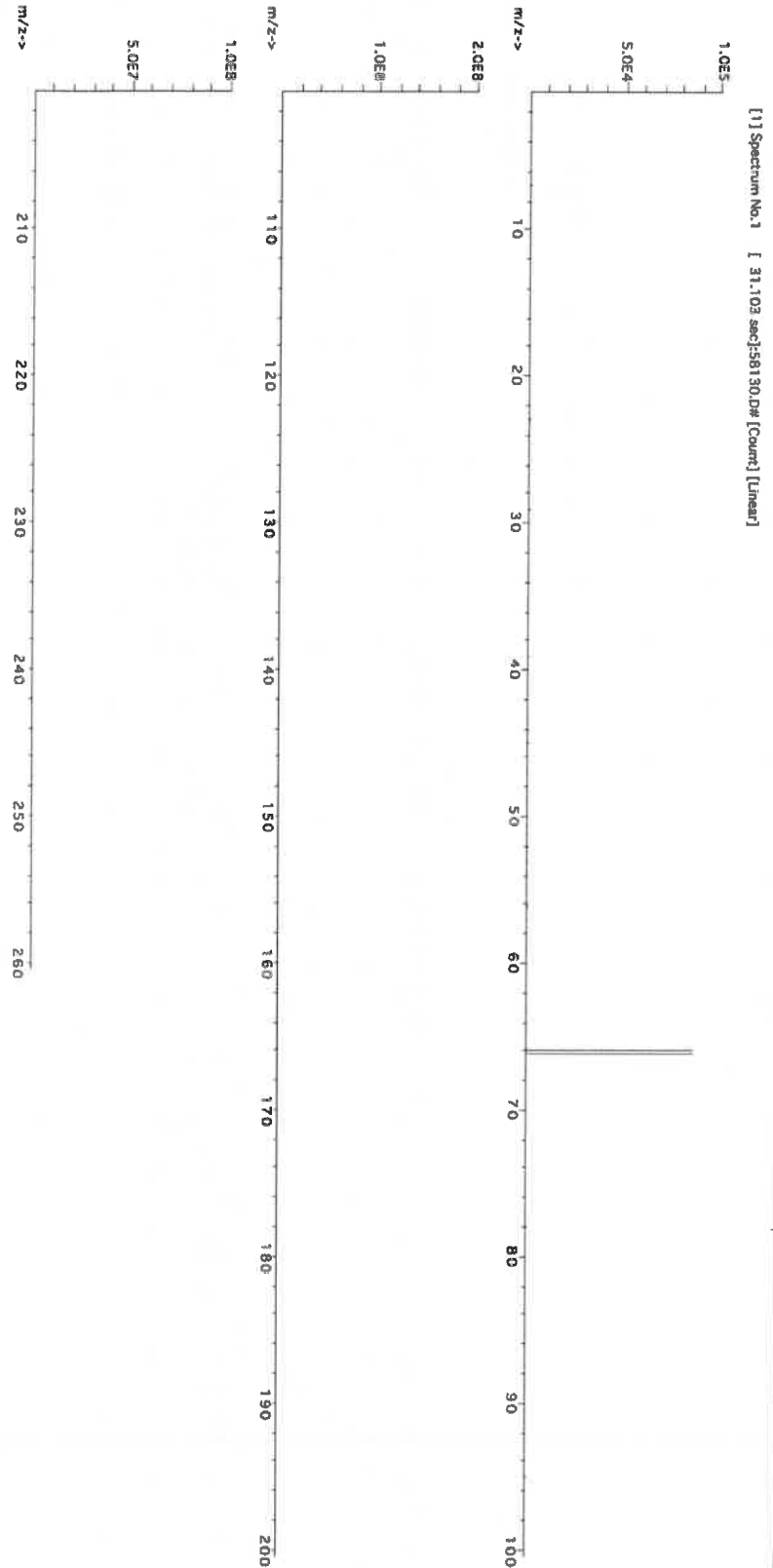
5E-05 Balance Uncertainty

0.06 Flask Uncertainty

|                |                 |
|----------------|-----------------|
|                |                 |
| Formulated By: | Benson Chan     |
|                | 111623          |
|                |                 |
| Reviewed By:   | Pedro L. Reitas |
|                | 111623          |

| Compound | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LDSO | NIST SRM |
|----------|------------|-----------------------|------------|------------------------|------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|----------|------------|-----------------------|------------|------------------------|------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Zinc nitrate hexahydrate (Zn) IN016 ZNE03021A1 1000 99.999 0.10 24.3 12.3475 12.3502 1000.2 2.0 10196-18-6 1 mg/mL 3168 or-rat 1190mg/kg





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

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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: **57015**  
Lot Number: **091123**  
Description: **Phosphorous (P)**

Solvent: **24002546 Nitric Acid**

Lot #

R: 02109124 M5820

Expiration Date: **091126**  
Recommended Storage: **Ambient (20 °C)**  
Nominal Concentration (µg/mL): **1000**  
NIST Test Number: **6LJB**

2% 40.0 (mL) Nitric Acid

Weight shown below was diluted to (mL): **2000.02** 5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

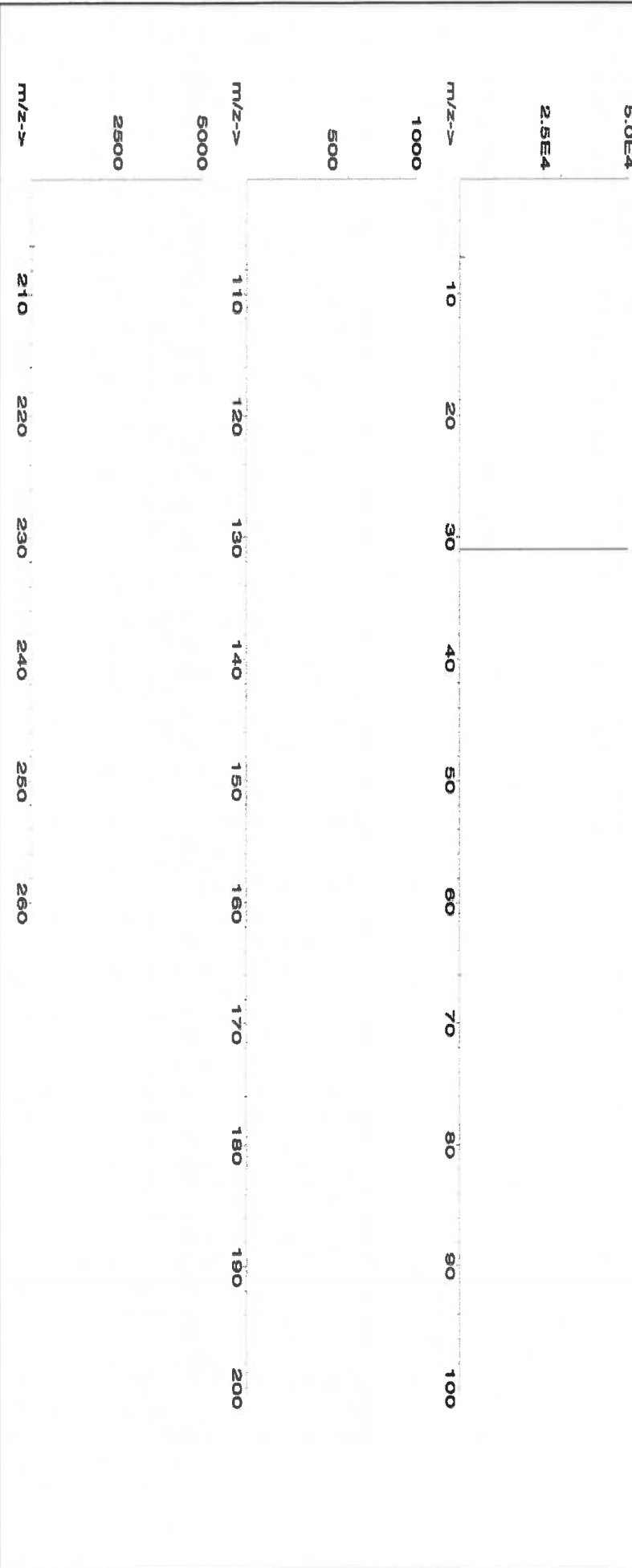
|                |                 |
|----------------|-----------------|
|                |                 |
| Formulated By: | Lawrence Barry  |
|                |                 |
| Reviewed By:   | Pedro L. Rentas |
| 091123         |                 |

**Compound**

| RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Ammonium dihydrogen phosphate (P) IN008 PVO62019A1 1000 99.999 0.10 27.5 7.2729 7.2730 1000.0 2.0 7722-76-1 5 mg/m3 xH-rat >2000mg/kg 3186

[1] Spectrum No.1 [ 12.074 sec]:58115.D# [Count] [Linear]





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2  | Tb | <0.02 | W  | <0.02 |
| Sb | <0.02 | Ca | <0.2  | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | 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  | T     | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sa | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

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

Certified by:

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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).

M5959 R: 6/14/24

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Christiansburg, VA 24073 USA  
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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) HNO<sub>3</sub>  
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<br>EDTA NIST SRM 928 Lot Number: 928           |
| Assay Method #2 | 9997 ± 50 µg/mL<br>ICP Assay NIST SRM 3167a Lot Number: 190730  |
| Assay Method #3 | 9984 ± 31 µg/mL<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

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

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

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

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

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

$X_i$  = 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:

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

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = 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

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

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$  = mean of Assay Method A with

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

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

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

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

|        |          |        |          |        |          |        |          |        |          |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.004600 | M Eu   | 0.009037 | M Na   | 0.086360 | M Se < | 0.005200 | M Zn   | 0.030125 |
| M Al   | 0.014862 | O Fe   | 0.002410 | M Nb < | 0.000570 | O Si   | 0.024100 | O Zr < | 0.002600 |
| M As < | 0.003500 | M Ga < | 0.000570 | M Nd   | 0.000923 | M Sm   | 0.000461 |        |          |
| M Au < | 0.001700 | M Gd < | 0.003500 | M Ni < | 0.005700 | M Sn < | 0.002300 |        |          |
| O B    | 0.002209 | M Ge < | 0.005200 | M Os < | 0.001200 | M Sr < | 0.004600 |        |          |
| O Ba < | 0.002500 | M Hf < | 0.000570 | n P <  |          | M Ta < | 0.000570 |        |          |
| O Be < | 0.001400 | M Hg < | 0.000570 | M Pb   | 0.005020 | M Tb   | 0.001044 |        |          |
| M Bi < | 0.003500 | M Ho   | 0.009037 | M Pd < | 0.005100 | M Te < | 0.002300 |        |          |
| O Ca   | 0.009841 | M In < | 0.002300 | M Pr < | 0.002300 | M Th < | 0.000570 |        |          |
| M Cd < | 0.000570 | M Ir < | 0.000570 | M Pt < | 0.000570 | M Ti < | 0.003500 |        |          |
| M Ce < | 0.002300 | O K    | 0.018677 | M Rb < | 0.000570 | M Tl < | 0.000570 |        |          |
| M Co < | 0.000570 | M La   | 0.000461 | M Re < | 0.000570 | M Tm < | 0.003500 |        |          |
| M Cr < | 0.004000 | O Li < | 0.009300 | M Rh < | 0.008000 | M U <  | 0.000570 |        |          |
| M Cs < | 0.000570 | M Lu   | 0.000582 | M Ru < | 0.000570 | M V    | 0.001265 |        |          |
| M Cu   | 0.002610 | O Mg   | 0.001486 | n S <  |          | M W <  | 0.002300 |        |          |
| M Dy   | 0.003815 | M Mn   | 0.000582 | M Sb   | 0.005422 | s Y <  |          |        |          |
| M Er   | 0.003615 | M Mo < | 0.005700 | M Sc < | 0.001200 | M Yb   | 0.001827 |        |          |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 88.91 +3 6 Y(OH)(H<sub>2</sub>O)<sub>x+2</sub>

**Chemical Compatibility** -Soluble in HCl, H<sub>2</sub>SO<sub>4</sub> and HNO<sub>3</sub>. Avoid HF, H<sub>3</sub>PO<sub>4</sub> 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% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Y Containing Samples (Preparation and Solution)** - Metal (Soluble in acids); Oxide (Dissolve by heating in H<sub>2</sub>O / HNO<sub>3</sub>); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H<sub>2</sub>O / HCl or HNO<sub>3</sub>).

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

| Technique/Line     | Estimated D.L.         | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---------------------------------------------|
| ICP-MS 89 amu      | 0.8 ppt                | N/A   | 73Ge16O, 178Hf+2                            |
| ICP-OES 360.073 nm | 0.005 / 0.000036 µg/mL | 1     | Ce, Th                                      |
| ICP-OES 371.030 nm | 0.004 / 0.00007 µg/mL  | 1     | Ce                                          |
| ICP-OES 377.433 nm | 0.005 / 0.0009 µg/mL   | 1     | Ta, Th                                      |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01



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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

February 20, 2024

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

### 11.2 Lot Expiration Date

- February 20, 2029

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Prepared By:

Uyen Truong  
Custom Processing Supervisor



### Certificate Approved By:

Muzzammil Khan  
Stock Laboratory Supervisor



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





## Certified Reference Material CRM

M5960

KK R. 6/11/24

ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
<https://AbsoluteStandards.com>

## CERTIFIED WEIGHT REPORT:

Part Number:

57028

Lot Number:

041124

Description:

Nickel (Ni)

Expiration Date:

041127

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

249.85

5E-05 Balance Uncertainty

0.002 Flask Uncertainty

Lot #

Solvent: 24002546 Nitric Acid

2% 5.0 Nitric Acid

(mL)

## SDS Information

Expanded

| Uncertainty | (Solvent Safety Info, On Attached pg.) | NIST |
|-------------|----------------------------------------|------|
| +/- (µg/mL) | CAS# OSHA PEL (TWA)                    | SRM  |

Actual

Actual

Target

Assay

Purity (%)

Nominal

Lot

RM#

Conc. (µg/mL)

Purity (%)

Uncertainty

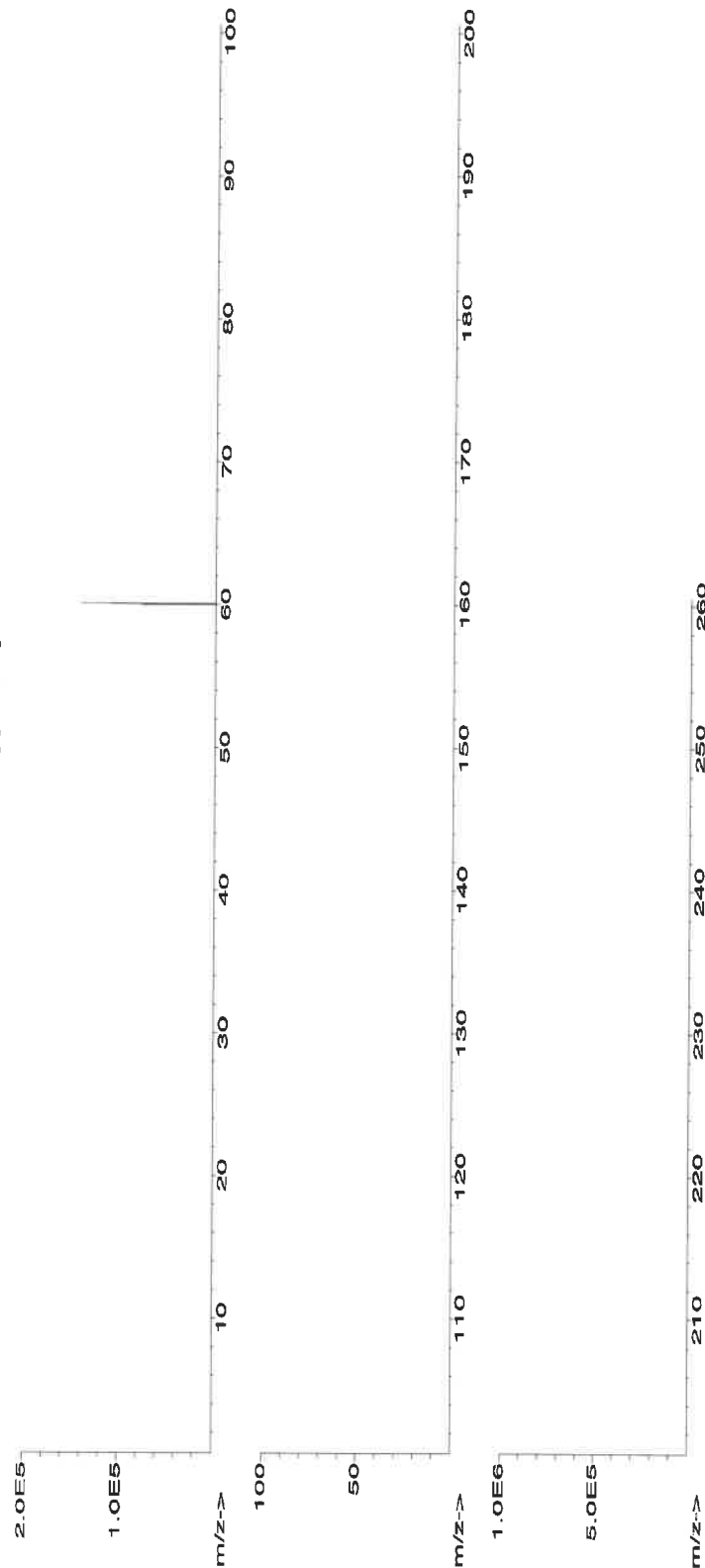
Weight (g)

Conc. (µg/mL)

Actual

|                                        |                   |      |        |      |      |        |        |        |     |            |         |                   |      |
|----------------------------------------|-------------------|------|--------|------|------|--------|--------|--------|-----|------------|---------|-------------------|------|
| 1. Nickel(II) nitrate hexahydrate (Ni) | IN033 NIM052023A1 | 1000 | 99.999 | 0.10 | 20.2 | 1.2369 | 1.2369 | 1000.0 | 2.0 | 13478-00-7 | 1 mg/m3 | or-rat 1620 mg/kg | 3136 |
|----------------------------------------|-------------------|------|--------|------|------|--------|--------|--------|-----|------------|---------|-------------------|------|

[1] Spectrum No.1 [ 12.374 sec]:58128.D# [Count] [Linear]



771



**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 | <0.02 | 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 | <0.02 | 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  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Se | <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**  
**M5962** **R10614124**



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

**CERTIFIED WEIGHT REPORT:**

**Part Number:** 57034  
**Lot Number:** 060624  
**Description:** Selenium (Se)

**Lot #** 24002546  
**Solvent:** Nitric Acid

2.0% 40.0 (mL) Nitric Acid

**Expiration Date:** 060627

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 1000

**NIST Test Number:** 6UTB

**Volume shown below was diluted to (mL):** 2000.07

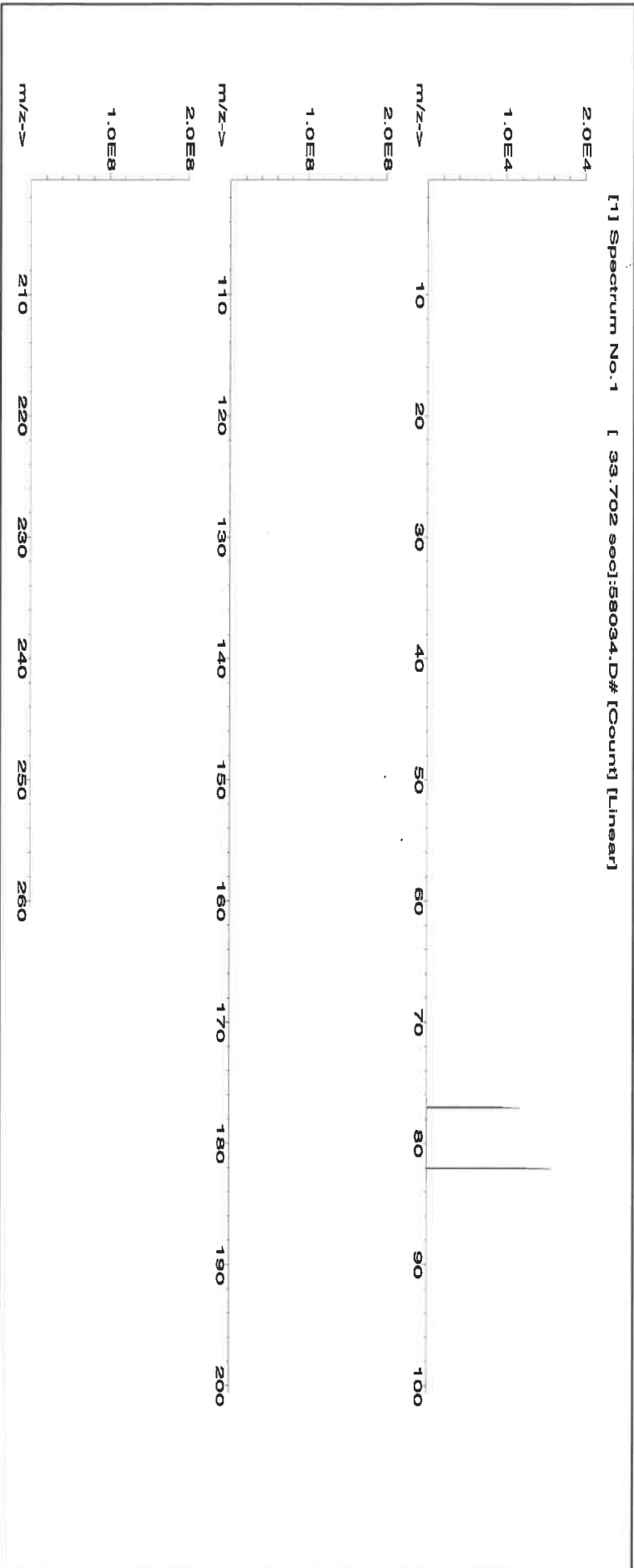
SE-05 Balance Uncertainty  
0.100 Flask Uncertainty

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

| SDS Information  |             |            |                 |                   |                          |                       |                       |                     |                                  |
|------------------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|
| 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) |
| 1. Selenium (Se) | 58134       | 071223     | 0.1000          | 200.0             | 0.084                    | 1000                  | 10002.5               | 1000.0              | 2.2                              |

(Solvent Safety Info. On Attached pg.) CAS# OSHA PEL (TWA) LDSO NIST SRM

7782-49-2 0.2 mg/m3 or-lral 6700 mg/kg 3149





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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pt | <0.02 | Se | T     | Tb | 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 | 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 | V  | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Ru | <0.02 | Na | <0.2  | Th | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Sr | <0.02 | S  | <0.02 | Tm | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | Ta | <0.02 | Sn | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 |    | <0.02 | Ti | 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).

