SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHMZ2

SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | Analysis Method ICP-AES | ICP-MS | Mercury | Cyanide |
|---|---|---|---|---|---|
| MBHMZ2 | P5209-01 | X | | | |
| MBHMZ3 | P5209-02 | X | | | |
| MBHMZ4 | P5209-03 | X | | | |
| MBHMZ5 | P5209-04 | X | | | |
| MBHMZ6 | P5209-05 | X | | | |
| MBHMZ7 | P5209-06 | X | | | |
| MBHMZ8 | P5209-07 | X | | | |
| MBHN75 | P5209-08 | X | | | |
| MBHN76 | P5209-09 | X | | | |
| MBHN77 | P5209-10 | X | | | |
| MBHN78 | P5209-11 | X | | | |
| MBHN79 | P5209-12 | X | | | |
| MBHN80 | P5209-13 | X | | | |
| MBHN81 | P5209-14 | X | | | |
| MBHN81D | P5209-15 | X | | | |
| MBHN81S | P5209-16 | X | | | |
| MBHN96 | P5209-17 | X | | | |
| MBHN97 | P5209-18 | X | | | |
| MBHN98 | P5209-19 | X | | | |
| MBHN99 | P5209-20 | X | | | |
| MBHNA0 | P5209-21 | X | | | |
| MBHNC2 | P5209-22 | X | | | |

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

Signature: Name:

Date: Title:

68HERH20D0011

SDG # MBHMZ2

**USEPA CLP COC (LAB COPY)**

DateShipped: 12/6/2024

CarrierName: FedEx

AirbillNo: 7705 5866 1595

**CHAIN OF CUSTODY RECORD**

Case #: 51879

Cooler #: 5

**No: 2-120624-160448-0058**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

2

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| P171-SB-08-Z00-02 | MBHMZ2 | Soil/ | | ICP-AES(35) | 4216 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P171-SB-08-Z02-06 | MBHMZ3 | Soil/ | | ICP-AES(35) | 4217 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P171-SB-08-Z06-12 | MBHMZ4 | Soil/ | | ICP-AES(35) | 4218 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P171-SB-08-Z12-18 | MBHMZ5 | Soil/ | | ICP-AES(35) | 4219 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P171-SB-08-Z18-24 | MBHMZ6 | Soil/ | | ICP-AES(35) | 4260 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P171-SB-08-Z24-30 | MBHMZ7 | Soil/ | | ICP-AES(35) | 4261 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P171-SB-08-Z30-36 | MBHMZ8 | Soil/ | | ICP-AES(35) | 4262 (Wet ice < 6 C) (1) | P171-SB-08 | 11/20/2024 13:20 | |
| P179-SB-05-Z00-02 | MBHN75 | Soil/ | | ICP-AES(35) | 5171 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | |
| P179-SB-05-Z02-06 | MBHN76 | Soil/ | | ICP-AES(35) | 5172 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | |
| P179-SB-05-Z06-12 | MBHN77 | Soil/ | | ICP-AES(35) | 5173 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | |

| | |
|---|---|
| Special Instructions: Samples MBHNJ0 and MBHN81 are MS/MSDs. Samples MBHNJ2, MBHMZ5, MBHNL1, MBHNC2, MBHNC3, MBHNC5, MBHNC7, MBHNL0 MBHN96 and MBHNE0. | **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 | WSP | 12/06/24 1715 | Dan | 12/7/24 | 2.3' |
| | | | | 9:55 | Dkm H1 |
| | | | N/A | | Tey 3 Lm Pm |
| | | | 12/06/24 | | |

68HERH20D0011

SDG # MBHMZ2

**USEPA CLP COC (LAB COPY)**

DateShipped: 12/6/2024

CarrierName: FedEx

AirbillNo: 7705 5866 1595

**CHAIN OF CUSTODY RECORD**

Case #: 51879

Cooler #: 5

**No: 2-120624-160448-0058**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

3

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| P179-SB-05-Z12-18 | MBHN78 | Soil/ | | ICP-AES(35) | 5174 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | |
| P179-SB-05-Z18-24 | MBHN79 | Soil/ | | ICP-AES(35) | 5175 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | |
| P179-SB-05-Z24-30 | MBHN80 | Soil/ | | ICP-AES(35) | 5176 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | |
| P179-SB-05-Z30-36 | MBHN81 | Soil/ | | ICP-AES(35) | 5177 (Wet ice < 6 C) (1) | P179-SB-05 | 11/22/2024 10:00 | — |
| P179-SB-12-Z00-02 | MBHN96 | Soil/ | | ICP-AES(35) | 5130 (Wet ice < 6 C) (1) | P179-SB-12 | 11/22/2024 12:00 | |
| P179-SB-12-Z02-06 | MBHN97 | Soil/ | | ICP-AES(35) | 5131 (Wet ice < 6 C) (1) | P179-SB-12 | 11/22/2024 12:00 | |
| P179-SB-12-Z06-12 | MBHN98 | Soil/ | | ICP-AES(35) | 5132 (Wet ice < 6 C) (1) | P179-SB-12 | 11/22/2024 12:00 | |
| P179-SB-12-Z12-18 | MBHN99 | Soil/ | | ICP-AES(35) | 5133 (Wet ice < 6 C) (1) | P179-SB-12 | 11/22/2024 12:00 | |
| P179-SB-12-Z18-24 | MBHNA0 | Soil/ | | ICP-AES(35) | 5134 (Wet ice < 6 C) (1) | P179-SB-12 | 11/22/2024 12:00 | |
| P161-SB-01-Z00-02 | MBHNC2 | Soil/ | | ICP-AES(35) | 3303 (Wet ice < 6 C) (1) | P161-SB-01 | 11/19/2024 11:00 | |

Sample(s) to be used for Lab QC: P179-SB-05-Z30-36 Tag 5177 - Special Instructions: Samples MBHNJ0 and MBHN81 are MS/MSDs. Samples MBHNJ2, MBHMZ5, MBHNL1, MBHNC2, MBHNC3, MBHNC5, MBHNC7, MBHNL0 MBHN96 and MBHNE0.

**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 | [signature] USP | 12/06/24 17:15 | [signature] | 12/7/24 9:55 | 2.3° [signature] +1 |
| | | | | | Temp from [illegible] |
| | | N/A [signature] | | | Custody Seal [illegible] |
| | | 12/06/24 | | | |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 1 of 1 |
| Received By (Print Name) Cesarnova Rivera | | Log-in Date **12/7/2024** |
| Received By (Signature) | | |
| Case Number 51879 | SDG No. MBHMZ2 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | n/a |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 770558661595<br>1 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.3 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 12/07/2024 |
| 12.Time Received | 09:55 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | MBHMZ2 | N/A | 4216 | P5209-01 | Intact |
| 2 | MBHMZ3 | N/A | 4217 | P5209-02 | Intact |
| 3 | MBHMZ4 | N/A | 4218 | P5209-03 | Intact |
| 4 | MBHMZ5 | N/A | 4219 | P5209-04 | Intact |
| 5 | MBHMZ6 | N/A | 4260 | P5209-05 | Intact |
| 6 | MBHMZ7 | N/A | 4261 | P5209-06 | Intact |
| 7 | MBHMZ8 | N/A | 4262 | P5209-07 | Intact |
| 8 | MBHN75 | N/A | 5171 | P5209-08 | Intact |
| 9 | MBHN76 | N/A | 5172 | P5209-09 | Intact |
| 10 | MBHN77 | N/A | 5173 | P5209-10 | Intact |
| 11 | MBHN78 | N/A | 5174 | P5209-11 | Intact |
| 12 | MBHN79 | N/A | 5175 | P5209-12 | Intact |
| 13 | MBHN80 | N/A | 5176 | P5209-13 | Intact |
| 14 | MBHN81 | N/A | 5177 | P5209-14 | Intact |
| 15 | MBHN81D | N/A | 5177 | P5209-15 | Intact |
| 16 | MBHN81S | N/A | 5177 | P5209-16 | Intact |
| 17 | MBHN96 | N/A | 5130 | P5209-17 | Intact |
| 18 | MBHN97 | N/A | 5131 | P5209-18 | Intact |
| 19 | MBHN98 | N/A | 5132 | P5209-19 | Intact |
| 20 | MBHN99 | N/A | 5133 | P5209-20 | Intact |
| 21 | MBHNA0 | N/A | 5134 | P5209-21 | Intact |
| 22 | MBHNC2 | N/A | 3303 | P5209-22 | Intact |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | | | |
|---|---|---|---|
| Reviewed By | | Logbook No. | N/A |
| Date | 12/9/24 | Logbook Page No. | N/A |

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

| | | | |
|---|---|---|---|
| LAB NAME | **Alliance Technical Group, LLC** | | |
| LAB CODE | **ACE** | | |
| CONTRACT NO. | **68HERH20D0011** | | |
| CASE NO. | **51879** | SDG NO. | **MBHMZ2** |
| MA NO. | | SOW NO. | **SFAM01.1** |

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

| | PAGE NOs: FROM | PAGE NOs: TO | CHECK LAB | CHECK REGION |
|---|---|---|---|---|
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 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 | 13 | ✓ | |
| **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 | 14 | 33 | ✓ | |
| 9. Instrument raw data by instrument in analysis order | 34 | 571 | ✓ | |
| **Other Data** | | | | |
| 10. Standard and Reagent Preparation Logs | 572 | 709 | ✓ | |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 710 | 711 | ✓ | |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 712 | 727 | ✓ | |
| 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 | ✓ | |

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

| | PAGE NOs: FROM | TO | CHECK LAB | REGION |
|---|---|---|---|---|
| **Additional** | | | | |
| 44. EPA Shipping/Receiving Documents | | | | |
| Airbill (No. of Shipments 1 ) | 728 | 728 | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 729 | 730 | ✓ | |
| 45. Misc. Shipping/Receiving Records (list all individual records) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |
| 46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list) | | | | |
| | 731 | 732 | ✓ | |
| | | | | |
| 47. Other Records and related Communication Logs (describe or list) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |

48. Comments:

Completed by:
(CLP Lab) _____ (Signature) Nimisha Pandya, Document Control Officer (Print Name & Title) _____ (Date)

Audited by:
(EPA) _____ (Signature) _____ (Print Name & Title) _____ (Date)

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

**SDG NARRATIVE**

**USEPA**
**SDG # MBHMZ2**
**CASE # 51879**
**CONTRACT # 68HERH20D0011**
**SOW# SFAM01.1**
**LAB NAME: Alliance Technical Group, LLC**
**LAB CODE: ACE**
**LAB ORDER ID # P5209**

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

20 Soil sample were delivered to the laboratory intact on 12/07/2024.

**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: 2.3$^{o}$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.

**G. Calculation:**

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

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

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

Where,

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

**Example Calculation For Sample MBHMZ2 For Arsenic:**

If C = 0.0951620 ppm
Vf = 100 ml
W = 1.19 g
S = 0.759(75.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0951620 \times \frac{100}{1.19 \times 0.759} \times 1$$

= 10.53597 mg/kg

= 11 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, Selenium, Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Beryllium, Calcium, Chromium, Iron, Manganese, Zinc .

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.

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

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 12/13/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 16:25
**In Date:** 12/12/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:14
**Out Date:** 12/13/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLIDS-OVEN

**QC:** LB133923

| 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 |
|---|---|---|---|---|---|---|---|---|
| P5209-01 | MBHMZ2 | 1 | 1.16 | 8.48 | 9.64 | 7.6 | 75.9 | |
| P5209-02 | MBHMZ3 | 2 | 1.16 | 8.65 | 9.81 | 8.18 | 81.2 | |
| P5209-03 | MBHMZ4 | 3 | 1.18 | 8.76 | 9.94 | 8.52 | 83.8 | |
| P5209-04 | MBHMZ5 | 4 | 1.18 | 8.72 | 9.9 | 8.76 | 86.9 | |
| P5209-05 | MBHMZ6 | 5 | 1.18 | 8.52 | 9.7 | 8.21 | 82.5 | |
| P5209-06 | MBHMZ7 | 6 | 1.17 | 8.50 | 9.67 | 8.7 | 88.6 | |
| P5209-07 | MBHMZ8 | 7 | 1.15 | 8.44 | 9.59 | 8.57 | 87.9 | |
| P5209-08 | MBHN75 | 8 | 1.16 | 8.37 | 9.53 | 6.26 | 60.9 | |
| P5209-09 | MBHN76 | 9 | 1.16 | 8.74 | 9.9 | 7.38 | 71.2 | |
| P5209-10 | MBHN77 | 10 | 1.15 | 8.47 | 9.62 | 7.84 | 79.0 | |
| P5209-11 | MBHN78 | 11 | 1.15 | 8.82 | 9.97 | 7.92 | 76.8 | |
| P5209-12 | MBHN79 | 12 | 1.16 | 8.73 | 9.89 | 7.93 | 77.5 | |
| P5209-13 | MBHN80 | 13 | 1.17 | 8.43 | 9.6 | 8.32 | 84.8 | |
| P5209-14 | MBHN81 | 14 | 1.17 | 8.36 | 9.53 | 8.03 | 82.1 | |
| P5209-15 | MBHN81D | 15 | 1.17 | 8.36 | 9.53 | 8.03 | 82.1 | |
| P5209-16 | MBHN81S | 16 | 1.17 | 8.36 | 9.53 | 8.03 | 82.1 | |
| P5209-17 | MBHN96 | 17 | 1.16 | 6.95 | 8.11 | 5.39 | 60.9 | |
| P5209-18 | MBHN97 | 18 | 1.17 | 8.36 | 9.53 | 7.59 | 76.8 | |
| P5209-19 | MBHN98 | 19 | 1.18 | 8.35 | 9.53 | 8.22 | 84.3 | |
| P5209-20 | MBHN99 | 20 | 1.17 | 8.81 | 9.98 | 8.41 | 82.2 | |
| P5209-21 | MBHNA0 | 21 | 1.17 | 8.63 | 9.8 | 8.35 | 83.2 | |
| P5209-22 | MBHNC2 | 22 | 1.16 | 8.52 | 9.68 | 7.75 | 77.3 | |

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

# WORKLIST(Hardcopy Internal Chain)

VB133923

**WorkList Name :** %1-P5209 **WorkList ID :** 186298 **Department :** Wet-Chemistry **Date :** 12-12-2024 14:56:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5209-01 | MBHMZ2 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-02 | MBHMZ3 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-03 | MBHMZ4 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-04 | MBHMZ5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-05 | MBHMZ6 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-06 | MBHMZ7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-07 | MBHMZ8 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-08 | MBHN75 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | Chemtech -SO |
| P5209-09 | MBHN76 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-10 | MBHN77 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-11 | MBHN78 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-12 | MBHN79 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-13 | MBHN80 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-14 | MBHN81 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-15 | MBHN81D | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-16 | MBHN81S | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-17 | MBHN96 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-18 | MBHN97 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-19 | MBHN98 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-20 | MBHN99 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |
| P5209-21 | MBHNA0 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | Chemtech -SO |

12

**Date/Time** 12.12.24 1513.0

**Raw Sample Received by:**

**Raw Sample Relinquished by:**

**Date/Time** 12.12.24 1613.0

**Raw Sample Received by:**

**Raw Sample Relinquished by:**

# WORKLIST(Hardcopy Internal Chain)

LB 133923

**WorkList Name :** %1-P5209 **WorkList ID :** 186298 **Department :** Wet-Chemistry **Date :** 12-12-2024 14:56:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5209-22 | MBHNC2 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C32 | 11/19/2024 | Chemtech -SO |

13

**Date/Time** 12-12-24 15:30

**Raw Sample Received by:** JB WC,

**Raw Sample Relinquished by:** Jm ISM



**Date/Time** 12-12-24 16:30

**Raw Sample Received by:** Jm ISM

**Raw Sample Relinquished by:** JB WC,

EPA SAMPLE NO.

MBHMZ2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-01

% Solids: 75.9 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5800 | | 01/12/2025 | 0436 |
| 7440-36-0 | Antimony | 6.6 | U* | 01/12/2025 | 0436 |
| 7440-38-2 | Arsenic | 11 | | 01/12/2025 | 0436 |
| 7440-39-3 | Barium | 110 | | 01/12/2025 | 0436 |
| 7440-41-7 | Beryllium | 0.48 | J* | 01/12/2025 | 0436 |
| 7440-43-9 | Cadmium | 0.99 | | 01/12/2025 | 0436 |
| 7440-70-2 | Calcium | 3700 | * | 01/12/2025 | 0436 |
| 7440-47-3 | Chromium | 18 | * | 01/12/2025 | 0436 |
| 7440-48-4 | Cobalt | 9.1 | | 01/12/2025 | 0436 |
| 7440-50-8 | Copper | 37 | | 01/12/2025 | 0436 |
| 7439-89-6 | Iron | 15000 | * | 01/12/2025 | 0436 |
| 7439-92-1 | Lead | 230 | | 01/12/2025 | 0436 |
| 7439-95-4 | Magnesium | 1600 | | 01/12/2025 | 0436 |
| 7439-96-5 | Manganese | 860 | * | 01/12/2025 | 0436 |
| 7440-02-0 | Nickel | 21 | | 01/12/2025 | 0436 |
| 7440-09-7 | Potassium | 790 | | 01/12/2025 | 0436 |
| 7782-49-2 | Selenium | 3.2 | J* | 01/12/2025 | 0436 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0436 |
| 7440-23-5 | Sodium | 550 | U | 01/12/2025 | 0436 |
| 7440-28-0 | Thallium | 2.8 | U | 01/12/2025 | 0436 |
| 7440-62-2 | Vanadium | 15 | | 01/12/2025 | 0436 |
| 7440-66-6 | Zinc | 160 | * | 01/12/2025 | 0436 |

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

Comments:

EPA SAMPLE NO.

MBHMZ3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-02

% Solids: 81.2 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6400 | | 01/12/2025 | 0440 |
| 7440-36-0 | Antimony | 6.7 | U* | 01/12/2025 | 0440 |
| 7440-38-2 | Arsenic | 16 | | 01/12/2025 | 0440 |
| 7440-39-3 | Barium | 120 | | 01/12/2025 | 0440 |
| 7440-41-7 | Beryllium | 0.52 | J* | 01/12/2025 | 0440 |
| 7440-43-9 | Cadmium | 0.88 | | 01/12/2025 | 0440 |
| 7440-70-2 | Calcium | 2400 | * | 01/12/2025 | 0440 |
| 7440-47-3 | Chromium | 17 | * | 01/12/2025 | 0440 |
| 7440-48-4 | Cobalt | 10 | | 01/12/2025 | 0440 |
| 7440-50-8 | Copper | 41 | | 01/12/2025 | 0440 |
| 7439-89-6 | Iron | 16000 | * | 01/12/2025 | 0440 |
| 7439-92-1 | Lead | 290 | | 01/12/2025 | 0440 |
| 7439-95-4 | Magnesium | 1700 | | 01/12/2025 | 0440 |
| 7439-96-5 | Manganese | 910 | * | 01/12/2025 | 0440 |
| 7440-02-0 | Nickel | 20 | | 01/12/2025 | 0440 |
| 7440-09-7 | Potassium | 830 | | 01/12/2025 | 0440 |
| 7782-49-2 | Selenium | 3.4 | J* | 01/12/2025 | 0440 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0440 |
| 7440-23-5 | Sodium | 560 | U | 01/12/2025 | 0440 |
| 7440-28-0 | Thallium | 2.8 | U | 01/12/2025 | 0440 |
| 7440-62-2 | Vanadium | 17 | | 01/12/2025 | 0440 |
| 7440-66-6 | Zinc | 150 | * | 01/12/2025 | 0440 |

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

Comments:

EPA SAMPLE NO.

MBHMZ4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-03

% Solids: 83.8 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6100 | | 01/12/2025 | 0443 |
| 7440-36-0 | Antimony | 5.3 | U* | 01/12/2025 | 0443 |
| 7440-38-2 | Arsenic | 16 | | 01/12/2025 | 0443 |
| 7440-39-3 | Barium | 140 | | 01/12/2025 | 0443 |
| 7440-41-7 | Beryllium | 0.49 | * | 01/12/2025 | 0443 |
| 7440-43-9 | Cadmium | 0.86 | | 01/12/2025 | 0443 |
| 7440-70-2 | Calcium | 2400 | * | 01/12/2025 | 0443 |
| 7440-47-3 | Chromium | 13 | * | 01/12/2025 | 0443 |
| 7440-48-4 | Cobalt | 9.3 | | 01/12/2025 | 0443 |
| 7440-50-8 | Copper | 41 | | 01/12/2025 | 0443 |
| 7439-89-6 | Iron | 15000 | * | 01/12/2025 | 0443 |
| 7439-92-1 | Lead | 240 | | 01/12/2025 | 0443 |
| 7439-95-4 | Magnesium | 1400 | | 01/12/2025 | 0443 |
| 7439-96-5 | Manganese | 860 | * | 01/12/2025 | 0443 |
| 7440-02-0 | Nickel | 17 | | 01/12/2025 | 0443 |
| 7440-09-7 | Potassium | 700 | | 01/12/2025 | 0443 |
| 7782-49-2 | Selenium | 3.0 | J* | 01/12/2025 | 0443 |
| 7440-22-4 | Silver | 0.88 | U* | 01/12/2025 | 0443 |
| 7440-23-5 | Sodium | 440 | U | 01/12/2025 | 0443 |
| 7440-28-0 | Thallium | 2.2 | U | 01/12/2025 | 0443 |
| 7440-62-2 | Vanadium | 15 | | 01/12/2025 | 0443 |
| 7440-66-6 | Zinc | 140 | * | 01/12/2025 | 0443 |

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

Comments:

EPA SAMPLE NO.