Absolute Standards, Inc.  
800-368-1131  
www.absolute-standards.com



Certified Reference Material CRM

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

CERTIFIED WEIGHT REPORT:

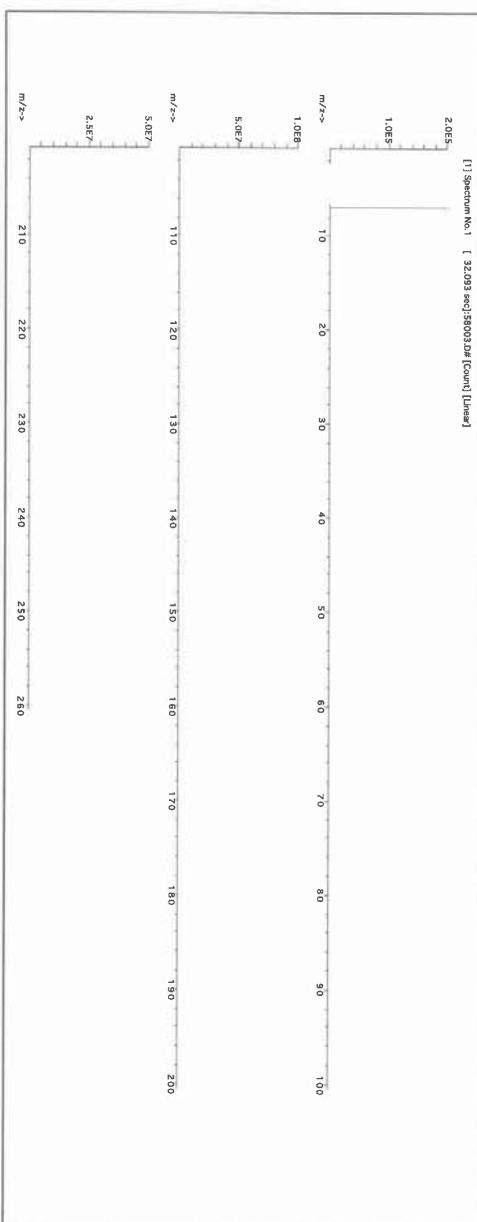
Part Number: 57003  
Lot Number: 062124  
Description: Lithium (Li)  
Expiration Date: 06/27  
Recommended Storage: Ambient (20 °C)  
Nominal Concentration (µg/mL): 1000  
NIST Test Number: 6UTB  
Volume shown below was diluted to (mL): 250.11  
SE-05 Balance Uncertainty  
0.016 Flask Uncertainty

Lot # 24002546  
Solvent: Nitric Acid

2.0% 5.0 (mL) Nitric Acid

|                                 |        |
|---------------------------------|--------|
| Microvial Capable               |        |
| Formulated By:                  | 062124 |
| Giovanni Esposito               |        |
| Reviewed By: <i>[Signature]</i> |        |
| Pietro L. Parias                | 062124 |

| Compound                |  | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty | Initial Conc. (µg/mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty | SDS Information                   | NIST |
|-------------------------|--|-------------|------------|-----------------|-------------------|-------------|-----------------------|-----------------------|-----------------------|---------------------|----------------------|-----------------------------------|------|
| 1. Lithium nitrate (Li) |  | 58103       | 070622     | 0.1000          | 25.0              | 0.004       | 1000                  | 1000.0                | 10000.4               | 1000.0              | 2.0                  | 7790-68-4 5 mg/mL 5 mL 1428 mg/kg | NA   |



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**Certified Reference Material CRM**



ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
<https://AbsoluteStandards.com>

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

| Trace Metals Verification by ICP-MS (µg/mL) |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|---------------------------------------------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al                                          | <0.02 | Ca | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.02 | Si | <0.02 | Tb | <0.02 |
| Sb                                          | <0.02 | Ce | <0.02 | Er | <0.02 | In | <0.02 | Mg | <0.02 | Nb | <0.02 | Rb | <0.02 | Sn | <0.02 | Ag | <0.02 | Ti | <0.02 |
| As                                          | <0.2  | Ce | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rh | <0.02 | Sr | <0.02 | Ar | <0.02 | Th | <0.02 |
| Ba                                          | <0.02 | Cr | <0.02 | Ga | <0.02 | Te | <0.2  | Hg | <0.2  | P  | <0.02 | Bu | <0.02 | Sr | <0.02 | Ar | <0.02 | Yb | <0.02 |
| Be                                          | <0.01 | Co | <0.02 | Ge | <0.02 | Ta | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Ar | <0.02 | Y  | <0.02 |
| Bi                                          | <0.02 | Cu | <0.02 | Au | <0.02 | Ta | <0.02 | Mo | <0.02 | K  | <0.2  | Se | <0.02 | Ta | <0.02 | Ar | <0.02 | Sn | <0.02 |
| B                                           | <0.02 | Cu | <0.02 | Au | <0.02 | Ta | <0.02 | Mo | <0.02 | Se | <0.02 | Se | <0.02 | Ta | <0.02 | Ar | <0.02 | Tl | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | Zn | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | Zn | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

*[Signature]*

- \* 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).

## 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: CGMO1  
Lot Number: T2-MO720876  
Matrix: H2O  
tr. NH4OH  
Value / Analyte(s): 1 000 µg/mL ea:  
Molybdenum  
Starting Material: Ammonium Molybdate  
Starting Material Lot#: 2361  
Starting Material Purity: 99.9893%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL  
**Density:** 1.000 g/mL (measured at 20 ± 4 °C)  
**Assay Information:**

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

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

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

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

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

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

$X_i$  = 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.

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = 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

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

$u_{ts}$  = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$  = mean of Assay Method A with

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

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

$u_{ts}$  = transport stability standard uncertainty



#### 4.0 TRACEABILITY TO NIST

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

##### 4.1 Thermometer Calibration

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

##### 4.2 Balance Calibration

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

##### 4.3 Glassware Calibration

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

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

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

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

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

#### 6.0 INTENDED USE

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

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

##### 7.1 Storage and Handling Recommendations

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

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

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

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 95.94 +6 6,7,8,9

[MoO4]-2(chemical form as received)

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

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

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

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

| Technique/Line     | Estimated D.L.       | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---------------------------------------------|
| ICP-MS 95 amu      | 3 ppt                | n/a   | 40Ar39K16O,79Br16O,190Os2+,190Pt2+          |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1     | Os, Hf                                      |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL  | 1     |                                             |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL  | 1     | Ir, Ta                                      |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.569.6799; 540.585.3030, Fax: 540.585.3012; [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

July 17, 2022

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

### 11.2 Lot Expiration Date

- July 17, 2027

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0

### NAMES AND SIGNATURES OF CERTIFYING OFFICERS

#### Certificate Prepared By:

Uyen Truong  
Supervisor, Product Documentation



#### Certificate Approved By:

Michael Booth  
Director, Technical



#### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director



# Certificate of Analysis

M5978, M5979



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**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).

## 1.0 ACCREDITATION / REGISTRATION

## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution

Catalog Number: CGT1

Lot Number: T2-T1719972

Matrix: 2% (v/v) HNO<sub>3</sub>

Value / Analyte(s): tr. HF

1 000 µg/mL ea.

Titanium

Ti Metal

Starting Material Lot#: 2094

Starting Material Purity: 99.9975%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL

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

## Assay Method #1

1002 ± 4 µg/mL

ICP Assay NIST SRM 3162a Lot Number: 130925

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

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

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

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

$X_{CRM/RM} = (k_p) (U_{char})$

$X_p$  = mean of Assay Method A with

$U_{char} =$  the standard uncertainty of characterization Method A

$k =$  coverage factor = 2

$U_{char} = [(2/(n-1)) \sum (U_{char,i})^2]^{1/2}$  where  $U_{char,i}$  are the errors from each characterization method

$U_{pb} =$  bottle to bottle homogeneity standard uncertainty

$U_{lb} =$  long term stability standard uncertainty (storage)

$U_{sp} =$  transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

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

4.1 Thermometer Calibration

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

4.2 Balance Calibration

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

4.3 Glassware Calibration

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

5.0

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

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

|      |          |          |      |          |          |      |          |          |          |          |          |          |          |
|------|----------|----------|------|----------|----------|------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | <        | 0.000536 | M Eu | <        | 0.000268 | O Na | <        | 0.032670 | M Se     | 0.001204 | O Zn     | <        | 0.003267 |
| O Al | 0.000872 | O Fe     | <    | 0.003225 | O Nb     | <    | 0.043560 | O Si     | 0.004735 | O Zr     | <        | 0.043560 |          |
| M As | <        | 0.008586 | M Ga | <        | 0.000268 | M Nd | <        | 0.000268 | M Sm     | <        | 0.000268 |          |          |
| M Au | <        | 0.004577 | M Gd | <        | 0.000268 | O Ni | <        | 0.010890 | M Sn     | <        | 0.000986 |          |          |
| O B  | <        | 0.008929 | M Ge | <        | 0.002146 | M Os | <        | 0.000268 | O Sr     | <        | 0.000986 |          |          |
| M Ba | <        | 0.002683 | M Hf | <        | 0.002161 | O P  | <        | 0.054450 | M Ta     | <        | 0.010560 |          |          |
| M Be | <        | 0.005366 | M Hg | <        | 0.003231 | M Pb | <        | 0.001073 | M Tb     | <        | 0.000268 |          |          |
| M Bi | <        | 0.001609 | M Ho | <        | 0.000268 | M Pd | <        | 0.000268 | M Th     | <        | 0.001341 |          |          |
| O Ca | 0.000676 | M In     | <    | 0.002683 | M Pr     | <    | 0.000268 | M Tl     | <        | 0.053663 |          |          |          |
| M Cd | <        | 0.000268 | M Ir | <        | 0.000269 | M Pt | <        | 0.000536 | S Ti     | <        |          |          |          |
| M Co | <        | 0.000268 | M K  | <        | 0.001172 | M Rb | <        | 0.000268 | M Tl     | <        | 0.000268 |          |          |
| M Cr | 0.000752 | O Li     | <    | 0.000268 | M Re     | <    | 0.000268 | M Tm     | <        | 0.000268 |          |          |          |
| M Cs | <        | 0.000268 | M Lu | <        | 0.000268 | M Rh | <        | 0.000268 | M U      | <        | 0.000268 |          |          |
| O Cu | <        | 0.010890 | O Mg | <        | 0.005445 | I S  | <        | 0.006976 | M Y      | <        | 0.002146 |          |          |
| M Dy | <        | 0.000268 | O Mn | <        | 0.003267 | M Sb | <        | 0.004900 | M Yb     | <        | 0.000536 |          |          |
| M Er | <        | 0.000268 | M Mo | <        | 0.000774 | O Sc | <        |          |          |          |          |          |          |

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](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence:** Soluble in concentrated HCl, HF, H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub> and HNO<sub>3</sub>. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F<sup>-</sup> away (i.e. Do not mix with Alkaline or Rare

**Stability:** - 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)<sub>6</sub>-2 for months in 1% HNO<sub>3</sub> / LDPE container. - 1-10,000 ppm single element solutions as the Ti(F)<sub>6</sub>-2 chemically stable for years in

**TI Containing Samples (Preparation and Solution) - Metal (Soluble in H<sub>2</sub>O / HF caution - powder reacts violently):** Oxide - high temperature history or rutile (Dissolved by heating in 1:1:1 H<sub>2</sub>O / HF / H<sub>2</sub>SO<sub>4</sub>);

**K<sub>2</sub>S<sub>2</sub>O<sub>7</sub> - no KF if silica not present):** Organic Matrices (Dry ash at 450EC in P10 and dissolve by heating with 1:1:1 H<sub>2</sub>O / HF / H<sub>2</sub>SO<sub>4</sub> or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):** Estimated D.L. 14 ppt

**Technique/Line** ICP-MS 48 amu

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

**HAZARDOUS INFORMATION**

**8.0**

**9.0**

**10.0**

**QUALITY STANDARD DOCUMENTATION**

**10.1 ISO 9001 Quality Management System Registration**

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

**Chemical Testing - Accredited / A2LA Certificate Number 883.01**

**QSR Certificate Number QSR-1034**

**Page 3 of 4**

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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY  
Inorganic Ventures, 300 Technology Drive, Chesapeake, VA 24073, USA. Telephone: 800.868.6786; 540.565.3030; Fax: 540.565.3012; [info@inorganicventures.com](mailto:info@inorganicventures.com)

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.1 Certification Issue Date

June 17, 2022

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

11.2 Lot Expiration Date

- June 17, 2027

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

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

11.3 Period of Validity

- Sealed TCT Bag Open Date:

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

12.0

NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozlikowski  
Manager, Quality Control

*809784*

Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director

*Paul R. Gaines*



Certified Reference Material CRM



45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

Part Number:  
Lot Number:  
Description:

57038  
031524  
Strontium (Sr)

Solvent: 24002546 Nitric Acid

Expiration Date:  
Recommended Storage:  
Nominal Concentration (µg/mL):  
NIST Test Number:

031527  
Ambient (20 °C)  
1000  
6UTB  
5E-05 Balance Uncertainty  
0.100 Flask Uncertainty

Weight shown below was diluted to (mL): 2000.07

Lot #

2% 40.0 Nitric Acid  
(mL)

|                |                 |        |
|----------------|-----------------|--------|
| Formulated By: | Benson Chan     | 031524 |
| Reviewed By:   | Pedro L. Rentas | 031524 |

SDS Information

Expanded

Uncertainty

(Solvent Safety Info. On Attached pg.)

+/- (µg/mL)

LD50

CAS#

OSHA PEL (TWA)

Actual

Conc. (µg/mL)

Actual

Weight (g)

Target

Weight (g)

Assay

Purity (%)

Purity (%)

Nominal

Conc. (µg/mL)

Lot

Number

RM#

IN017

SR202018A1

1000

89.997

0.10

41.2

4.85470

4.85502

1000.1

2.0

10042-76-9

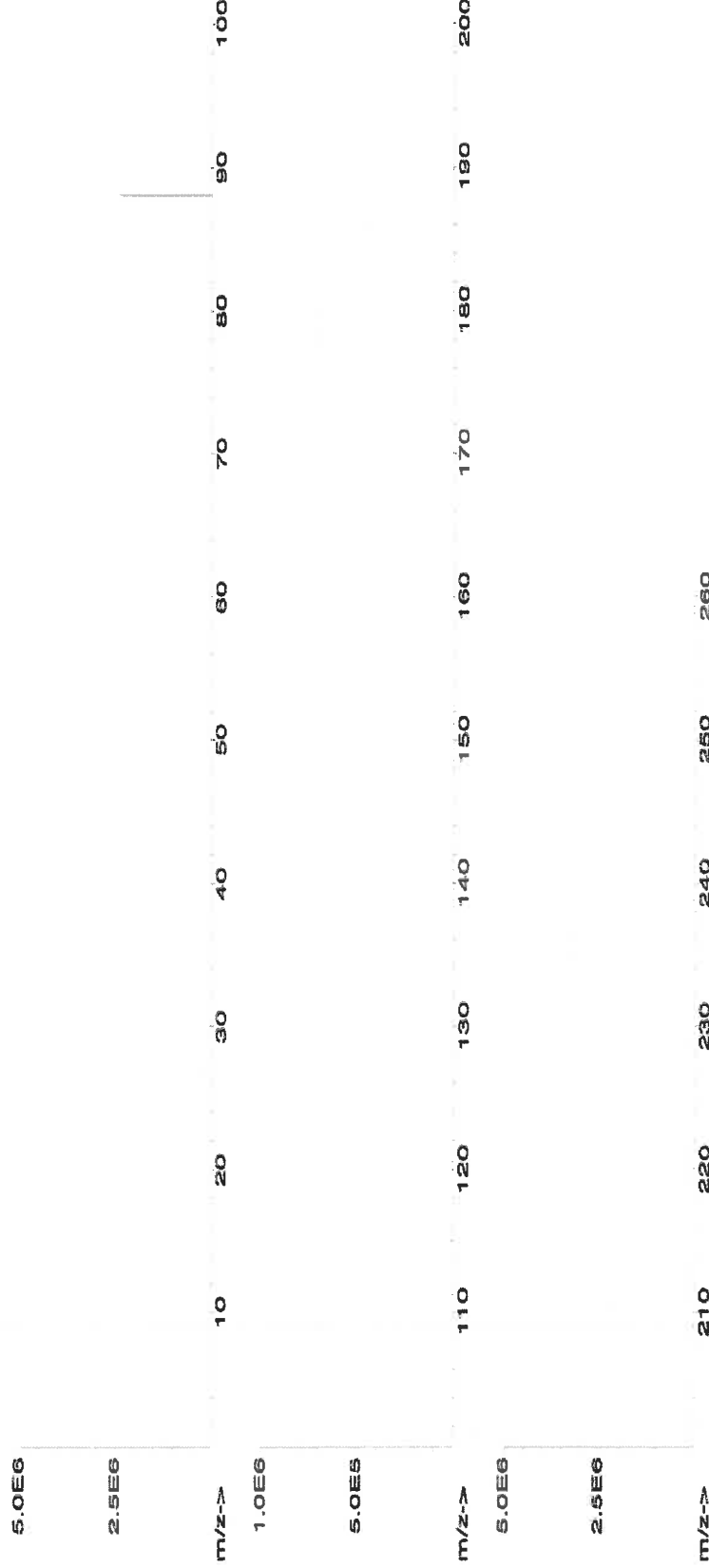
NA

orl-rat >2000mg/kg

3153a

1. Strontium nitrate (Sr)

[1] Spectrum No.1 [ 14.495 sec]:58136.D# [Count] [Linear]



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

| Trace Metals Verification by ICP-MS (µg/mL) |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|---------------------------------------------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al                                          | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | <0.02 | Os | <0.01 | 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  | Th | <0.02 |
| Be                                          | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.02 | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | T     | 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 | Sn | <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 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | W  | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | U  | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | V  | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | Yb | <0.02 |
|                                             |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       | Y  | <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:

*[Signature]*

- \* 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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2024 JUN 7 10:01 AM

# Certificate of Analysis

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Christiansburg, VA 24073 USA  
inorganicventures.com

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

M5984  
R: 6/14/24

## 1.0 ACCREDITATION / REGISTRATION

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



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGY10  
Lot Number: V2-Y740548  
Matrix: 2% (v/v) HNO<sub>3</sub>  
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<br>EDTA NIST SRM 928 Lot Number: 928           |
| Assay Method #2 | 9997 ± 50 µg/mL<br>ICP Assay NIST SRM 3167a Lot Number: 190730  |
| Assay Method #3 | 9984 ± 31 µg/mL<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

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

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

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

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

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

$X_i$  = 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:

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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k(u_{char}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

$k$  = 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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k(u_{char a}^2 + u_{bb}^2 + u_{ts}^2 + u_{ts}^2)^{1/2}$$

$k$  = 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 (µg/mL)

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

|   |    |          |          |    |          |          |          |          |          |          |          |          |          |          |          |          |
|---|----|----------|----------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M | Ag | <        | 0.004600 | M  | Eu       | 0.009037 | M        | Na       | 0.086360 | M        | Se       | <        | 0.005200 | M        | Zn       | 0.030125 |
| M | Al | 0.014862 | O        | Fe | 0.002410 | M        | Nb       | <        | 0.000570 | O        | Si       | 0.024100 | O        | Zr       | <        | 0.002600 |
| M | As | <        | 0.003500 | M  | Ga       | <        | 0.000570 | M        | Nd       | 0.000923 | M        | Sm       | 0.000461 |          |          |          |
| M | Au | <        | 0.001700 | M  | Gd       | <        | 0.003500 | M        | Ni       | <        | 0.005700 | M        | Sn       | <        | 0.002300 |          |
| O | B  | 0.002209 | M        | Ge | <        | 0.005200 | M        | Os       | <        | 0.001200 | M        | Sr       | <        | 0.004600 |          |          |
| O | Ba | <        | 0.002500 | M  | Hf       | <        | 0.000570 | n        | P        | <        |          | M        | Ta       | <        | 0.000570 |          |
| O | Be | <        | 0.001400 | M  | Hg       | <        | 0.000570 | M        | Pb       | 0.005020 | M        | Tb       | 0.001044 |          |          |          |
| M | Bi | <        | 0.003500 | M  | Ho       | 0.009037 | M        | Pd       | <        | 0.005100 | M        | Te       | <        | 0.002300 |          |          |
| O | Ca | 0.009841 | M        | In | <        | 0.002300 | M        | Pr       | <        | 0.002300 | M        | Th       | <        | 0.000570 |          |          |
| M | Cd | <        | 0.000570 | M  | Ir       | <        | 0.000570 | M        | Pt       | <        | 0.000570 | M        | Ti       | <        | 0.003500 |          |
| M | Ce | <        | 0.002300 | O  | K        | 0.018677 | M        | Rb       | <        | 0.000570 | M        | Tl       | <        | 0.000570 |          |          |
| M | Co | <        | 0.000570 | M  | La       | 0.000461 | M        | Re       | <        | 0.000570 | M        | Tm       | <        | 0.003500 |          |          |
| M | Cr | <        | 0.004000 | O  | Li       | <        | 0.009300 | M        | Rh       | <        | 0.008000 | M        | U        | <        | 0.000570 |          |
| M | Cs | <        | 0.000570 | M  | Lu       | 0.000582 | M        | Ru       | <        | 0.000570 | M        | V        | 0.001265 |          |          |          |
| M | Cu | 0.002610 | O        | Mg | 0.001486 | n        | S        | <        |          |          | M        | W        | <        | 0.002300 |          |          |
| M | Dy | 0.003815 | M        | Mn | 0.000582 | M        | Sb       | 0.005422 | s        | Y        | <        |          |          |          |          |          |
| M | Er | 0.003615 | M        | Mo | <        | 0.005700 | M        | Sc       | <        | 0.001200 | M        | Yb       | 0.001827 |          |          |          |

M - Checked by ICP-MS

O - Checked by ICP-OES

i - Spectral Interference

n - Not Checked For

s - Solution Standard Element

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution** - 88.91 +3 6 Y(OH)(H<sub>2</sub>O)<sub>x+2</sub>  
**Chemical Compatibility** -Soluble in HCl, H<sub>2</sub>SO<sub>4</sub> and HNO<sub>3</sub>. Avoid HF, H<sub>3</sub>PO<sub>4</sub> 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% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**Y Containing Samples (Preparation and Solution)** - Metal (Soluble in acids); Oxide (Dissolve by heating in H<sub>2</sub>O/ HNO<sub>3</sub>); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H<sub>2</sub>O / HCl or HNO<sub>3</sub>).

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

| Technique/Line     | Estimated D.L.         | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---------------------------------------------|
| ICP-MS 89 amu      | 0.8 ppt                | N/A   | 73Ge16O, 178Hf+2                            |
| ICP-OES 360.073 nm | 0.005 / 0.000036 µg/mL | 1     | Ce, Th                                      |
| ICP-OES 371.030 nm | 0.004 / 0.00007 µg/mL  | 1     | Ce                                          |
| ICP-OES 377.433 nm | 0.005 / 0.0009 µg/mL   | 1     | Ta, Th                                      |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

February 20, 2024

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

### 11.2 Lot Expiration Date

- February 20, 2029

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: \_\_\_\_\_

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Prepared By:

Uyen Truong  
Custom Processing Supervisor



### Certificate Approved By:

Muzzammil Khan  
Stock Laboratory Supervisor



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director



# Certificate of Analysis

300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

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

*M5985*  
*R: 6/14/24*

## 1.0 ACCREDITATION / REGISTRATION

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



## 2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution  
Catalog Number: CGIN10  
Lot Number: U2-IN729349  
Matrix: 5% (v/v) HNO<sub>3</sub>  
Value / Analyte(s): 10 000 µg/mL ea:  
Indium  
Starting Material: Indium Metal  
Starting Material Lot#: 2511  
Starting Material Purity: 99.9995%

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL  
Density: 1.044 g/mL (measured at 20 ± 4 °C)

### Assay Information:

|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| Assay Method #1 | 10021 ± 56 µg/mL<br>ICP Assay NIST SRM 3124a Lot Number: 110516  |
| Assay Method #2 | 10035 ± 25 µg/mL<br>EDTA NIST SRM 928 Lot Number: 928            |
| Assay Method #3 | 10001 ± 33 µg/mL<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

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

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

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

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

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

$X_i$  = 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:

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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = 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

$u_{Its}$  = 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

$$CRM/RM \text{ Expanded Uncertainty } (k) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

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

$u_{ts}$  = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

|   |    |          |          |    |          |          |          |    |          |          |          |          |    |          |          |          |   |          |
|---|----|----------|----------|----|----------|----------|----------|----|----------|----------|----------|----------|----|----------|----------|----------|---|----------|
| M | Ag | <        | 0.000760 | M  | Eu       | <        | 0.000760 | O  | Na       | 0.012771 | M        | Se       | <  | 0.023000 | M        | Zn       | < | 0.006100 |
| M | Al | 0.003385 | O        | Fe | 0.004462 | M        | Nb       | <  | 0.000760 | O        | Si       | 0.024619 | M  | Zr       | <        | 0.000760 |   |          |
| M | As | <        | 0.004600 | M  | Ga       | <        | 0.000760 | M  | Nd       | <        | 0.000760 | M        | Sm | <        | 0.000760 |          |   |          |
| M | Au | <        | 0.002300 | M  | Gd       | <        | 0.000760 | O  | Ni       | <        | 0.005100 | M        | Sn | <        | 0.000760 |          |   |          |
| O | B  | 0.003692 | M        | Ge | <        | 0.001600 | M        | Os | <        | 0.000760 | O        | Sr       | <  | 0.000610 |          |          |   |          |
| M | Ba | <        | 0.001600 | M  | Hf       | <        | 0.000760 | n  | P        | <        |          | M        | Ta | <        | 0.000760 |          |   |          |
| O | Be | <        | 0.000130 | M  | Hg       | <        | 0.003100 | M  | Pb       | 0.001400 | M        | Tb       | <  | 0.000760 |          |          |   |          |
| M | Bi | <        | 0.000760 | M  | Ho       | <        | 0.000760 | M  | Pd       | <        | 0.001600 | M        | Te | <        | 0.000760 |          |   |          |
| O | Ca | 0.004616 | s        | In | <        |          |          | M  | Pr       | <        | 0.000760 | M        | Th | <        | 0.000760 |          |   |          |
| M | Cd | <        | 0.000760 | M  | Ir       | <        | 0.000760 | M  | Pt       | <        | 0.000760 | O        | Ti | <        | 0.001100 |          |   |          |
| M | Ce | <        | 0.000760 | O  | K        | 0.007078 | M        | Rb | <        | 0.000760 | M        | Tl       | <  | 0.000760 |          |          |   |          |
| M | Co | <        | 0.000760 | M  | La       | <        | 0.000760 | M  | Re       | <        | 0.000760 | M        | Tm | <        | 0.000760 |          |   |          |
| O | Cr | <        | 0.001300 | O  | Li       | <        | 0.000130 | M  | Rh       | <        | 0.000760 | M        | U  | <        | 0.000760 |          |   |          |
| M | Cs | <        | 0.000760 | M  | Lu       | <        | 0.000760 | M  | Ru       | <        | 0.000760 | M        | V  | <        | 0.001600 |          |   |          |
| M | Cu | <        | 0.003800 | O  | Mg       | 0.000707 | n        | S  | <        |          | M        | W        | <  | 0.001600 |          |          |   |          |
| M | Dy | <        | 0.000760 | O  | Mn       | 0.000149 | M        | Sb | <        | 0.000760 | M        | Y        | <  | 0.000760 |          |          |   |          |
| M | Er | <        | 0.000760 | M  | Mo       | <        | 0.002300 | M  | Sc       | <        | 0.000760 | M        | Yb | <        | 0.000760 |          |   |          |

M - Checked by ICP-MS

O - Checked by ICP-OES

i - Spectral Interference

n - Not Checked For

s - Solution Standard Element

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit [www.inorganicventures.com/TCT](http://www.inorganicventures.com/TCT)

**Atomic Weight; Valence; Coordination Number; Chemical Form In Solution** - 114.82 +3 6 In(H<sub>2</sub>O)<sub>6</sub>+3

**Chemical Compatibility** -Soluble in HCl, HNO<sub>3</sub>, and H<sub>2</sub>SO<sub>4</sub>. 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% HNO<sub>3</sub> / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO<sub>3</sub> / LDPE container.