MBHMZ5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-04

% Solids: 86.9 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5900 | | 01/12/2025 | 0447 |
| 7440-36-0 | Antimony | 6.0 | U* | 01/12/2025 | 0447 |
| 7440-38-2 | Arsenic | 11 | | 01/12/2025 | 0447 |
| 7440-39-3 | Barium | 85 | | 01/12/2025 | 0447 |
| 7440-41-7 | Beryllium | 0.43 | J* | 01/12/2025 | 0447 |
| 7440-43-9 | Cadmium | 0.75 | | 01/12/2025 | 0447 |
| 7440-70-2 | Calcium | 2000 | * | 01/12/2025 | 0447 |
| 7440-47-3 | Chromium | 11 | * | 01/12/2025 | 0447 |
| 7440-48-4 | Cobalt | 9.6 | | 01/12/2025 | 0447 |
| 7440-50-8 | Copper | 32 | | 01/12/2025 | 0447 |
| 7439-89-6 | Iron | 15000 | * | 01/12/2025 | 0447 |
| 7439-92-1 | Lead | 99 | | 01/12/2025 | 0447 |
| 7439-95-4 | Magnesium | 1600 | | 01/12/2025 | 0447 |
| 7439-96-5 | Manganese | 830 | * | 01/12/2025 | 0447 |
| 7440-02-0 | Nickel | 17 | | 01/12/2025 | 0447 |
| 7440-09-7 | Potassium | 460 | J | 01/12/2025 | 0447 |
| 7782-49-2 | Selenium | 3.0 | J* | 01/12/2025 | 0447 |
| 7440-22-4 | Silver | 1.0 | U* | 01/12/2025 | 0447 |
| 7440-23-5 | Sodium | 500 | U | 01/12/2025 | 0447 |
| 7440-28-0 | Thallium | 2.5 | U | 01/12/2025 | 0447 |
| 7440-62-2 | Vanadium | 15 | | 01/12/2025 | 0447 |
| 7440-66-6 | Zinc | 86 | * | 01/12/2025 | 0447 |

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

Comments:

EPA SAMPLE NO.

MBHMZ6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-05

% Solids: 82.5 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7100 | | 01/12/2025 | 0451 |
| 7440-36-0 | Antimony | 5.2 | U* | 01/12/2025 | 0451 |
| 7440-38-2 | Arsenic | 11 | | 01/12/2025 | 0451 |
| 7440-39-3 | Barium | 87 | | 01/12/2025 | 0451 |
| 7440-41-7 | Beryllium | 0.50 | * | 01/12/2025 | 0451 |
| 7440-43-9 | Cadmium | 1.0 | | 01/12/2025 | 0451 |
| 7440-70-2 | Calcium | 2400 | * | 01/12/2025 | 0451 |
| 7440-47-3 | Chromium | 12 | * | 01/12/2025 | 0451 |
| 7440-48-4 | Cobalt | 13 | | 01/12/2025 | 0451 |
| 7440-50-8 | Copper | 44 | | 01/12/2025 | 0451 |
| 7439-89-6 | Iron | 18000 | * | 01/12/2025 | 0451 |
| 7439-92-1 | Lead | 67 | | 01/12/2025 | 0451 |
| 7439-95-4 | Magnesium | 1900 | | 01/12/2025 | 0451 |
| 7439-96-5 | Manganese | 990 | * | 01/12/2025 | 0451 |
| 7440-02-0 | Nickel | 24 | | 01/12/2025 | 0451 |
| 7440-09-7 | Potassium | 550 | | 01/12/2025 | 0451 |
| 7782-49-2 | Selenium | 3.2 | * | 01/12/2025 | 0451 |
| 7440-22-4 | Silver | 0.87 | U* | 01/12/2025 | 0451 |
| 7440-23-5 | Sodium | 430 | U | 01/12/2025 | 0451 |
| 7440-28-0 | Thallium | 2.2 | U | 01/12/2025 | 0451 |
| 7440-62-2 | Vanadium | 16 | | 01/12/2025 | 0451 |
| 7440-66-6 | Zinc | 76 | * | 01/12/2025 | 0451 |

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

Comments:

EPA SAMPLE NO.

MBHMZ7

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-06

% Solids: 88.6 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4700 | | 01/12/2025 | 0455 |
| 7440-36-0 | Antimony | 5.8 | U* | 01/12/2025 | 0455 |
| 7440-38-2 | Arsenic | 6.5 | | 01/12/2025 | 0455 |
| 7440-39-3 | Barium | 47 | | 01/12/2025 | 0455 |
| 7440-41-7 | Beryllium | 0.36 | J* | 01/12/2025 | 0455 |
| 7440-43-9 | Cadmium | 0.58 | | 01/12/2025 | 0455 |
| 7440-70-2 | Calcium | 68000 | * | 01/12/2025 | 0455 |
| 7440-47-3 | Chromium | 7.9 | * | 01/12/2025 | 0455 |
| 7440-48-4 | Cobalt | 7.8 | | 01/12/2025 | 0455 |
| 7440-50-8 | Copper | 37 | | 01/12/2025 | 0455 |
| 7439-89-6 | Iron | 12000 | * | 01/12/2025 | 0455 |
| 7439-92-1 | Lead | 30 | | 01/12/2025 | 0455 |
| 7439-95-4 | Magnesium | 5000 | | 01/12/2025 | 0455 |
| 7439-96-5 | Manganese | 720 | * | 01/12/2025 | 0455 |
| 7440-02-0 | Nickel | 15 | | 01/12/2025 | 0455 |
| 7440-09-7 | Potassium | 670 | | 01/12/2025 | 0455 |
| 7782-49-2 | Selenium | 1.3 | J* | 01/12/2025 | 0455 |
| 7440-22-4 | Silver | 0.97 | U* | 01/12/2025 | 0455 |
| 7440-23-5 | Sodium | 69 | J | 01/12/2025 | 0455 |
| 7440-28-0 | Thallium | 2.4 | U | 01/12/2025 | 0455 |
| 7440-62-2 | Vanadium | 9.4 | | 01/12/2025 | 0455 |
| 7440-66-6 | Zinc | 50 | * | 01/12/2025 | 0455 |

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

Comments:

EPA SAMPLE NO.

MBHMZ8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-07

% Solids: 87.9 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4000 | | 01/12/2025 | 0508 |
| 7440-36-0 | Antimony | 5.8 | U* | 01/12/2025 | 0508 |
| 7440-38-2 | Arsenic | 5.6 | | 01/12/2025 | 0508 |
| 7440-39-3 | Barium | 35 | | 01/12/2025 | 0508 |
| 7440-41-7 | Beryllium | 0.32 | J* | 01/12/2025 | 0508 |
| 7440-43-9 | Cadmium | 0.57 | | 01/12/2025 | 0508 |
| 7440-70-2 | Calcium | 120000 | D* | 01/12/2025 | 1908 |
| 7440-47-3 | Chromium | 6.3 | * | 01/12/2025 | 0508 |
| 7440-48-4 | Cobalt | 6.5 | | 01/12/2025 | 0508 |
| 7440-50-8 | Copper | 29 | | 01/12/2025 | 0508 |
| 7439-89-6 | Iron | 10000 | * | 01/12/2025 | 0508 |
| 7439-92-1 | Lead | 23 | | 01/12/2025 | 0508 |
| 7439-95-4 | Magnesium | 13000 | | 01/12/2025 | 0508 |
| 7439-96-5 | Manganese | 900 | * | 01/12/2025 | 0508 |
| 7440-02-0 | Nickel | 13 | | 01/12/2025 | 0508 |
| 7440-09-7 | Potassium | 610 | | 01/12/2025 | 0508 |
| 7782-49-2 | Selenium | 3.4 | U* | 01/12/2025 | 0508 |
| 7440-22-4 | Silver | 0.97 | U* | 01/12/2025 | 0508 |
| 7440-23-5 | Sodium | 130 | J | 01/12/2025 | 0508 |
| 7440-28-0 | Thallium | 2.4 | U | 01/12/2025 | 0508 |
| 7440-62-2 | Vanadium | 8.1 | | 01/12/2025 | 0508 |
| 7440-66-6 | Zinc | 46 | * | 01/12/2025 | 0508 |

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

Comments:

EPA SAMPLE NO.

MBHN75

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-08

% Solids: 60.9 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6600 | | 01/12/2025 | 0512 |
| 7440-36-0 | Antimony | 8.6 | U* | 01/12/2025 | 0512 |
| 7440-38-2 | Arsenic | 8.5 | | 01/12/2025 | 0512 |
| 7440-39-3 | Barium | 130 | | 01/12/2025 | 0512 |
| 7440-41-7 | Beryllium | 0.52 | J* | 01/12/2025 | 0512 |
| 7440-43-9 | Cadmium | 0.99 | | 01/12/2025 | 0512 |
| 7440-70-2 | Calcium | 22000 | * | 01/12/2025 | 0512 |
| 7440-47-3 | Chromium | 16 | * | 01/12/2025 | 0512 |
| 7440-48-4 | Cobalt | 8.0 | | 01/12/2025 | 0512 |
| 7440-50-8 | Copper | 31 | | 01/12/2025 | 0512 |
| 7439-89-6 | Iron | 17000 | * | 01/12/2025 | 0512 |
| 7439-92-1 | Lead | 220 | | 01/12/2025 | 0512 |
| 7439-95-4 | Magnesium | 5400 | | 01/12/2025 | 0512 |
| 7439-96-5 | Manganese | 1000 | * | 01/12/2025 | 0512 |
| 7440-02-0 | Nickel | 20 | | 01/12/2025 | 0512 |
| 7440-09-7 | Potassium | 1400 | | 01/12/2025 | 0512 |
| 7782-49-2 | Selenium | 3.5 | J* | 01/12/2025 | 0512 |
| 7440-22-4 | Silver | 1.4 | U* | 01/12/2025 | 0512 |
| 7440-23-5 | Sodium | 720 | U | 01/12/2025 | 0512 |
| 7440-28-0 | Thallium | 3.6 | U | 01/12/2025 | 0512 |
| 7440-62-2 | Vanadium | 16 | | 01/12/2025 | 0512 |
| 7440-66-6 | Zinc | 200 | * | 01/12/2025 | 0512 |

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

Comments:

EPA SAMPLE NO.

MBHN76

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-09

% Solids: 71.2 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6000 | | 01/12/2025 | 0516 |
| 7440-36-0 | Antimony | 7.5 | U* | 01/12/2025 | 0516 |
| 7440-38-2 | Arsenic | 8.9 | | 01/12/2025 | 0516 |
| 7440-39-3 | Barium | 170 | | 01/12/2025 | 0516 |
| 7440-41-7 | Beryllium | 0.49 | J* | 01/12/2025 | 0516 |
| 7440-43-9 | Cadmium | 1.0 | | 01/12/2025 | 0516 |
| 7440-70-2 | Calcium | 47000 | * | 01/12/2025 | 0516 |
| 7440-47-3 | Chromium | 14 | * | 01/12/2025 | 0516 |
| 7440-48-4 | Cobalt | 7.8 | | 01/12/2025 | 0516 |
| 7440-50-8 | Copper | 27 | | 01/12/2025 | 0516 |
| 7439-89-6 | Iron | 16000 | * | 01/12/2025 | 0516 |
| 7439-92-1 | Lead | 220 | | 01/12/2025 | 0516 |
| 7439-95-4 | Magnesium | 5200 | | 01/12/2025 | 0516 |
| 7439-96-5 | Manganese | 1200 | * | 01/12/2025 | 0516 |
| 7440-02-0 | Nickel | 17 | | 01/12/2025 | 0516 |
| 7440-09-7 | Potassium | 1100 | | 01/12/2025 | 0516 |
| 7782-49-2 | Selenium | 2.8 | J* | 01/12/2025 | 0516 |
| 7440-22-4 | Silver | 1.3 | U* | 01/12/2025 | 0516 |
| 7440-23-5 | Sodium | 630 | U | 01/12/2025 | 0516 |
| 7440-28-0 | Thallium | 3.1 | U | 01/12/2025 | 0516 |
| 7440-62-2 | Vanadium | 16 | | 01/12/2025 | 0516 |
| 7440-66-6 | Zinc | 200 | * | 01/12/2025 | 0516 |

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

Comments:

EPA SAMPLE NO.

MBHN77

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-10

% Solids: 79 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6100 | | 01/12/2025 | 0520 |
| 7440-36-0 | Antimony | 6.7 | U* | 01/12/2025 | 0520 |
| 7440-38-2 | Arsenic | 9.7 | | 01/12/2025 | 0520 |
| 7440-39-3 | Barium | 130 | | 01/12/2025 | 0520 |
| 7440-41-7 | Beryllium | 0.47 | J* | 01/12/2025 | 0520 |
| 7440-43-9 | Cadmium | 0.96 | | 01/12/2025 | 0520 |
| 7440-70-2 | Calcium | 24000 | * | 01/12/2025 | 0520 |
| 7440-47-3 | Chromium | 14 | * | 01/12/2025 | 0520 |
| 7440-48-4 | Cobalt | 7.9 | | 01/12/2025 | 0520 |
| 7440-50-8 | Copper | 27 | | 01/12/2025 | 0520 |
| 7439-89-6 | Iron | 16000 | * | 01/12/2025 | 0520 |
| 7439-92-1 | Lead | 260 | | 01/12/2025 | 0520 |
| 7439-95-4 | Magnesium | 5800 | | 01/12/2025 | 0520 |
| 7439-96-5 | Manganese | 920 | * | 01/12/2025 | 0520 |
| 7440-02-0 | Nickel | 18 | | 01/12/2025 | 0520 |
| 7440-09-7 | Potassium | 1000 | | 01/12/2025 | 0520 |
| 7782-49-2 | Selenium | 3.2 | J* | 01/12/2025 | 0520 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0520 |
| 7440-23-5 | Sodium | 560 | U | 01/12/2025 | 0520 |
| 7440-28-0 | Thallium | 2.8 | U | 01/12/2025 | 0520 |
| 7440-62-2 | Vanadium | 14 | | 01/12/2025 | 0520 |
| 7440-66-6 | Zinc | 180 | * | 01/12/2025 | 0520 |

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

Comments:

EPA SAMPLE NO.

MBHN78

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-11

% Solids: 76.8 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7100 | | 01/12/2025 | 0524 |
| 7440-36-0 | Antimony | 7.0 | U* | 01/12/2025 | 0524 |
| 7440-38-2 | Arsenic | 9.8 | | 01/12/2025 | 0524 |
| 7440-39-3 | Barium | 150 | | 01/12/2025 | 0524 |
| 7440-41-7 | Beryllium | 0.53 | J* | 01/12/2025 | 0524 |
| 7440-43-9 | Cadmium | 0.89 | | 01/12/2025 | 0524 |
| 7440-70-2 | Calcium | 7800 | * | 01/12/2025 | 0524 |
| 7440-47-3 | Chromium | 14 | * | 01/12/2025 | 0524 |
| 7440-48-4 | Cobalt | 8.1 | | 01/12/2025 | 0524 |
| 7440-50-8 | Copper | 26 | | 01/12/2025 | 0524 |
| 7439-89-6 | Iron | 17000 | * | 01/12/2025 | 0524 |
| 7439-92-1 | Lead | 180 | | 01/12/2025 | 0524 |
| 7439-95-4 | Magnesium | 2700 | | 01/12/2025 | 0524 |
| 7439-96-5 | Manganese | 960 | * | 01/12/2025 | 0524 |
| 7440-02-0 | Nickel | 17 | | 01/12/2025 | 0524 |
| 7440-09-7 | Potassium | 1100 | | 01/12/2025 | 0524 |
| 7782-49-2 | Selenium | 3.6 | J* | 01/12/2025 | 0524 |
| 7440-22-4 | Silver | 1.2 | U* | 01/12/2025 | 0524 |
| 7440-23-5 | Sodium | 580 | U | 01/12/2025 | 0524 |
| 7440-28-0 | Thallium | 2.9 | U | 01/12/2025 | 0524 |
| 7440-62-2 | Vanadium | 16 | | 01/12/2025 | 0524 |
| 7440-66-6 | Zinc | 140 | * | 01/12/2025 | 0524 |

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

Comments:

EPA SAMPLE NO.

MBHN79

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-12

% Solids: 77.5 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6200 | | 01/12/2025 | 0528 |
| 7440-36-0 | Antimony | 6.6 | U* | 01/12/2025 | 0528 |
| 7440-38-2 | Arsenic | 7.2 | | 01/12/2025 | 0528 |
| 7440-39-3 | Barium | 130 | | 01/12/2025 | 0528 |
| 7440-41-7 | Beryllium | 0.45 | J* | 01/12/2025 | 0528 |
| 7440-43-9 | Cadmium | 0.76 | | 01/12/2025 | 0528 |
| 7440-70-2 | Calcium | 11000 | * | 01/12/2025 | 0528 |
| 7440-47-3 | Chromium | 12 | * | 01/12/2025 | 0528 |
| 7440-48-4 | Cobalt | 7.4 | | 01/12/2025 | 0528 |
| 7440-50-8 | Copper | 18 | | 01/12/2025 | 0528 |
| 7439-89-6 | Iron | 15000 | * | 01/12/2025 | 0528 |
| 7439-92-1 | Lead | 110 | | 01/12/2025 | 0528 |
| 7439-95-4 | Magnesium | 2500 | | 01/12/2025 | 0528 |
| 7439-96-5 | Manganese | 1000 | * | 01/12/2025 | 0528 |
| 7440-02-0 | Nickel | 15 | | 01/12/2025 | 0528 |
| 7440-09-7 | Potassium | 920 | | 01/12/2025 | 0528 |
| 7782-49-2 | Selenium | 2.8 | J* | 01/12/2025 | 0528 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0528 |
| 7440-23-5 | Sodium | 550 | U | 01/12/2025 | 0528 |
| 7440-28-0 | Thallium | 2.7 | U | 01/12/2025 | 0528 |
| 7440-62-2 | Vanadium | 14 | | 01/12/2025 | 0528 |
| 7440-66-6 | Zinc | 100 | * | 01/12/2025 | 0528 |

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

Comments:

EPA SAMPLE NO.

MBHN80

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-13

% Solids: 84.8 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6300 | | 01/12/2025 | 0532 |
| 7440-36-0 | Antimony | 6.2 | U* | 01/12/2025 | 0532 |
| 7440-38-2 | Arsenic | 6.2 | | 01/12/2025 | 0532 |
| 7440-39-3 | Barium | 100 | | 01/12/2025 | 0532 |
| 7440-41-7 | Beryllium | 0.41 | J* | 01/12/2025 | 0532 |
| 7440-43-9 | Cadmium | 0.70 | | 01/12/2025 | 0532 |
| 7440-70-2 | Calcium | 9600 | * | 01/12/2025 | 0532 |
| 7440-47-3 | Chromium | 13 | * | 01/12/2025 | 0532 |
| 7440-48-4 | Cobalt | 8.9 | | 01/12/2025 | 0532 |
| 7440-50-8 | Copper | 11 | | 01/12/2025 | 0532 |
| 7439-89-6 | Iron | 19000 | * | 01/12/2025 | 0532 |
| 7439-92-1 | Lead | 80 | | 01/12/2025 | 0532 |
| 7439-95-4 | Magnesium | 2700 | | 01/12/2025 | 0532 |
| 7439-96-5 | Manganese | 830 | * | 01/12/2025 | 0532 |
| 7440-02-0 | Nickel | 20 | | 01/12/2025 | 0532 |
| 7440-09-7 | Potassium | 890 | | 01/12/2025 | 0532 |
| 7782-49-2 | Selenium | 2.9 | J* | 01/12/2025 | 0532 |
| 7440-22-4 | Silver | 1.0 | U* | 01/12/2025 | 0532 |
| 7440-23-5 | Sodium | 510 | U | 01/12/2025 | 0532 |
| 7440-28-0 | Thallium | 2.6 | U | 01/12/2025 | 0532 |
| 7440-62-2 | Vanadium | 15 | | 01/12/2025 | 0532 |
| 7440-66-6 | Zinc | 81 | * | 01/12/2025 | 0532 |

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

Comments:

EPA SAMPLE NO.

MBHN81

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-14

% Solids: 82.1 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6600 | | 01/12/2025 | 0536 |
| 7440-36-0 | Antimony | 5.8 | U* | 01/12/2025 | 0536 |
| 7440-38-2 | Arsenic | 5.5 | | 01/12/2025 | 0536 |
| 7440-39-3 | Barium | 66 | | 01/12/2025 | 0536 |
| 7440-41-7 | Beryllium | 0.40 | J* | 01/12/2025 | 0536 |
| 7440-43-9 | Cadmium | 0.56 | | 01/12/2025 | 0536 |
| 7440-70-2 | Calcium | 6500 | * | 01/12/2025 | 0536 |
| 7440-47-3 | Chromium | 14 | * | 01/12/2025 | 0536 |
| 7440-48-4 | Cobalt | 8.4 | | 01/12/2025 | 0536 |
| 7440-50-8 | Copper | 15 | | 01/12/2025 | 0536 |
| 7439-89-6 | Iron | 18000 | * | 01/12/2025 | 0536 |
| 7439-92-1 | Lead | 58 | | 01/12/2025 | 0536 |
| 7439-95-4 | Magnesium | 3800 | | 01/12/2025 | 0536 |
| 7439-96-5 | Manganese | 400 | * | 01/12/2025 | 0536 |
| 7440-02-0 | Nickel | 20 | | 01/12/2025 | 0536 |
| 7440-09-7 | Potassium | 880 | | 01/12/2025 | 0536 |
| 7782-49-2 | Selenium | 3.2 | J* | 01/12/2025 | 0536 |
| 7440-22-4 | Silver | 0.97 | U* | 01/12/2025 | 0536 |
| 7440-23-5 | Sodium | 480 | U | 01/12/2025 | 0536 |
| 7440-28-0 | Thallium | 2.4 | U | 01/12/2025 | 0536 |
| 7440-62-2 | Vanadium | 15 | | 01/12/2025 | 0536 |
| 7440-66-6 | Zinc | 75 | * | 01/12/2025 | 0536 |

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

Comments:

EPA SAMPLE NO.

MBHN96

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-17

% Solids: 60.9 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4700 | | 01/12/2025 | 0552 |
| 7440-36-0 | Antimony | 4.7 | J* | 01/12/2025 | 0552 |
| 7440-38-2 | Arsenic | 8.6 | | 01/12/2025 | 0552 |
| 7440-39-3 | Barium | 76 | | 01/12/2025 | 0552 |
| 7440-41-7 | Beryllium | 0.40 | J* | 01/12/2025 | 0552 |
| 7440-43-9 | Cadmium | 1.1 | | 01/12/2025 | 0552 |
| 7440-70-2 | Calcium | 38000 | * | 01/12/2025 | 0552 |
| 7440-47-3 | Chromium | 15 | * | 01/12/2025 | 0552 |
| 7440-48-4 | Cobalt | 6.6 | J | 01/12/2025 | 0552 |
| 7440-50-8 | Copper | 59 | | 01/12/2025 | 0552 |
| 7439-89-6 | Iron | 14000 | * | 01/12/2025 | 0552 |
| 7439-92-1 | Lead | 160 | | 01/12/2025 | 0552 |
| 7439-95-4 | Magnesium | 11000 | | 01/12/2025 | 0552 |
| 7439-96-5 | Manganese | 620 | * | 01/12/2025 | 0552 |
| 7440-02-0 | Nickel | 23 | | 01/12/2025 | 0552 |
| 7440-09-7 | Potassium | 1200 | | 01/12/2025 | 0552 |
| 7782-49-2 | Selenium | 2.5 | J* | 01/12/2025 | 0552 |
| 7440-22-4 | Silver | 1.4 | U* | 01/12/2025 | 0552 |
| 7440-23-5 | Sodium | 96 | J | 01/12/2025 | 0552 |
| 7440-28-0 | Thallium | 3.5 | U | 01/12/2025 | 0552 |
| 7440-62-2 | Vanadium | 13 | | 01/12/2025 | 0552 |
| 7440-66-6 | Zinc | 220 | * | 01/12/2025 | 0552 |

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

Comments:

EPA SAMPLE NO.

MBHN97

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-18

% Solids: 76.8 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5100 | | 01/12/2025 | 0555 |
| 7440-36-0 | Antimony | 3.0 | J* | 01/12/2025 | 0555 |
| 7440-38-2 | Arsenic | 9.4 | | 01/12/2025 | 0555 |
| 7440-39-3 | Barium | 72 | | 01/12/2025 | 0555 |
| 7440-41-7 | Beryllium | 0.41 | J* | 01/12/2025 | 0555 |
| 7440-43-9 | Cadmium | 1.1 | | 01/12/2025 | 0555 |
| 7440-70-2 | Calcium | 46000 | * | 01/12/2025 | 0555 |
| 7440-47-3 | Chromium | 15 | * | 01/12/2025 | 0555 |
| 7440-48-4 | Cobalt | 7.0 | | 01/12/2025 | 0555 |
| 7440-50-8 | Copper | 58 | | 01/12/2025 | 0555 |
| 7439-89-6 | Iron | 16000 | * | 01/12/2025 | 0555 |
| 7439-92-1 | Lead | 140 | | 01/12/2025 | 0555 |
| 7439-95-4 | Magnesium | 9400 | | 01/12/2025 | 0555 |
| 7439-96-5 | Manganese | 680 | * | 01/12/2025 | 0555 |
| 7440-02-0 | Nickel | 23 | | 01/12/2025 | 0555 |
| 7440-09-7 | Potassium | 1000 | | 01/12/2025 | 0555 |
| 7782-49-2 | Selenium | 2.6 | J* | 01/12/2025 | 0555 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0555 |
| 7440-23-5 | Sodium | 110 | J | 01/12/2025 | 0555 |
| 7440-28-0 | Thallium | 2.7 | U | 01/12/2025 | 0555 |
| 7440-62-2 | Vanadium | 13 | | 01/12/2025 | 0555 |
| 7440-66-6 | Zinc | 190 | * | 01/12/2025 | 0555 |

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

Comments:

EPA SAMPLE NO.

MBHN98

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-19

% Solids: 84.3 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4300 | | 01/12/2025 | 0600 |
| 7440-36-0 | Antimony | 5.8 | U* | 01/12/2025 | 0600 |
| 7440-38-2 | Arsenic | 8.4 | | 01/12/2025 | 0600 |
| 7440-39-3 | Barium | 62 | | 01/12/2025 | 0600 |
| 7440-41-7 | Beryllium | 0.44 | J* | 01/12/2025 | 0600 |
| 7440-43-9 | Cadmium | 0.53 | | 01/12/2025 | 0600 |
| 7440-70-2 | Calcium | 48000 | * | 01/12/2025 | 0600 |
| 7440-47-3 | Chromium | 8.8 | * | 01/12/2025 | 0600 |
| 7440-48-4 | Cobalt | 5.8 | | 01/12/2025 | 0600 |
| 7440-50-8 | Copper | 34 | | 01/12/2025 | 0600 |
| 7439-89-6 | Iron | 13000 | * | 01/12/2025 | 0600 |
| 7439-92-1 | Lead | 60 | | 01/12/2025 | 0600 |
| 7439-95-4 | Magnesium | 6000 | | 01/12/2025 | 0600 |
| 7439-96-5 | Manganese | 350 | * | 01/12/2025 | 0600 |
| 7440-02-0 | Nickel | 16 | | 01/12/2025 | 0600 |
| 7440-09-7 | Potassium | 650 | | 01/12/2025 | 0600 |
| 7782-49-2 | Selenium | 1.9 | J* | 01/12/2025 | 0600 |
| 7440-22-4 | Silver | 0.97 | U* | 01/12/2025 | 0600 |
| 7440-23-5 | Sodium | 99 | J | 01/12/2025 | 0600 |
| 7440-28-0 | Thallium | 2.4 | U | 01/12/2025 | 0600 |
| 7440-62-2 | Vanadium | 11 | | 01/12/2025 | 0600 |
| 7440-66-6 | Zinc | 110 | * | 01/12/2025 | 0600 |

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

Comments:

EPA SAMPLE NO.

MBHN99

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-20

% Solids: 82.2 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5700 | | 01/12/2025 | 0604 |
| 7440-36-0 | Antimony | 6.5 | U* | 01/12/2025 | 0604 |
| 7440-38-2 | Arsenic | 12 | | 01/12/2025 | 0604 |
| 7440-39-3 | Barium | 110 | | 01/12/2025 | 0604 |
| 7440-41-7 | Beryllium | 0.49 | J* | 01/12/2025 | 0604 |
| 7440-43-9 | Cadmium | 0.87 | | 01/12/2025 | 0604 |
| 7440-70-2 | Calcium | 18000 | * | 01/12/2025 | 0604 |
| 7440-47-3 | Chromium | 10 | * | 01/12/2025 | 0604 |
| 7440-48-4 | Cobalt | 9.4 | | 01/12/2025 | 0604 |
| 7440-50-8 | Copper | 31 | | 01/12/2025 | 0604 |
| 7439-89-6 | Iron | 17000 | * | 01/12/2025 | 0604 |
| 7439-92-1 | Lead | 79 | | 01/12/2025 | 0604 |
| 7439-95-4 | Magnesium | 4300 | | 01/12/2025 | 0604 |
| 7439-96-5 | Manganese | 1200 | * | 01/12/2025 | 0604 |
| 7440-02-0 | Nickel | 16 | | 01/12/2025 | 0604 |
| 7440-09-7 | Potassium | 700 | | 01/12/2025 | 0604 |
| 7782-49-2 | Selenium | 3.2 | J* | 01/12/2025 | 0604 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0604 |
| 7440-23-5 | Sodium | 77 | J | 01/12/2025 | 0604 |
| 7440-28-0 | Thallium | 2.7 | U | 01/12/2025 | 0604 |
| 7440-62-2 | Vanadium | 15 | | 01/12/2025 | 0604 |
| 7440-66-6 | Zinc | 80 | * | 01/12/2025 | 0604 |

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

Comments:

EPA SAMPLE NO.

MBHNA0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-21

% Solids: 83.2 Date Received: 12/07/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5900 | | 01/12/2025 | 0608 |
| 7440-36-0 | Antimony | 6.3 | U* | 01/12/2025 | 0608 |
| 7440-38-2 | Arsenic | 12 | | 01/12/2025 | 0608 |
| 7440-39-3 | Barium | 88 | | 01/12/2025 | 0608 |
| 7440-41-7 | Beryllium | 0.56 | * | 01/12/2025 | 0608 |
| 7440-43-9 | Cadmium | 1.1 | | 01/12/2025 | 0608 |
| 7440-70-2 | Calcium | 13000 | * | 01/12/2025 | 0608 |
| 7440-47-3 | Chromium | 9.5 | * | 01/12/2025 | 0608 |
| 7440-48-4 | Cobalt | 12 | | 01/12/2025 | 0608 |
| 7440-50-8 | Copper | 26 | | 01/12/2025 | 0608 |
| 7439-89-6 | Iron | 18000 | * | 01/12/2025 | 0608 |
| 7439-92-1 | Lead | 68 | | 01/12/2025 | 0608 |
| 7439-95-4 | Magnesium | 3000 | | 01/12/2025 | 0608 |
| 7439-96-5 | Manganese | 1600 | * | 01/12/2025 | 0608 |
| 7440-02-0 | Nickel | 15 | | 01/12/2025 | 0608 |
| 7440-09-7 | Potassium | 570 | | 01/12/2025 | 0608 |
| 7782-49-2 | Selenium | 3.5 | J* | 01/12/2025 | 0608 |
| 7440-22-4 | Silver | 1.1 | U* | 01/12/2025 | 0608 |
| 7440-23-5 | Sodium | 89 | J | 01/12/2025 | 0608 |
| 7440-28-0 | Thallium | 2.6 | U | 01/12/2025 | 0608 |
| 7440-62-2 | Vanadium | 14 | | 01/12/2025 | 0608 |
| 7440-66-6 | Zinc | 81 | * | 01/12/2025 | 0608 |

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

Comments:

EPA SAMPLE NO.

MBHNC2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHMZ2

Matrix: SOIL Lab Sample ID: P5209-22

% Solids: 77.3 Date Received: 12/07/2024

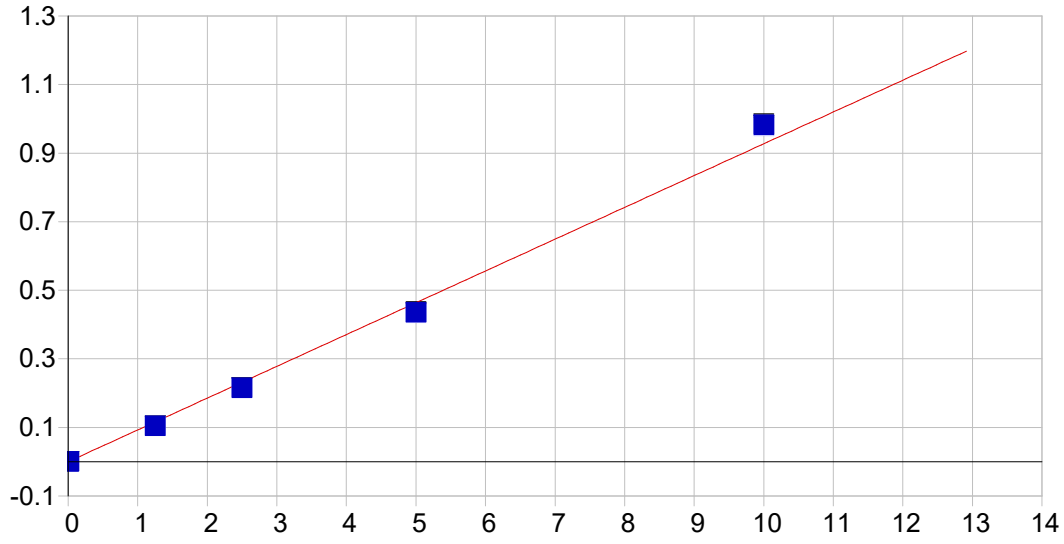
Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4500 | | 01/12/2025 | 0611 |
| 7440-36-0 | Antimony | 0.82 | J* | 01/12/2025 | 0611 |
| 7440-38-2 | Arsenic | 9.2 | | 01/12/2025 | 0611 |
| 7440-39-3 | Barium | 110 | | 01/12/2025 | 0611 |
| 7440-41-7 | Beryllium | 0.37 | J* | 01/12/2025 | 0611 |
| 7440-43-9 | Cadmium | 1.3 | | 01/12/2025 | 0611 |
| 7440-70-2 | Calcium | 23000 | * | 01/12/2025 | 0611 |
| 7440-47-3 | Chromium | 15 | * | 01/12/2025 | 0611 |
| 7440-48-4 | Cobalt | 7.2 | | 01/12/2025 | 0611 |
| 7440-50-8 | Copper | 69 | | 01/12/2025 | 0611 |
| 7439-89-6 | Iron | 19000 | * | 01/12/2025 | 0611 |
| 7439-92-1 | Lead | 420 | | 01/12/2025 | 0611 |
| 7439-95-4 | Magnesium | 6100 | | 01/12/2025 | 0611 |
| 7439-96-5 | Manganese | 500 | * | 01/12/2025 | 0611 |
| 7440-02-0 | Nickel | 23 | | 01/12/2025 | 0611 |
| 7440-09-7 | Potassium | 800 | | 01/12/2025 | 0611 |
| 7782-49-2 | Selenium | 4.2 | * | 01/12/2025 | 0611 |
| 7440-22-4 | Silver | 1.2 | U* | 01/12/2025 | 0611 |
| 7440-23-5 | Sodium | 580 | U | 01/12/2025 | 0611 |
| 7440-28-0 | Thallium | 2.9 | U | 01/12/2025 | 0611 |
| 7440-62-2 | Vanadium | 14 | | 01/12/2025 | 0611 |
| 7440-66-6 | Zinc | 610 | * | 01/12/2025 | 0611 |

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

Comments:

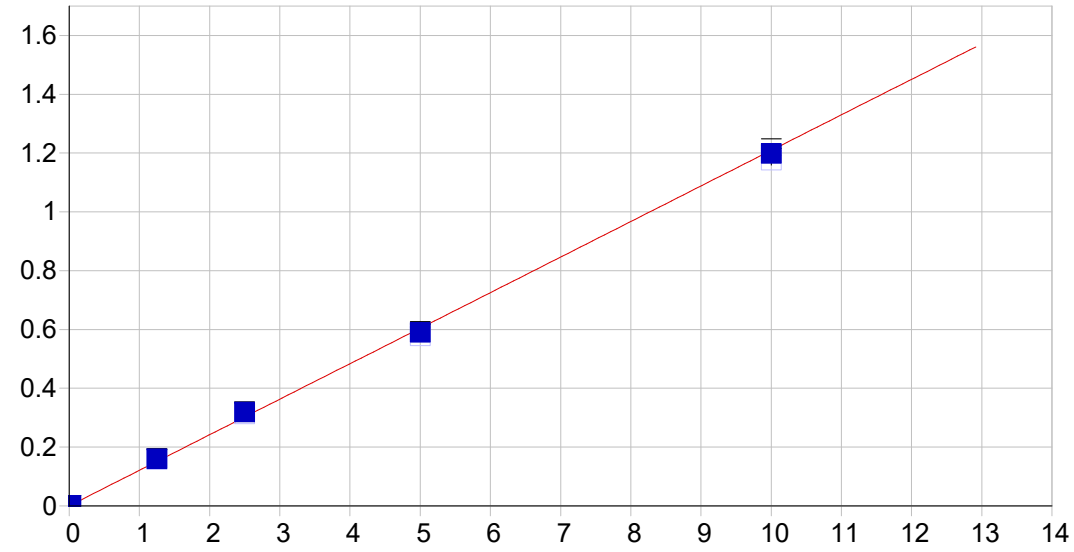



**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000036 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.092726 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.997932 | Status: | OK. |
| Std Error of Est: | 0.000100 | | |
| Predicted MDL: | 0.002428 | | |
| Predicted MQL: | 0.008093 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00004 | .000 | 1 |
| S1 | .01000 | .00900 | -.001 | -10.0 | .00080 | .000 | 1 |
| S3 | 2.5000 | 2.3279 | -.172 | -6.88 | .21489 | .000 | 1 |
| S4 | 5.0000 | 4.6998 | -.300 | -6.00 | .43391 | .002 | 1 |
| S5 | 10.000 | 10.595 | .595 | 5.95 | .97869 | .003 | 1 |
| S2 | 1.2500 | 1.1283 | -.122 | -9.74 | .10412 | .000 | 1 |

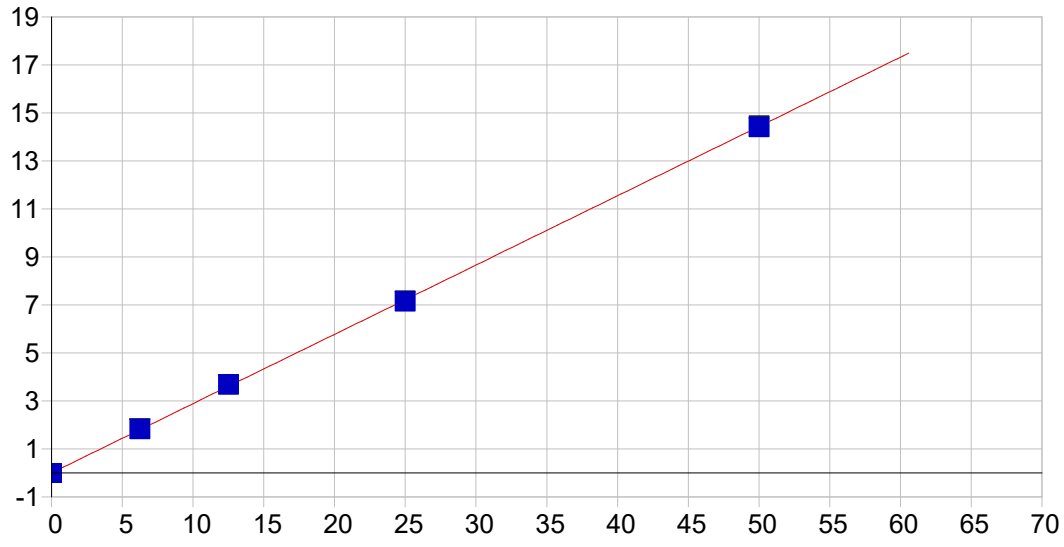



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000180 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.120880 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999576 | Status: | OK. |
| Std Error of Est: | 0.000092 | | |
| Predicted MDL: | 0.001598 | | |
| Predicted MQL: | 0.005325 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00018 | .000 | 1 |
| S1 | .02500 | .02752 | .003 | 10.1 | .00338 | .000 | 1 |
| S3 | 2.5000 | 2.6347 | .135 | 5.39 | .31282 | .002 | 1 |
| S4 | 5.0000 | 4.8774 | -.123 | -2.45 | .57807 | .004 | 1 |
| S5 | 10.000 | 9.9141 | -.086 | -.859 | 1.1752 | .016 | 1 |
| S2 | 1.2500 | 1.3213 | .071 | 5.71 | .15698 | .000 | 1 |

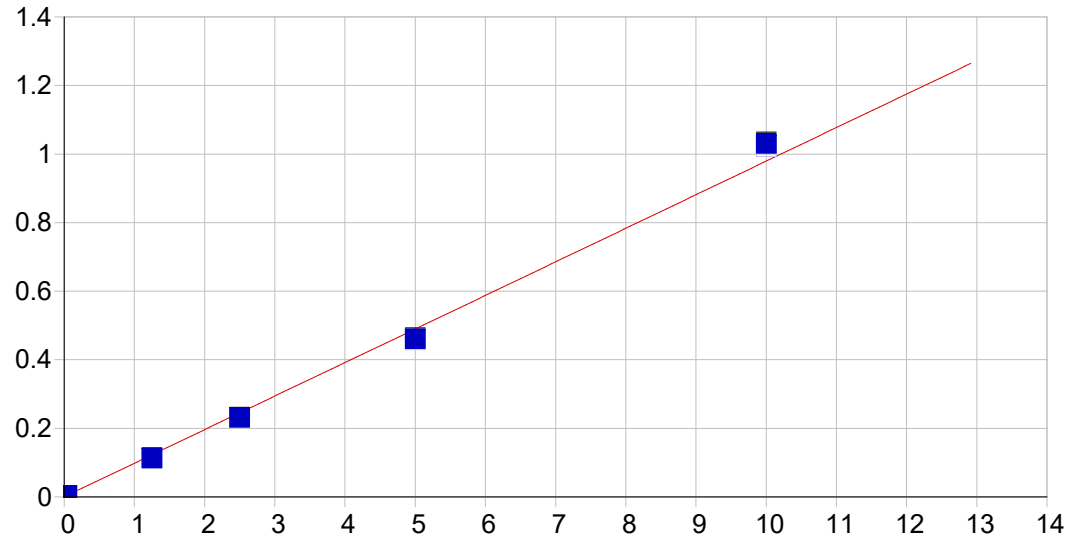



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000148 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.288689 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999954 | Status: | OK. |
| Std Error of Est: | 0.000103 | | |
| Predicted MDL: | 0.001519 | | |
| Predicted MQL: | 0.005063 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00015 | .001 | 1 |
| S1 | .01000 | .01016 | .000 | 1.64 | .00277 | .001 | 1 |
| S3 | 12.500 | 12.740 | .240 | 1.92 | 3.6748 | .002 | 1 |
| S4 | 25.000 | 24.758 | -.242 | -.967 | 7.1412 | .015 | 1 |
| S5 | 50.000 | 49.907 | -.093 | -.185 | 14.395 | .051 | 1 |
| S2 | 6.2500 | 6.3439 | .094 | 1.50 | 1.8298 | .005 | 1 |