**In Containing Samples (Preparation and Solution)** -Metal (Best dissolved in HCl / HNO<sub>3</sub>); 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



# Certificate of Analysis

300 Technology Drive  
Christiansburg, VA 24073 USA  
inorganicventures.com

*R: 2/22/2024*  
*M5999*

P: 800-669-6799/540-585-3030

F: 540-585-3012

info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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



## 2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution  
Catalog Number: CLPP-SPK-1  
Lot Number: T2-MEB721963  
Matrix: 7% (v/v) HNO<sub>3</sub>  
Value / Analyte(s):  
2 000 µg/mL ea:  
Aluminum, Barium,  
1 000 µg/mL ea:  
Iron,  
500 µg/mL ea:  
Manganese, Nickel,  
Vanadium, Zinc,  
Cobalt,  
250 µg/mL ea:  
Copper,  
200 µg/mL ea:  
Chromium,  
50 µg/mL ea:  
Beryllium, Silver

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

Assay Information:

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

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

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

Certified Value,  $X_{\text{CRM/RM}}$ , 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:

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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{tts}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{tts}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{tts}}^2 + u_{\text{ts}}^2)^{1/2}$$

$k$  = coverage factor = 2

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

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

$u_{\text{tts}}$  = long term stability standard uncertainty (storage)

$u_{\text{ts}}$  = 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](http://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](http://inorganicventures.com); [info@inorganicventures.com](mailto:info@inorganicventures.com)

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

July 27, 2022

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

### 11.2 Lot Expiration Date

- July 27, 2027

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

### Certificate Approved By:

Thomas Kozikowski  
Manager, Quality Control



### Certifying Officer:

Paul Gaines  
Chairman / Senior Technical Director





**Certified Reference Material CRM**  
R: 01/03/24 M6033



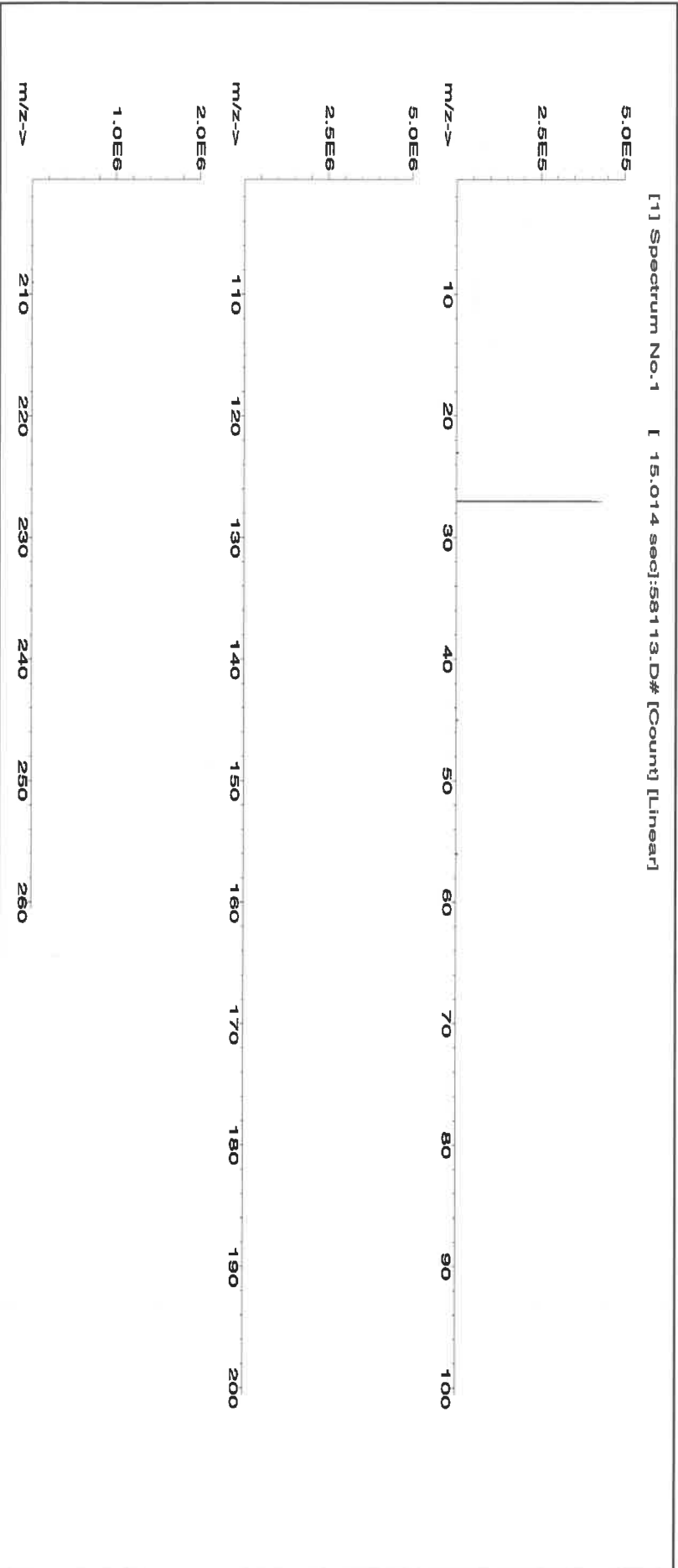
**CERTIFIED WEIGHT REPORT:**

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

|                          |                        |
|--------------------------|------------------------|
| <i>Giovanni Esposito</i> |                        |
| Formulated By:           | Giovanni Esposito      |
| Reviewed By:             | <i>Pedro L. Rentas</i> |
|                          | Pedro L. Rentas        |
|                          | 011623                 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|----------|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Aluminum nitrate nonahydrate (Al) IN022 ALUM12021A1 10000 99.999 0.10 7.30 273.9779 274.0078 10001.1 20.0 7784-27-2 2 mg/m3 or rat 3671 mg/kg 3101a



Hydrochloric Acid, 36.5–38.0%

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

 **avantor™**



M6094  
M6095

metdig  
10/21/24

Material No.: 9530-33  
Batch No.: 24D1562005  
Manufactured Date: 2024-03-18  
Retest Date: 2029-03-17  
Revision No.: 0

## Certificate of Analysis

| Test                                      | Specification | Result      |
|-------------------------------------------|---------------|-------------|
| ACS – Assay (as HCl) (by acid-base titrn) | 36.5 – 38.0 % | 37.6 %      |
| ACS – Color (APHA)                        | ≤ 10          | 5           |
| ACS – Residue after Ignition              | ≤ 3 ppm       | < 1 ppm     |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.192       |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 %   |
| ACS – Extractable Organic Substances      | ≤ 5 ppm       | < 1 ppm     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | 0.03 ppm    |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 3 ppm       | < 1 ppm     |
| Trace Impurities – Arsenic (As)           | ≤ 0.010 ppm   | < 0.003 ppm |
| Trace Impurities – Aluminum (Al)          | ≤ 10.0 ppb    | < 5.0 ppb   |
| Arsenic and Antimony (as As)              | ≤ 5.0 ppb     | < 3.0 ppb   |
| Trace Impurities – Barium (Ba)            | ≤ 1.0 ppb     | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be)         | ≤ 1.0 ppb     | < 1.0 ppb   |
| Trace Impurities – Bismuth (Bi)           | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)              | ≤ 20.0 ppb    | 2.2 ppb     |
| Trace Impurities – Cadmium (Cd)           | ≤ 1.0 ppb     | < 1.0 ppb   |
| Trace Impurities – Calcium (Ca)           | ≤ 50.0 ppb    | 31.0 ppb    |
| Trace Impurities – Chromium (Cr)          | ≤ 1.0 ppb     | 0.5 ppb     |
| Trace Impurities – Cobalt (Co)            | ≤ 1.0 ppb     | 0.2 ppb     |
| Trace Impurities – Copper (Cu)            | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities – Gallium (Ga)           | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Germanium (Ge)         | ≤ 3.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Gold (Au)              | ≤ 4.0 ppb     | < 0.2 ppb   |
| Heavy Metals (as Pb)                      | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)              | ≤ 15 ppb      | 3 ppb       |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 24D1562005

| Test                                                   | Specification | Result     |
|--------------------------------------------------------|---------------|------------|
| Trace Impurities – Lead (Pb)                           | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Lithium (Li)                        | ≤ 1.0 ppb     | < 0.1 ppb  |
| Trace Impurities – Magnesium (Mg)                      | ≤ 10.0 ppb    | 2.2 ppb    |
| Trace Impurities – Manganese (Mn)                      | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Mercury (Hg)                        | ≤ 0.5 ppb     | < 0.1 ppb  |
| Trace Impurities – Molybdenum (Mo)                     | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Nickel (Ni)                         | ≤ 4.0 ppb     | 0.2 ppb    |
| Trace Impurities – Niobium (Nb)                        | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Potassium (K)                       | ≤ 9.0 ppb     | < 1.0 ppb  |
| Trace Impurities – Selenium (Se), For Information Only |               | < 1.0 ppb  |
| Trace Impurities – Silicon (Si)                        | ≤ 100.0 ppb   | < 10.0 ppb |
| Trace Impurities – Silver (Ag)                         | ≤ 1.0 ppb     | < 0.3 ppb  |
| Trace Impurities – Sodium (Na)                         | ≤ 100.0 ppb   | 2.0 ppb    |
| Trace Impurities – Strontium (Sr)                      | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Tantalum (Ta)                       | ≤ 1.0 ppb     | < 0.9 ppb  |
| Trace Impurities – Thallium (Tl)                       | ≤ 5.0 ppb     | < 2.0 ppb  |
| Trace Impurities – Tin (Sn)                            | ≤ 5.0 ppb     | < 0.4 ppb  |
| Trace Impurities – Titanium (Ti)                       | ≤ 1.0 ppb     | 0.2 ppb    |
| Trace Impurities – Vanadium (V)                        | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Zinc (Zn)                           | ≤ 5.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Zirconium (Zr)                      | ≤ 1.0 ppb     | < 0.1 ppb  |

>>> Continued on page 3 >>>



Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33  
Batch No.: 24D1562005

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Laboratory, Research, or Manufacturing Use  
Product Information (not specifications):  
Appearance (clear, fuming liquid)  
Meets ACS Specifications  
Storage Condition: Store below 25 °C.

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak  
Director Quality Operations, Bioscience Production

802

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

Receive date  
9/29/24  
Met diag.

**avantor™**



Material No.: 9530-33  
Batch No.: 22F0762009  
Manufactured Date: 2022-05-10  
Retest Date: 2027-05-09  
Revision No.: 0

M6109  
M6110  
M6111

## Certificate of Analysis

| Test                                      | Specification | Result      |
|-------------------------------------------|---------------|-------------|
| ACS – Assay (as HCl) (by acid–base titrn) | 36.5 – 38.0 % | 37.6 %      |
| ACS – Color (APHA)                        | ≤ 10          | 5           |
| ACS – Residue after Ignition              | ≤ 3 ppm       | < 1 ppm     |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.190       |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 %   |
| ACS – Extractable Organic Substances      | ≤ 5 ppm       | < 1 ppm     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 3 ppm       | < 1 ppm     |
| Trace Impurities – Arsenic (As)           | ≤ 0.010 ppm   | < 0.003 ppm |
| Trace Impurities – Aluminum (Al)          | ≤ 10.0 ppb    | 0.8 ppb     |
| Arsenic and Antimony (as As)              | ≤ 5.0 ppb     | < 3.0 ppb   |
| Trace Impurities – Barium (Ba)            | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Beryllium (Be)         | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Bismuth (Bi)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Boron (B)              | ≤ 20.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)           | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Calcium (Ca)           | ≤ 50.0 ppb    | 14.9 ppb    |
| Trace Impurities – Chromium (Cr)          | ≤ 1.0 ppb     | < 0.4 ppb   |
| Trace Impurities – Cobalt (Co)            | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Copper (Cu)            | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities – Gallium (Ga)           | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Germanium (Ge)         | ≤ 3.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Gold (Au)              | ≤ 4.0 ppb     | 0.2 ppb     |
| Heavy Metals (as Pb)                      | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)              | ≤ 15 ppb      | 6 ppb       |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 22F0762009

| Test                                                   | Specification | Result    |
|--------------------------------------------------------|---------------|-----------|
| Trace Impurities – Lead (Pb)                           | ≤ 1.0 ppb     | < 0.5 ppb |
| Trace Impurities – Lithium (Li)                        | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Magnesium (Mg)                      | ≤ 10.0 ppb    | 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 – Molybdenum (Mo)                     | ≤ 10.0 ppb    | < 3.0 ppb |
| Trace Impurities – Nickel (Ni)                         | ≤ 4.0 ppb     | < 0.3 ppb |
| Trace Impurities – Niobium (Nb)                        | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Potassium (K)                       | ≤ 9.0 ppb     | < 2.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only |               | < 1.0 ppb |
| Trace Impurities – Silicon (Si)                        | ≤ 100.0 ppb   | 1.0 ppb   |
| Trace Impurities – Silver (Ag)                         | ≤ 1.0 ppb     | < 0.3 ppb |
| Trace Impurities – Sodium (Na)                         | ≤ 100.0 ppb   | 0.7 ppb   |
| Trace Impurities – Strontium (Sr)                      | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta)                       | ≤ 1.0 ppb     | < 0.9 ppb |
| Trace Impurities – Thallium (Tl)                       | ≤ 5.0 ppb     | < 2.0 ppb |
| Trace Impurities – Tin (Sn)                            | ≤ 5.0 ppb     | < 0.8 ppb |
| Trace Impurities – Titanium (Ti)                       | ≤ 1.0 ppb     | 0.2 ppb   |
| Trace Impurities – Vanadium (V)                        | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Zinc (Zn)                           | ≤ 5.0 ppb     | 0.8 ppb   |
| Trace Impurities – Zirconium (Zr)                      | ≤ 1.0 ppb     | < 0.1 ppb |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantor™**

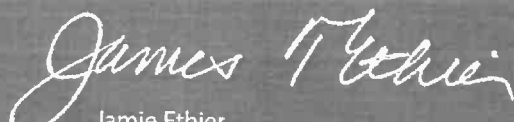


Material No.: 9530-33  
Batch No.: 22F0762009

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Laboratory, Research, or Manufacturing Use  
Product Information (not specifications):  
Appearance (clear, fuming liquid)  
Meets ACS Specifications  
Storage Condition: Store below 25 °C.

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality 805

Nitric Acid 69%  
CMOS

avantor™



Receive:  
9/29/24  
met dig

Material No.: 9606-03  
Batch No.: 24B1362001  
Manufactured Date: 2024-01-25  
Retest Date: 2029-01-23  
Revision No.: 0

## Certificate of Analysis

| Test                              | Specification | Result      |
|-----------------------------------|---------------|-------------|
| Assay (HNO <sub>3</sub> )         | 69.0 – 70.0 % | 69.6 %      |
| Appearance                        | Passes Test   | Passes Test |
| Color (APHA)                      | ≤ 10          | 5           |
| Residue after Ignition            | ≤ 2 ppm       | < 1 ppm     |
| Chloride (Cl)                     | ≤ 0.08 ppm    | < 0.03 ppm  |
| Phosphate (PO <sub>4</sub> )      | ≤ 0.10 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )        | ≤ 0.2 ppm     | < 0.2 ppm   |
| Trace Impurities – Aluminum (Al)  | ≤ 40.0 ppb    | < 1.0 ppb   |
| Arsenic and Antimony (as As)      | ≤ 5.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Barium (Ba)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Bismuth (Bi)   | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)      | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)   | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities – Calcium (Ca)   | ≤ 50.0 ppb    | < 0.2 ppb   |
| Trace Impurities – Chromium (Cr)  | ≤ 30.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Cobalt (Co)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Copper (Cu)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Gallium (Ga)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Germanium (Ge) | ≤ 20 ppb      | < 10 ppb    |
| Trace Impurities – Gold (Au)      | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)              | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)      | ≤ 40.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Lead (Pb)      | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Lithium (Li)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities – Manganese (Mn) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Nickel (Ni)    | ≤ 20.0 ppb    | < 5.0 ppb   |

>>> Continued on page 2 >>>

| Test                                | Specification | Result     |
|-------------------------------------|---------------|------------|
| Trace Impurities – Niobium (Nb)     | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Potassium (K)    | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silicon (Si)     | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silver (Ag)      | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)      | ≤ 150.0 ppb   | < 5.0 ppb  |
| Trace Impurities – Strontium (Sr)   | ≤ 30.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Tantalum (Ta)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Thallium (Tl)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Tin (Sn)         | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities – Titanium (Ti)    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Vanadium (V)     | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zinc (Zn)        | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zirconium (Zr)   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count – 0.5 µm and greater | ≤ 60 par/ml   | 3 par/ml   |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml   | 1 par/ml   |

>>> Continued on page 3 >>>

Nitric Acid 69%  
CMOS

 **avantor™**

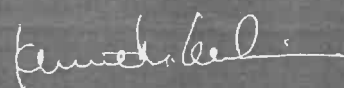


Material No.: 9606-03  
Batch No.: 24B1362001

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Microelectronic Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein  
Sr. Manager, Quality Assurance

808

Nitric Acid 69%  
CMOS

avantor™



Receive:  
9/29/24  
met dig

Material No.: 9606-03  
Batch No.: 24B1362001  
Manufactured Date: 2024-01-25  
Retest Date: 2029-01-23  
Revision No.: 0

## Certificate of Analysis

| Test                              | Specification | Result      |
|-----------------------------------|---------------|-------------|
| Assay (HNO <sub>3</sub> )         | 69.0 – 70.0 % | 69.6 %      |
| Appearance                        | Passes Test   | Passes Test |
| Color (APHA)                      | ≤ 10          | 5           |
| Residue after Ignition            | ≤ 2 ppm       | < 1 ppm     |
| Chloride (Cl)                     | ≤ 0.08 ppm    | < 0.03 ppm  |
| Phosphate (PO <sub>4</sub> )      | ≤ 0.10 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )        | ≤ 0.2 ppm     | < 0.2 ppm   |
| Trace Impurities – Aluminum (Al)  | ≤ 40.0 ppb    | < 1.0 ppb   |
| Arsenic and Antimony (as As)      | ≤ 5.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Barium (Ba)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Bismuth (Bi)   | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)      | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)   | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities – Calcium (Ca)   | ≤ 50.0 ppb    | < 0.2 ppb   |
| Trace Impurities – Chromium (Cr)  | ≤ 30.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Cobalt (Co)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Copper (Cu)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Gallium (Ga)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Germanium (Ge) | ≤ 20 ppb      | < 10 ppb    |
| Trace Impurities – Gold (Au)      | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)              | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)      | ≤ 40.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Lead (Pb)      | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Lithium (Li)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities – Manganese (Mn) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Nickel (Ni)    | ≤ 20.0 ppb    | < 5.0 ppb   |

>>> Continued on page 2 >>>



| Test                                | Specification | Result     |
|-------------------------------------|---------------|------------|
| Trace Impurities – Niobium (Nb)     | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Potassium (K)    | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silicon (Si)     | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silver (Ag)      | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)      | ≤ 150.0 ppb   | < 5.0 ppb  |
| Trace Impurities – Strontium (Sr)   | ≤ 30.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Tantalum (Ta)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Thallium (Tl)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Tin (Sn)         | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities – Titanium (Ti)    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Vanadium (V)     | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zinc (Zn)        | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zirconium (Zr)   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count – 0.5 µm and greater | ≤ 60 par/ml   | 3 par/ml   |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml   | 1 par/ml   |

>>> Continued on page 3 >>>

Nitric Acid 69%  
CMOS

 **avantor™**

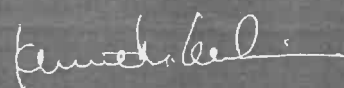


Material No.: 9606-03  
Batch No.: 24B1362001

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Microelectronic Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein  
Sr. Manager, Quality Assurance

811

Nitric Acid 69%  
CMOS

avantor™



Receive:  
9/29/24  
met dig

Material No.: 9606-03  
Batch No.: 24B1362001  
Manufactured Date: 2024-01-25  
Retest Date: 2029-01-23  
Revision No.: 0

## Certificate of Analysis

| Test                              | Specification | Result      |
|-----------------------------------|---------------|-------------|
| Assay (HNO <sub>3</sub> )         | 69.0 – 70.0 % | 69.6 %      |
| Appearance                        | Passes Test   | Passes Test |
| Color (APHA)                      | ≤ 10          | 5           |
| Residue after Ignition            | ≤ 2 ppm       | < 1 ppm     |
| Chloride (Cl)                     | ≤ 0.08 ppm    | < 0.03 ppm  |
| Phosphate (PO <sub>4</sub> )      | ≤ 0.10 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )        | ≤ 0.2 ppm     | < 0.2 ppm   |
| Trace Impurities – Aluminum (Al)  | ≤ 40.0 ppb    | < 1.0 ppb   |
| Arsenic and Antimony (as As)      | ≤ 5.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Barium (Ba)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Bismuth (Bi)   | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)      | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)   | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities – Calcium (Ca)   | ≤ 50.0 ppb    | < 0.2 ppb   |
| Trace Impurities – Chromium (Cr)  | ≤ 30.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Cobalt (Co)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Copper (Cu)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Gallium (Ga)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Germanium (Ge) | ≤ 20 ppb      | < 10 ppb    |
| Trace Impurities – Gold (Au)      | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)              | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)      | ≤ 40.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Lead (Pb)      | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Lithium (Li)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities – Manganese (Mn) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Nickel (Ni)    | ≤ 20.0 ppb    | < 5.0 ppb   |

>>> Continued on page 2 >>>

| Test                                | Specification | Result     |
|-------------------------------------|---------------|------------|
| Trace Impurities – Niobium (Nb)     | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Potassium (K)    | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silicon (Si)     | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silver (Ag)      | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)      | ≤ 150.0 ppb   | < 5.0 ppb  |
| Trace Impurities – Strontium (Sr)   | ≤ 30.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Tantalum (Ta)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Thallium (Tl)    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Tin (Sn)         | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities – Titanium (Ti)    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Vanadium (V)     | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zinc (Zn)        | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zirconium (Zr)   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count – 0.5 µm and greater | ≤ 60 par/ml   | 3 par/ml   |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml   | 1 par/ml   |