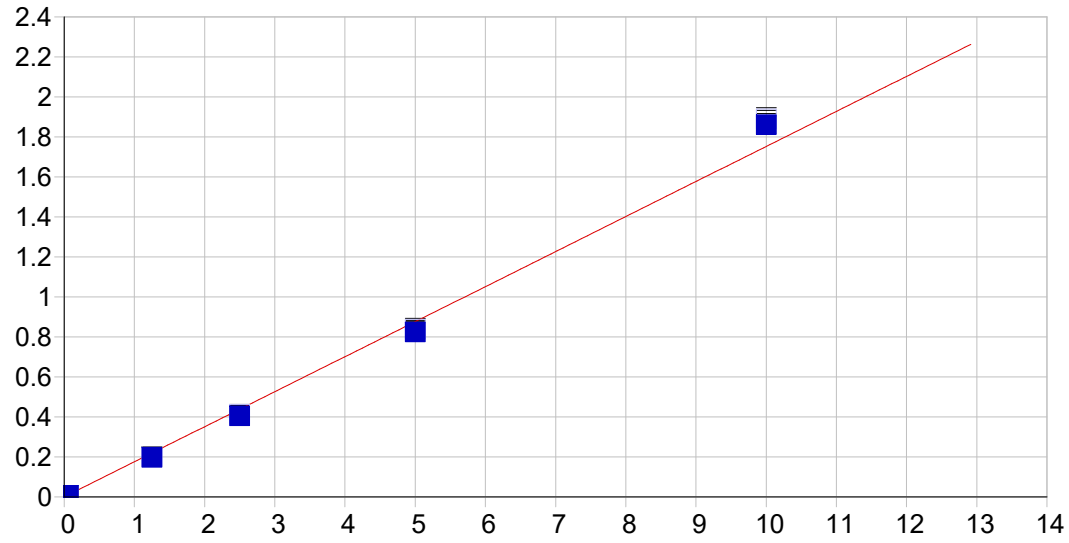

**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000407 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.097877 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998404 | Status: | OK. |
| Std Error of Est: | 0.000172 | | |
| Predicted MDL: | 0.002899 | | |
| Predicted MQL: | 0.009664 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00041 | .000 | 1 |
| S1 | .03500 | .03348 | -.002 | -4.34 | .00368 | .000 | 1 |
| S3 | 2.5000 | 2.3652 | -.135 | -5.39 | .22965 | .001 | 1 |
| S4 | 5.0000 | 4.7106 | -.289 | -5.79 | .45696 | .002 | 1 |
| S5 | 10.000 | 10.523 | .523 | 5.23 | 1.0213 | .004 | 1 |
| S2 | 1.2500 | 1.1528 | -.097 | -7.78 | .11211 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

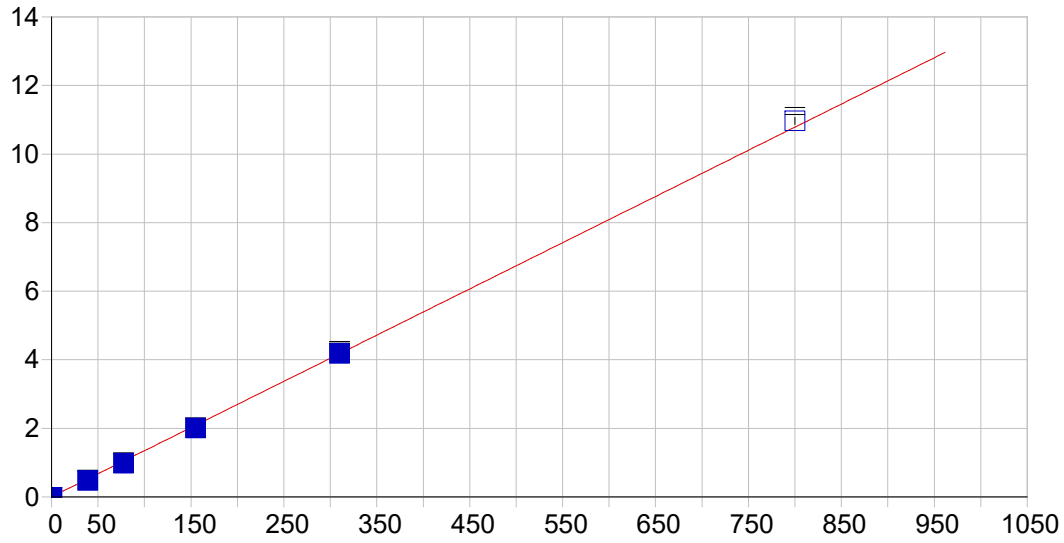



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000425 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.175170 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.997818 | Status: | OK. |
| Std Error of Est: | 0.000484 | | |
| Predicted MDL: | 0.001924 | | |
| Predicted MQL: | 0.006414 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00043 | .000 | 1 |
| S1 | .06000 | .05130 | -.009 | -14.5 | .00940 | .000 | 1 |
| S3 | 2.5000 | 2.3107 | -.189 | -7.57 | .41235 | .001 | 1 |
| S4 | 5.0000 | 4.7025 | -.297 | -5.95 | .83848 | .004 | 1 |
| S5 | 10.000 | 10.623 | .623 | 6.23 | 1.8898 | .006 | 1 |
| S2 | 1.2500 | 1.1226 | -.127 | -10.2 | .20065 | .001 | 1 |

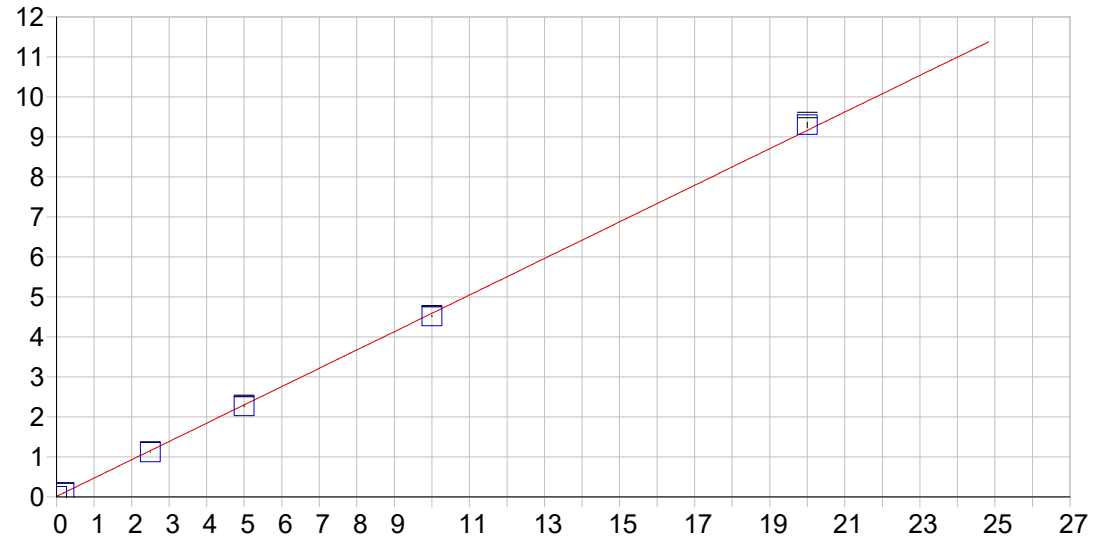



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:29:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000102 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.013481 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999630 | Status: | OK. |
| Std Error of Est: | 0.000228 | | |
| Predicted MDL: | 0.010951 | | |
| Predicted MQL: | 0.036504 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00010 | .000 | 1 |
| S1 | .20000 | .21474 | .015 | 7.37 | .00300 | .000 | 1 |
| S3 | 77.500 | 72.861 | -4.64 | -5.99 | .98357 | .006 | 1 |
| S4 | 155.00 | 148.77 | -6.23 | -4.02 | 2.0081 | .003 | 1 |
| S5 | 310.00 | 310.49 | .491 | .158 | 4.1908 | .048 | 1 |
| S2 | 38.750 | 35.562 | -3.19 | -8.23 | .48013 | .002 | 1 |
| S6 | 800.00 | 813.57 | 13.6 | 1.70 | 10.968 | .103 | 1 |



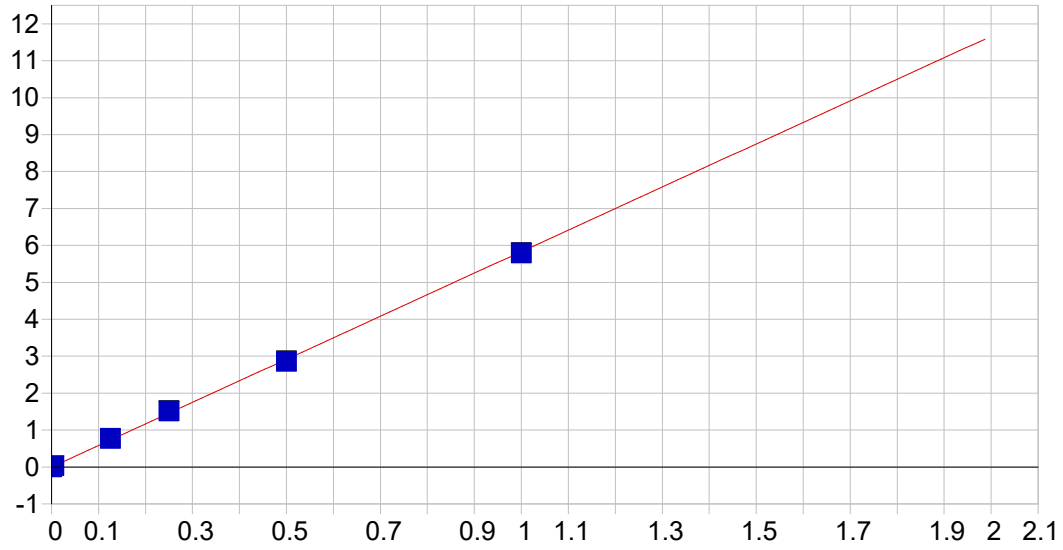

**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.013631 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.457506 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999858 | Status: | OK. |
| Std Error of Est: | 0.000819 | | |
| Predicted MDL: | 0.001017 | | |
| Predicted MQL: | 0.003391 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .01364 | .000 | 1 |
| S1 | .20000 | .18965 | -.010 | -5.17 | .10040 | .001 | 1 |
| S3 | 5.0000 | 4.9395 | -.061 | -1.21 | 2.2735 | .021 | 1 |
| S4 | 10.000 | 9.8502 | -.150 | -1.50 | 4.5202 | .019 | 1 |
| S5 | 20.000 | 20.302 | .302 | 1.51 | 9.3019 | .069 | 1 |
| S2 | 2.5000 | 2.4188 | -.081 | -3.25 | 1.1202 | .006 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



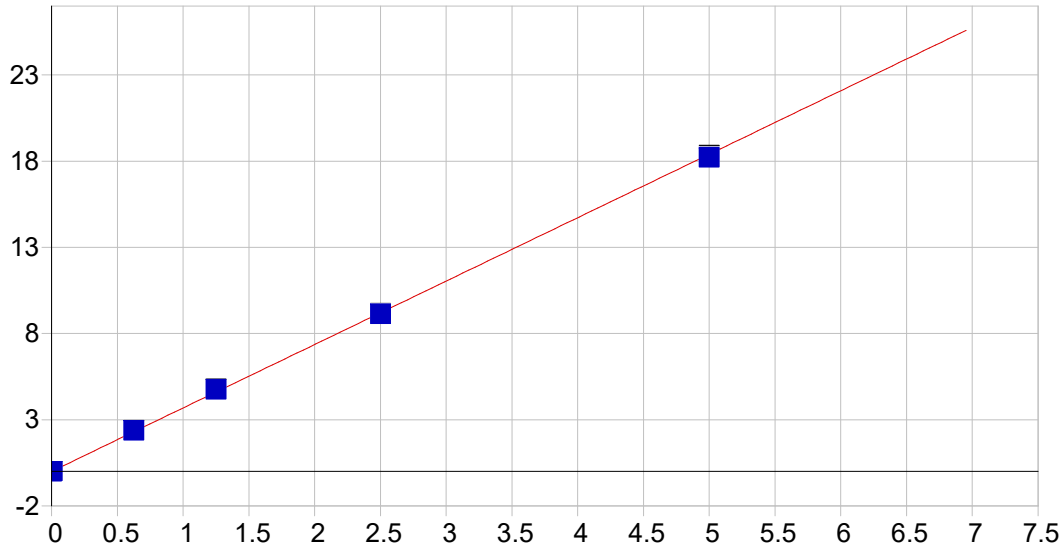

**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000087 | Re-Slope: | 1.000000 |
| A1 (Gain): | 5.831456 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999734 | Status: | OK. |
| Std Error of Est: | 0.000503 | | |
| Predicted MDL: | 0.000078 | | |
| Predicted MQL: | 0.000259 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00008 | .000 | 1 |
| S1 | .00500 | .00530 | .000 | 6.02 | .03096 | .000 | 1 |
| S3 | .25000 | .25944 | .009 | 3.78 | 1.5064 | .005 | 1 |
| S4 | .50000 | .48994 | -.010 | -2.01 | 2.8440 | .013 | 1 |
| S5 | 1.0000 | .99349 | -.007 | -.651 | 5.7673 | .012 | 1 |
| S2 | .12500 | .13183 | .007 | 5.46 | .76554 | .004 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



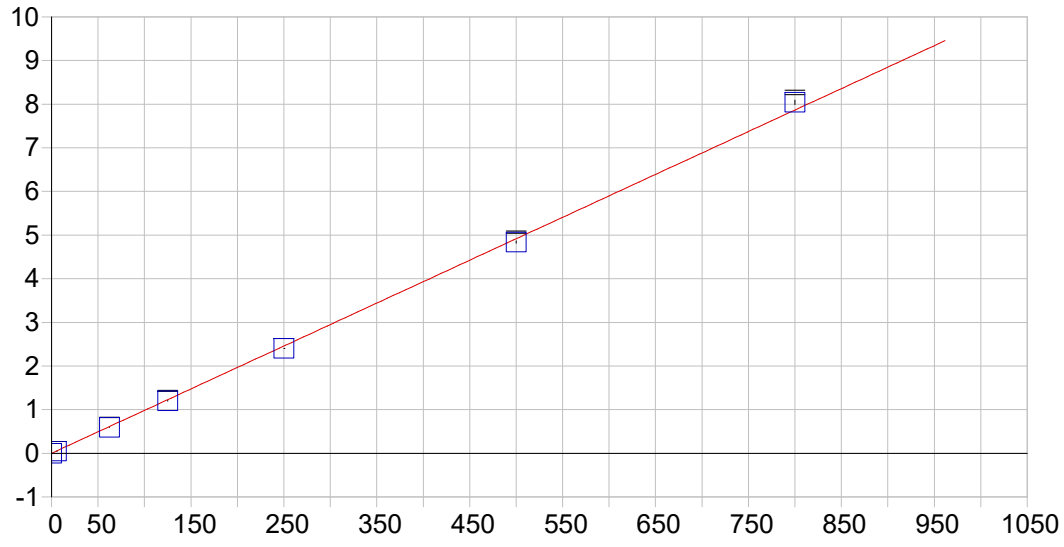

**Cd 214.438 {457}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000026 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.680984 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999846 | Status: | OK. |
| Std Error of Est: | 0.000543 | | |
| Predicted MDL: | 0.000077 | | |
| Predicted MQL: | 0.000257 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00003 | .000 | 1 |
| S1 | .00500 | .00506 | .000 | 1.24 | .01867 | .000 | 1 |
| S3 | 1.2500 | 1.2948 | .045 | 3.59 | 4.7754 | .005 | 1 |
| S4 | 2.5000 | 2.4831 | -.017 | -.675 | 9.1586 | .022 | 1 |
| S5 | 5.0000 | 4.9510 | -.049 | -.981 | 18.261 | .082 | 1 |
| S2 | .62500 | .64601 | .021 | 3.36 | 2.3825 | .006 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

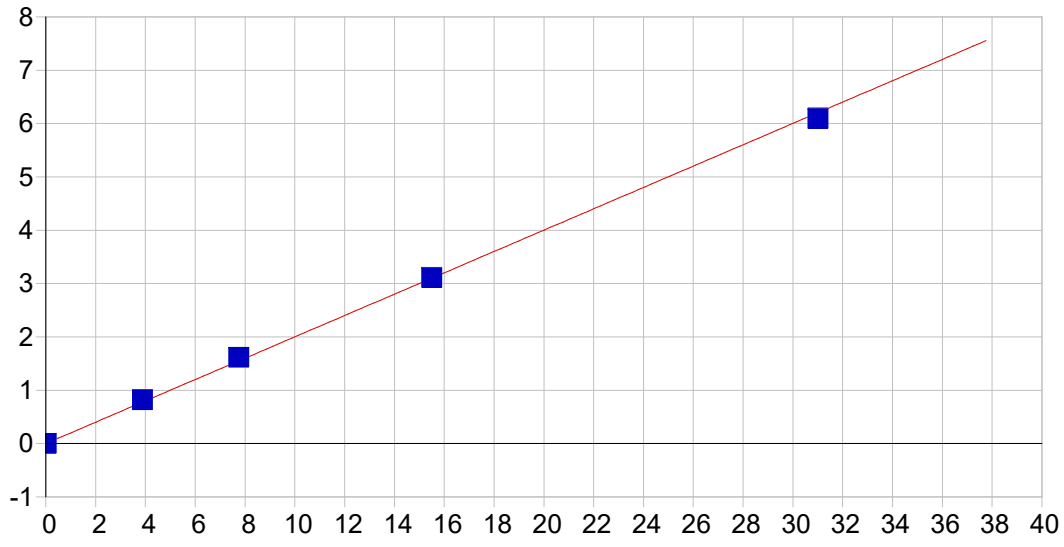



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:29:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000016 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.009832 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999773 | Status: | OK. |
| Std Error of Est: | 0.000732 | | |
| Predicted MDL: | 0.011714 | | |
| Predicted MQL: | 0.039048 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00048 | .000 | .000 | .00002 | .000 | 1 |
| S2 | 62.500 | 60.391 | -2.11 | -3.37 | .59377 | .002 | 1 |
| S3 | 125.00 | 122.38 | -2.62 | -2.10 | 1.2032 | .008 | 1 |
| S4 | 250.00 | 244.44 | -5.56 | -2.22 | 2.4033 | .003 | 1 |
| S5 | 500.00 | 492.15 | -7.85 | -1.57 | 4.8388 | .027 | 1 |
| S1 | 5.0000 | 4.8719 | -.128 | -2.56 | .04792 | .000 | 1 |
| S6 | 800.00 | 818.26 | 18.3 | 2.28 | 8.0450 | .052 | 1 |



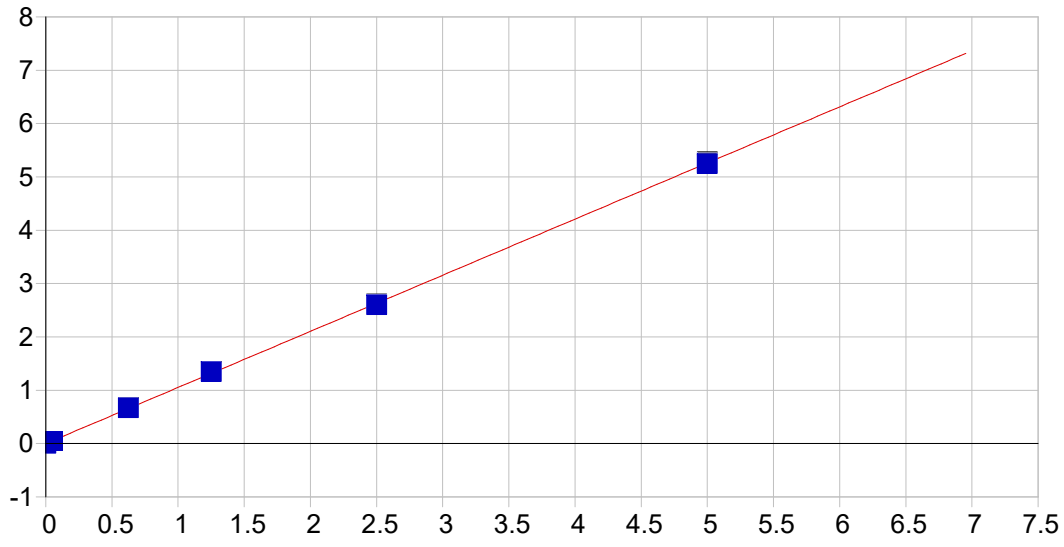

**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000041 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.200102 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999698 | Status: | OK. |
| Std Error of Est: | 0.000145 | | |
| Predicted MDL: | 0.000451 | | |
| Predicted MQL: | 0.001502 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00004 | .000 | 1 |
| S1 | .01000 | .01051 | .001 | 5.13 | .00215 | .000 | 1 |
| S3 | 7.7500 | 8.0695 | .320 | 4.12 | 1.6152 | .002 | 1 |
| S4 | 15.500 | 15.534 | .034 | .219 | 3.1092 | .005 | 1 |
| S5 | 31.000 | 30.435 | -.565 | -1.82 | 6.0916 | .011 | 1 |
| S2 | 3.8750 | 4.0864 | .211 | 5.45 | .81793 | .001 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



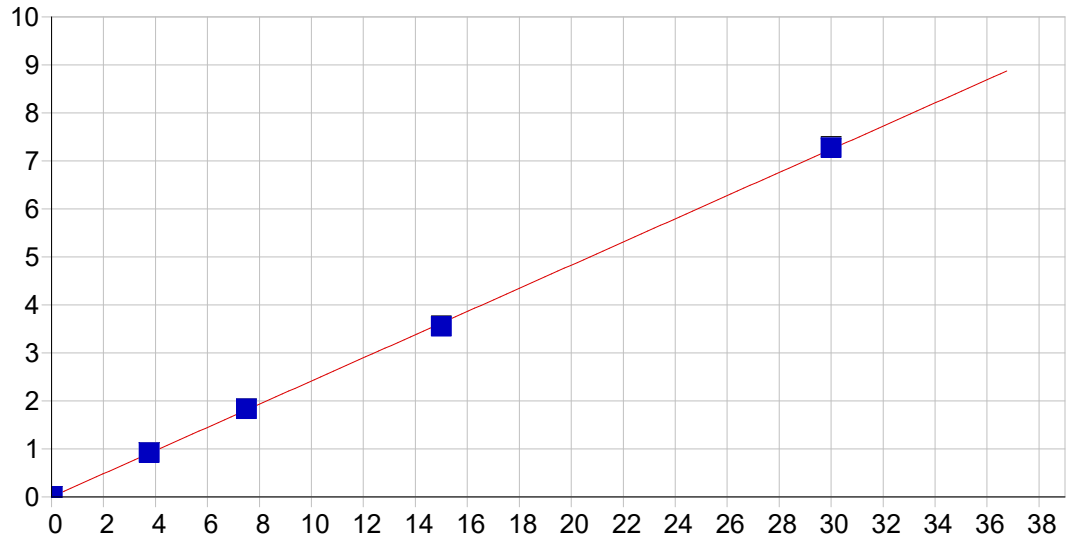

**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000050 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.052193 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999933 | Status: | OK. |
| Std Error of Est: | 0.000325 | | |
| Predicted MDL: | 0.000290 | | |
| Predicted MQL: | 0.000966 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00005 | .000 | 1 |
| S1 | .05000 | .04973 | -.000 | -.531 | .05248 | .000 | 1 |
| S3 | 1.2500 | 1.2793 | .029 | 2.35 | 1.3511 | .002 | 1 |
| S4 | 2.5000 | 2.4730 | -.027 | -1.08 | 2.6120 | .006 | 1 |
| S5 | 5.0000 | 4.9854 | -.015 | -.292 | 5.2656 | .018 | 1 |
| S2 | .62500 | .63754 | .013 | 2.01 | .67327 | .002 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

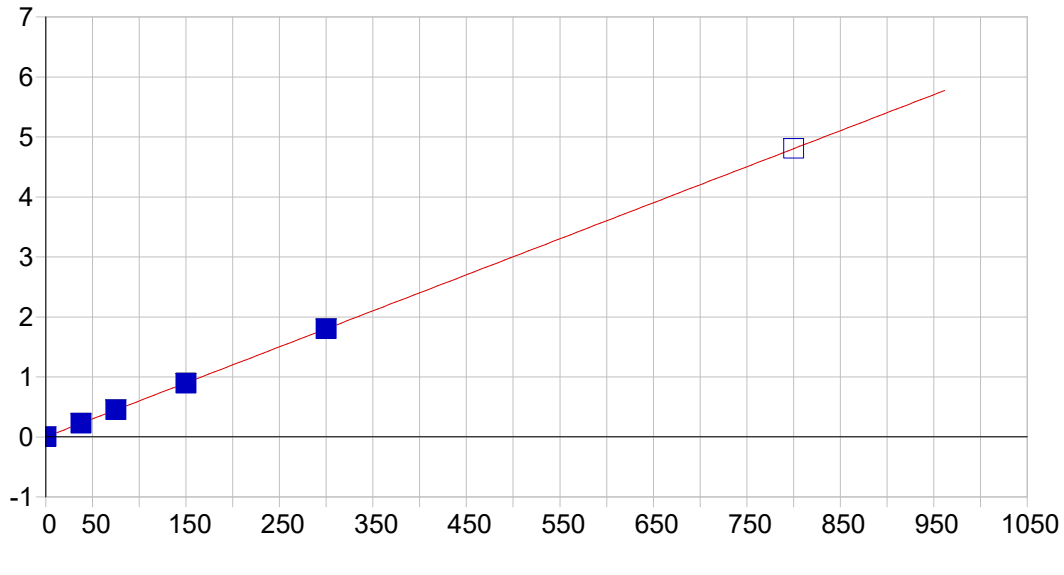



**Cu 324.754 {104}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000772 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.241369 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999924 | Status: | OK. |
| Std Error of Est: | 0.000137 | | |
| Predicted MDL: | 0.002443 | | |
| Predicted MQL: | 0.008145 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00077 | .000 | 1 |
| S1 | .02500 | .02604 | .001 | 4.17 | .00706 | .000 | 1 |
| S3 | 7.5000 | 7.5844 | .084 | 1.13 | 1.8312 | .003 | 1 |
| S4 | 15.000 | 14.709 | -.291 | -1.94 | 3.5506 | .009 | 1 |
| S5 | 30.000 | 30.136 | .136 | .455 | 7.2741 | .022 | 1 |
| S2 | 3.7500 | 3.8195 | .069 | 1.85 | .92258 | .003 | 1 |

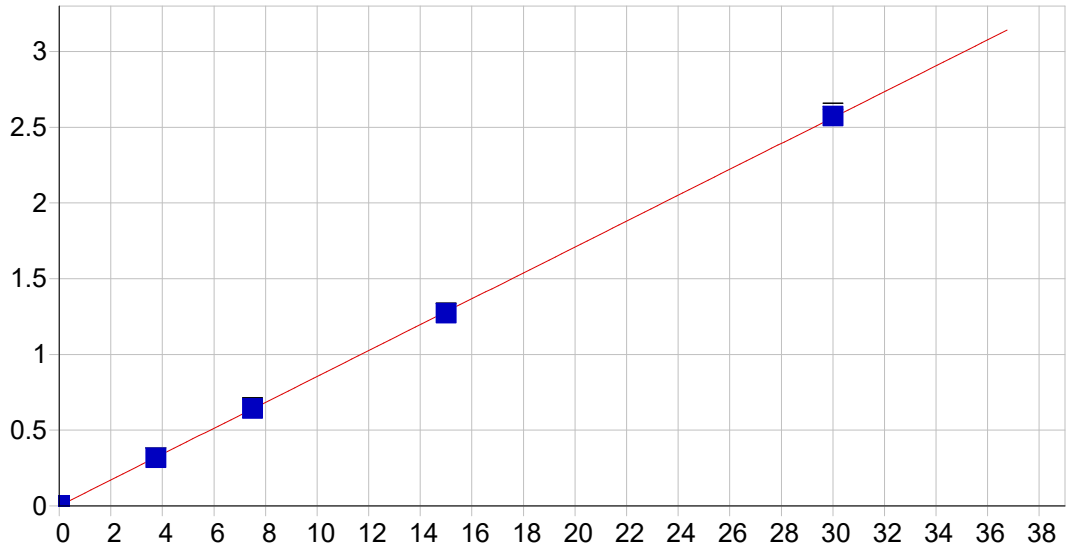



**Fe 259.837 {130}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:29:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000001 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.006004 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999995 | Status: | OK. |
| Std Error of Est: | 0.000008 | | |
| Predicted MDL: | 0.007620 | | |
| Predicted MQL: | 0.025400 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00000 | .000 | 1 |
| S1 | .10000 | .10456 | .005 | 4.56 | .00062 | .000 | 1 |
| S3 | 75.000 | 75.267 | .267 | .356 | .45141 | .002 | 1 |
| S4 | 150.00 | 148.77 | -1.23 | -.818 | .89225 | .001 | 1 |
| S5 | 300.00 | 300.13 | .131 | .044 | 1.8000 | .004 | 1 |
| S2 | 37.500 | 37.402 | -.098 | -.262 | .22432 | .001 | 1 |
| S6 | 800.00 | 800.92 | .922 | .115 | 4.8084 | .002 | 1 |



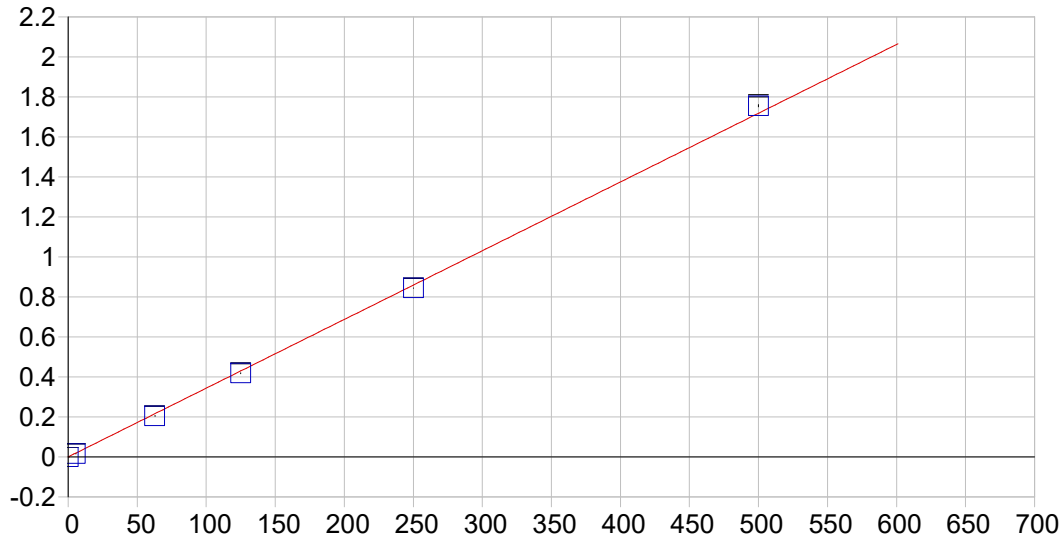

**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000012 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.085459 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999985 | Status: | OK. |
| Std Error of Est: | 0.000017 | | |
| Predicted MDL: | 0.000488 | | |
| Predicted MQL: | 0.001628 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00001 | .000 | 1 |
| S1 | .01500 | .01485 | -.000 | -1.02 | .00128 | .000 | 1 |
| S3 | 7.5000 | 7.5268 | .027 | .357 | .64280 | .005 | 1 |
| S4 | 15.000 | 14.889 | -.111 | -.742 | 1.2715 | .002 | 1 |
| S5 | 30.000 | 30.120 | .120 | .399 | 2.5722 | .019 | 1 |
| S2 | 3.7500 | 3.7151 | -.035 | -.931 | .31728 | .001 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



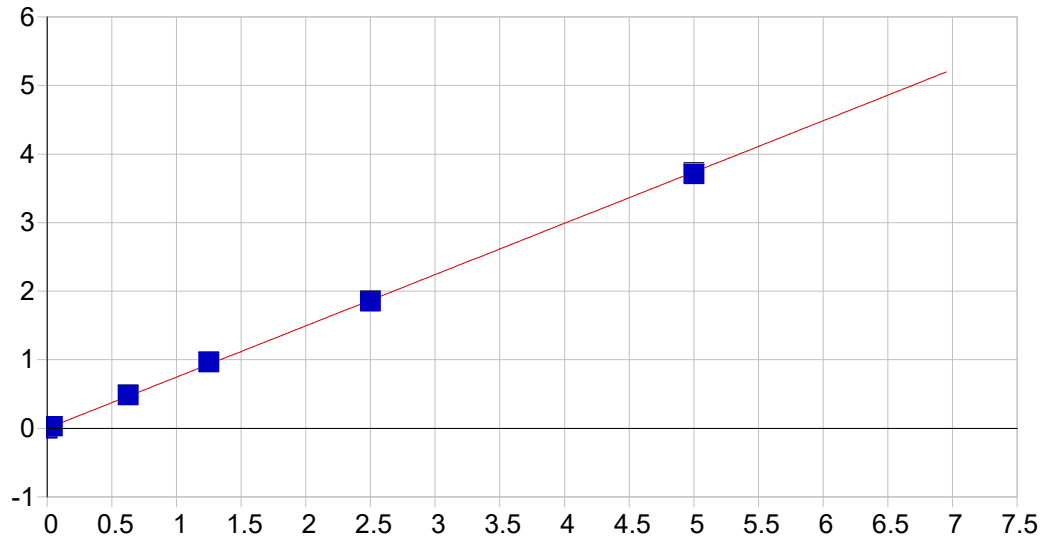

**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000067 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003437 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999702 | Status: | OK. |
| Std Error of Est: | 0.000223 | | |
| Predicted MDL: | 0.017482 | | |
| Predicted MQL: | 0.058275 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00078 | .001 | .000 | -.00006 | .000 | 1 |
| S2 | 62.500 | 59.612 | -2.89 | -4.62 | .20482 | .001 | 1 |
| S3 | 125.00 | 121.86 | -3.14 | -2.51 | .41878 | .002 | 1 |
| S4 | 250.00 | 245.64 | -4.36 | -1.75 | .84419 | .001 | 1 |
| S5 | 500.00 | 510.83 | 10.8 | 2.17 | 1.7557 | .005 | 1 |
| S1 | 5.0000 | 4.5566 | -.443 | -8.87 | .01559 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



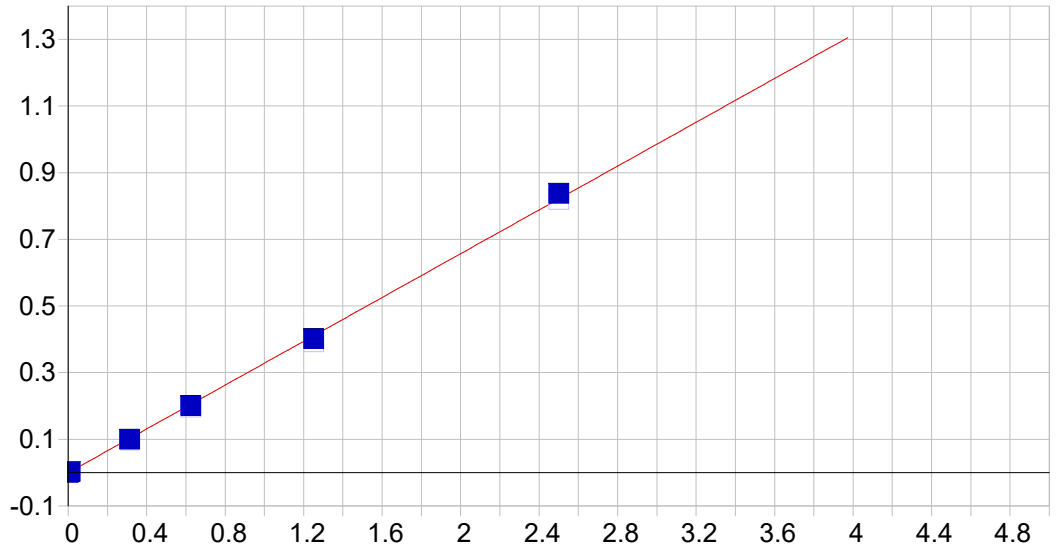

**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000039 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.747494 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999875 | Status: | OK. |
| Std Error of Est: | 0.000281 | | |
| Predicted MDL: | 0.000455 | | |
| Predicted MQL: | 0.001517 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00004 | .000 | 1 |
| S1 | .04000 | .04091 | .001 | 2.27 | .03057 | .000 | 1 |
| S3 | 1.2500 | 1.2894 | .039 | 3.15 | .96597 | .000 | 1 |
| S4 | 2.5000 | 2.4782 | -.022 | -.873 | 1.8568 | .005 | 1 |
| S5 | 5.0000 | 4.9618 | -.038 | -.763 | 3.7177 | .012 | 1 |
| S2 | .62500 | .64467 | .020 | 3.15 | .48294 | .001 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



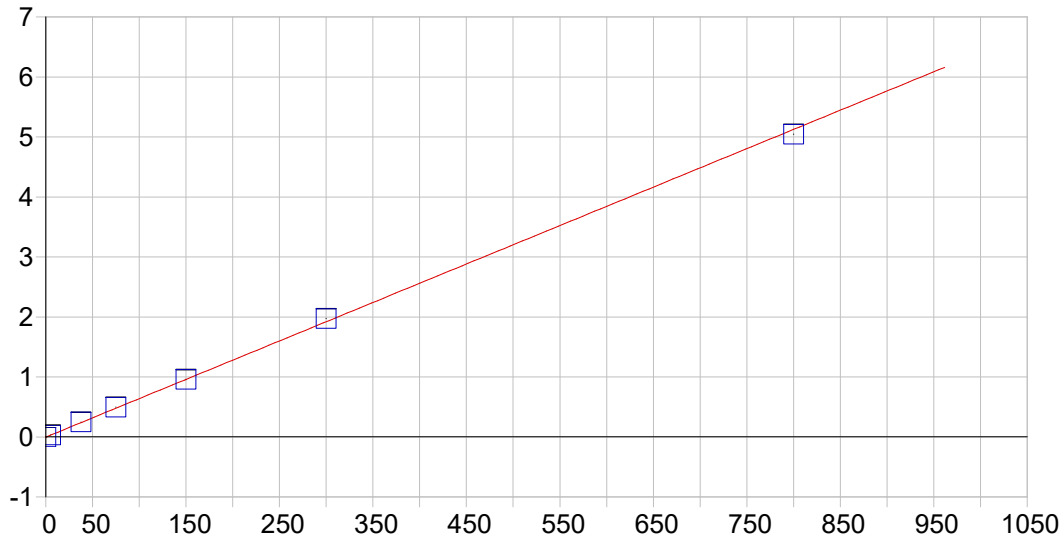

**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000377 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.328618 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999756 | Status: | OK. |
| Std Error of Est: | 0.000060 | | |
| Predicted MDL: | 0.000449 | | |
| Predicted MQL: | 0.001496 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00038 | .000 | 1 |
| S1 | .01000 | .00998 | -.000 | -.195 | .00288 | .000 | 1 |
| S3 | .62500 | .61193 | -.013 | -2.09 | .19594 | .001 | 1 |
| S4 | 1.2500 | 1.2213 | -.029 | -2.29 | .39143 | .001 | 1 |
| S5 | 2.5000 | 2.5504 | .050 | 2.02 | .81864 | .001 | 1 |
| S2 | .31250 | .30383 | -.009 | -2.77 | .09708 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



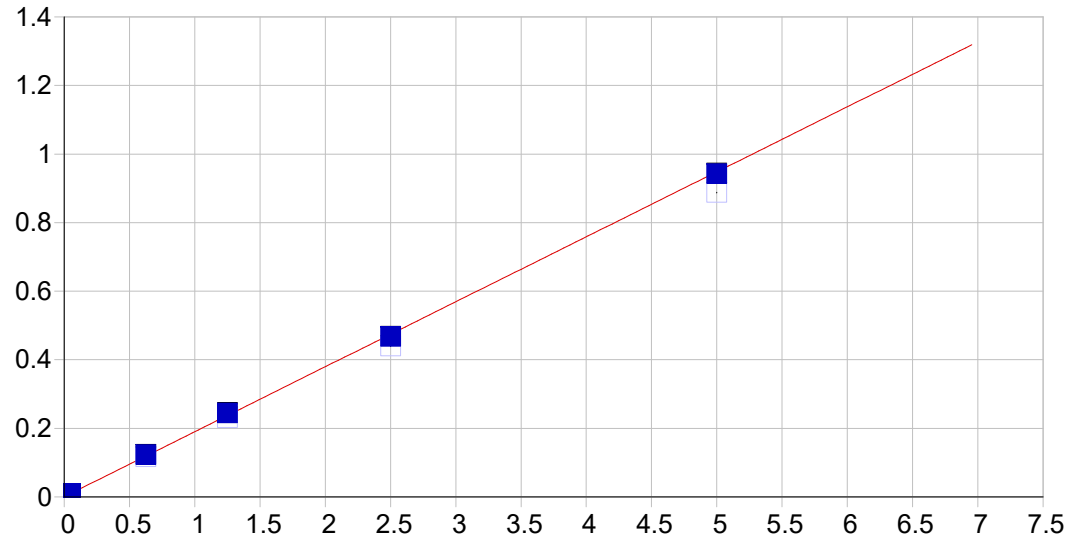

**Na 818.326 { 41}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:29:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.002939 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.006409 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999782 | Status: | OK. |
| Std Error of Est: | 0.000413 | | |
| Predicted MDL: | 0.269073 | | |
| Predicted MQL: | 0.896909 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00074 | -.001 | .000 | -.00294 | .001 | 1 |
| S2 | 37.500 | 38.925 | 1.42 | 3.80 | .24654 | .003 | 1 |
| S3 | 75.000 | 77.801 | 2.80 | 3.73 | .49571 | .001 | 1 |
| S4 | 150.00 | 149.93 | -.071 | -.047 | .95801 | .004 | 1 |
| S5 | 300.00 | 308.12 | 8.12 | 2.71 | 1.9719 | .004 | 1 |
| S1 | 5.0000 | 5.3040 | .304 | 6.08 | .03106 | .001 | 1 |
| S6 | 800.00 | 787.42 | -12.6 | -1.57 | 5.0439 | .003 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