>>> Continued on page 3 >>>

Nitric Acid 69%  
CMOS

 **avantor™**

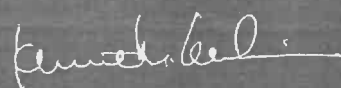


Material No.: 9606-03  
Batch No.: 24B1362001

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Microelectronic Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein  
Sr. Manager, Quality Assurance

814

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantor™**



Review → 10/9/24  
Met dig

Material No.: 9530-33  
Batch No.: 22E1662006  
Manufactured Date: 2022-04-11  
Retest Date: 2027-04-10  
Revision No.: 0

M6118

## Certificate of Analysis

| Test                                      | Specification | Result      |
|-------------------------------------------|---------------|-------------|
| ACS – Assay (as HCl) (by acid-base titrn) | 36.5 – 38.0 % | 37.6 %      |
| ACS – Color (APHA)                        | ≤ 10          | 5           |
| ACS – Residue after Ignition              | ≤ 3 ppm       | < 1 ppm     |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.190       |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 %   |
| ACS – Extractable Organic Substances      | ≤ 5 ppm       | < 1 ppm     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 3 ppm       | < 1 ppm     |
| Trace Impurities – Arsenic (As)           | ≤ 0.010 ppm   | < 0.003 ppm |
| Trace Impurities – Aluminum (Al)          | ≤ 10.0 ppb    | < 0.2 ppb   |
| Arsenic and Antimony (as As)              | ≤ 5.0 ppb     | < 3.0 ppb   |
| Trace Impurities – Barium (Ba)            | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Beryllium (Be)         | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Bismuth (Bi)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Boron (B)              | ≤ 20.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)           | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Calcium (Ca)           | ≤ 50.0 ppb    | 37.0 ppb    |
| Trace Impurities – Chromium (Cr)          | ≤ 1.0 ppb     | < 0.4 ppb   |
| Trace Impurities – Cobalt (Co)            | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Copper (Cu)            | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities – Gallium (Ga)           | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Germanium (Ge)         | ≤ 3.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Gold (Au)              | ≤ 4.0 ppb     | 0.2 ppb     |
| Heavy Metals (as Pb)                      | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)              | ≤ 15 ppb      | 1 ppb       |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 22E1662006

| Test                                                   | Specification | Result    |
|--------------------------------------------------------|---------------|-----------|
| Trace Impurities – Lead (Pb)                           | ≤ 1.0 ppb     | < 0.5 ppb |
| Trace Impurities – Lithium (Li)                        | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Magnesium (Mg)                      | ≤ 10.0 ppb    | 1.0 ppb   |
| Trace Impurities – Manganese (Mn)                      | ≤ 1.0 ppb     | < 0.4 ppb |
| Trace Impurities – Mercury (Hg)                        | ≤ 0.5 ppb     | 0.1 ppb   |
| Trace Impurities – Molybdenum (Mo)                     | ≤ 10.0 ppb    | < 3.0 ppb |
| Trace Impurities – Nickel (Ni)                         | ≤ 4.0 ppb     | < 0.3 ppb |
| Trace Impurities – Niobium (Nb)                        | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Potassium (K)                       | ≤ 9.0 ppb     | < 2.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only |               | 1.0 ppb   |
| Trace Impurities – Silicon (Si)                        | ≤ 100.0 ppb   | < 0.4 ppb |
| Trace Impurities – Silver (Ag)                         | ≤ 1.0 ppb     | < 0.3 ppb |
| Trace Impurities – Sodium (Na)                         | ≤ 100.0 ppb   | 1.9 ppb   |
| Trace Impurities – Strontium (Sr)                      | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta)                       | ≤ 1.0 ppb     | < 0.9 ppb |
| Trace Impurities – Thallium (Tl)                       | ≤ 5.0 ppb     | < 2.0 ppb |
| Trace Impurities – Tin (Sn)                            | ≤ 5.0 ppb     | < 0.8 ppb |
| Trace Impurities – Titanium (Ti)                       | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Vanadium (V)                        | ≤ 1.0 ppb     | < 0.2 ppb |
| Trace Impurities – Zinc (Zn)                           | ≤ 5.0 ppb     | < 0.3 ppb |
| Trace Impurities – Zirconium (Zr)                      | ≤ 1.0 ppb     | < 0.1 ppb |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantor™**



Material No.: 9530-33  
Batch No.: 22E1662006

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Laboratory, Research, or Manufacturing Use  
Product Information (not specifications):  
Appearance (clear, fuming liquid)  
Meets ACS Specifications  
Storage Condition: Store below 25 °C.

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality 817



Nitric Acid 69%  
CMOS

avantor™



R → 10/13/24  
Metali g

Material No.: 9606-03  
Batch No.: 2310662003  
Manufactured Date: 2023-08-21  
Retest Date: 2028-08-19  
Revision No.: 0

M 6120

## Certificate of Analysis

| Test                              | Specification | Result      |
|-----------------------------------|---------------|-------------|
| Assay (HNO <sub>3</sub> )         | 69.0 – 70.0 % | 69.5 %      |
| Appearance                        | Passes Test   | Passes Test |
| Color (APHA)                      | ≤ 10          | 10          |
| Residue after Ignition            | ≤ 2 ppm       | < 2 ppm     |
| Chloride (Cl)                     | ≤ 0.08 ppm    | < 0.08 ppm  |
| Phosphate (PO <sub>4</sub> )      | ≤ 0.10 ppm    | < 0.10 ppm  |
| Sulfate (SO <sub>4</sub> )        | ≤ 0.2 ppm     | 0.2 ppm     |
| Trace Impurities – Aluminum (Al)  | ≤ 40.0 ppb    | < 40.0 ppb  |
| Arsenic and Antimony (as As)      | ≤ 5.0 ppb     | < 5.0 ppb   |
| Trace Impurities – Barium (Ba)    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Beryllium (Be) | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Bismuth (Bi)   | ≤ 20.0 ppb    | < 20.0 ppb  |
| Trace Impurities – Boron (B)      | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Cadmium (Cd)   | ≤ 50 ppb      | < 50 ppb    |
| Trace Impurities – Calcium (Ca)   | ≤ 50.0 ppb    | < 50.0 ppb  |
| Trace Impurities – Chromium (Cr)  | ≤ 30.0 ppb    | 30.0 ppb    |
| Trace Impurities – Cobalt (Co)    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Copper (Cu)    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Gallium (Ga)   | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Germanium (Ge) | ≤ 20 ppb      | < 20 ppb    |
| Trace Impurities – Gold (Au)      | ≤ 20 ppb      | < 20 ppb    |
| Heavy Metals (as Pb)              | ≤ 100 ppb     | < 100 ppb   |
| Trace Impurities – Iron (Fe)      | ≤ 40.0 ppb    | < 40.0 ppb  |
| Trace Impurities – Lead (Pb)      | ≤ 20.0 ppb    | < 20.0 ppb  |
| Trace Impurities – Lithium (Li)   | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb      | < 20 ppb    |
| Trace Impurities – Manganese (Mn) | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Nickel (Ni)    | ≤ 20.0 ppb    | < 20.0 ppb  |

>>> Continued on page 2 >>>

Nitric Acid 69%  
CMOS

 **avantors<sup>TM</sup>**



Material No.: 9606-03  
Batch No.: 2310662003

| Test                                | Specification | Result      |
|-------------------------------------|---------------|-------------|
| Trace Impurities – Niobium (Nb)     | ≤ 50.0 ppb    | < 50.0 ppb  |
| Trace Impurities – Potassium (K)    | ≤ 50 ppb      | < 50 ppb    |
| Trace Impurities – Silicon (Si)     | ≤ 50 ppb      | < 50 ppb    |
| Trace Impurities – Silver (Ag)      | ≤ 20.0 ppb    | < 20.0 ppb  |
| Trace Impurities – Sodium (Na)      | ≤ 150.0 ppb   | < 150.0 ppb |
| Trace Impurities – Strontium (Sr)   | ≤ 30.0 ppb    | < 30.0 ppb  |
| Trace Impurities – Tantalum (Ta)    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Thallium (Tl)    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Tin (Sn)         | ≤ 20.0 ppb    | < 20.0 ppb  |
| Trace Impurities – Titanium (Ti)    | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Vanadium (V)     | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Zinc (Zn)        | ≤ 20.0 ppb    | < 20.0 ppb  |
| Trace Impurities – Zirconium (Zr)   | ≤ 10.0 ppb    | < 10.0 ppb  |
| Particle Count – 0.5 µm and greater | ≤ 60 par/ml   | 60 par/ml   |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml   | 10 par/ml   |

>>> Continued on page 3 >>>

Nitric Acid 69%  
CMOS

 **avantor™**

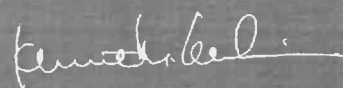


Material No.: 9606-03  
Batch No.: 2310662003

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Microelectronic Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein  
Sr. Manager, Quality Assurance

820

Hydrochloric Acid, 36.5-38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

avantor™



R → 16/13/24  
Met dig

M 6121

Material No.: 9530-33  
Batch No.: 0000275677  
Manufactured Date: 2020/12/16  
Retest Date: 2025/12/15  
Revision No: 1

## Certificate of Analysis

| Test                                      | Specification | Result  |
|-------------------------------------------|---------------|---------|
| ACS – Assay (as HCl) (by acid-base titrn) | 36.5 – 38.0 % | 37.6    |
| ACS – Color (APHA)                        | ≤ 10          | 5       |
| ACS – Residue after Ignition              | ≤ 3 ppm       | 1       |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.190   |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 |
| ACS – Extractable Organic Substances      | ≤ 5 ppm       | 1       |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | < 0.03  |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3     |
| Ammonium (NH <sub>4</sub> )               | ≤ 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

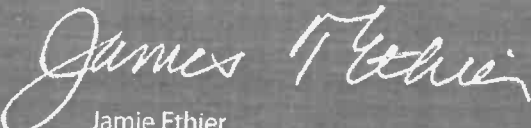
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

821

| 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

822

Nitric Acid 69%  
CMOS

avantor™



R → 11/12/24

M6126

Material No.: 9606-03  
Batch No.: 24D1062002  
Manufactured Date: 2024-03-26  
Retest Date: 2029-03-25  
Revision No.: 0

## Certificate of Analysis

| Test                              | Specification | Result      |
|-----------------------------------|---------------|-------------|
| Assay (HNO <sub>3</sub> )         | 69.0 – 70.0 % | 69.7 %      |
| Appearance                        | Passes Test   | Passes Test |
| Color (APHA)                      | ≤ 10          | 5           |
| Residue after Ignition            | ≤ 2 ppm       | 1 ppm       |
| Chloride (Cl)                     | ≤ 0.08 ppm    | < 0.03 ppm  |
| Phosphate (PO <sub>4</sub> )      | ≤ 0.10 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )        | ≤ 0.2 ppm     | < 0.2 ppm   |
| Trace Impurities – Aluminum (Al)  | ≤ 40.0 ppb    | < 1.0 ppb   |
| Arsenic and Antimony (as As)      | ≤ 5.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Barium (Ba)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Beryllium (Be) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Bismuth (Bi)   | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Boron (B)      | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)   | ≤ 50 ppb      | < 1 ppb     |
| Trace Impurities – Calcium (Ca)   | ≤ 50.0 ppb    | 2.3 ppb     |
| Trace Impurities – Chromium (Cr)  | ≤ 30.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Cobalt (Co)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Copper (Cu)    | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Gallium (Ga)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Germanium (Ge) | ≤ 20 ppb      | < 10 ppb    |
| Trace Impurities – Gold (Au)      | ≤ 20 ppb      | < 5 ppb     |
| Heavy Metals (as Pb)              | ≤ 100 ppb     | 100 ppb     |
| Trace Impurities – Iron (Fe)      | ≤ 40.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Lead (Pb)      | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities – Lithium (Li)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Magnesium (Mg) | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities – Manganese (Mn) | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Nickel (Ni)    | ≤ 20.0 ppb    | < 5.0 ppb   |

>>> Continued on page 2 >>>

Nitric Acid 69%  
CMOS

 **avantor**<sup>TM</sup>



Material No.: 9606-03  
Batch No.: 24D1062002

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Microelectronic Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak  
Director Quality Operations, Bioscience Production

824



**CERTIFIED WEIGHT REPORT:**

**Part Number:** 58111  
**Lot Number:** 122223  
**Description:** Sodium (Na)

**Solvent:** 24002546 Nitric Acid

**Lot #**

*Aleah O Brady*  
**Formulated By:** Aleah O Brady  
**Reviewed By:** Pedro L. Rentas

825

**Expiration Date:** 122226

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):** 10000

**NIST Test Number:** 6UTB

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

5E-05 Balance Uncertainty  
0.06 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) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|-----|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Sodium nitrate (Na) IN036 NAV01201511 10000 99.999 0.10 26.9 111.5406 111.5479 10000.7 20.0 7631-99-4 5 mg/m3 or-trat 3430 mg/kg 3152a

[1] Spectrum No.1 [ 8.935 sec]:58111.D# [Count] [Linear]







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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | 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 | 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 | 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 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.02 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | 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 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | 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 WEIGHT REPORT:**

Part Number:  
Lot Number:  
Description:

57051  
120523  
**Antimony (Sb)**

Lot #  
Solvent:

24002546  
Nitric Acid

2.0%  
60.0  
Nitric Acid  
(mL)

Expiration Date:

120526

Recommended Storage:

Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6U7B

Volume shown below was diluted to (mL):

3000.41

5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

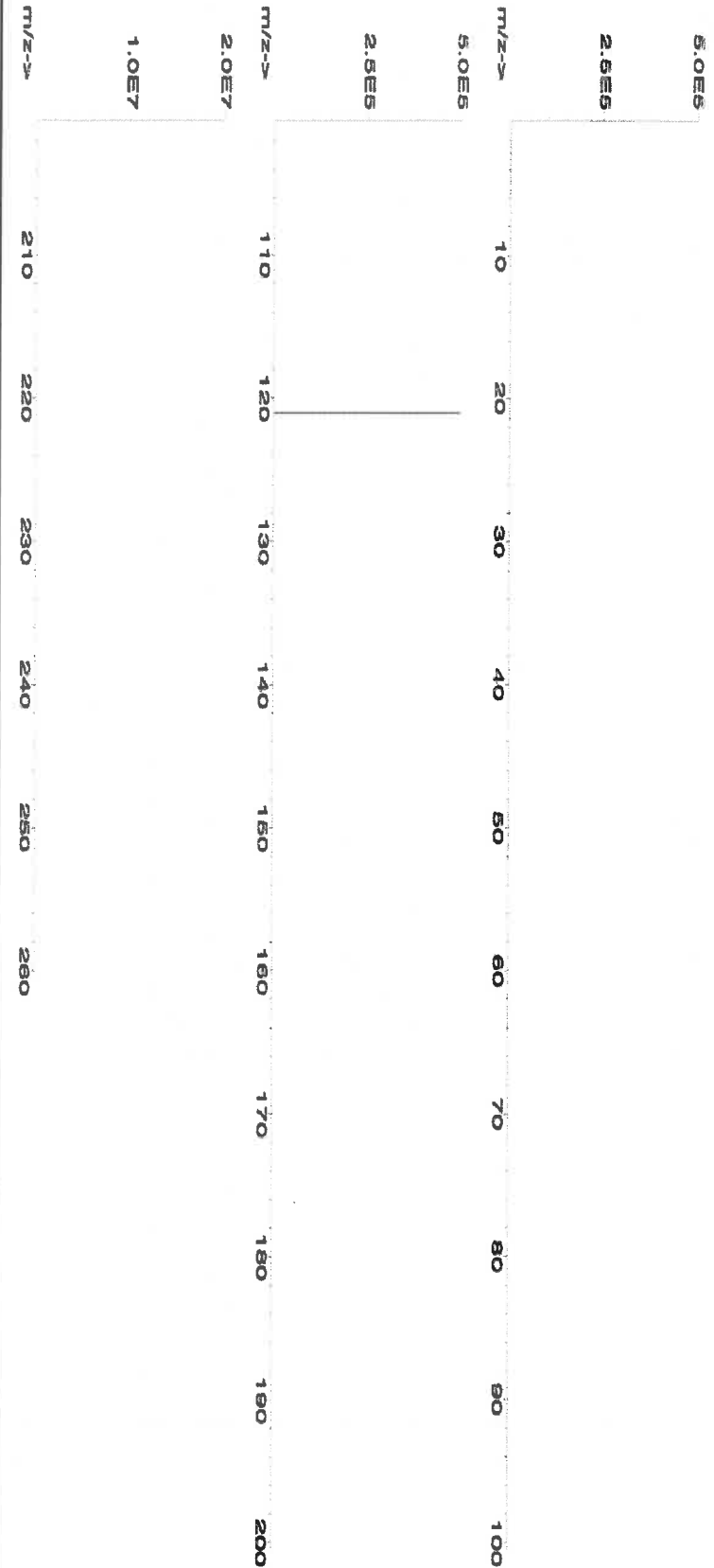
|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Lawrence Barry    | 120523 |
| Reviewed By:   | Pedro L. Renteria | 120523 |

**SDS Information**

| 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) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|----------|-------------|------------|-----------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

1. Antimony (Sb) 58151 100923 0.1000 300.0 0.084 1000 10001.4 1000.0 2.1 7440-36-0 0.5 mg/m3 or-rel 7000 mg/kg 3102a

[1] Spectrum No.1 [ 17.964 sec]:58051.D# [Count] [Linear]





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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
- \* All standard containers are meticulously cleaned prior to use.
- \* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- \* Standards are 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)**

Lot #  
Solvent: 24002546 Nitric Acid

Expiration Date:

122826

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL):

1000

NIST Test Number:

6UTB

Weight shown below was diluted to (mL):

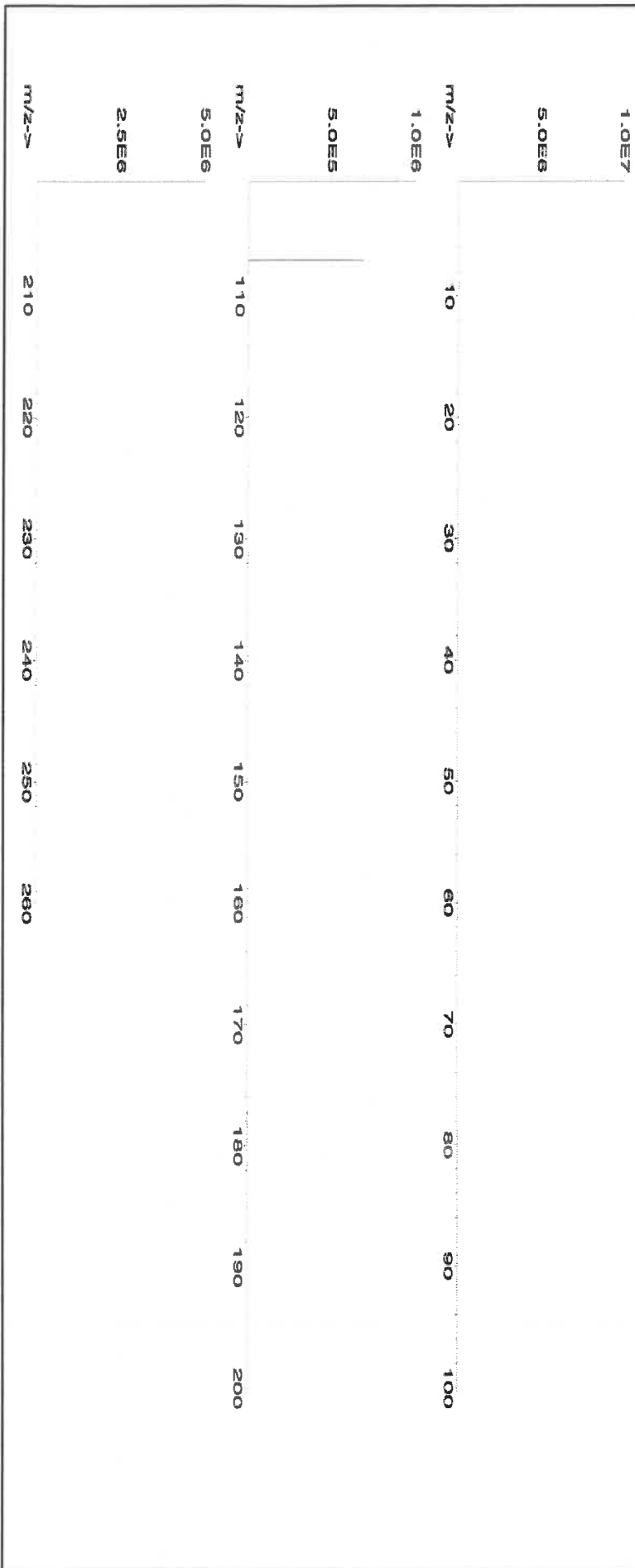
4000.30

5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                |                 |
|----------------|-----------------|
|                |                 |
| Formulated By: | Benson Chan     |
|                |                 |
| Reviewed By:   | Pedro L. Rentas |
| 122823         |                 |

| SDS Information        |       |            |                       |            |                        |           |                   |                   |                      |
|------------------------|-------|------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|----------------------|
| Compound               | RM#   | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) |
| 1. Silver nitrate (Ag) | IN035 | J0612AGA1  | 1000.0                | 99.999     | 0.10                   | 63.7      | 6.27992           | 6.27998           | 1000.0               |
|                        |       |            |                       |            |                        |           | 2.0               | 7761-88-8         | 10 µg/mL             |
|                        |       |            |                       |            |                        |           |                   |                   | NA                   |
|                        |       |            |                       |            |                        |           |                   |                   | 3151                 |

[1] Spectrum No. 1 [14.044 sec]: 58147.D# [Count] [Linear]





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

830

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | T     | Tl | <0.02 | V  | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S  | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

- \* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- \* Purified acids, 18.2 meghm 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:**

R: 03/16/23 MS473 MS474 MS475 MS476

**Part Number:** 56138  
**Lot Number:** 082922  
**Description:** Strontium (Sr)

**Solvent:** 20510011 Nitric Acid

**Lot #**

**Expiration Date:** 082925  
**Recommended Storage:** Ambient (20 °C)  
**Nominal Concentration (µg/mL):** 10000  
**NIST Test Number:** 6UTB