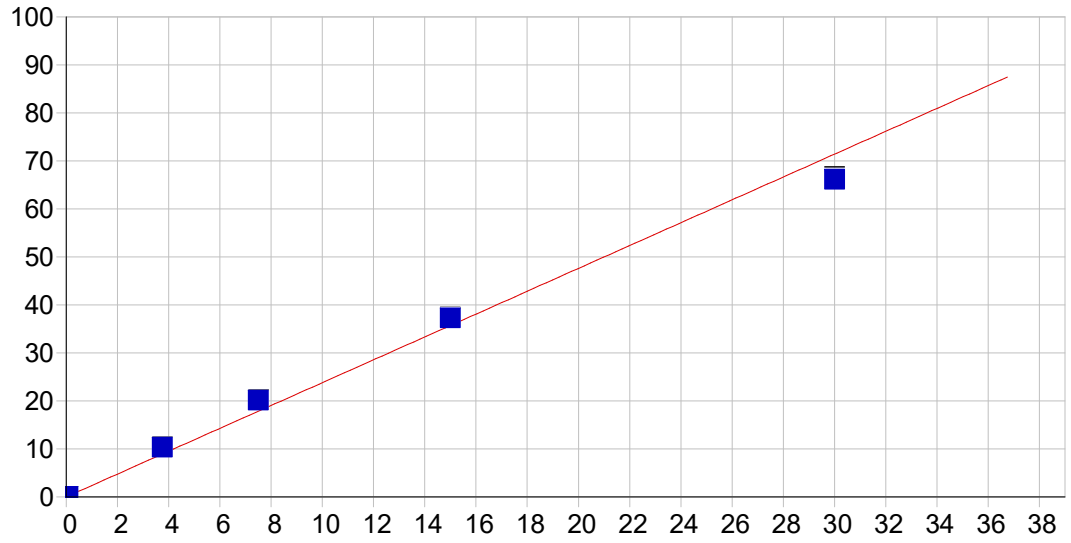

**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000567 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.189522 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999828 | Status: | OK. |
| Std Error of Est: | 0.000088 | | |
| Predicted MDL: | 0.002323 | | |
| Predicted MQL: | 0.007744 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00057 | .000 | 1 |
| S1 | .05000 | .05142 | .001 | 2.85 | .01029 | .000 | 1 |
| S3 | 1.2500 | 1.2884 | .038 | 3.07 | .23090 | .002 | 1 |
| S4 | 2.5000 | 2.4625 | -.037 | -1.50 | .43956 | .001 | 1 |
| S5 | 5.0000 | 4.9733 | -.027 | -.534 | .88770 | .001 | 1 |
| S2 | .62500 | .64929 | .024 | 3.89 | .11670 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



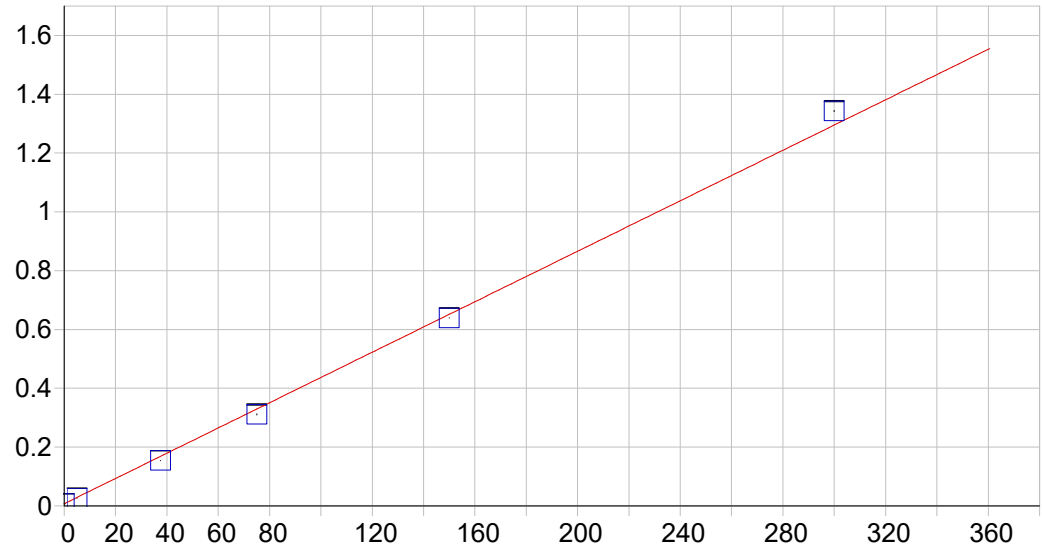

**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002431 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.380133 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.996413 | Status: | OK. |
| Std Error of Est: | 0.014436 | | |
| Predicted MDL: | 0.000326 | | |
| Predicted MQL: | 0.001087 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00003 | -.000 | .000 | .00236 | .000 | 1 |
| S1 | .06000 | .07478 | .015 | 24.6 | .18127 | .002 | 1 |
| S3 | 7.5000 | 8.4518 | .952 | 12.7 | 20.186 | .051 | 1 |
| S4 | 15.000 | 15.655 | .655 | 4.36 | 37.397 | .082 | 1 |
| S5 | 30.000 | 27.788 | -2.21 | -7.37 | 66.411 | .351 | 1 |
| S2 | 3.7500 | 4.3408 | .591 | 15.8 | 10.368 | .034 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



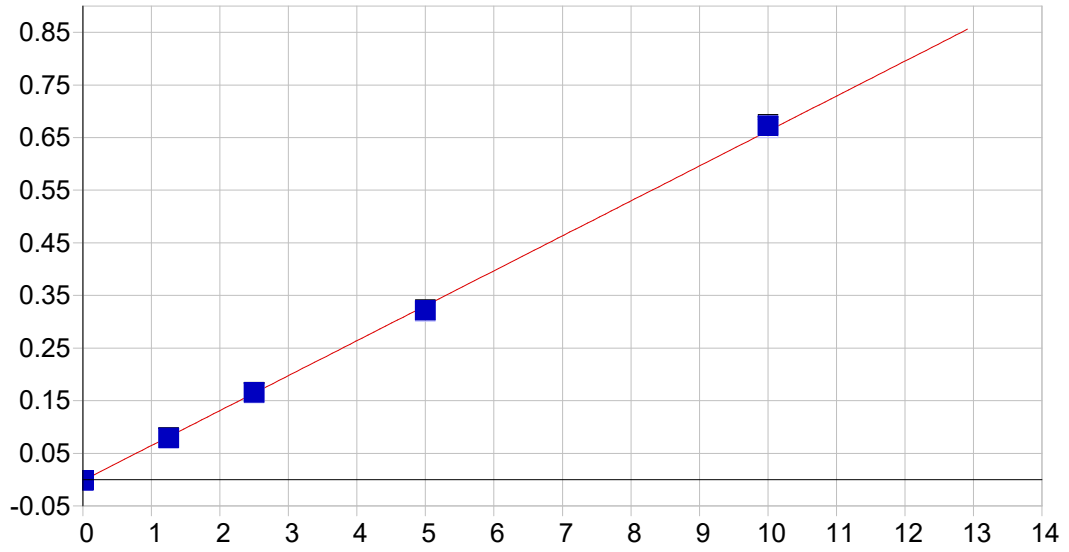

**K 769.896 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.007528 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.004293 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999054 | Status: | OK. |
| Std Error of Est: | 0.000385 | | |
| Predicted MDL: | 0.063163 | | |
| Predicted MQL: | 0.210544 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00125 | .001 | .000 | .00753 | .000 | 1 |
| S2 | 37.500 | 34.120 | -3.38 | -9.01 | .15400 | .001 | 1 |
| S3 | 75.000 | 70.785 | -4.22 | -5.62 | .31140 | .002 | 1 |
| S4 | 150.00 | 147.16 | -2.84 | -1.89 | .63929 | .001 | 1 |
| S5 | 300.00 | 311.04 | 11.0 | 3.68 | 1.3428 | .002 | 1 |
| S1 | 5.0000 | 4.3953 | -.605 | -12.1 | .02640 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



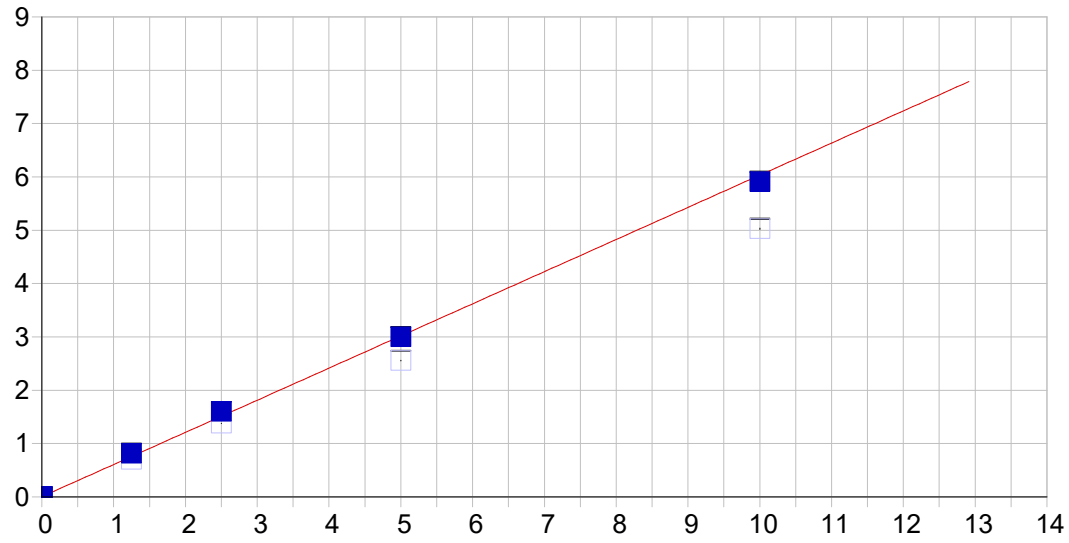

**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001713 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.066421 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999810 | Status: | OK. |
| Std Error of Est: | 0.000022 | | |
| Predicted MDL: | 0.002139 | | |
| Predicted MQL: | 0.007129 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00171 | .000 | 1 |
| S1 | .01000 | .00894 | -.001 | -10.6 | -.00112 | .000 | 1 |
| S3 | 2.5000 | 2.5120 | .012 | .481 | .16395 | .000 | 1 |
| S4 | 5.0000 | 4.8700 | -.130 | -2.60 | .31938 | .001 | 1 |
| S5 | 10.000 | 10.156 | .156 | 1.56 | .66809 | .002 | 1 |
| S2 | 1.2500 | 1.2134 | -.037 | -2.92 | .07829 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



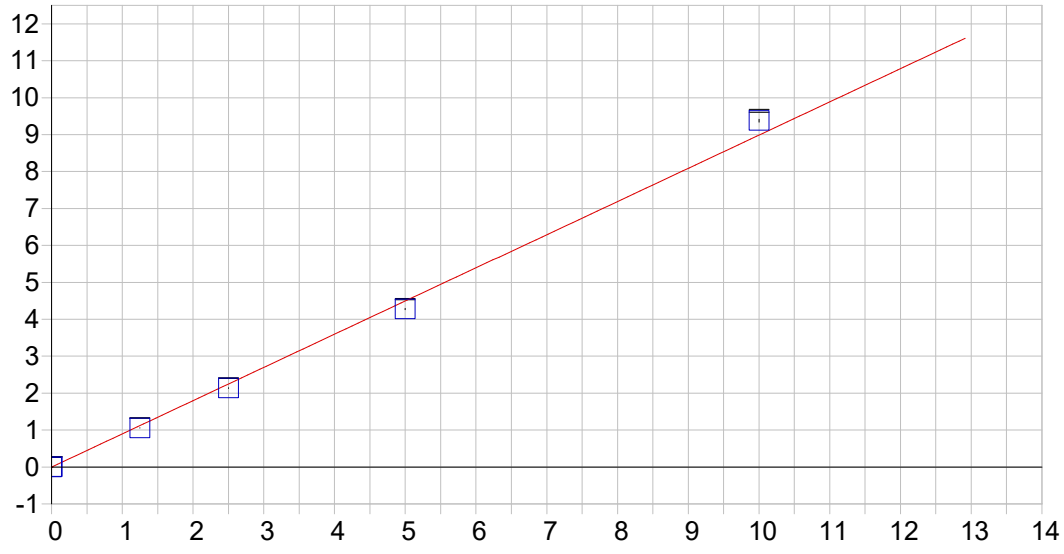

**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.004142 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.602777 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998866 | Status: | OK. |
| Std Error of Est: | 0.000411 | | |
| Predicted MDL: | 0.000804 | | |
| Predicted MQL: | 0.002681 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00415 | .001 | 1 |
| S1 | .01000 | -.00046 | -.010 | -105. | .00356 | .000 | 1 |
| S3 | 2.5000 | 2.6468 | .147 | 5.87 | 1.3779 | .003 | 1 |
| S4 | 5.0000 | 4.9683 | -.032 | -.634 | 2.5556 | .007 | 1 |
| S5 | 10.000 | 9.8012 | -.199 | -1.99 | 5.0254 | .012 | 1 |
| S2 | 1.2500 | 1.3453 | .095 | 7.62 | .70422 | .005 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



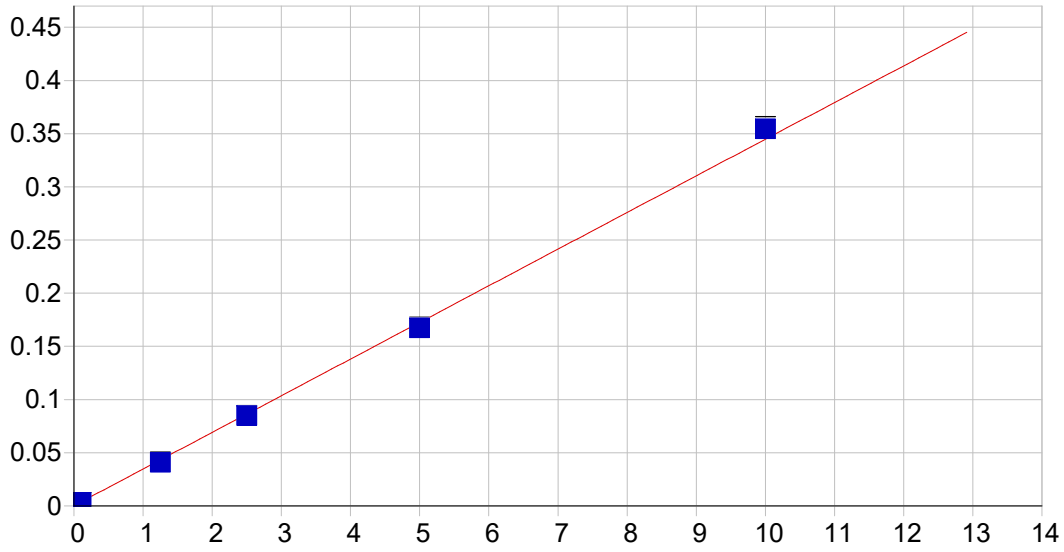

**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000004 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.898574 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998914 | Status: | OK. |
| Std Error of Est: | 0.000703 | | |
| Predicted MDL: | 0.000339 | | |
| Predicted MQL: | 0.001129 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00001 | .000 | 1 |
| S1 | .01000 | .00922 | -.001 | -7.82 | .00829 | .000 | 1 |
| S3 | 2.5000 | 2.3773 | -.123 | -4.91 | 2.1362 | .005 | 1 |
| S4 | 5.0000 | 4.7622 | -.238 | -4.76 | 4.2792 | .018 | 1 |
| S5 | 10.000 | 10.436 | .436 | 4.36 | 9.3773 | .038 | 1 |
| S2 | 1.2500 | 1.1755 | -.074 | -5.96 | 1.0563 | .004 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



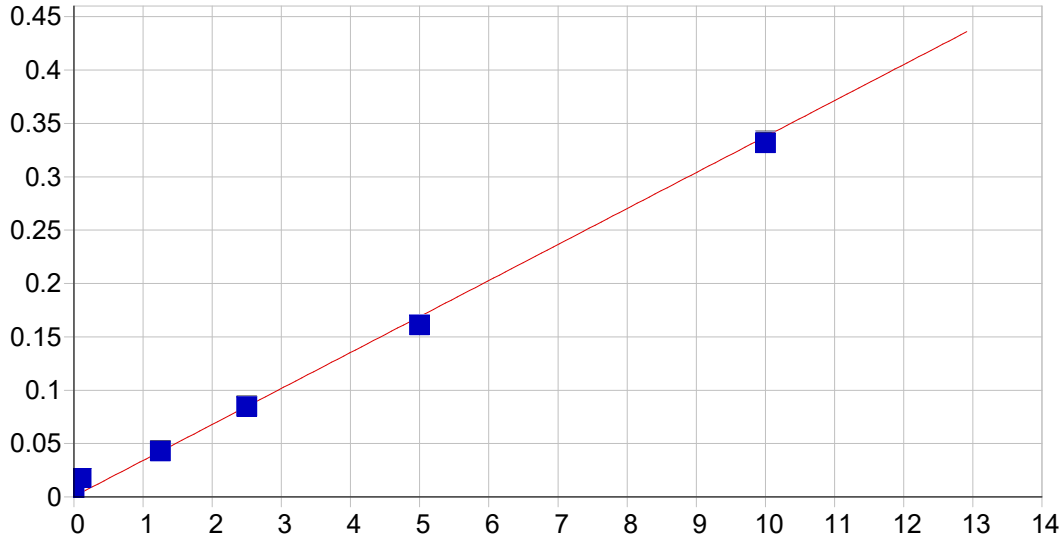

**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000255 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.034455 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999515 | Status: | OK. |
| Std Error of Est: | 0.000057 | | |
| Predicted MDL: | 0.004135 | | |
| Predicted MQL: | 0.013784 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00026 | .000 | 1 |
| S1 | .10000 | .09022 | -.010 | -9.78 | .00336 | .000 | 1 |
| S3 | 2.5000 | 2.4521 | -.048 | -1.92 | .08485 | .000 | 1 |
| S4 | 5.0000 | 4.8478 | -.152 | -3.04 | .16751 | .001 | 1 |
| S5 | 10.000 | 10.280 | .280 | 2.80 | .35491 | .002 | 1 |
| S2 | 1.2500 | 1.1795 | -.071 | -5.64 | .04095 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



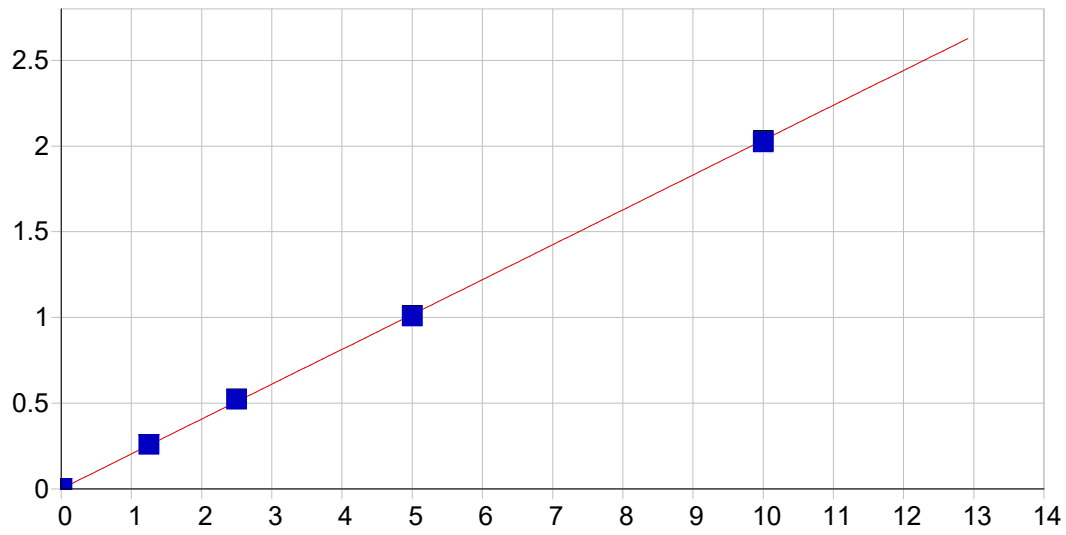

**Si 251.611 {134}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000431 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.033721 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.957660 | Status: | OK. |
| Std Error of Est: | 0.000540 | | |
| Predicted MDL: | 0.008065 | | |
| Predicted MQL: | 0.026885 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00041 | -.000 | .000 | .00042 | .000 | 1 |
| S1 | .10000 | .51201 | .412 | 412. | .01770 | .000 | 1 |
| S3 | 2.5000 | 2.4978 | -.002 | -.088 | .08491 | .000 | 1 |
| S4 | 5.0000 | 4.7626 | -.237 | -4.75 | .16154 | .000 | 1 |
| S5 | 10.000 | 9.8239 | -.176 | -1.76 | .33272 | .001 | 1 |
| S2 | 1.2500 | 1.2547 | .005 | .380 | .04287 | .000 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



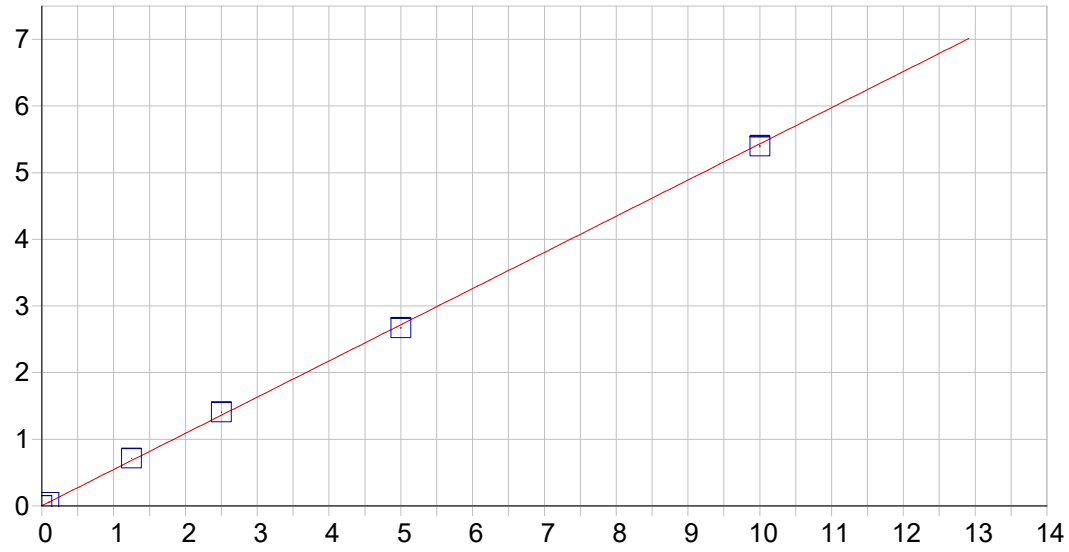

**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000428 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.203386 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999924 | Status: | OK. |
| Std Error of Est: | 0.000035 | | |
| Predicted MDL: | 0.000814 | | |
| Predicted MQL: | 0.002714 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00043 | .000 | 1 |
| S1 | .00700 | .00646 | -.001 | -7.72 | .00168 | .000 | 1 |
| S3 | 2.5000 | 2.5679 | .068 | 2.72 | .52113 | .002 | 1 |
| S4 | 5.0000 | 4.9577 | -.042 | -.845 | 1.0056 | .003 | 1 |
| S5 | 10.000 | 9.9534 | -.047 | -.466 | 2.0185 | .008 | 1 |
| S2 | 1.2500 | 1.2715 | .021 | 1.72 | .25825 | .001 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4



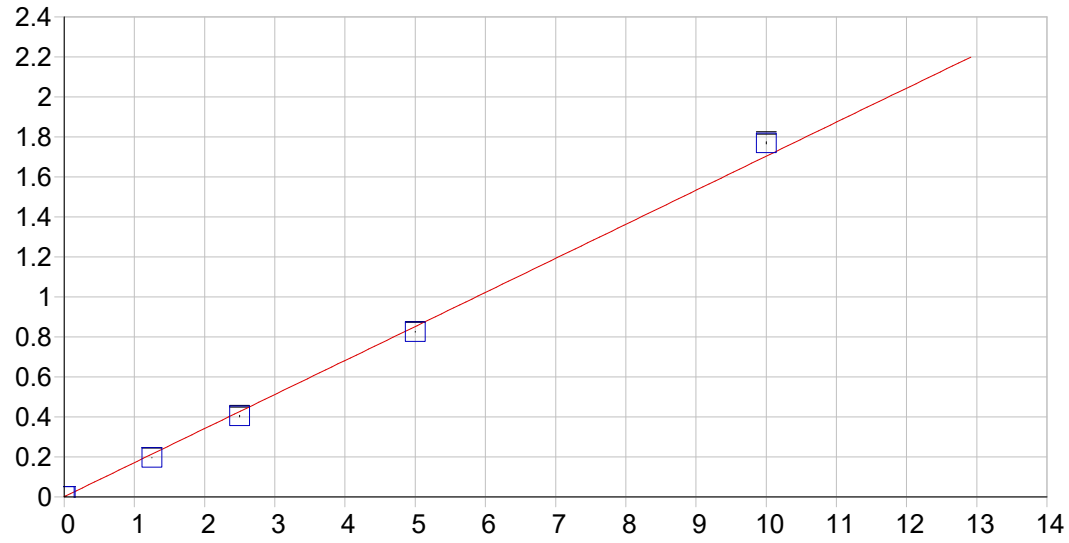

**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003021 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.542944 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999795 | Status: | OK. |
| Std Error of Est: | 0.000584 | | |
| Predicted MDL: | 0.001109 | | |
| Predicted MQL: | 0.003698 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00302 | .000 | 1 |
| S1 | .10000 | .10438 | .004 | 4.38 | .05969 | .000 | 1 |
| S3 | 2.5000 | 2.5849 | .085 | 3.40 | 1.4065 | .006 | 1 |
| S4 | 5.0000 | 4.9139 | -.086 | -1.72 | 2.6710 | .008 | 1 |
| S5 | 10.000 | 9.9379 | -.062 | -.621 | 5.3987 | .011 | 1 |
| S2 | 1.2500 | 1.3089 | .059 | 4.71 | .71367 | .001 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

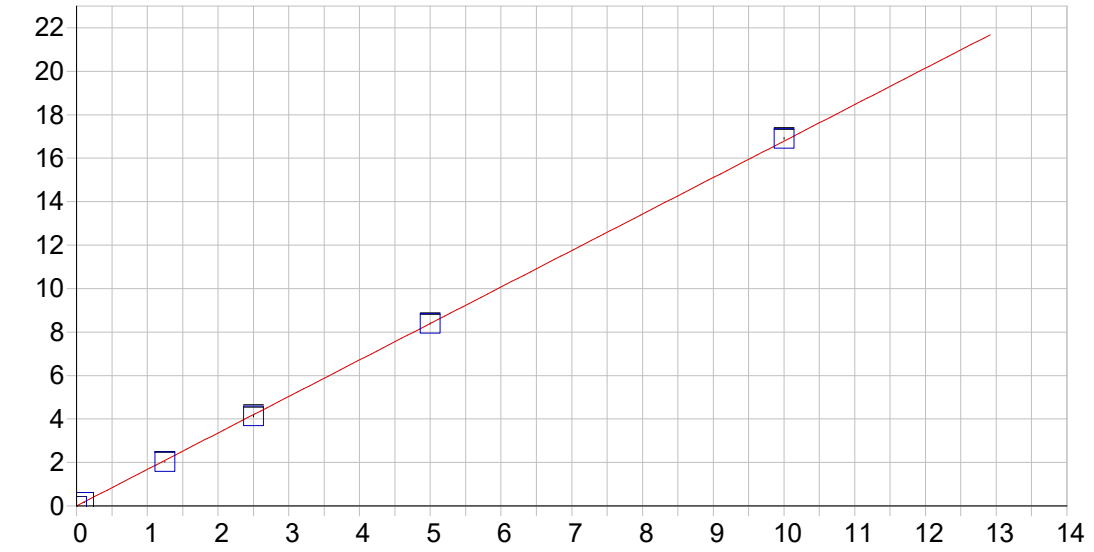



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001078 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.170218 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999049 | Status: | OK. |
| Std Error of Est: | 0.000153 | | |
| Predicted MDL: | 0.001607 | | |
| Predicted MQL: | 0.005358 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00108 | .000 | 1 |
| S5 | 10.000 | 10.393 | .393 | 3.93 | 1.7701 | .006 | 1 |
| S4 | 5.0000 | 4.8423 | -.158 | -3.15 | .82532 | .001 | 1 |
| S3 | 2.5000 | 2.3673 | -.133 | -5.31 | .40404 | .003 | 1 |
| S1 | .01500 | .01471 | -.000 | -1.95 | .00358 | .000 | 1 |
| S2 | 1.2500 | 1.1481 | -.102 | -8.16 | .19650 | .001 | 1 |



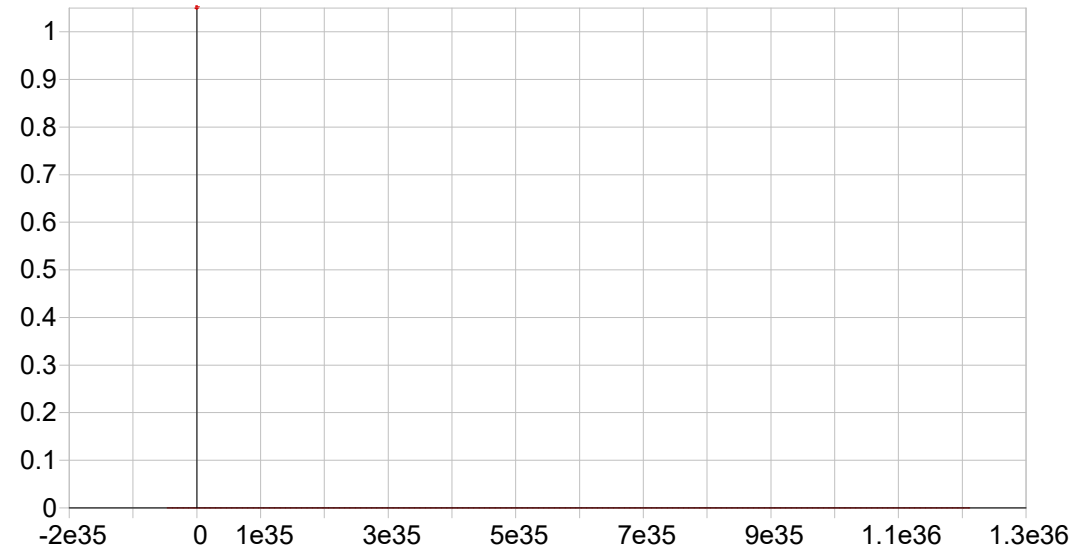

**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 2:25:19 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000245 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.678675 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999936 | Status: | OK. |
| Std Error of Est: | 0.001009 | | |
| Predicted MDL: | 0.000091 | | |
| Predicted MQL: | 0.000302 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00026 | .000 | 1 |
| S1 | .10000 | .09512 | -.005 | -4.88 | .15991 | .002 | 1 |
| S3 | 2.5000 | 2.4683 | -.032 | -1.27 | 4.1437 | .053 | 1 |
| S4 | 5.0000 | 5.0022 | .002 | .044 | 8.3973 | .032 | 1 |
| S5 | 10.000 | 10.074 | .074 | .736 | 16.911 | .036 | 1 |
| S2 | 1.2500 | 1.2108 | -.039 | -3.14 | 2.0328 | .010 | 1 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

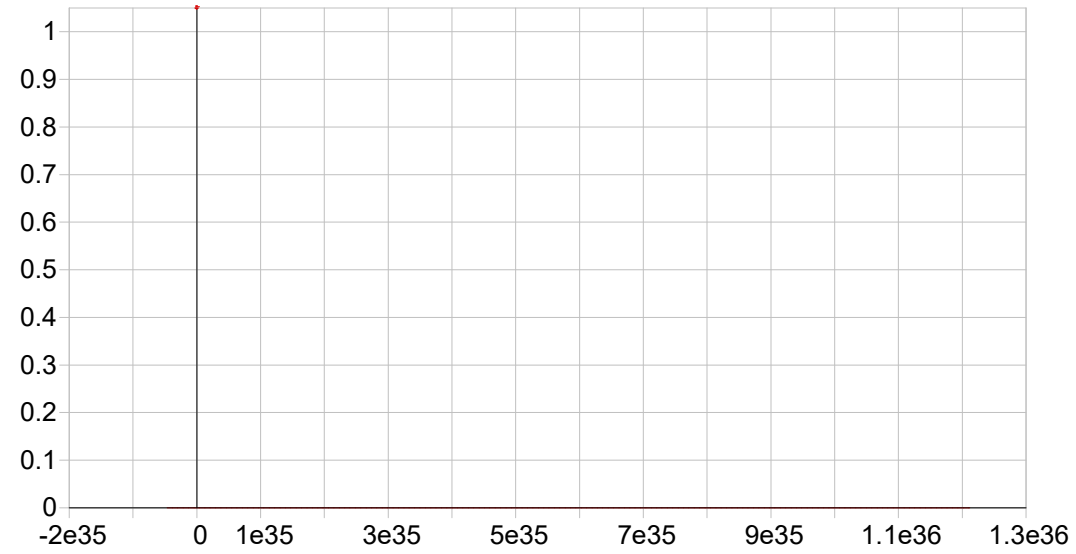



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 1/12/2025 1:40:00 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

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




**Y 360.073 { 94}***

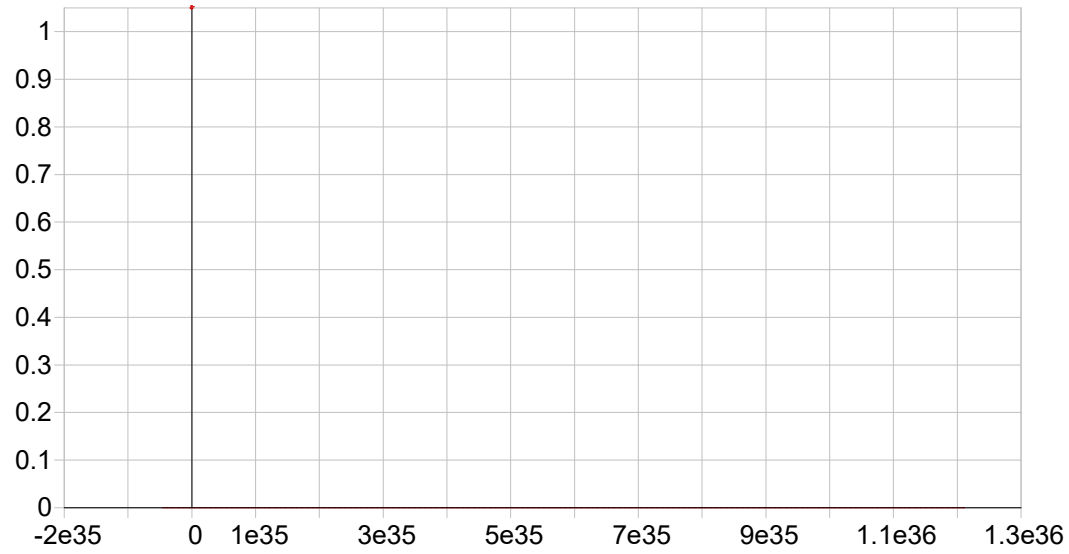
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

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

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

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

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

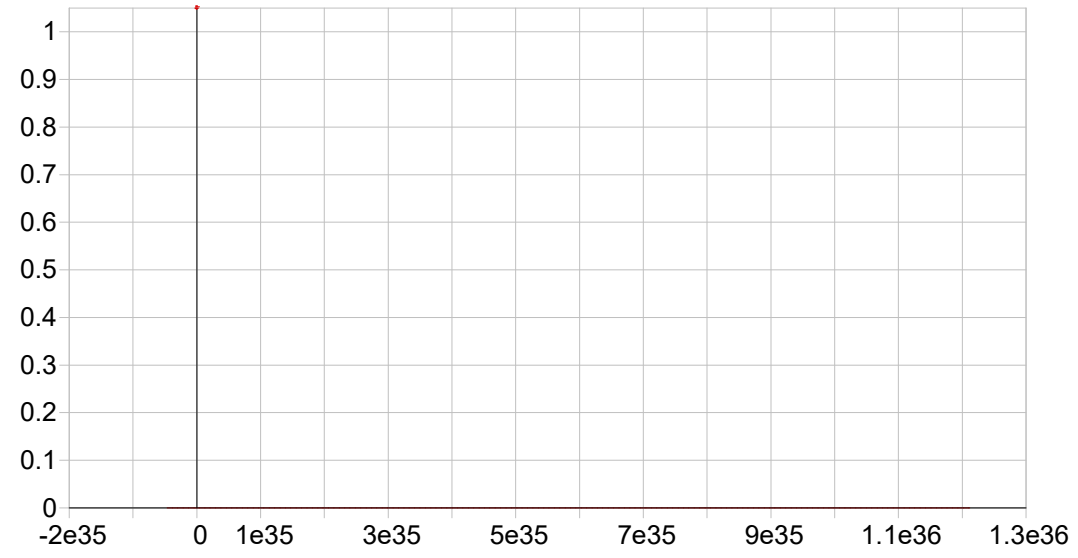



**Y 371.030 { 91}***

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

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

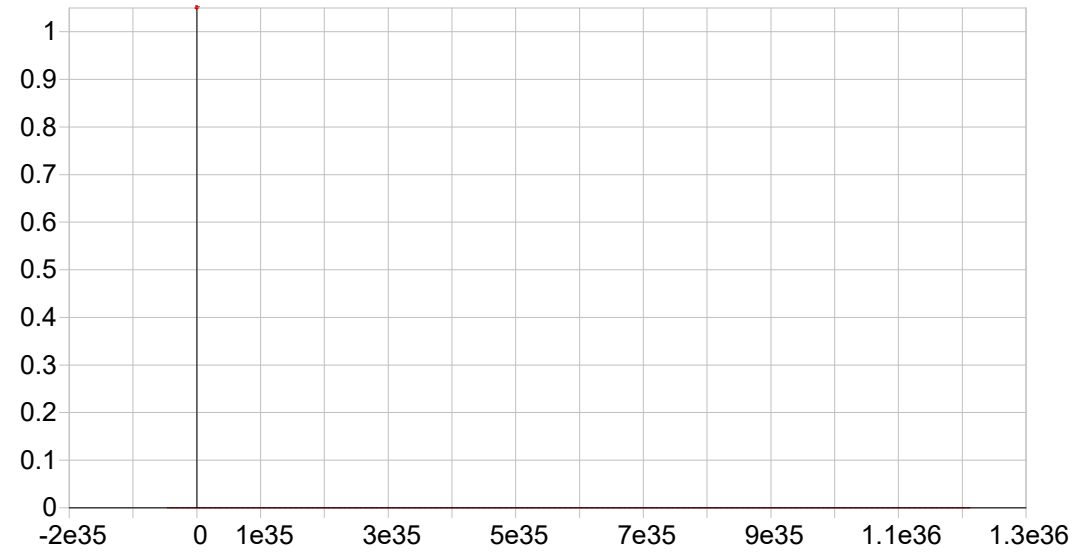
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Y 224.306 {150}***

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

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




**In 230.606 {446}***

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

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

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

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/12/2025 2:00:21 Type: Cal
Method: EPA SFAM01.0(v33) 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 | **-.00004** | **.00018** | **-.00015** | **.00041** | **.00043** | **.00010** | **.01364** | **.00008** |
| Stddev | .00016 | .00004 | .00064 | .00041 | .00028 | .00003 | .00031 | .00019 |
| %RSD | 447.78 | 19.505 | 434.56 | 99.495 | 65.764 | 24.715 | 2.2613 | 222.23 |
| #1 | -.00001 | .00019 | .00033 | .00081 | .00014 | .00009 | .01393 | -.00012 |
| #2 | -.00021 | .00014 | .00011 | .00000 | .00045 | .00008 | .01332 | .00012 |
| #3 | .00011 | .00021 | -.00088 | .00041 | .00070 | .00013 | .01367 | .00025 |

| 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 | **.00003** | **.00002** | **.00004** | **-.00005** | **.00077** | **.00000** | **.00001** | **-.00006** |
| Stddev | .00024 | .00015 | .00004 | .00018 | .00023 | .00001 | .00001 | .00001 |
| %RSD | 970.55 | 740.53 | 100.08 | 362.47 | 29.530 | 658.09 | 67.962 | 14.480 |
| #1 | .00029 | -.00007 | .00003 | .00016 | .00092 | -.00000 | .00001 | -.00006 |
| #2 | -.00003 | -.00006 | .00001 | -.00019 | .00051 | -.00000 | .00002 | -.00006 |
| #3 | -.00019 | .00020 | .00008 | -.00012 | .00089 | .00001 | .00001 | -.00007 |

| 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 | **-.00004** | **-.00038** | **-.00294** | **.00057** | **.00236** | **.00753** | **-.00171** | **.00415** |
| Stddev | .00007 | .00010 | .00094 | .00007 | .00046 | .00037 | .00015 | .00050 |
| %RSD | 165.28 | 26.360 | 32.033 | 11.813 | 19.420 | 4.9315 | 8.9684 | 12.176 |
| #1 | .00002 | -.00028 | -.00241 | .00056 | .00188 | .00788 | -.00172 | .00469 |
| #2 | -.00011 | -.00048 | -.00403 | .00064 | .00240 | .00757 | -.00156 | .00405 |
| #3 | -.00003 | -.00037 | -.00239 | .00050 | .00280 | .00714 | -.00186 | .00370 |

| 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 | **.00001** | **.00026** | **.00042** | **.00043** | **.00302** | **.00108** | **.00026** |
| Stddev | .00001 | .00007 | .00029 | .00008 | .00010 | .00010 | .00014 |
| %RSD | 212.21 | 29.143 | 68.597 | 19.689 | 3.4696 | 9.3769 | 55.418 |
| #1 | -.00001 | .00019 | .00016 | .00045 | .00289 | .00117 | .00014 |
| #2 | .00002 | .00023 | .00073 | .00033 | .00308 | .00109 | .00022 |
| #3 | .00001 | .00034 | .00036 | .00050 | .00307 | .00097 | .00042 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S0 Acquired: 1/12/2025 2:00:21 Type: Cal
Method: EPA SFAM01.0(v33) 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 | 2478.9 | 59243. | 8063.5 | 2751.9 | 3509.8 |
| Stddev | 3.7 | 158. | 12.5 | 13.3 | 8.4 |
| %RSD | .15057 | .26695 | .15555 | .48351 | .23981 |
| #1 | 2479.0 | 59144. | 8064.0 | 2757.5 | 3505.6 |
| #2 | 2482.7 | 59159. | 8075.7 | 2736.7 | 3519.5 |
| #3 | 2475.2 | 59425. | 8050.7 | 2761.4 | 3504.4 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/12/2025 2:04:35 Type: Cal
Method: EPA SFAM01.0(v33) 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 | .00080 | .00338 | .00277 | .00368 | .00940 | .00300 | .10040 | .03096 |
| Stddev | .00008 | .00009 | .00085 | .00018 | .00015 | .00001 | .00094 | .00046 |
| %RSD | 10.020 | 2.6882 | 30.860 | 4.7670 | 1.6332 | .34336 | .93818 | 1.4861 |
| #1 | .00071 | .00346 | .00356 | .00362 | .00927 | .00299 | .10108 | .03100 |
| #2 | .00087 | .00339 | .00288 | .00387 | .00934 | .00300 | .10079 | .03049 |
| #3 | .00081 | .00328 | .00186 | .00353 | .00957 | .00301 | .09932 | .03140 |

| 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 | .01867 | .04792 | .00215 | .05248 | .00706 | .00062 | .00128 | .01559 |
| Stddev | .00012 | .00036 | .00001 | .00043 | .00005 | .00002 | .00001 | .00010 |
| %RSD | .64766 | .75774 | .54415 | .82162 | .67390 | 3.8427 | .56361 | .66294 |
| #1 | .01857 | .04829 | .00216 | .05237 | .00701 | .00059 | .00128 | .01564 |
| #2 | .01864 | .04789 | .00214 | .05212 | .00711 | .00064 | .00129 | .01567 |
| #3 | .01881 | .04757 | .00214 | .05296 | .00705 | .00062 | .00127 | .01548 |