**2% Nitric Acid**

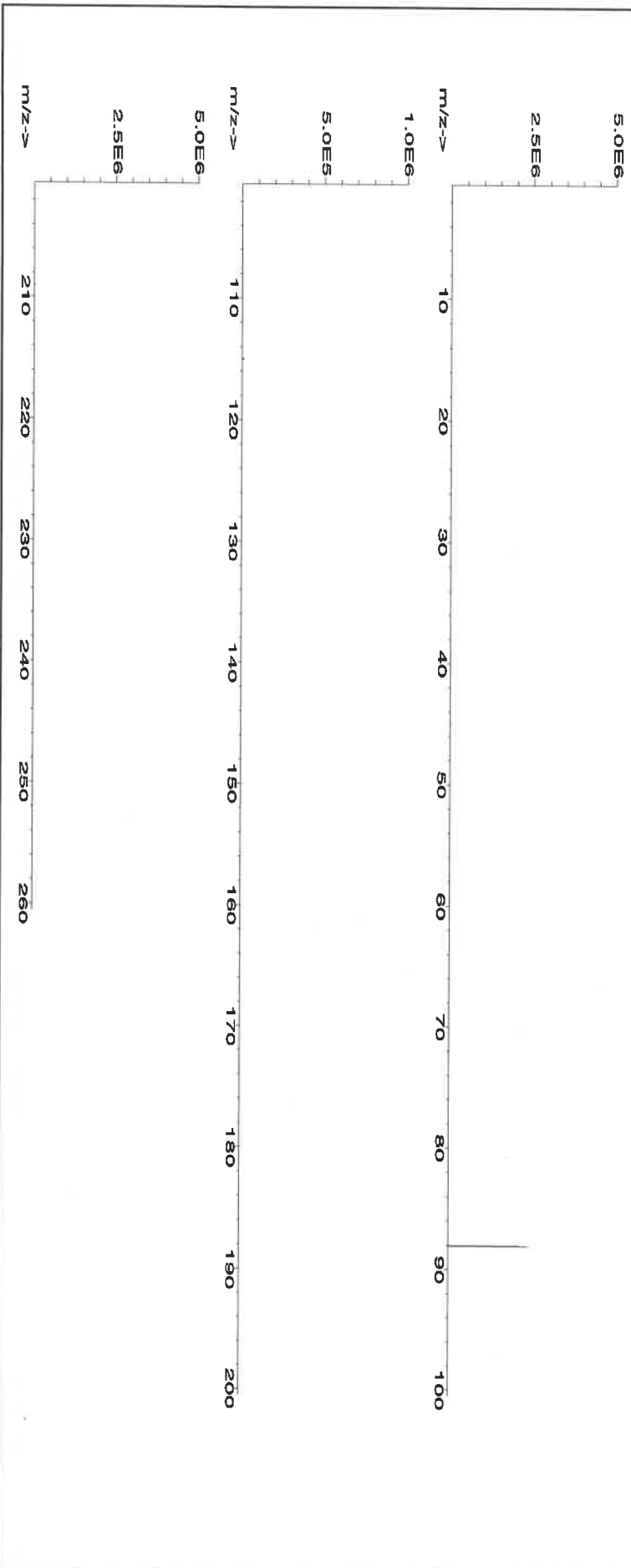
**20.0 (mL)**

**Weight shown below was diluted to (mL):** 1000.12 0.058 Balance Uncertainty  
Flask Uncertainty

|                |                   |
|----------------|-------------------|
|                |                   |
| Formulated By: | Lawrence Barry    |
| 082922         |                   |
|                |                   |
| Reviewed By:   | Pedro L. Renteria |
| 082922         |                   |

| SDS Information           |       |             |                       |            |                        |           |                   |                   |                         |
|---------------------------|-------|-------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|-------------------------|
| Compound                  | RM#   | Lot Number  | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL)    |
| 1. Strontium nitrate (Sr) | IN017 | SF2022018A1 | 10000                 | 99.997     | 0.10                   | 41.2      | 24.2756           | 24.2758           | 10000.1                 |
|                           |       |             |                       |            |                        |           | 20.0              | 10042-76-9        | NA                      |
|                           |       |             |                       |            |                        |           |                   |                   | or-rat >2000mg/kg 3153a |

[1] Spectrum No. 1 [14.495 sec]: 56138.D# [Count] [Linear]





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

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

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

(T) = Target analyte

**Physical Characterization:**

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**



ANAB ISO 17034 Accredited  
AR-1539 Certificate Number  
<https://AbsoluteStandards.com>

**CERTIFIED WEIGHT REPORT:**

R: 03/16/23 MS473 MS474 MS475 MS476

**Part Number:** 56138  
**Lot Number:** 082922  
**Description:** Strontium (Sr)

**Solvent:** 20510011 Nitric Acid

**Lot #**

**Expiration Date:** 082925  
**Recommended Storage:** Ambient (20 °C)  
**Nominal Concentration (µg/mL):** 10000  
**NIST Test Number:** 6UTB

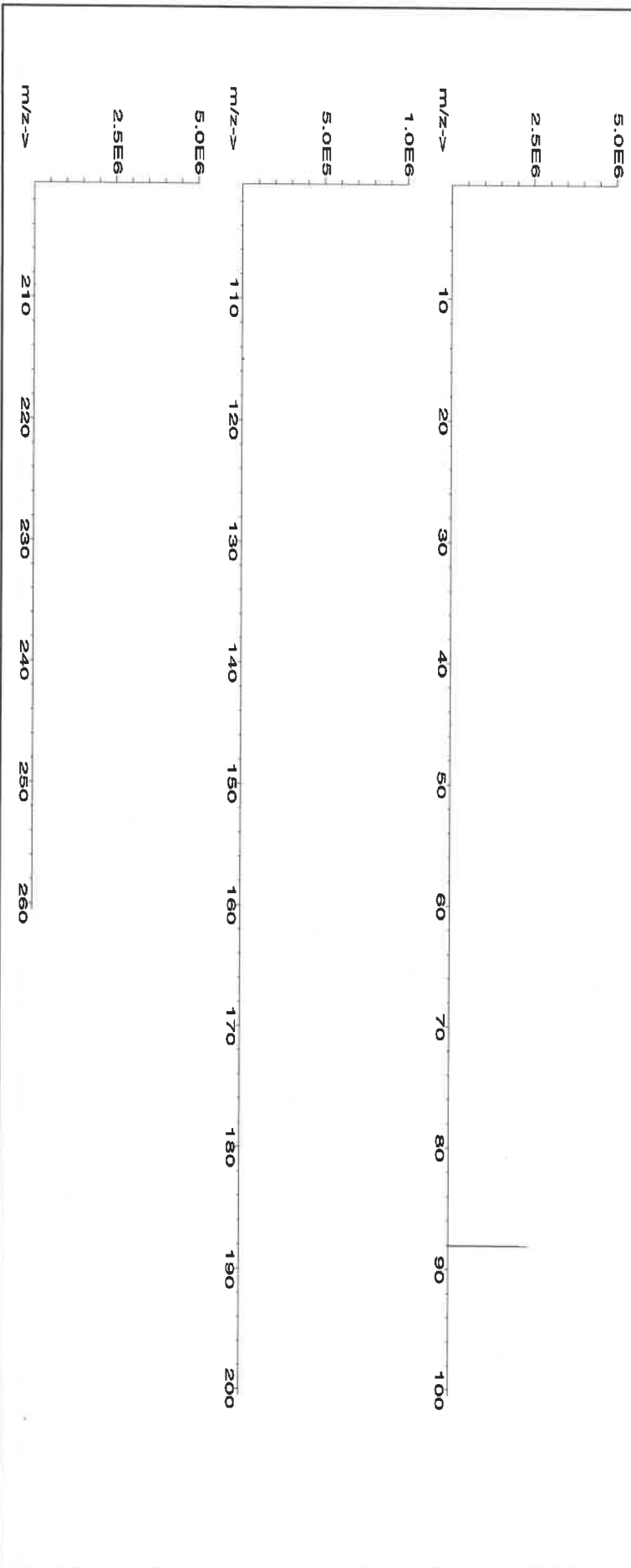
**2% 20.0 (mL) Nitric Acid**

**Weight shown below was diluted to (mL):** 1000.12 0.058 Balance Uncertainty  
Flask Uncertainty

|                          |                   |
|--------------------------|-------------------|
| <i>Lawrence Barry</i>    |                   |
| Formulated By:           | Lawrence Barry    |
|                          | 082922            |
| <i>Pedro L. Renteria</i> |                   |
| Reviewed By:             | Pedro L. Renteria |
|                          | 082922            |

| SDS Information           |       |             |                       |            |                        |           |                   |                   |                         |
|---------------------------|-------|-------------|-----------------------|------------|------------------------|-----------|-------------------|-------------------|-------------------------|
| Compound                  | RM#   | Lot Number  | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL)    |
| 1. Strontium nitrate (Sr) | IN017 | SF2022018A1 | 10000                 | 99.997     | 0.10                   | 41.2      | 24.2756           | 24.2758           | 10000.1                 |
|                           |       |             |                       |            |                        |           | 20.0              | 10042-76-9        | NA                      |
|                           |       |             |                       |            |                        |           |                   |                   | or-rat >2000mg/kg 3153a |

[1] Spectrum No. 1 [14.495 sec]: 56138.D# [Count] [Linear]







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

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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



**CERTIFIED WEIGHT REPORT:**

**Part Number:** 57081  
**Lot Number:** 062724  
**Description:** Thallium (TI)

Lot #

**Solvent:** 24002546 Nitric Acid

*Aleah O'Brady*  
**Formulated By:** Aleah O'Brady 062724

**Expiration Date:**

062727

2% 40.0 Nitric Acid (mL)

**Recommended Storage:** Ambient (20 °C)

**Nominal Concentration (µg/mL):**

1000

**NIST Test Number:**

6UTB

5E-05 Balance Uncertainty

**Weight shown below was diluted to (mL):** 2000.1 0.10 Flask Uncertainty

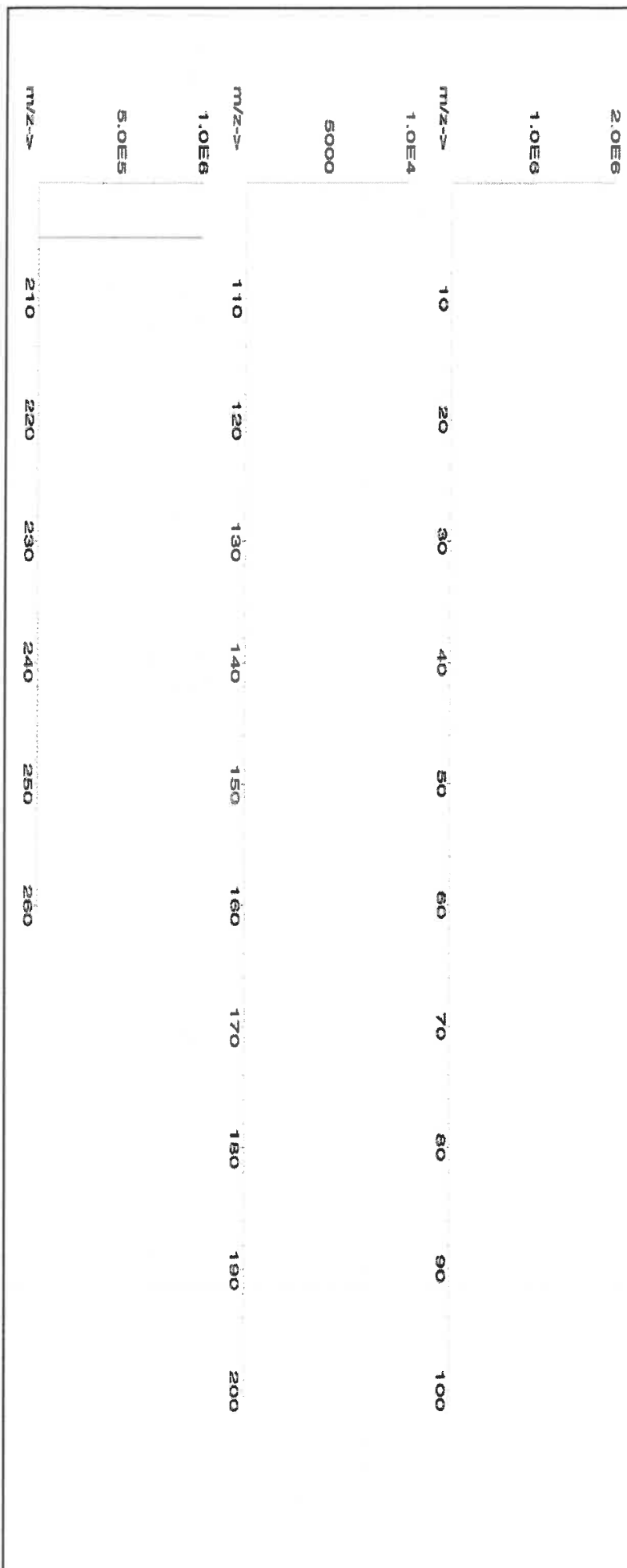
*Pedro L. Renteria*  
**Reviewed By:** Pedro L. Renterias 062724

**SDS Information**

| Compound | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|----------|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|
|----------|------------|-----------------------|------------|-----------------|-----------|-------------------|-------------------|----------------------|----------------------------------|------|----------------|------|----------|

1. Thallium nitrate (TI) IN037 BCCF4399 1000 99.999 0.10 77.0 2.5975 2.5977 1000.1 2.0 10102-45-1 0.1 mg/m3 orl-mus 15mg/kg 3158

[1] Spectrum No.1 [ 14.044 sec]:57081.D# [Count] [Linear]





836

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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U  | <0.02 |
| As | <0.2  | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | T     | V  | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Tm | <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 | Sn | <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 | Ti | <0.02 | Zn | <0.02 |
| B  | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K  | <0.2  | Se | <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.
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**Certified Reference Material CRM**

M6021



**CERTIFIED WEIGHT REPORT:**

Part Number: **57023**  
Lot Number: **062424**  
Description: **Vanadium (V)**

Lot # **24002546**  
Solvent: **Nitric Acid**

2.0%

40.0 (mL)

Nitric Acid

Aleah O'Brady

062424

Expiration Date: **062427**

Recommended Storage: **Ambient (20 °C)**

Nominal Concentration (µg/mL): **1000**

NIST Test Number: **6UTB**

5E-05 Balance Uncertainty

Volume shown below was diluted to (mL): **2000.3**

0.06 Flask Uncertainty

Expanded

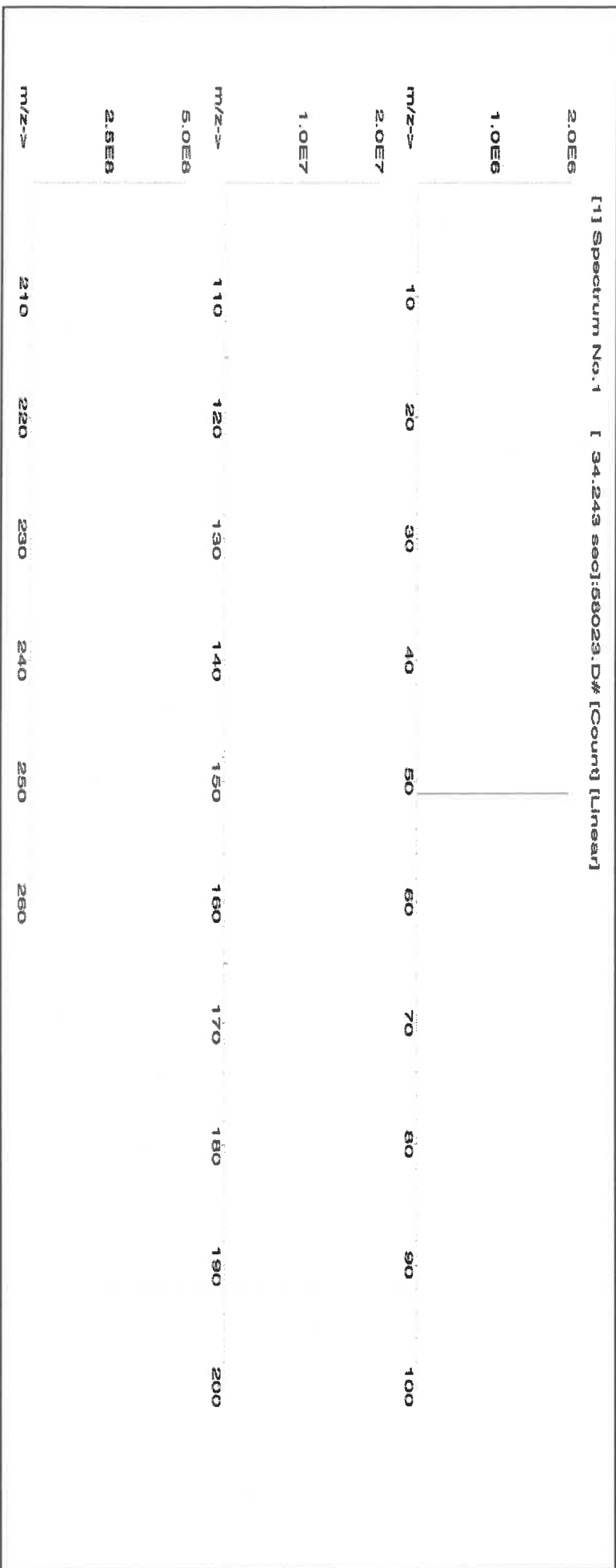
(Solvent Safety Info. On Attached pg.)

**Compound**

| Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|-------------|------------|-----------------|-------------------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|
|-------------|------------|-----------------|-------------------|------------------|-----------------------|-----------------------|---------------------|----------------------------------|------|----------------|------|----------|

1. Ammonium metavanadate (V) 58123 021224 0.1000 200.0 0.084 1000 10000.3 1000.0 2.2 7803-55-6 0.05 mg/m3 or-at 58.1mg/kg 3165

[1] Spectrum No.1 [ 34.243 sec]:58023.D# [Count] [Linear]





8800

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

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

|    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |    |       |
|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | 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  | T     |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2  | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2  | Hg | <0.2  | P  | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y  | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | 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 | <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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- \* 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).

SOP ID : M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

SDG No : MBHHA5

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #3 2. N/A

Start Digest Date: 11/19/2024 Time : 13:00 Temp : 96 °C

End Digest Date: 11/19/2024 Time : 15:10 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: *JGP*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| LCSS          | 1.00     | MP83141             |
| Spike Sol 6   | 1.00     | MP83147             |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---------------|----------------|------------|
| 1:1 HNO3      | 10.00          | MP83122    |
| Conc. HNO3    | 5.00           | M6120      |
| 30% H2O2      | 3.00           | M5634      |
| Conc. HCL     | 10.00          | M6118      |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #2 CELL #34 : 96 C

| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location |
|----------------|-----------------------------------------|----------------------|
| 11/19/24 15:23 | <i>JGP Met dig</i>                      | <i>[Signature]</i>   |
|                | Preparation Group                       | Analysis Group       |

| Lab Sample ID | Client Sample ID | pH  | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---------------|------------------|-----|--------------------|----------------|--------------|-------------|---------|----------|---------|----------|
| P4905-01      | MBHHA5           | N/A | 1.21               | 100            | Black        | Yellow      | Medium  | N/A      | N/A     | 1        |
| P4905-02      | MBHHA6           | N/A | 1.15               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 2        |
| P4905-03      | MBHHA6D          | N/A | 1.22               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 3        |
| P4905-04      | MBHHA6S          | N/A | 1.32               | 100            | Brown        | Yellow      | Medium  | N/A      | MP83147 | 4        |
| P4905-05      | MBHHA7           | N/A | 1.30               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 5        |
| P4905-06      | MBHHA8           | N/A | 1.23               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 6        |
| P4905-07      | MBHHA9           | N/A | 1.39               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 7        |
| P4905-08      | MBHHB0           | N/A | 1.10               | 100            | Black        | Yellow      | Medium  | N/A      | N/A     | 8        |
| P4905-09      | MBHHB1           | N/A | 1.45               | 100            | Black        | Yellow      | Medium  | N/A      | N/A     | 9        |
| P4905-10      | MBHHC5           | N/A | 1.29               | 100            | Black        | Yellow      | Medium  | N/A      | N/A     | 10       |
| P4905-11      | MBHHC6           | N/A | 1.31               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 11       |
| P4905-12      | MBHHC7           | N/A | 1.12               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 12       |
| P4905-13      | MBHHC8           | N/A | 1.37               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 13       |
| P4905-14      | MBHHC9           | N/A | 1.49               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 14       |
| P4905-15      | MBHHD0           | N/A | 1.15               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 15       |
| P4905-16      | MBHHD1           | N/A | 1.17               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 16       |
| P4905-17      | MBHHD2           | N/A | 1.19               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 17       |
| P4905-18      | MBHHD3           | N/A | 1.12               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 18       |
| P4905-19      | MBHHD4           | N/A | 1.21               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 19       |
| P4905-20      | MBHHD5           | N/A | 1.32               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A     | 20       |
| PB165101BL    | PBS101           | N/A | 1.00               | 100            | Colorless    | Colorless   | Fine    | N/A      | N/A     | 21       |
| PB165101BS    | LCS101           | N/A | 1.00               | 100            | Colorless    | Colorless   | Fine    | N/A      | MP83141 | 22       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|              |                 |              |                       |
|--------------|-----------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By | Mohan Bera      | Supervise On | 11/21/2024 7:25:19 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |
| ICV Standard  | MP83143                                                 |
| CCV Standard  | MP83146                                                 |
| ICSA Standard | MP83144,MP83145                                         |
| CRI Standard  |                                                         |
| LCS Standard  | MP83141                                                 |
| Chk Standard  | MP83148,MP83149                                         |

| Sr# | SampleId   | ClientID | QcType | Date           | Comment                             | Operator | Status |
|-----|------------|----------|--------|----------------|-------------------------------------|----------|--------|
| 1   | S0         | S0       | CAL1   | 11/20/24 11:06 |                                     | Kareem   | OK     |
| 2   | S1         | S01      | CAL2   | 11/20/24 11:11 |                                     | Kareem   | OK     |
| 3   | S2         | S02      | CAL3   | 11/20/24 11:16 |                                     | Kareem   | OK     |
| 4   | S3         | S03      | CAL4   | 11/20/24 11:20 |                                     | Kareem   | OK     |
| 5   | S4         | S04      | CAL5   | 11/20/24 11:25 |                                     | Kareem   | OK     |
| 6   | S5         | S05      | CAL6   | 11/20/24 11:29 |                                     | Kareem   | OK     |
| 7   | S6         | S06      | CAL7   | 11/20/24 11:33 |                                     | Kareem   | OK     |
| 8   | ICV006     | ICV006   | ICV    | 11/20/24 12:34 | Inst. paused for calibration review | Kareem   | OK     |
| 9   | ICB006     | ICB006   | ICB    | 11/20/24 12:38 |                                     | Kareem   | OK     |
| 10  | ICSA006    | ICSA006  | ICSA   | 11/20/24 12:52 | Inst. paused for review             | Kareem   | OK     |
| 11  | ICSAB006   | ICSAB006 | ICSAB  | 11/20/24 12:56 |                                     | Kareem   | OK     |
| 12  | CCV034     | CCV034   | CCV    | 11/20/24 13:01 |                                     | Kareem   | OK     |
| 13  | CCB034     | CCB034   | CCB    | 11/20/24 13:05 |                                     | Kareem   | OK     |
| 14  | P4880-22   | MBHH97   | SAM    | 11/20/24 13:09 |                                     | Kareem   | OK     |
| 15  | P4907-18   | MBHHF0   | SAM    | 11/20/24 13:14 |                                     | Kareem   | OK     |
| 16  | P4907-19   | MBHHF1   | SAM    | 11/20/24 13:19 |                                     | Kareem   | OK     |
| 17  | PB165068BL | PBW068   | MB     | 11/20/24 13:23 |                                     | Kareem   | OK     |
| 18  | PB165068BS | LCS068   | LCS    | 11/20/24 13:28 |                                     | Kareem   | OK     |



Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|                  |                                                         |              |                       |
|------------------|---------------------------------------------------------|--------------|-----------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 11/21/2024 7:25:19 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                       |
| ICAL Standard    | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |              |                       |
| ICV Standard     | MP83143                                                 |              |                       |
| CCV Standard     | MP83146                                                 |              |                       |
| ICSA Standard    | MP83144,MP83145                                         |              |                       |
| CRI Standard     |                                                         |              |                       |
| LCS Standard     | MP83141                                                 |              |                       |
| Chk Standard     | MP83148,MP83149                                         |              |                       |

|    |           |        |     |                |         |        |          |
|----|-----------|--------|-----|----------------|---------|--------|----------|
| 19 | P4879-01  | E29X1  | SAM | 11/20/24 13:32 | Ca high | Kareem | Dilution |
| 20 | P4879-02  | E29X2  | SAM | 11/20/24 13:37 | Ca high | Kareem | Dilution |
| 21 | P4879-03  | E29X3  | SAM | 11/20/24 13:41 | Ca high | Kareem | Dilution |
| 22 | P4879-04  | E29X4  | SAM | 11/20/24 13:46 | Ca high | Kareem | Dilution |
| 23 | P4879-05  | E29X5  | SAM | 11/20/24 13:50 | Ca high | Kareem | Dilution |
| 24 | P4879-06  | E29X5D | DUP | 11/20/24 13:55 | Ca high | Kareem | Dilution |
| 25 | P4879-05L | E29X5L | SD  | 11/20/24 14:00 | Ca high | Kareem | Dilution |
| 26 | P4879-07  | E29X5S | MS  | 11/20/24 14:04 |         | Kareem | OK       |
| 27 | P4879-08  | E29X6  | SAM | 11/20/24 14:09 | Ca high | Kareem | Dilution |
| 28 | P4879-09  | E29X7  | SAM | 11/20/24 14:13 | Ca high | Kareem | Dilution |
| 29 | P4879-10  | E29X8  | SAM | 11/20/24 14:18 | Ca high | Kareem | Dilution |
| 30 | P4879-11  | E29X9  | SAM | 11/20/24 14:22 |         | Kareem | OK       |
| 31 | P4879-12  | E29Y0  | SAM | 11/20/24 14:27 | Ca high | Kareem | Dilution |
| 32 | P4879-13  | E29Y1  | SAM | 11/20/24 14:31 | Ca high | Kareem | Dilution |
| 33 | P4879-14  | E29Y2  | SAM | 11/20/24 14:36 | Ca high | Kareem | Dilution |
| 34 | CCV035    | CCV035 | CCV | 11/20/24 14:41 |         | Kareem | OK       |
| 35 | CCB035    | CCB035 | CCB | 11/20/24 14:45 |         | Kareem | OK       |
| 36 | P4879-15  | E29Y3  | SAM | 11/20/24 14:50 | Ca high | Kareem | Dilution |
| 37 | P4879-16  | E29Y4  | SAM | 11/20/24 14:54 | Ca high | Kareem | Dilution |
| 38 | P4879-17  | E29Y5  | SAM | 11/20/24 14:59 | Ca high | Kareem | Dilution |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|              |                 |              |                       |
|--------------|-----------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By | Mohan Bera      | Supervise On | 11/21/2024 7:25:19 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |
| ICV Standard  | MP83143                                                 |
| CCV Standard  | MP83146                                                 |
| ICSA Standard | MP83144,MP83145                                         |
| CRI Standard  |                                                         |
| LCS Standard  | MP83141                                                 |
| Chk Standard  | MP83148,MP83149                                         |

|    |            |        |     |                |         |        |          |
|----|------------|--------|-----|----------------|---------|--------|----------|
| 39 | P4879-18   | E29Y9  | SAM | 11/20/24 15:03 | Ca high | Kareem | Dilution |
| 40 | P4879-19   | E29Z0  | SAM | 11/20/24 15:08 | Ca high | Kareem | Dilution |
| 41 | P4879-20   | E29Y6  | SAM | 11/20/24 15:12 | Ca high | Kareem | Dilution |
| 42 | P4879-21   | E29Y7  | SAM | 11/20/24 15:17 |         | Kareem | OK       |
| 43 | P4879-22   | E2A11  | SAM | 11/20/24 15:22 | Ca high | Kareem | Dilution |
| 44 | PB165106BL | PBS106 | MB  | 11/20/24 15:26 |         | Kareem | OK       |
| 45 | PB165106BS | LCS106 | LCS | 11/20/24 15:31 |         | Kareem | OK       |
| 46 | P4880-01   | MBHH78 | SAM | 11/20/24 15:35 |         | Kareem | OK       |
| 47 | P4880-02   | MBHH79 | SAM | 11/20/24 15:40 |         | Kareem | OK       |
| 48 | P4880-03   | MBHH80 | SAM | 11/20/24 15:44 |         | Kareem | OK       |
| 49 | P4880-04   | MBHH81 | SAM | 11/20/24 15:48 |         | Kareem | OK       |
| 50 | P4880-05   | MBHH82 | SAM | 11/20/24 15:53 |         | Kareem | OK       |
| 51 | P4880-06   | MBHH83 | SAM | 11/20/24 15:57 |         | Kareem | OK       |
| 52 | P4880-07   | MBHH84 | SAM | 11/20/24 16:02 |         | Kareem | OK       |
| 53 | P4880-08   | MBHH85 | SAM | 11/20/24 16:06 |         | Kareem | OK       |
| 54 | P4880-09   | MBHH86 | SAM | 11/20/24 16:10 |         | Kareem | OK       |
| 55 | P4880-10   | MBHH87 | SAM | 11/20/24 16:15 |         | Kareem | OK       |
| 56 | CCV036     | CCV036 | CCV | 11/20/24 16:19 |         | Kareem | OK       |
| 57 | CCB036     | CCB036 | CCB | 11/20/24 16:24 |         | Kareem | OK       |
| 58 | P4880-11   | MBHH88 | SAM | 11/20/24 16:28 |         | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|              |                 |              |                       |
|--------------|-----------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By | Mohan Bera      | Supervise On | 11/21/2024 7:25:19 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |
| ICV Standard  | MP83143                                                 |
| CCV Standard  | MP83146                                                 |
| ICSA Standard | MP83144,MP83145                                         |
| CRI Standard  |                                                         |
| LCS Standard  | MP83141                                                 |
| Chk Standard  | MP83148,MP83149                                         |

|    |            |         |     |                |         |        |          |
|----|------------|---------|-----|----------------|---------|--------|----------|
| 59 | P4880-12   | MBHH89  | SAM | 11/20/24 16:33 | Ca high | Kareem | Dilution |
| 60 | P4880-13   | MBHH90  | SAM | 11/20/24 16:37 |         | Kareem | OK       |
| 61 | P4880-14   | MBHH91  | SAM | 11/20/24 16:42 | NOT USE | Kareem | Not Ok   |
| 62 | P4880-15   | MBHH91D | DUP | 11/20/24 16:46 | NOT USE | Kareem | Not Ok   |
| 63 | P4880-14L  | MBHH91L | SD  | 11/20/24 16:50 | NOT USE | Kareem | Not Ok   |
| 64 | P4880-16   | MBHH91S | MS  | 11/20/24 16:55 | NOT USE | Kareem | Not Ok   |
| 65 | P4880-17   | MBHH92  | SAM | 11/20/24 16:59 |         | Kareem | OK       |
| 66 | P4880-18   | MBHH93  | SAM | 11/20/24 17:03 |         | Kareem | OK       |
| 67 | P4880-19   | MBHH94  | SAM | 11/20/24 17:08 |         | Kareem | OK       |
| 68 | P4880-20   | MBHH95  | SAM | 11/20/24 17:12 |         | Kareem | OK       |
| 69 | P4880-21   | MBHH96  | SAM | 11/20/24 17:17 |         | Kareem | OK       |
| 70 | PB165050BL | PBS050  | MB  | 11/20/24 17:21 |         | Kareem | OK       |
| 71 | PB165050BS | LCS050  | LCS | 11/20/24 17:25 |         | Kareem | OK       |
| 72 | P4905-01   | MBHHA5  | SAM | 11/20/24 17:30 |         | Kareem | OK       |
| 73 | P4905-02   | MBHHA6  | SAM | 11/20/24 17:34 | NOT USE | Kareem | Not Ok   |
| 74 | P4905-03   | MBHHA6D | DUP | 11/20/24 17:39 | NOT USE | Kareem | Not Ok   |
| 75 | P4905-02L  | MBHHA6L | SD  | 11/20/24 17:43 | NOT USE | Kareem | Not Ok   |
| 76 | P4905-04   | MBHHA6S | MS  | 11/20/24 17:48 | NOT USE | Kareem | Not Ok   |
| 77 | P4905-05   | MBHHA7  | SAM | 11/20/24 17:52 |         | Kareem | OK       |
| 78 | CCV037     | CCV037  | CCV | 11/20/24 17:56 |         | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|              |                 |              |                       |
|--------------|-----------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By | Mohan Bera      | Supervise On | 11/21/2024 7:25:19 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |
| ICV Standard  | MP83143                                                 |
| CCV Standard  | MP83146                                                 |
| ICSA Standard | MP83144,MP83145                                         |
| CRI Standard  |                                                         |
| LCS Standard  | MP83141                                                 |
| Chk Standard  | MP83148,MP83149                                         |

|    |            |        |     |                |           |        |          |
|----|------------|--------|-----|----------------|-----------|--------|----------|
| 79 | CCB037     | CCB037 | CCB | 11/20/24 18:01 |           | Kareem | OK       |
| 80 | P4905-06   | MBHHA8 | SAM | 11/20/24 18:05 |           | Kareem | OK       |
| 81 | P4905-07   | MBHHA9 | SAM | 11/20/24 18:10 |           | Kareem | OK       |
| 82 | P4905-08   | MBHHA0 | SAM | 11/20/24 18:14 |           | Kareem | OK       |
| 83 | P4905-09   | MBHHA1 | SAM | 11/20/24 18:18 |           | Kareem | OK       |
| 84 | P4905-10   | MBHHC5 | SAM | 11/20/24 18:23 |           | Kareem | OK       |
| 85 | P4905-11   | MBHHC6 | SAM | 11/20/24 18:27 |           | Kareem | OK       |
| 86 | P4905-12   | MBHHC7 | SAM | 11/20/24 18:31 |           | Kareem | OK       |
| 87 | P4905-13   | MBHHC8 | SAM | 11/20/24 18:36 |           | Kareem | OK       |
| 88 | P4905-14   | MBHHC9 | SAM | 11/20/24 18:40 |           | Kareem | OK       |
| 89 | P4905-15   | MBHHD0 | SAM | 11/20/24 18:45 |           | Kareem | OK       |
| 90 | P4905-16   | MBHHD1 | SAM | 11/20/24 18:49 |           | Kareem | OK       |
| 91 | P4905-17   | MBHHD2 | SAM | 11/20/24 18:53 |           | Kareem | OK       |
| 92 | P4905-18   | MBHHD3 | SAM | 11/20/24 18:58 |           | Kareem | OK       |
| 93 | P4905-19   | MBHHD4 | SAM | 11/20/24 19:02 |           | Kareem | OK       |
| 94 | P4905-20   | MBHHD5 | SAM | 11/20/24 19:07 |           | Kareem | OK       |
| 95 | PB165101BL | PBS101 | MB  | 11/20/24 19:11 |           | Kareem | OK       |
| 96 | PB165101BS | LCS101 | LCS | 11/20/24 19:15 |           | Kareem | OK       |
| 97 | P4728-19DL | MBH9F6 | SAM | 11/20/24 19:20 | 2x for Ca | Kareem | Confirms |
| 98 | P4879-01DL | E29X1  | SAM | 11/20/24 19:25 | 2x for Ca | Kareem | Confirms |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|                  |                                                         |              |                       |
|------------------|---------------------------------------------------------|--------------|-----------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 11/21/2024 7:25:19 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                       |
| ICAL Standard    | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |              |                       |
| ICV Standard     | MP83143                                                 |              |                       |
| CCV Standard     | MP83146                                                 |              |                       |
| ICSA Standard    | MP83144,MP83145                                         |              |                       |
| CRI Standard     |                                                         |              |                       |
| LCS Standard     | MP83141                                                 |              |                       |
| Chk Standard     | MP83148,MP83149                                         |              |                       |

|     |             |        |     |                |              |        |          |
|-----|-------------|--------|-----|----------------|--------------|--------|----------|
| 99  | P4879-02DL  | E29X2  | SAM | 11/20/24 19:29 | 5x for Ca    | Kareem | Confirms |
| 100 | CCV038      | CCV038 | CCV | 11/20/24 19:34 |              | Kareem | OK       |
| 101 | CCB038      | CCB038 | CCB | 11/20/24 19:38 |              | Kareem | OK       |
| 102 | P4879-03DL  | E29X3  | SAM | 11/20/24 19:43 | 2x for Ca    | Kareem | Confirms |
| 103 | P4879-04DL  | E29X4  | SAM | 11/20/24 19:47 | 5x for Ca    | Kareem | Confirms |
| 104 | P4879-05DL  | E29X5  | SAM | 11/20/24 19:52 | 2x for Ca    | Kareem | Confirms |
| 105 | P4879-06DL  | E29X5D | DUP | 11/20/24 19:56 | 2x for Ca    | Kareem | Confirms |
| 106 | P4879-05LDL | E29X5L | SD  | 11/20/24 20:01 | 10x for Ca   | Kareem | Confirms |
| 107 | P4879-07DL  | E29X5S | MS  | 11/20/24 20:05 | Not required | Kareem | Not Ok   |
| 108 | P4879-08DL  | E29X6  | SAM | 11/20/24 20:10 | 5x for Ca    | Kareem | Confirms |
| 109 | P4879-09DL  | E29X7  | SAM | 11/20/24 20:14 | 5x for Ca    | Kareem | Confirms |
| 110 | P4879-10DL  | E29X8  | SAM | 11/20/24 20:18 | 2x for Ca    | Kareem | Confirms |
| 111 | P4879-12DL  | E29Y0  | SAM | 11/20/24 20:23 | 2x for Ca    | Kareem | Confirms |
| 112 | P4879-13DL  | E29Y1  | SAM | 11/20/24 20:27 | 2x for Ca    | Kareem | Confirms |
| 113 | P4879-14DL  | E29Y2  | SAM | 11/20/24 20:32 | 2x for Ca    | Kareem | Confirms |
| 114 | P4879-15DL  | E29Y3  | SAM | 11/20/24 20:36 | 2x for Ca    | Kareem | Confirms |
| 115 | P4879-16DL  | E29Y4  | SAM | 11/20/24 20:41 | 2x for Ca    | Kareem | Confirms |
| 116 | P4879-17DL  | E29Y5  | SAM | 11/20/24 20:45 | 2x for Ca    | Kareem | Confirms |
| 117 | P4879-18DL  | E29Y9  | SAM | 11/20/24 20:50 | 2x for Ca    | Kareem | Confirms |
| 118 | P4879-19DL  | E29Z0  | SAM | 11/20/24 20:54 | 2x for Ca    | Kareem | Confirms |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133543**

|              |                 |              |                       |
|--------------|-----------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal | Review On    | 11/21/2024 7:23:59 AM |
| Supervise By | Mohan Bera      | Supervise On | 11/21/2024 7:25:19 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83134,MP83142,MP83140,MP83139,MP83138,MP83137,MP83136 |
| ICV Standard  | MP83143                                                 |
| CCV Standard  | MP83146                                                 |
| ICSA Standard | MP83144,MP83145                                         |
| CRI Standard  |                                                         |
| LCS Standard  | MP83141                                                 |
| Chk Standard  | MP83148,MP83149                                         |

|     |            |        |     |                |           |        |          |
|-----|------------|--------|-----|----------------|-----------|--------|----------|
| 119 | P4879-20DL | E29Y6  | SAM | 11/20/24 20:59 | 2x for Ca | Kareem | Confirms |
| 120 | P4879-22DL | E2A11  | SAM | 11/20/24 21:04 | 2x for Ca | Kareem | Confirms |
| 121 | CCV039     | CCV039 | CCV | 11/20/24 21:08 |           | Kareem | OK       |
| 122 | CCB039     | CCB039 | CCB | 11/20/24 21:12 |           | Kareem | OK       |

**Instrument ID:** P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|                  |                                                         |              |                       |
|------------------|---------------------------------------------------------|--------------|-----------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By     | Kareem Khairalla                                        | Supervise On | 12/13/2024 7:24:03 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                       |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                       |
| ICV Standard     | MP83508                                                 |              |                       |
| CCV Standard     | MP83511                                                 |              |                       |
| ICSA Standard    | MP83509,MP83510                                         |              |                       |
| CRI Standard     |                                                         |              |                       |
| LCS Standard     |                                                         |              |                       |
| Chk Standard     | MP83513,MP83514                                         |              |                       |

| Sr# | SampleId   | ClientID | QcType | Date           | Comment                             | Operator | Status |
|-----|------------|----------|--------|----------------|-------------------------------------|----------|--------|
| 1   | S0         | S0       | CAL1   | 12/10/24 15:54 |                                     | Kareem   | OK     |
| 2   | S1         | S01      | CAL2   | 12/10/24 15:58 |                                     | Kareem   | OK     |
| 3   | S2         | S02      | CAL3   | 12/10/24 16:02 |                                     | Kareem   | OK     |
| 4   | S3         | S03      | CAL4   | 12/10/24 16:06 |                                     | Kareem   | OK     |
| 5   | S4         | S04      | CAL5   | 12/10/24 16:09 |                                     | Kareem   | OK     |
| 6   | S5         | S05      | CAL6   | 12/10/24 16:13 |                                     | Kareem   | OK     |
| 7   | S6         | S06      | CAL7   | 12/10/24 16:17 |                                     | Kareem   | OK     |
| 8   | ICV014     | ICV014   | ICV    | 12/10/24 16:45 | Inst. paused for Calibration review | Kareem   | OK     |
| 9   | ICB014     | ICB014   | ICB    | 12/10/24 16:51 | Inst. paused for review             | Kareem   | OK     |
| 10  | ICSA014    | ICSA014  | ICSA   | 12/10/24 17:21 | Inst. paused for review             | Kareem   | OK     |
| 11  | ICSAB014   | ICSAB014 | ICSAB  | 12/10/24 17:27 |                                     | Kareem   | OK     |
| 12  | CCV089     | CCV089   | CCV    | 12/10/24 17:48 | Inst. paused for review             | Kareem   | OK     |
| 13  | CCB089     | CCB089   | CCB    | 12/10/24 17:52 |                                     | Kareem   | OK     |
| 14  | PB165364BL | PBS364   | MB     | 12/10/24 17:56 |                                     | Kareem   | OK     |
| 15  | PB165351BL | PBS351   | MB     | 12/10/24 18:04 |                                     | Kareem   | OK     |
| 16  | PB165364BS | LCS364   | LCS    | 12/10/24 18:09 |                                     | Kareem   | OK     |
| 17  | PB165351BS | LCS351   | LCS    | 12/10/24 18:13 |                                     | Kareem   | OK     |
| 18  | PB165350BL | PBS350   | MB     | 12/10/24 18:17 |                                     | Kareem   | OK     |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|                  |                                                         |              |                       |
|------------------|---------------------------------------------------------|--------------|-----------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By     | Kareem Khairalla                                        | Supervise On | 12/13/2024 7:24:03 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                       |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                       |
| ICV Standard     | MP83508                                                 |              |                       |
| CCV Standard     | MP83511                                                 |              |                       |
| ICSA Standard    | MP83509,MP83510                                         |              |                       |
| CRI Standard     |                                                         |              |                       |
| LCS Standard     |                                                         |              |                       |
| Chk Standard     | MP83513,MP83514                                         |              |                       |

|    |            |         |     |                |                          |        |          |
|----|------------|---------|-----|----------------|--------------------------|--------|----------|
| 19 | PB165350BS | LCS350  | LCS | 12/10/24 18:22 |                          | Kareem | OK       |
| 20 | CCV090     | CCV090  | CCV | 12/10/24 18:26 |                          | Kareem | OK       |
| 21 | CCB090     | CCB090  | CCB | 12/10/24 18:29 |                          | Kareem | OK       |
| 22 | P5041-01   | MBHK78  | SAM | 12/10/24 18:33 |                          | Kareem | OK       |
| 23 | P5041-02   | MBHK78D | DUP | 12/10/24 18:37 |                          | Kareem | OK       |
| 24 | P5041-01L  | MBHK78L | SD  | 12/10/24 18:41 |                          | Kareem | OK       |
| 25 | P5041-03   | MBHK78S | MS  | 12/10/24 18:45 | MS Fail For Se(Below RL) | Kareem | OK       |
| 26 | P5042-01   | MBHKB0  | SAM | 12/10/24 18:49 | Not Use                  | Kareem | Not Ok   |
| 27 | P5042-02   | MBHKB0D | DUP | 12/10/24 18:53 | Not Use                  | Kareem | Not Ok   |
| 28 | P5042-01L  | MBHKB0L | SD  | 12/10/24 18:56 | Not Use                  | Kareem | Not Ok   |
| 29 | P5042-03   | MBHKB0S | MS  | 12/10/24 19:00 | Not Use                  | Kareem | Not Ok   |
| 30 | P5043-01   | MBHKM2  | SAM | 12/10/24 19:04 |                          | Kareem | OK       |
| 31 | P5043-02   | MBHKM2D | DUP | 12/10/24 19:08 |                          | Kareem | OK       |
| 32 | P5043-01L  | MBHKM2L | SD  | 12/10/24 19:12 |                          | Kareem | OK       |
| 33 | P5043-03   | MBHKM2S | MS  | 12/10/24 19:16 | MS Fail For Ag           | Kareem | OK       |
| 34 | P4977-03   | ME29F8  | SAM | 12/10/24 19:20 | Ca High                  | Kareem | Dilution |
| 35 | P4977-04   | ME29F8D | DUP | 12/10/24 19:23 | Ca High                  | Kareem | Dilution |
| 36 | P4977-03L  | ME29F8L | SD  | 12/10/24 19:27 | Ca High                  | Kareem | Dilution |
| 37 | P4977-05   | ME29F8S | MS  | 12/10/24 19:31 |                          | Kareem | OK       |
| 38 | P4976-09   | ME29E4D | DUP | 12/10/24 19:35 | Ca High                  | Kareem | Dilution |



Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|                  |                                                         |              |                       |
|------------------|---------------------------------------------------------|--------------|-----------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By     | Kareem Khairalla                                        | Supervise On | 12/13/2024 7:24:03 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                       |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                       |
| ICV Standard     | MP83508                                                 |              |                       |
| CCV Standard     | MP83511                                                 |              |                       |
| ICSA Standard    | MP83509,MP83510                                         |              |                       |
| CRI Standard     |                                                         |              |                       |
| LCS Standard     |                                                         |              |                       |
| Chk Standard     | MP83513,MP83514                                         |              |                       |

|    |           |         |     |                |                          |        |          |
|----|-----------|---------|-----|----------------|--------------------------|--------|----------|
| 39 | P4976-08L | ME29E4L | SD  | 12/10/24 19:39 | Ca High                  | Kareem | Dilution |
| 40 | P4976-10  | ME29E4S | MS  | 12/10/24 19:43 |                          | Kareem | OK       |
| 41 | P5040-01  | MBHKD6  | SAM | 12/10/24 19:47 |                          | Kareem | OK       |
| 42 | CCV091    | CCV091  | CCV | 12/10/24 19:51 |                          | Kareem | OK       |
| 43 | CCB091    | CCB091  | CCB | 12/10/24 19:54 |                          | Kareem | OK       |
| 44 | P5040-02  | MBHKD6D | DUP | 12/10/24 19:58 |                          | Kareem | OK       |
| 45 | P5040-01L | MBHKD6L | SD  | 12/10/24 20:02 |                          | Kareem | OK       |
| 46 | P5040-03  | MBHKD6S | MS  | 12/10/24 20:06 | MS Fail For Se(Below RL) | Kareem | OK       |
| 47 | P4977-01  | ME29F6  | SAM | 12/10/24 20:10 | Ca High                  | Kareem | Dilution |
| 48 | P4977-02  | ME29F7  | SAM | 12/10/24 20:14 | Ca High                  | Kareem | Dilution |
| 49 | P4977-06  | ME29F9  | SAM | 12/10/24 20:18 | Ca High                  | Kareem | Dilution |
| 50 | P4977-07  | ME29G0  | SAM | 12/10/24 20:21 | Ca High                  | Kareem | Dilution |
| 51 | P4977-08  | ME29G1  | SAM | 12/10/24 20:25 | Ca High                  | Kareem | Dilution |
| 52 | P4977-09  | ME29G2  | SAM | 12/10/24 20:29 | Ca High                  | Kareem | Dilution |
| 53 | P4976-01  | ME29D7  | SAM | 12/10/24 20:33 | Ca High                  | Kareem | Dilution |
| 54 | P4976-02  | ME29D8  | SAM | 12/10/24 20:37 | Ca High                  | Kareem | Dilution |
| 55 | P4976-03  | ME29D9  | SAM | 12/10/24 20:41 | Ca High                  | Kareem | Dilution |
| 56 | P4976-04  | ME29E0  | SAM | 12/10/24 20:45 |                          | Kareem | OK       |
| 57 | P4976-05  | ME29E1  | SAM | 12/10/24 20:48 | Ca High                  | Kareem | Dilution |
| 58 | P4976-06  | ME29E2  | SAM | 12/10/24 20:52 | Ca High                  | Kareem | Dilution |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|              |                  |              |                       |
|--------------|------------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal  | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By | Kareem Khairalla | Supervise On | 12/13/2024 7:24:03 PM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  |                                                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|    |           |         |     |                |                             |        |          |
|----|-----------|---------|-----|----------------|-----------------------------|--------|----------|
| 59 | P4976-07  | ME29E3  | SAM | 12/10/24 20:56 | Ca High                     | Kareem | Dilution |
| 60 | P4976-08  | ME29E4  | SAM | 12/10/24 21:00 | Ca High                     | Kareem | Dilution |
| 61 | P4976-11  | ME29E5  | SAM | 12/10/24 21:04 | Ca High                     | Kareem | Dilution |
| 62 | P4976-12  | ME29E6  | SAM | 12/10/24 21:08 | Ca High                     | Kareem | Dilution |
| 63 | P4976-13  | ME29E7  | SAM | 12/10/24 21:12 | Ca High                     | Kareem | Dilution |
| 64 | CCV092    | CCV092  | CCV | 12/10/24 21:29 |                             | Kareem | OK       |
| 65 | CCB092    | CCB092  | CCB | 12/10/24 21:52 | Inst. paused for review     | Kareem | OK       |
| 66 | P4976-14  | ME29E8  | SAM | 12/10/24 21:56 | Ca High                     | Kareem | Dilution |
| 67 | P4976-15  | ME29E9  | SAM | 12/10/24 22:00 | Ca High                     | Kareem | Dilution |
| 68 | P4976-16  | ME29F0  | SAM | 12/10/24 22:04 | Ca High                     | Kareem | Dilution |
| 69 | P4976-17  | ME29F1  | SAM | 12/10/24 22:08 | Ca High                     | Kareem | Dilution |
| 70 | P4976-18  | ME29F2  | SAM | 12/10/24 22:12 | Ca High                     | Kareem | Dilution |
| 71 | P4976-19  | ME29F3  | SAM | 12/10/24 22:16 | Ca High                     | Kareem | Dilution |
| 72 | P4976-20  | ME29F4  | SAM | 12/10/24 22:20 | Ca High                     | Kareem | Dilution |
| 73 | P4976-21  | ME29F5  | SAM | 12/10/24 22:23 | Ca High                     | Kareem | Dilution |
| 74 | P4880-14  | MBHH91  | SAM | 12/10/24 22:27 |                             | Kareem | OK       |
| 75 | P4880-15  | MBHH91D | DUP | 12/10/24 22:31 |                             | Kareem | OK       |
| 76 | P4880-14L | MBHH91L | SD  | 12/10/24 22:35 |                             | Kareem | OK       |
| 77 | P4880-16  | MBHH91S | MS  | 12/10/24 22:39 | MS Fail For Ag,Se(Below RL) | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|              |                  |              |                       |
|--------------|------------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal  | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By | Kareem Khairalla | Supervise On | 12/13/2024 7:24:03 PM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  |                                                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|    |            |         |     |                |                                                                                                  |        |          |
|----|------------|---------|-----|----------------|--------------------------------------------------------------------------------------------------|--------|----------|
| 78 | P4880-12DL | MBHH89  | SAM | 12/10/24 22:43 | 2X For Ca                                                                                        | Kareem | Confirms |
| 79 | P4905-02   | MBHHA6  | SAM | 12/10/24 22:46 |                                                                                                  | Kareem | OK       |
| 80 | P4905-03   | MBHHA6D | DUP | 12/10/24 22:50 |                                                                                                  | Kareem | OK       |
| 81 | P4905-02L  | MBHHA6L | SD  | 12/10/24 22:54 |                                                                                                  | Kareem | OK       |
| 82 | P4905-04   | MBHHA6S | MS  | 12/10/24 22:58 | MS Fail For<br>Sb,As(115.87ppb),Ba(2331<br>.33ppb),Cu(457.90),Se(Bel<br>ow RL),Ag,Zn(2281.14ppb) | Kareem | OK       |
| 83 | CCV093     | CCV093  | CCV | 12/10/24 23:02 |                                                                                                  | Kareem | OK       |
| 84 | CCB093     | CCB093  | CCB | 12/10/24 23:05 |                                                                                                  | Kareem | OK       |
| 85 | P4907-01A  | MBHHE1A | PS  | 12/10/24 23:09 | Not Use                                                                                          | Kareem | Not Ok   |
| 86 | P4912-04A  | MBHHJ4A | PS  | 12/10/24 23:13 | PS For Cu(0.012ml<br>m5751,Se-0.07ml<br>mp83617,Zn-0.068ml<br>m5819                              | Kareem | OK       |
| 87 | P4912-14   | MBHHK2  | SAM | 12/10/24 23:17 |                                                                                                  | Kareem | OK       |
| 88 | P4912-15   | MBHHK3  | SAM | 12/10/24 23:21 |                                                                                                  | Kareem | OK       |
| 89 | P4912-16   | MBHHL8  | SAM | 12/10/24 23:24 |                                                                                                  | Kareem | OK       |
| 90 | P4912-17   | MBHHL9  | SAM | 12/10/24 23:28 |                                                                                                  | Kareem | OK       |
| 91 | P4912-18   | MBHHM0  | SAM | 12/10/24 23:32 |                                                                                                  | Kareem | OK       |
| 92 | P4912-19   | MBHHM1  | SAM | 12/10/24 23:36 |                                                                                                  | Kareem | OK       |
| 93 | P4912-20   | MBHHM2  | SAM | 12/10/24 23:40 |                                                                                                  | Kareem | OK       |
| 94 | P4912-21   | MBHHM3  | SAM | 12/10/24 23:43 |                                                                                                  | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|              |                  |              |                       |
|--------------|------------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal  | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By | Kareem Khairalla | Supervise On | 12/13/2024 7:24:03 PM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  |                                                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|     |           |         |     |                |                                           |        |        |
|-----|-----------|---------|-----|----------------|-------------------------------------------|--------|--------|
| 95  | P4912-22  | MBHBM4  | SAM | 12/10/24 23:47 |                                           | Kareem | OK     |
| 96  | P4914-11A | MBHHK4A | PS  | 12/10/24 23:51 | PS For Cu(0.01ML<br>M5751-10ML SAMPLE)    | Kareem | OK     |
| 97  | P4915-08A | MBHBM8A | PS  | 12/10/24 23:55 | PS For Se - 0.07ml<br>mp83567-10ml sample | Kareem | OK     |
| 98  | P4915-01  | MBHHL4  | SAM | 12/10/24 23:58 |                                           | Kareem | OK     |
| 99  | P4915-02  | MBHHL5  | SAM | 12/11/24 00:02 |                                           | Kareem | OK     |
| 100 | P4915-03  | MBHHL6  | SAM | 12/11/24 00:06 |                                           | Kareem | OK     |
| 101 | P4915-04  | MBHHL7  | SAM | 12/11/24 00:10 |                                           | Kareem | OK     |
| 102 | P4915-05  | MBHBM5  | SAM | 12/11/24 00:14 |                                           | Kareem | OK     |
| 103 | P4915-06  | MBHBM6  | SAM | 12/11/24 00:18 | Not Use                                   | Kareem | Not Ok |
| 104 | P4932-02  | MBHHQ2  | SAM | 12/11/24 00:22 | Not Use                                   | Kareem | Not Ok |
| 105 | CCV094    | CCV094  | CCV | 12/11/24 00:25 |                                           | Kareem | OK     |
| 106 | CCB094    | CCB094  | CCB | 12/11/24 00:29 |                                           | Kareem | OK     |
| 107 | P4932-01  | MBHHQ1  | SAM | 12/11/24 00:33 | Not Use                                   | Kareem | Not Ok |
| 108 | P4932-05  | MBHHQ3  | SAM | 12/11/24 00:37 | Not Use                                   | Kareem | Not Ok |
| 109 | P4932-06  | MBHHQ4  | SAM | 12/11/24 00:41 | Not Use                                   | Kareem | Not Ok |
| 110 | P4932-07  | MBHHQ5  | SAM | 12/11/24 00:44 | Not Use                                   | Kareem | Not Ok |
| 111 | P4932-08  | MBHHQ6  | SAM | 12/11/24 00:48 | Not Use                                   | Kareem | Not Ok |
| 112 | P4932-09  | MBHHQ7  | SAM | 12/11/24 00:52 | Not Use                                   | Kareem | Not Ok |
| 113 | P4932-10  | MBHHQ8  | SAM | 12/11/24 00:56 | Not Use                                   | Kareem | Not Ok |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|                  |                                                         |              |                       |
|------------------|---------------------------------------------------------|--------------|-----------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By     | Kareem Khairalla                                        | Supervise On | 12/13/2024 7:24:03 PM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                       |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                       |
| ICV Standard     | MP83508                                                 |              |                       |
| CCV Standard     | MP83511                                                 |              |                       |
| ICSA Standard    | MP83509,MP83510                                         |              |                       |
| CRI Standard     |                                                         |              |                       |
| LCS Standard     |                                                         |              |                       |
| Chk Standard     | MP83513,MP83514                                         |              |                       |

|     |            |         |     |                |           |        |          |
|-----|------------|---------|-----|----------------|-----------|--------|----------|
| 114 | P4932-11   | MBHHQ9  | SAM | 12/11/24 00:59 | Not Use   | Kareem | Not Ok   |
| 115 | P4932-12   | MBHHP1  | SAM | 12/11/24 01:03 | Not Use   | Kareem | Not Ok   |
| 116 | P4932-13   | MBHHP2  | SAM | 12/11/24 01:07 | Not Use   | Kareem | Not Ok   |
| 117 | P4932-14   | MBHHP3  | SAM | 12/11/24 01:11 | Not Use   | Kareem | Not Ok   |
| 118 | P4932-15   | MBHHP4  | SAM | 12/11/24 01:15 | Not Use   | Kareem | Not Ok   |
| 119 | P4932-16   | MBHHP5  | SAM | 12/11/24 01:18 | Not Use   | Kareem | Not Ok   |
| 120 | P4932-17   | MBHHP6  | SAM | 12/11/24 01:22 | Not Use   | Kareem | Not Ok   |
| 121 | P4932-18   | MBHHP7  | SAM | 12/11/24 01:26 | Not Use   | Kareem | Not Ok   |
| 122 | P4932-19   | MBHHP8  | SAM | 12/11/24 01:30 | Not Use   | Kareem | Not Ok   |
| 123 | P4932-20   | MBHHP9  | SAM | 12/11/24 01:34 | Not Use   | Kareem | Not Ok   |
| 124 | P4932-21   | MBHHQ0  | SAM | 12/11/24 01:37 | Not Use   | Kareem | Not Ok   |
| 125 | P4932-22   | MBHHR0  | SAM | 12/11/24 01:41 | Not Use   | Kareem | Not Ok   |
| 126 | P4933-05DL | MBHHR5  | SAM | 12/11/24 01:45 | 5X For Mn | Kareem | Confirms |
| 127 | CCV095     | CCV095  | CCV | 12/11/24 01:49 |           | Kareem | OK       |
| 128 | CCB095     | CCB095  | CCB | 12/11/24 01:52 |           | Kareem | OK       |
| 129 | P4933-18   | MBHHX2  | SAM | 12/11/24 01:56 |           | Kareem | OK       |
| 130 | P4933-19   | MBHHX3  | SAM | 12/11/24 02:00 |           | Kareem | OK       |
| 131 | P4933-20   | MBHHX4  | SAM | 12/11/24 02:04 |           | Kareem | OK       |
| 132 | P4933-21   | MBHHX4D | DUP | 12/11/24 02:08 |           | Kareem | OK       |
| 133 | P4933-20L  | MBHHX4L | SD  | 12/11/24 02:12 |           | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133883**

|              |                  |              |                       |
|--------------|------------------|--------------|-----------------------|
| Review By    | Sarabjit Jaswal  | Review On    | 12/12/2024 8:19:04 AM |
| Supervise By | Kareem Khairalla | Supervise On | 12/13/2024 7:24:03 PM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  |                                                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|     |            |         |     |                |                                              |        |          |
|-----|------------|---------|-----|----------------|----------------------------------------------|--------|----------|
| 134 | P4933-22   | MBHHX4S | MS  | 12/11/24 02:15 | MS Fail for Se(Below RL),Zn(1944.24ppb)      | Kareem | OK       |
| 135 | P4939-10A  | MBHHW8A | PS  | 12/11/24 02:19 | PS For Se 0.07ml mp83617                     | Kareem | OK       |
| 136 | P4939-22DL | MBHHZ2  | SAM | 12/11/24 02:23 | 2X For Cu                                    | Kareem | Confirms |
| 137 | P5007-15DL | MBHK00  | SAM | 12/11/24 02:27 | 2X For Ca                                    | Kareem | Confirms |
| 138 | P5007-10A  | MBHJZ7A | PS  | 12/11/24 02:31 | PS For As 0.01ml mp83618                     | Kareem | OK       |
| 139 | P5014-12A  | MBHJY0A | PS  | 12/11/24 02:34 | PS For As-0.015ml mp83618, Se-0.07ml mp83617 | Kareem | OK       |
| 140 | P5015-17A  | MBHKQ6A | PS  | 12/11/24 02:38 | PS For As,Se,Tl,Zn                           | Kareem | OK       |
| 141 | P5015-05DL | MBHKK0  | SAM | 12/11/24 02:42 | 2X For Pb                                    | Kareem | Confirms |
| 142 | P5015-08DL | MBHKK3  | SAM | 12/11/24 02:46 | 2X For Ca                                    | Kareem | Confirms |
| 143 | P5015-09DL | MBHKK4  | SAM | 12/11/24 02:50 | 2X For Ca                                    | Kareem | Confirms |
| 144 | P5015-14DL | MBHKQ2  | SAM | 12/11/24 02:54 | 2X For Ca                                    | Kareem | Confirms |
| 145 | CCV096     | CCV096  | CCV | 12/11/24 02:57 |                                              | Kareem | OK       |
| 146 | CCB096     | CCB096  | CCB | 12/11/24 03:01 |                                              | Kareem | OK       |

**Instrument ID:** P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|                  |                                                         |              |                        |
|------------------|---------------------------------------------------------|--------------|------------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 12/16/2024 12:49:43 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                        |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                        |
| ICV Standard     | MP83508                                                 |              |                        |
| CCV Standard     | MP83511                                                 |              |                        |
| ICSA Standard    | MP83509,MP83510                                         |              |                        |
| CRI Standard     | M5801,M5387,M5751,MP83567,M5819                         |              |                        |
| LCS Standard     |                                                         |              |                        |
| Chk Standard     | MP83513,MP83514                                         |              |                        |

| Sr# | SampleId   | ClientID | QcType | Date           | Comment                             | Operator | Status   |
|-----|------------|----------|--------|----------------|-------------------------------------|----------|----------|
| 1   | S0         | S0       | CAL1   | 12/13/24 11:23 |                                     | Kareem   | OK       |
| 2   | S1         | S01      | CAL2   | 12/13/24 11:27 |                                     | Kareem   | OK       |
| 3   | S2         | S02      | CAL3   | 12/13/24 11:31 |                                     | Kareem   | OK       |
| 4   | S3         | S03      | CAL4   | 12/13/24 11:35 |                                     | Kareem   | OK       |
| 5   | S4         | S04      | CAL5   | 12/13/24 11:39 |                                     | Kareem   | OK       |
| 6   | S5         | S05      | CAL6   | 12/13/24 11:43 |                                     | Kareem   | OK       |
| 7   | S6         | S06      | CAL7   | 12/13/24 11:47 |                                     | Kareem   | OK       |
| 8   | ICV002     | ICV002   | ICV    | 12/13/24 12:40 | Inst. paused for calibration review | Kareem   | OK       |
| 9   | ICB002     | ICB002   | ICB    | 12/13/24 13:14 | Inst. paused for review             | Kareem   | OK       |
| 10  | ICSA002    | ICSA002  | ICSA   | 12/13/24 13:18 |                                     | Kareem   | OK       |
| 11  | ICSAB002   | ICSAB002 | ICSAB  | 12/13/24 13:22 |                                     | Kareem   | OK       |
| 12  | CCV007     | CCV007   | CCV    | 12/13/24 13:45 | Inst. paused for review             | Kareem   | OK       |
| 13  | CCB007     | CCB007   | CCB    | 12/13/24 13:49 |                                     | Kareem   | OK       |
| 14  | P4976-01DL | ME29D7   | SAM    | 12/13/24 13:53 | 2x for Ca                           | Kareem   | Confirms |
| 15  | P4976-02DL | ME29D8   | SAM    | 12/13/24 13:56 | 2x for Ca                           | Kareem   | Confirms |
| 16  | P4976-03DL | ME29D9   | SAM    | 12/13/24 14:00 | 2x for Ca                           | Kareem   | Confirms |
| 17  | P4976-05DL | ME29E1   | SAM    | 12/13/24 14:04 | 2x for Ca                           | Kareem   | Confirms |
| 18  | P4976-06DL | ME29E2   | SAM    | 12/13/24 14:08 | 2x for Ca                           | Kareem   | Confirms |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|                  |                                                         |              |                        |
|------------------|---------------------------------------------------------|--------------|------------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 12/16/2024 12:49:43 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                        |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                        |
| ICV Standard     | MP83508                                                 |              |                        |
| CCV Standard     | MP83511                                                 |              |                        |
| ICSA Standard    | MP83509,MP83510                                         |              |                        |
| CRI Standard     | M5801,M5387,M5751,MP83567,M5819                         |              |                        |
| LCS Standard     |                                                         |              |                        |
| Chk Standard     | MP83513,MP83514                                         |              |                        |

|    |             |         |     |                |            |        |          |
|----|-------------|---------|-----|----------------|------------|--------|----------|
| 19 | P4976-07DL  | ME29E3  | SAM | 12/13/24 14:12 | 2x for Ca  | Kareem | Confirms |
| 20 | P4976-08DL  | ME29E4  | SAM | 12/13/24 14:16 | 2x for Ca  | Kareem | Confirms |
| 21 | P4976-09DL  | ME29E4D | DUP | 12/13/24 14:20 | 2x for Ca  | Kareem | Confirms |
| 22 | P4976-08LDL | ME29E4L | SD  | 12/13/24 14:24 | 10x for Ca | Kareem | Confirms |
| 23 | P4976-10DL  | ME29E4S | MS  | 12/13/24 14:28 | 10x for Ca | Kareem | Confirms |
| 24 | P4976-11DL  | ME29E5  | SAM | 12/13/24 14:32 | 2x for Ca  | Kareem | Confirms |
| 25 | P4976-12DL  | ME29E6  | SAM | 12/13/24 14:36 | 2x for Ca  | Kareem | Confirms |
| 26 | P4976-13DL  | ME29E7  | SAM | 12/13/24 14:39 | 2x for Ca  | Kareem | Confirms |
| 27 | P4976-14DL  | ME29E8  | SAM | 12/13/24 14:43 | 2x for Ca  | Kareem | Confirms |
| 28 | P4976-15DL  | ME29E9  | SAM | 12/13/24 14:47 | 2x for Ca  | Kareem | Confirms |
| 29 | P4976-16DL  | ME29F0  | SAM | 12/13/24 14:51 | 2x for Ca  | Kareem | Confirms |
| 30 | P4976-17DL  | ME29F1  | SAM | 12/13/24 14:55 | 2x for Ca  | Kareem | Confirms |
| 31 | P4976-18DL  | ME29F2  | SAM | 12/13/24 14:59 | 2x for Ca  | Kareem | Confirms |
| 32 | P4976-19DL  | ME29F3  | SAM | 12/13/24 15:03 | 2x for Ca  | Kareem | Confirms |
| 33 | P4976-20DL  | ME29F4  | SAM | 12/13/24 15:07 | 2x for Ca  | Kareem | Confirms |
| 34 | CCV008      | CCV008  | CCV | 12/13/24 15:20 |            | Kareem | OK       |
| 35 | CCB008      | CCB008  | CCB | 12/13/24 15:24 |            | Kareem | OK       |
| 36 | P4976-21DL  | ME29F5  | SAM | 12/13/24 15:28 | 2x for Ca  | Kareem | Confirms |
| 37 | P4977-01DL  | ME29F6  | SAM | 12/13/24 15:32 | 2x for Ca  | Kareem | Confirms |
| 38 | P4977-02DL  | ME29F7  | SAM | 12/13/24 15:36 | 2x for Ca  | Kareem | Confirms |



Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|                  |                                                         |              |                        |
|------------------|---------------------------------------------------------|--------------|------------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 12/16/2024 12:49:43 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                        |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                        |
| ICV Standard     | MP83508                                                 |              |                        |
| CCV Standard     | MP83511                                                 |              |                        |
| ICSA Standard    | MP83509,MP83510                                         |              |                        |
| CRI Standard     | M5801,M5387,M5751,MP83567,M5819                         |              |                        |
| LCS Standard     |                                                         |              |                        |
| Chk Standard     | MP83513,MP83514                                         |              |                        |

|    |             |         |     |                |            |        |          |
|----|-------------|---------|-----|----------------|------------|--------|----------|
| 39 | P4977-03DL  | ME29F8  | SAM | 12/13/24 15:40 | 2x for Ca  | Kareem | Confirms |
| 40 | P4977-04DL  | ME29F8D | DUP | 12/13/24 15:44 | 2x for Ca  | Kareem | Confirms |
| 41 | P4977-03LDL | ME29F8L | SD  | 12/13/24 15:48 | 10x for Ca | Kareem | Confirms |
| 42 | P4977-05DL  | ME29F8S | MS  | 12/13/24 15:52 | 10x for Ca | Kareem | Confirms |
| 43 | P4977-06DL  | ME29F9  | SAM | 12/13/24 15:56 | 2x for Ca  | Kareem | Confirms |
| 44 | P4977-07DL  | ME29G0  | SAM | 12/13/24 15:59 | 2x for Ca  | Kareem | Confirms |
| 45 | P4977-08DL  | ME29G1  | SAM | 12/13/24 16:03 | 2x for Ca  | Kareem | Confirms |
| 46 | P4977-09DL  | ME29G2  | SAM | 12/13/24 16:07 | 2x for Ca  | Kareem | Confirms |
| 47 | P4981-10    | MBHJA7  | SAM | 12/13/24 16:11 | Ca high    | Kareem | Dilution |
| 48 | P4981-11    | MBHJA8  | SAM | 12/13/24 16:15 |            | Kareem | OK       |
| 49 | P4981-12    | MBHJA9  | SAM | 12/13/24 16:19 | Ca high    | Kareem | Dilution |
| 50 | P4981-13    | MBHJC4  | SAM | 12/13/24 16:23 |            | Kareem | OK       |
| 51 | P4981-14    | MBHJC5  | SAM | 12/13/24 16:27 |            | Kareem | OK       |
| 52 | P4981-15    | MBHJC6  | SAM | 12/13/24 16:31 |            | Kareem | OK       |
| 53 | P4981-16    | MBHJC7  | SAM | 12/13/24 16:34 | Ca high    | Kareem | Dilution |
| 54 | P4981-17    | MBHJC8  | SAM | 12/13/24 16:38 | Ca high    | Kareem | Dilution |
| 55 | P4981-21    | MBHJD0  | SAM | 12/13/24 16:42 | Ca high    | Kareem | Dilution |
| 56 | CCV009      | CCV009  | CCV | 12/13/24 17:02 |            | Kareem | OK       |
| 57 | CCB009      | CCB009  | CCB | 12/13/24 17:05 |            | Kareem | OK       |
| 58 | P4981-22    | MBHJE8  | SAM | 12/13/24 17:09 |            | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|              |                 |              |                        |
|--------------|-----------------|--------------|------------------------|
| Review By    | Sarabjit Jaswal | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By | Mohan Bera      | Supervise On | 12/16/2024 12:49:43 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  | M5801,M5387,M5751,MP83567,M5819                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|    |           |         |     |                |                                                                                                                                          |        |          |
|----|-----------|---------|-----|----------------|------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|
| 59 | P4983-01  | MBHJ97  | SAM | 12/13/24 17:13 | Ca high                                                                                                                                  | Kareem | Dilution |
| 60 | P4983-02  | MBHJC3  | SAM | 12/13/24 17:17 |                                                                                                                                          | Kareem | OK       |
| 61 | P4983-03  | MBHJE5  | SAM | 12/13/24 17:21 |                                                                                                                                          | Kareem | OK       |
| 62 | P4983-04  | MBHJE6  | SAM | 12/13/24 17:24 | Ca high                                                                                                                                  | Kareem | Dilution |
| 63 | P4983-05  | MBHJB6  | SAM | 12/13/24 17:28 | Ca high                                                                                                                                  | Kareem | Dilution |
| 64 | P4983-06  | MBHJE7  | SAM | 12/13/24 17:32 |                                                                                                                                          | Kareem | OK       |
| 65 | P4983-07  | MBHJF9  | SAM | 12/13/24 17:37 | Ca high                                                                                                                                  | Kareem | Dilution |
| 66 | P4880-14A | MBHH91A | PS  | 12/13/24 17:40 | PS for Se - 0.07ml<br>mp83567-10ml sample                                                                                                | Kareem | OK       |
| 67 | P5042-01A | MBHKB0A | PS  | 12/13/24 17:44 | Not Use - PS for Se -<br>0.07ml mp83567-10ml<br>sample                                                                                   | Kareem | Not Ok   |
| 68 | P5041-01A | MBHK78A | PS  | 12/13/24 17:48 | PS for Se - 0.07ml<br>mp83567-10ml sample                                                                                                | Kareem | OK       |
| 69 | P5040-01A | MBHKD6A | PS  | 12/13/24 17:52 | PS for Se - 0.07ml<br>mp83567-10ml sample                                                                                                | Kareem | OK       |
| 70 | P4905-02A | MBHHA6A | PS  | 12/13/24 17:56 | PS for As - 0.0023ml<br>m5801, Ba - 0.047ml<br>m5387, Cu - 0.009ml<br>m5751, Se - 0.07ml<br>mp83567, Zn - 0.046ml<br>m5819 - 10ml sample | Kareem | OK       |
| 71 | P4907-01A | MBHHE1A | PS  | 12/13/24 17:59 | PS for Be,Se(0.01ML<br>MP83672,0.07ML<br>MP83673-10ML SAMPLE)                                                                            | Kareem | OK       |
| 72 | P4932-02A | MBHHQ2A | PS  | 12/13/24 18:03 | PS for Zn - 0.05ml m5819 -<br>10ml sample                                                                                                | Kareem | OK       |
|    |           |         |     |                |                                                                                                                                          |        |          |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|              |                 |              |                        |
|--------------|-----------------|--------------|------------------------|
| Review By    | Sarabjit Jaswal | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By | Mohan Bera      | Supervise On | 12/16/2024 12:49:43 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  | M5801,M5387,M5751,MP83567,M5819                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|    |             |         |     |                |                                                                    |        |          |
|----|-------------|---------|-----|----------------|--------------------------------------------------------------------|--------|----------|
| 73 | P4933-20A   | MBHHX4A | PS  | 12/13/24 18:07 | PS for Se - 0.07ml<br>mp83567, Zn - 0.039ml<br>m5819 - 10ml sample | Kareem | OK       |
| 74 | P4983-08    | MBHJG0  | SAM | 12/13/24 18:11 |                                                                    | Kareem | OK       |
| 75 | P4983-09    | MBHJG1  | SAM | 12/13/24 18:15 |                                                                    | Kareem | OK       |
| 76 | P4983-13    | MBHJG3  | SAM | 12/13/24 18:18 | Ca high                                                            | Kareem | Dilution |
| 77 | P4983-14    | MBHJG4  | SAM | 12/13/24 18:22 | Ca high                                                            | Kareem | Dilution |
| 78 | CCV010      | CCV010  | CCV | 12/13/24 18:32 |                                                                    | Kareem | OK       |
| 79 | CCB010      | CCB010  | CCB | 12/13/24 18:45 | Inst. paused for review                                            | Kareem | OK       |
| 80 | P4983-15    | MBHJG5  | SAM | 12/13/24 18:49 | Ca high                                                            | Kareem | Dilution |
| 81 | P4983-16    | MBHJG6  | SAM | 12/13/24 18:53 | Ca high                                                            | Kareem | Dilution |
| 82 | P4983-17    | MBHJG7  | SAM | 12/13/24 18:57 | Ca high                                                            | Kareem | Dilution |
| 83 | P4983-18    | MBHJG8  | SAM | 12/13/24 19:00 | Ca high                                                            | Kareem | Dilution |
| 84 | P4983-19    | MBHJG9  | SAM | 12/13/24 19:04 | Ca high                                                            | Kareem | Dilution |
| 85 | P4983-20    | MBHJH0  | SAM | 12/13/24 19:08 | Ca high                                                            | Kareem | Dilution |
| 86 | P4983-21    | MBHJH1  | SAM | 12/13/24 19:12 |                                                                    | Kareem | OK       |
| 87 | P4940-16DL  | MBHHX8  | SAM | 12/13/24 19:16 | 2x for Ca                                                          | Kareem | Confirms |
| 88 | P4940-17DL  | MBHHX8D | DUP | 12/13/24 19:20 | 2x for Ca                                                          | Kareem | Confirms |
| 89 | P4940-16LDL | MBHHX8L | SD  | 12/13/24 19:24 | 10x for Ca                                                         | Kareem | Confirms |
| 90 | P4940-18DL  | MBHHX8S | MS  | 12/13/24 19:28 | 2x for Ca                                                          | Kareem | Confirms |
| 91 | P4963-15DL  | MBHJ13  | SAM | 12/13/24 19:31 | 5x for Ca                                                          | Kareem | Confirms |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|                  |                                                         |              |                        |
|------------------|---------------------------------------------------------|--------------|------------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 12/16/2024 12:49:43 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                        |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                        |
| ICV Standard     | MP83508                                                 |              |                        |
| CCV Standard     | MP83511                                                 |              |                        |
| ICSA Standard    | MP83509,MP83510                                         |              |                        |
| CRI Standard     | M5801,M5387,M5751,MP83567,M5819                         |              |                        |
| LCS Standard     |                                                         |              |                        |
| Chk Standard     | MP83513,MP83514                                         |              |                        |

|     |             |         |     |                |            |        |          |
|-----|-------------|---------|-----|----------------|------------|--------|----------|
| 92  | P4963-16DL  | MBHJ13D | DUP | 12/13/24 19:35 | 5x for Ca  | Kareem | Confirms |
| 93  | P4963-15LDL | MBHJ13L | SD  | 12/13/24 19:39 | 25x for Ca | Kareem | Confirms |
| 94  | P4963-17DL  | MBHJ13S | MS  | 12/13/24 19:43 | 5x for Ca  | Kareem | Confirms |
| 95  | P4964-01DL  | MBHJ01  | SAM | 12/13/24 19:47 | 2x for Ca  | Kareem | Confirms |
| 96  | P4964-02DL  | MBHJ01D | DUP | 12/13/24 19:51 | 2x for Ca  | Kareem | Confirms |
| 97  | P4964-01LDL | MBHJ01L | SD  | 12/13/24 19:55 | 10x for Ca | Kareem | Confirms |
| 98  | P4964-03DL  | MBHJ01S | MS  | 12/13/24 19:59 | 2x for Ca  | Kareem | Confirms |
| 99  | P4981-18DL  | MBHJC9  | SAM | 12/13/24 20:02 | 2x for Ca  | Kareem | Confirms |
| 100 | CCV011      | CCV011  | CCV | 12/13/24 20:18 |            | Kareem | OK       |
| 101 | CCB011      | CCB011  | CCB | 12/13/24 20:22 |            | Kareem | OK       |
| 102 | P4981-19DL  | MBHJC9D | DUP | 12/13/24 20:26 | 2x for Ca  | Kareem | Confirms |
| 103 | P4981-18LDL | MBHJC9L | SD  | 12/13/24 20:30 | 10x for Ca | Kareem | Confirms |
| 104 | P4981-20DL  | MBHJC9S | MS  | 12/13/24 20:34 | 2x for Ca  | Kareem | Confirms |
| 105 | P4932-01    | MBHHQ1  | SAM | 12/13/24 20:38 |            | Kareem | OK       |
| 106 | P4932-05    | MBHHQ3  | SAM | 12/13/24 20:42 |            | Kareem | OK       |
| 107 | P4932-06    | MBHHQ4  | SAM | 12/13/24 20:45 |            | Kareem | OK       |
| 108 | P4932-07    | MBHHQ5  | SAM | 12/13/24 20:49 |            | Kareem | OK       |
| 109 | P4932-08    | MBHHQ6  | SAM | 12/13/24 20:53 |            | Kareem | OK       |
| 110 | P4932-09    | MBHHQ7  | SAM | 12/13/24 20:57 |            | Kareem | OK       |
| 111 | P4932-10    | MBHHQ8  | SAM | 12/13/24 21:00 |            | Kareem | OK       |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|                  |                                                         |              |                        |
|------------------|---------------------------------------------------------|--------------|------------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 12/16/2024 12:49:43 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                        |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                        |
| ICV Standard     | MP83508                                                 |              |                        |
| CCV Standard     | MP83511                                                 |              |                        |
| ICSA Standard    | MP83509,MP83510                                         |              |                        |
| CRI Standard     | M5801,M5387,M5751,MP83567,M5819                         |              |                        |
| LCS Standard     |                                                         |              |                        |
| Chk Standard     | MP83513,MP83514                                         |              |                        |

|     |          |        |     |                |  |        |    |
|-----|----------|--------|-----|----------------|--|--------|----|
| 112 | P4932-11 | MBHHQ9 | SAM | 12/13/24 21:04 |  | Kareem | OK |
| 113 | P4932-12 | MBHHP1 | SAM | 12/13/24 21:08 |  | Kareem | OK |
| 114 | P4932-13 | MBHHP2 | SAM | 12/13/24 21:12 |  | Kareem | OK |
| 115 | P4932-14 | MBHHP3 | SAM | 12/13/24 21:16 |  | Kareem | OK |
| 116 | P4932-15 | MBHHP4 | SAM | 12/13/24 21:20 |  | Kareem | OK |
| 117 | P4932-16 | MBHHP5 | SAM | 12/13/24 21:23 |  | Kareem | OK |
| 118 | P4932-17 | MBHHP6 | SAM | 12/13/24 21:27 |  | Kareem | OK |
| 119 | P4932-18 | MBHHP7 | SAM | 12/13/24 21:31 |  | Kareem | OK |
| 120 | P4932-19 | MBHHP8 | SAM | 12/13/24 21:35 |  | Kareem | OK |
| 121 | P4932-20 | MBHHP9 | SAM | 12/13/24 21:39 |  | Kareem | OK |
| 122 | CCV012   | CCV012 | CCV | 12/13/24 21:59 |  | Kareem | OK |
| 123 | CCB012   | CCB012 | CCB | 12/13/24 22:03 |  | Kareem | OK |
| 124 | P4932-21 | MBHHQ0 | SAM | 12/13/24 22:07 |  | Kareem | OK |
| 125 | P4932-22 | MBHHR0 | SAM | 12/13/24 22:11 |  | Kareem | OK |
| 126 | P4914-01 | MBHHF2 | SAM | 12/13/24 22:15 |  | Kareem | OK |
| 127 | P4914-02 | MBHHF3 | SAM | 12/13/24 22:18 |  | Kareem | OK |
| 128 | P4914-03 | MBHHF4 | SAM | 12/13/24 22:22 |  | Kareem | OK |
| 129 | P4914-04 | MBHHF5 | SAM | 12/13/24 22:26 |  | Kareem | OK |
| 130 | P4914-05 | MBHHF6 | SAM | 12/13/24 22:30 |  | Kareem | OK |
| 131 | P4914-06 | MBHHF7 | SAM | 12/13/24 22:33 |  | Kareem | OK |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|              |                 |              |                        |
|--------------|-----------------|--------------|------------------------|
| Review By    | Sarabjit Jaswal | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By | Mohan Bera      | Supervise On | 12/16/2024 12:49:43 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  | M5801,M5387,M5751,MP83567,M5819                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|     |            |         |     |                |                         |        |        |
|-----|------------|---------|-----|----------------|-------------------------|--------|--------|
| 132 | P4914-07   | MBHHF8  | SAM | 12/13/24 22:37 |                         | Kareem | OK     |
| 133 | P4914-08   | MBHHF9  | SAM | 12/13/24 22:41 |                         | Kareem | OK     |
| 134 | P4914-09   | MBHHG0  | SAM | 12/13/24 22:45 |                         | Kareem | OK     |
| 135 | P4914-10   | MBHHG1  | SAM | 12/13/24 22:49 |                         | Kareem | OK     |
| 136 | P4914-14   | MBHHK5  | SAM | 12/13/24 22:52 |                         | Kareem | OK     |
| 137 | P4914-15   | MBHHK6  | SAM | 12/13/24 22:56 |                         | Kareem | OK     |
| 138 | P4914-16   | MBHHK7  | SAM | 12/13/24 23:00 |                         | Kareem | OK     |
| 139 | P4914-17   | MBHHK8  | SAM | 12/13/24 23:04 |                         | Kareem | OK     |
| 140 | P4914-18   | MBHHK9  | SAM | 12/13/24 23:08 |                         | Kareem | OK     |
| 141 | P4914-19   | MBHHL0  | SAM | 12/13/24 23:11 |                         | Kareem | OK     |
| 142 | P4914-20   | MBHHL1  | SAM | 12/13/24 23:15 |                         | Kareem | OK     |
| 143 | P4914-21   | MBHHL2  | SAM | 12/13/24 23:19 |                         | Kareem | OK     |
| 144 | CCV013     | CCV013  | CCV | 12/13/24 23:27 |                         | Kareem | OK     |
| 145 | CCB013     | CCB013  | CCB | 12/13/24 23:35 | Inst. paused for review | Kareem | OK     |
| 146 | P4914-22   | MBHHL3  | SAM | 12/13/24 23:39 |                         | Kareem | OK     |
| 147 | P5007-10A  | MBHJZ7A | PS  | 12/13/24 23:42 | NOT USE                 | Kareem | Not Ok |
| 148 | P5007-15DL | MBHK00  | SAM | 12/13/24 23:46 | NOT USE                 | Kareem | Not Ok |
| 149 | P5014-12A  | MBHJY0A | PS  | 12/13/24 23:50 | NOT USE                 | Kareem | Not Ok |
| 150 | P5015-17A  | MBHKQ6A | PS  | 12/13/24 23:54 | NOT USE                 | Kareem | Not Ok |
|     |            |         |     |                |                         |        |        |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|              |                 |              |                        |
|--------------|-----------------|--------------|------------------------|
| Review By    | Sarabjit Jaswal | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By | Mohan Bera      | Supervise On | 12/16/2024 12:49:43 AM |

| STD. NAME     | STD REF.#                                               |
|---------------|---------------------------------------------------------|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard  | MP83508                                                 |
| CCV Standard  | MP83511                                                 |
| ICSA Standard | MP83509,MP83510                                         |
| CRI Standard  | M5801,M5387,M5751,MP83567,M5819                         |
| LCS Standard  |                                                         |
| Chk Standard  | MP83513,MP83514                                         |

|     |            |         |     |                |                                                              |        |          |
|-----|------------|---------|-----|----------------|--------------------------------------------------------------|--------|----------|
| 151 | P4940-16A  | MBHHX8A | PS  | 12/13/24 23:58 | PS for Se,Zn(0.07ML<br>MP83673,0.016ML<br>M5819-10ML SAMPLE) | Kareem | OK       |
| 152 | P4963-15A  | MBHJ13A | PS  | 12/14/24 00:01 | PS for Se(0.07ML<br>MP83673-10ML SAMPLE)                     | Kareem | OK       |
| 153 | P4964-01A  | MBHJ01A | PS  | 12/14/24 00:05 | PS for Se,Zn(0.07ML<br>MP83673,0.033ML<br>M5819-10ML SAMPLE) | Kareem | OK       |
| 154 | P4981-18A  | MBHJC9A | PS  | 12/14/24 00:09 | PS for Se,Zn(0.07ML<br>MP83673,0.016ML<br>M5819-10ML SAMPLE) | Kareem | OK       |
| 155 | P4983-10A  | MBHJG2A | PS  | 12/14/24 00:13 | PS for Se(0.07ML<br>MP83673-10ML SAMPLE)                     | Kareem | OK       |
| 156 | P5015-05DL | MBHKK0  | SAM | 12/14/24 00:17 | NOT USE                                                      | Kareem | Not Ok   |
| 157 | P5015-08DL | MBHKK3  | SAM | 12/14/24 00:21 | NOT USE                                                      | Kareem | Not Ok   |
| 158 | P5015-09DL | MBHKK4  | SAM | 12/14/24 00:25 | NOT USE                                                      | Kareem | Not Ok   |
| 159 | P5015-14DL | MBHKQ2  | SAM | 12/14/24 00:29 | NOT USE                                                      | Kareem | Not Ok   |
| 160 | P4963-18DL | MBHJ14  | SAM | 12/14/24 00:32 | 2x for Ca, Still Ca high                                     | Kareem | Dilution |
| 161 | P4963-19DL | MBHJ15  | SAM | 12/14/24 00:36 | 2x for Ca,Mg, Still Ca high                                  | Kareem | Dilution |
| 162 | P4963-20DL | MBHJ16  | SAM | 12/14/24 00:40 | 2x for Ca,Mg, Still Ca high                                  | Kareem | Dilution |
| 163 | P4963-21DL | MBHJ17  | SAM | 12/14/24 00:44 | 2x for Ca, Still Ca high                                     | Kareem | Dilution |
| 164 | P4963-22DL | MBHJ18  | SAM | 12/14/24 00:48 | 2x for Ca                                                    | Kareem | Confirms |
| 165 | CCV014     | CCV014  | CCV | 12/14/24 01:00 |                                                              | Kareem | OK       |
| 166 | CCB014     | CCB014  | CCB | 12/14/24 01:03 |                                                              | Kareem | OK       |
| 167 | P4981-01DL | MBHJ56  | SAM | 12/14/24 01:07 | 2x for Ca                                                    | Kareem | Confirms |

Instrument ID: P5

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133949**

|                  |                                                         |              |                        |
|------------------|---------------------------------------------------------|--------------|------------------------|
| Review By        | Sarabjit Jaswal                                         | Review On    | 12/16/2024 12:48:54 AM |
| Supervise By     | Mohan Bera                                              | Supervise On | 12/16/2024 12:49:43 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                        |              |                        |
| ICAL Standard    | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |              |                        |
| ICV Standard     | MP83508                                                 |              |                        |
| CCV Standard     | MP83511                                                 |              |                        |
| ICSA Standard    | MP83509,MP83510                                         |              |                        |
| CRI Standard     | M5801,M5387,M5751,MP83567,M5819                         |              |                        |
| LCS Standard     |                                                         |              |                        |
| Chk Standard     | MP83513,MP83514                                         |              |                        |

|     |             |        |     |                |                             |        |          |
|-----|-------------|--------|-----|----------------|-----------------------------|--------|----------|
| 168 | P4981-02DL  | MBHJ57 | SAM | 12/14/24 01:11 | 2x for Ca                   | Kareem | Confirms |
| 169 | P4981-03DL  | MBHJ58 | SAM | 12/14/24 01:15 | 2x for Ca,Mg, Still Ca high | Kareem | Dilution |
| 170 | P4981-04DL  | MBHJ59 | SAM | 12/14/24 01:19 | 2x for Ca,Mg, Still Ca high | Kareem | Dilution |
| 171 | P4981-05DL  | MBHJ60 | SAM | 12/14/24 01:23 | 2x for Ca,Mg, Still Ca high | Kareem | Dilution |
| 172 | P4981-06DL  | MBHJ61 | SAM | 12/14/24 01:27 | 2x for Ca                   | Kareem | Confirms |
| 173 | P4981-07DL  | MBHJ62 | SAM | 12/14/24 01:30 | NOT USE                     | Kareem | Not Ok   |
| 174 | P4963-18DL2 | MBHJ14 | SAM | 12/14/24 01:34 | 5x for Ca                   | Kareem | Confirms |
| 175 | P4963-19DL2 | MBHJ15 | SAM | 12/14/24 01:38 | 5x for Ca                   | Kareem | Confirms |
| 176 | P4963-20DL2 | MBHJ16 | SAM | 12/14/24 01:42 | 5x for Ca                   | Kareem | Confirms |
| 177 | P4963-21DL2 | MBHJ17 | SAM | 12/14/24 01:46 | 5x for Ca                   | Kareem | Confirms |
| 178 | P4963-22DL2 | MBHJ18 | SAM | 12/14/24 01:50 | NOT USE                     | Kareem | Not Ok   |
| 179 | P4981-03DL2 | MBHJ58 | SAM | 12/14/24 01:54 | 5x for Ca                   | Kareem | Confirms |
| 180 | P4981-04DL2 | MBHJ59 | SAM | 12/14/24 01:57 | 5x for Ca                   | Kareem | Confirms |
| 181 | P4981-05DL2 | MBHJ60 | SAM | 12/14/24 02:01 | 5x for Ca                   | Kareem | Confirms |
| 182 | CCV015      | CCV015 | CCV | 12/14/24 02:06 |                             | Kareem | OK       |
| 183 | CCB015      | CCB015 | CCB | 12/14/24 02:10 |                             | Kareem | OK       |



ORIGIN ID:BUFA (716) 853-1220  
EMMANUEL GARCIAVILLAR  
WSP USA INC.  
50 LAKEFRONT BLVD

BUFFALO, NY 14202  
UNITED STATES US

SHIP DATE: 15NOV24  
ACTWGT: 40.00 LB  
CAD: 108450087/INET4760  
DIMS: 19x14x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**  
**ALLIANCE TECHNICAL GROUP LLC**  
**284 SHEFFIELD STREET**

**MOUNTAINSIDE NJ 07092**

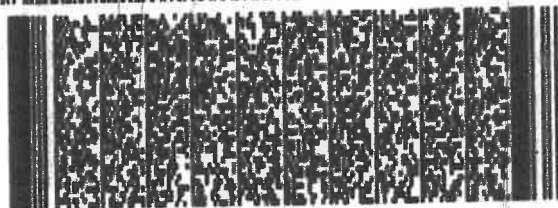
(908) 789-8900  
INV: 03.02.02 EXP  
PO: 31600182.009A

REF: US000850

DEPT: EMMANUEL GARCIA

CP  
11-16-24  
9:00  
9:05  
2.4

PGCJ5582E/CSCA



**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

1 of 3  
TRK# 7799 8944 0750  
0201  
## MASTER ##

**X0 KBCA**

**07092**

**NJ-US EWR**



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## Login Summary Report

|                 |                       |                |                       |               |           |
|-----------------|-----------------------|----------------|-----------------------|---------------|-----------|
| Order ID :      | P4905                 | Order Date :   | 11/16/2024 9:05:00 AM | Project Mgr : | Deepak    |
| Client :        | USEPA CLP SMO         | Project :      | 51879                 | Report Type : | USEPA CLP |
| Contact :       | Anita Kapadia         | Receive Date : | 11/16/2024 9:05:00 AM | EDD Type :    | EPA CLP   |
| Date Sign Off : | 11/18/2024 2:27:45 PM |                |                       |               |           |

| Sample ID | Client ID | Matrix | Sampling Date | Test            | Test Group | Method        | TAT Days | Fax Due Date | HC Due Date |
|-----------|-----------|--------|---------------|-----------------|------------|---------------|----------|--------------|-------------|
| P4905-01  | MBHHA5    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-02  | MBHHA6    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-03  | MBHHA6D   | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-04  | MBHHA6S   | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-05  | MBHHA7    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-06  | MBHHA8    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-07  | MBHHA9    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-08  | MBHHB0    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-09  | MBHHB1    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |
| P4905-10  | MBHHC5    | Solid  | 11/13/2024    |                 |            |               |          |              |             |
|           |           |        |               | Metals CLP Full |            | SFAM_AES      | 15       | 12/23/2024   | 12/23/2024  |
|           |           |        |               | Percent Solids  |            | Chemtech -SOP | 15       | 12/23/2024   | 12/23/2024  |

|          |        |       |            |                 |                                        |
|----------|--------|-------|------------|-----------------|----------------------------------------|
| P4905-11 | MBHHC6 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-12 | MBHHC7 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-13 | MBHHC8 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-14 | MBHHC9 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-15 | MBHHD0 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-16 | MBHHD1 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-17 | MBHHD2 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-18 | MBHHD3 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-19 | MBHHD4 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |
| P4905-20 | MBHHD5 | Solid | 11/13/2024 |                 |                                        |
|          |        |       |            | Metals CLP Full | SFAM_AES 15 12/23/2024 12/23/2024      |
|          |        |       |            | Percent Solids  | Chemtech -SOP 15 12/23/2024 12/23/2024 |

WORKLIST(Hardcopy Internal Chain)

Worklist Name : PB165101

Worklist ID : 185567

Department : Digestion

Date : 11-19-2024 09:16:16

| Sample   | Customer Sample | Matrix | Test            | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method   |
|----------|-----------------|--------|-----------------|--------------|----------|-----------------------------|--------------|----------|
| P4905-01 | MBHHA5          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-02 | MBHHA6          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-03 | MBHHA6D         | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-04 | MBHHA6S         | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-05 | MBHHA7          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-06 | MBHHA8          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-07 | MBHHA9          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-08 | MBHHA0          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-09 | MBHHA1          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-10 | MBHHC5          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-11 | MBHHC6          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-12 | MBHHC7          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-13 | MBHHC8          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-14 | MBHHC9          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-15 | MBHHD0          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-16 | MBHHD1          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-17 | MBHHD2          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-18 | MBHHD3          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-19 | MBHHD4          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |
| P4905-20 | MBHHD5          | Solid  | Metals CLP Full | Cool 4 deg C | USEP01   | Q11                         | 11/13/2024   | SFAM_AES |

Date/Time 11/19/24 11:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/19/24 12:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]