| 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 | .03057 | .00288 | .03106 | .01029 | .18127 | .02640 | -.00112 | .00356 |
| Stddev | .00031 | .00003 | .00129 | .00016 | .00164 | .00033 | .00007 | .00043 |
| %RSD | 1.0166 | .90797 | 4.1583 | 1.5061 | .90449 | 1.2379 | 6.6605 | 11.971 |
| #1 | .03035 | .00285 | .02957 | .01012 | .17950 | .02635 | -.00117 | .00374 |
| #2 | .03093 | .00289 | .03168 | .01042 | .18154 | .02674 | -.00116 | .00386 |
| #3 | .03045 | .00290 | .03191 | .01034 | .18275 | .02610 | -.00104 | .00307 |

| 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 | .00829 | .00336 | .01770 | .00168 | .05969 | .00358 | .15991 |
| Stddev | .00029 | .00007 | .00014 | .00013 | .00014 | .00004 | .00156 |
| %RSD | 3.4790 | 2.0419 | .76400 | 7.9451 | .23109 | 1.2325 | .97780 |
| #1 | .00816 | .00335 | .01775 | .00171 | .05958 | .00362 | .16154 |
| #2 | .00809 | .00344 | .01780 | .00180 | .05965 | .00353 | .15978 |
| #3 | .00862 | .00330 | .01754 | .00153 | .05985 | .00359 | .15842 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S1 Acquired: 1/12/2025 2:04:35 Type: Cal
Method: EPA SFAM01.0(v33) 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 | 2456.2 | 58181. | 8007.9 | 2717.8 | 3419.1 |
| Stddev | 5.4 | 406. | 37.7 | 10.8 | 7.0 |
| %RSD | .21795 | .69800 | .47083 | .39677 | .20397 |
| #1 | 2450.3 | 57712. | 8011.0 | 2716.7 | 3411.6 |
| #2 | 2457.6 | 58421. | 8044.0 | 2707.6 | 3420.6 |
| #3 | 2460.8 | 58410. | 7968.8 | 2729.1 | 3425.3 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/12/2025 2:08:48 Type: Cal
Method: EPA SFAM01.0(v33) 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 | **.10412** | **.15698** | **1.8298** | **.11211** | **.20065** | **.48013** | **1.1202** | **.76554** |
| Stddev | .00029 | .00036 | .0048 | .00024 | .00102 | .00249 | .0063 | .00385 |
| %RSD | .27599 | .22992 | .26408 | .21245 | .50661 | .51829 | .56494 | .50293 |
| #1 | .10392 | .15739 | 1.8317 | .11186 | .20071 | .48231 | 1.1268 | .76168 |
| #2 | .10400 | .15670 | 1.8243 | .11214 | .19961 | .47742 | 1.1142 | .76938 |
| #3 | .10445 | .15685 | 1.8333 | .11233 | .20164 | .48067 | 1.1197 | .76556 |

| 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 | **2.3825** | **.59377** | **.81793** | **.67327** | **.92258** | **.22432** | **.31728** | **.20482** |
| Stddev | .0058 | .00197 | .00083 | .00177 | .00277 | .00093 | .00118 | .00060 |
| %RSD | .24457 | .33226 | .10129 | .26315 | .30012 | .41286 | .37170 | .29273 |
| #1 | 2.3823 | .59577 | .81726 | .67336 | .92570 | .22496 | .31843 | .20544 |
| #2 | 2.3768 | .59183 | .81767 | .67145 | .92163 | .22325 | .31607 | .20424 |
| #3 | 2.3885 | .59372 | .81885 | .67499 | .92041 | .22474 | .31733 | .20478 |

| 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 | **.48294** | **.09708** | **.24654** | **.11670** | **10.368** | **.15400** | **.07829** | **.70422** |
| Stddev | .00096 | .00005 | .00251 | .00041 | .034 | .00098 | .00044 | .00507 |
| %RSD | .19879 | .05072 | 1.0189 | .35008 | .32676 | .63644 | .56565 | .71940 |
| #1 | .48246 | .09702 | .24463 | .11669 | 10.344 | .15465 | .07880 | .70193 |
| #2 | .48233 | .09712 | .24561 | .11711 | 10.352 | .15287 | .07803 | .71003 |
| #3 | .48405 | .09710 | .24939 | .11629 | 10.406 | .15448 | .07804 | .70071 |

| 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 | **1.0563** | **.04095** | **.04287** | **.25825** | **.71367** | **.19650** | **2.0328** |
| Stddev | .0036 | .00018 | .00027 | .00051 | .00110 | .00096 | .0102 |
| %RSD | .33843 | .43661 | .63794 | .19804 | .15477 | .48885 | .50364 |
| #1 | 1.0539 | .04088 | .04318 | .25785 | .71488 | .19751 | 2.0437 |
| #2 | 1.0546 | .04082 | .04268 | .25807 | .71340 | .19560 | 2.0234 |
| #3 | 1.0604 | .04115 | .04275 | .25882 | .71272 | .19638 | 2.0313 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S2 Acquired: 1/12/2025 2:08:48 Type: Cal
Method: EPA SFAM01.0(v33) 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 | 2304.7 | 55522. | 7882.9 | 2611.1 | 3090.0 |
| Stddev | 5.1 | 66. | 32.2 | 5.8 | 6.5 |
| %RSD | .22091 | .11841 | .40904 | .22050 | .21048 |
| | | | | | |
| #1 | 2303.0 | 55457. | 7903.2 | 2608.7 | 3083.9 |
| #2 | 2310.5 | 55589. | 7845.8 | 2617.7 | 3096.8 |
| #3 | 2300.7 | 55521. | 7899.9 | 2606.9 | 3089.4 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/12/2025 2:12:43 Type: Cal
Method: EPA SFAM01.0(v33) 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 | **.21489** | **.31282** | **3.6748** | **.22965** | **.41235** | **.98357** | **2.2735** | **1.5064** |
| Stddev | .00033 | .00163 | .0019 | .00091 | .00099 | .00568 | .0213 | .0054 |
| %RSD | .15447 | .52073 | .05142 | .39726 | .23901 | .57710 | .93590 | .36089 |
| #1 | .21467 | .31100 | 3.6728 | .22870 | .41286 | .97942 | 2.2592 | 1.5084 |
| #2 | .21474 | .31332 | 3.6751 | .22971 | .41122 | .99004 | 2.2979 | 1.5003 |
| #3 | .21528 | .31415 | 3.6765 | .23052 | .41298 | .98124 | 2.2633 | 1.5106 |

| 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 | **4.7754** | **1.2032** | **1.6152** | **1.3511** | **1.8312** | **.45141** | **.64280** | **.41878** |
| Stddev | .0049 | .0081 | .0024 | .0019 | .0028 | .00229 | .00541 | .00242 |
| %RSD | .10155 | .67626 | .14932 | .13960 | .15472 | .50678 | .84177 | .57673 |
| #1 | 4.7701 | 1.1967 | 1.6125 | 1.3511 | 1.8281 | .44993 | .63940 | .41664 |
| #2 | 4.7764 | 1.2124 | 1.6159 | 1.3492 | 1.8321 | .45405 | .64904 | .42140 |
| #3 | 4.7797 | 1.2006 | 1.6171 | 1.3529 | 1.8335 | .45027 | .63997 | .41829 |

| 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 | **.96597** | **.19594** | **.49571** | **.23090** | **20.186** | **.31140** | **.16395** | **1.3779** |
| Stddev | .00007 | .00076 | .00144 | .00207 | .051 | .00184 | .00049 | .0027 |
| %RSD | .00687 | .38699 | .29050 | .89531 | .25306 | .59149 | .29693 | .19934 |
| #1 | .96596 | .19518 | .49606 | .23014 | 20.224 | .31011 | .16370 | 1.3773 |
| #2 | .96590 | .19670 | .49413 | .23324 | 20.206 | .31351 | .16364 | 1.3755 |
| #3 | .96603 | .19594 | .49695 | .22931 | 20.128 | .31059 | .16451 | 1.3809 |

| 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 | **2.1362** | **.08485** | **.08491** | **.52113** | **1.4065** | **.40404** | **4.1437** |
| Stddev | .0052 | .00018 | .00015 | .00152 | .0063 | .00348 | .0528 |
| %RSD | .24463 | .21053 | .17975 | .29194 | .44795 | .86197 | 1.2737 |
| #1 | 2.1363 | .08491 | .08508 | .51938 | 1.4021 | .40151 | 4.0883 |
| #2 | 2.1309 | .08465 | .08489 | .52197 | 1.4137 | .40801 | 4.1933 |
| #3 | 2.1413 | .08499 | .08477 | .52205 | 1.4037 | .40260 | 4.1497 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S3 Acquired: 1/12/2025 2:12:43 Type: Cal
Method: EPA SFAM01.0(v33) 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 | **2177.5** | **53674.** | **7804.2** | **2527.9** | **2916.5** |
| Stddev | 3.9 | 170. | 25.6 | 10.3 | 1.7 |
| %RSD | .17963 | .31706 | .32783 | .40586 | .05720 |
| | | | | | |
| #1 | 2175.7 | 53866. | 7818.3 | 2533.6 | 2916.2 |
| #2 | 2181.9 | 53543. | 7819.6 | 2516.1 | 2918.3 |
| #3 | 2174.7 | 53612. | 7774.7 | 2534.1 | 2915.0 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/12/2025 2:16:44 Type: Cal
Method: EPA SFAM01.0(v33) 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 | .43391 | .57807 | 7.1412 | .45696 | .83848 | 2.0081 | 4.5202 | 2.8440 |
| Stddev | .00184 | .00369 | .0145 | .00232 | .00414 | .0031 | .0186 | .0127 |
| %RSD | .42298 | .63881 | .20346 | .50851 | .49324 | .15532 | .41205 | .44735 |
| #1 | .43270 | .57844 | 7.1354 | .45717 | .83854 | 2.0045 | 4.5018 | 2.8583 |
| #2 | .43300 | .57421 | 7.1305 | .45453 | .83432 | 2.0097 | 4.5196 | 2.8400 |
| #3 | .43602 | .58157 | 7.1578 | .45917 | .84259 | 2.0101 | 4.5391 | 2.8338 |

| 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 | 9.1586 | 2.4033 | 3.1092 | 2.6120 | 3.5506 | .89225 | 1.2715 | .84419 |
| Stddev | .0224 | .0026 | .0054 | .0063 | .0092 | .00064 | .0018 | .00066 |
| %RSD | .24490 | .10600 | .17363 | .24105 | .25918 | .07216 | .14463 | .07839 |
| #1 | 9.1492 | 2.4017 | 3.1133 | 2.6103 | 3.5536 | .89158 | 1.2708 | .84390 |
| #2 | 9.1424 | 2.4020 | 3.1031 | 2.6067 | 3.5580 | .89287 | 1.2701 | .84372 |
| #3 | 9.1842 | 2.4062 | 3.1112 | 2.6189 | 3.5403 | .89231 | 1.2736 | .84495 |

| 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 | 1.8568 | .39143 | .95801 | .43956 | 37.397 | .63929 | .31938 | 2.5556 |
| Stddev | .0048 | .00109 | .00411 | .00125 | .082 | .00056 | .00128 | .0070 |
| %RSD | .25711 | .27857 | .42874 | .28412 | .21818 | .08747 | .40017 | .27533 |
| #1 | 1.8550 | .39258 | .95918 | .44090 | 37.430 | .63864 | .31942 | 2.5629 |
| #2 | 1.8531 | .39042 | .96141 | .43935 | 37.304 | .63967 | .31809 | 2.5550 |
| #3 | 1.8622 | .39129 | .95345 | .43843 | 37.457 | .63955 | .32064 | 2.5488 |

| 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 | 4.2792 | .16751 | .16154 | 1.0056 | 2.6710 | .82532 | 8.3973 |
| Stddev | .0182 | .00075 | .00017 | .0031 | .0077 | .00131 | .0318 |
| %RSD | .42554 | .44478 | .10590 | .30516 | .28887 | .15843 | .37881 |
| #1 | 4.2782 | .16733 | .16136 | 1.0042 | 2.6773 | .82389 | 8.4262 |
| #2 | 4.2615 | .16687 | .16171 | 1.0035 | 2.6733 | .82564 | 8.4025 |
| #3 | 4.2979 | .16832 | .16154 | 1.0091 | 2.6624 | .82644 | 8.3632 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S4 Acquired: 1/12/2025 2:16:44 Type: Cal
Method: EPA SFAM01.0(v33) 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 | 2026.5 | 51522. | 7854.1 | 2408.9 | 2776.0 |
| Stddev | 7.5 | 120. | 31.2 | 3.5 | 6.8 |
| %RSD | .37033 | .23314 | .39674 | .14404 | .24466 |
| | | | | | |
| #1 | 2027.2 | 51417. | 7818.9 | 2405.2 | 2777.8 |
| #2 | 2033.7 | 51653. | 7865.1 | 2412.1 | 2781.7 |
| #3 | 2018.7 | 51496. | 7878.2 | 2409.2 | 2768.5 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/12/2025 2:20:50 Type: Cal
Method: EPA SFAM01.0(v33) 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 | .97869 | 1.1752 | 14.395 | 1.0213 | 1.8898 | 4.1908 | 9.3019 | 5.7673 |
| Stddev | .00287 | .0164 | .051 | .0043 | .0064 | .0484 | .0688 | .0116 |
| %RSD | .29365 | 1.3941 | .35749 | .41613 | .34067 | 1.1543 | .73969 | .20130 |
| #1 | .97832 | 1.1586 | 14.354 | 1.0199 | 1.8881 | 4.1349 | 9.2424 | 5.7702 |
| #2 | .97602 | 1.1757 | 14.380 | 1.0180 | 1.8844 | 4.2166 | 9.2859 | 5.7772 |
| #3 | .98173 | 1.1914 | 14.453 | 1.0261 | 1.8969 | 4.2207 | 9.3772 | 5.7546 |

| 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 | 18.261 | 4.8388 | 6.0916 | 5.2656 | 7.2741 | 1.8000 | 2.5722 | 1.7557 |
| Stddev | .082 | .0267 | .0108 | .0185 | .0218 | .0039 | .0195 | .0052 |
| %RSD | .45079 | .55075 | .17725 | .35078 | .29925 | .21713 | .75635 | .29355 |
| #1 | 18.189 | 4.8140 | 6.0816 | 5.2535 | 7.2847 | 1.7976 | 2.5691 | 1.7513 |
| #2 | 18.243 | 4.8354 | 6.0902 | 5.2564 | 7.2885 | 1.7980 | 2.5545 | 1.7544 |
| #3 | 18.351 | 4.8670 | 6.1031 | 5.2868 | 7.2490 | 1.8045 | 2.5931 | 1.7614 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3.7177 | .81864 | 1.9719 | .88770 | 66.411 | 1.3428 | .66809 | 5.0254 |
| Stddev | .0117 | .00081 | .0036 | .00103 | .351 | .0019 | .00221 | .0116 |
| %RSD | .31424 | .09839 | .18313 | .11579 | .52789 | .14472 | .33051 | .23139 |
| #1 | 3.7072 | .81777 | 1.9752 | .88659 | 66.788 | 1.3412 | .66621 | 5.0359 |
| #2 | 3.7155 | .81882 | 1.9725 | .88788 | 66.095 | 1.3422 | .66754 | 5.0273 |
| #3 | 3.7303 | .81935 | 1.9681 | .88863 | 66.348 | 1.3450 | .67052 | 5.0129 |

| 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 | 9.3773 | .35491 | .33272 | 2.0185 | 5.3987 | 1.7701 | 16.911 |
| Stddev | .0376 | .00195 | .00061 | .0076 | .0108 | .0059 | .036 |
| %RSD | .40120 | .54907 | .18357 | .37399 | .19937 | .33482 | .21492 |
| #1 | 9.3608 | .35298 | .33283 | 2.0125 | 5.4082 | 1.7688 | 16.934 |
| #2 | 9.3507 | .35487 | .33327 | 2.0160 | 5.3871 | 1.7649 | 16.869 |
| #3 | 9.4203 | .35687 | .33206 | 2.0270 | 5.4009 | 1.7766 | 16.929 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S5 Acquired: 1/12/2025 2:20:50 Type: Cal
Method: EPA SFAM01.0(v33) 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 | 1744.8 | 49177. | 7605.5 | 2273.1 | 2559.7 |
| Stddev | 4.0 | 129. | 8.9 | 8.8 | 6.5 |
| %RSD | .22671 | .26132 | .11747 | .38598 | .25420 |
| | | | | | |
| #1 | 1745.9 | 49312. | 7607.7 | 2267.7 | 2565.9 |
| #2 | 1748.1 | 49160. | 7595.6 | 2283.2 | 2560.3 |
| #3 | 1740.4 | 49057. | 7613.1 | 2268.4 | 2552.9 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: S6 Acquired: 1/12/2025 2:25:20 Type: Cal
Method: EPA SFAM01.0(v33) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

| Elem | Al3961 | Ca3736 | Fe2598 | Na8183 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **10.968** | **8.0450** | **4.8084** | **5.0439** |
| Stddev | .103 | .0517 | .0022 | .0029 |
| %RSD | .93723 | .64321 | .04648 | .05664 |
| #1 | 10.849 | 8.1027 | 4.8099 | 5.0420 |
| #2 | 11.019 | 8.0298 | 4.8095 | 5.0472 |
| #3 | 11.035 | 8.0026 | 4.8058 | 5.0426 |

| Int. Std. | Y_3600 | Y_3710 |
|---|---|---|
| Units | Cts/S | Cts/S |
| Avg | **48083.** | **7762.8** |
| Stddev | 105. | 37.9 |
| %RSD | .21781 | .48830 |
| #1 | 48136. | 7719.0 |
| #2 | 48150. | 7783.9 |
| #3 | 47962. | 7785.5 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICV001 Acquired: 1/12/2025 3:02:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9946769** | **1.045680** | **.9774159** | **1.075634** | **.9979457** | **2.429275** |
| Stddev | .0011523 | .006585 | .0039030 | .001216 | .0052911 | .012605 |
| %RSD | .1158444 | .6297212 | .3993209 | .1130834 | .5302041 | .5188768 |
| #1 | .9939337 | 1.042663 | .9729165 | 1.075842 | 1.002075 | 2.423416 |
| #2 | .9960043 | 1.041143 | .9798888 | 1.074327 | .991981 | 2.443743 |
| #3 | .9940928 | 1.053232 | .9794425 | 1.076733 | .999780 | 2.420666 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4914404** | **.5110740** | **.4925907** | **9.291452** | **.5393639** | **.4967001** |
| Stddev | .0054284 | .0029056 | .0016003 | .047320 | .0008598 | .0010139 |
| %RSD | 1.104592 | .5685270 | .3248693 | .5092901 | .1594120 | .2041345 |
| #1 | .4946485 | .5122235 | .4908436 | 9.290038 | .5401927 | .4958610 |
| #2 | .4945000 | .5077695 | .4929432 | 9.339464 | .5384761 | .4964125 |
| #3 | .4851728 | .5132289 | .4939853 | 9.244855 | .5394230 | .4978268 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4929858** | **9.522401** | **.5037721** | **5.745637** | **.5055010** | **.2307447** |
| Stddev | .0044268 | .031386 | .0036976 | .013973 | .0013807 | .0006120 |
| %RSD | .8979570 | .3296037 | .7339813 | .2431899 | .2731246 | .2652208 |
| #1 | .4929288 | 9.499537 | .5066697 | 5.746008 | .5039121 | .2301526 |
| #2 | .4974408 | 9.558185 | .5050389 | 5.759421 | .5061825 | .2313748 |
| #3 | .4885877 | 9.509482 | .4996076 | 5.731483 | .5064084 | .2307065 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.793375** | **.5085187** | **1.082581** | **9.949119** | F **.0036342** | F **.0386892** |
| Stddev | .029237 | .0034847 | .004256 | .061066 | .0006137 | .0006841 |
| %RSD | .2985425 | .6852657 | .3931394 | .6137809 | 16.88756 | 1.768268 |
| #1 | 9.812132 | .5125425 | 1.087493 | 9.940507 | .0029807 | .0380326 |
| #2 | 9.808306 | .5064937 | 1.079990 | 10.01403 | .0037234 | .0393978 |
| #3 | 9.759687 | .5065200 | 1.080260 | 9.89282 | .0041983 | .0386373 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICV001 Acquired: 1/12/2025 3:02:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV001 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F -.000228 | F .0042631 | F .0047065 | F -.001437 | F -.001550 | F .0022238 |
| Stddev | .000079 | .0009576 | .0067424 | .000614 | .000465 | .0011982 |
| %RSD | 34.62230 | 22.46188 | 143.2576 | 42.68978 | 29.97634 | 53.88126 |
| #1 | -.000142 | .0049796 | .0087078 | -.001365 | -.001022 | .0028614 |
| #2 | -.000297 | .0031755 | .0084895 | -.002084 | -.001897 | .0008416 |
| #3 | -.000246 | .0046343 | -.003078 | -.000863 | -.001731 | .0029684 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .0010379 |
| Stddev | .0000430 |
| %RSD | 4.143484 |
| #1 | .0010470 |
| #2 | .0010757 |
| #3 | .0009911 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2412.579 | 57283.11 | 7918.362 | 2669.891 | 3346.378 |
| Stddev | 10.200 | 74.83 | 35.295 | 6.701 | 4.336 |
| %RSD | .4227714 | .1306403 | .4457324 | .2509995 | .1295680 |
| #1 | 2403.209 | 57230.54 | 7905.385 | 2664.773 | 3342.735 |
| #2 | 2411.083 | 57250.01 | 7958.308 | 2667.424 | 3345.224 |
| #3 | 2423.444 | 57368.79 | 7891.393 | 2677.476 | 3351.173 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICB001 Acquired: 1/12/2025 3:06:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000148** | **.0000345** | **.0000225** | **-.000826** | **.0003216** | **-.010654** | **.0003945** |
| Stddev | .001488 | .0027077 | .0002362 | .002437 | .0006580 | .003303 | .0007554 |
| %RSD | 1006.723 | 7854.124 | 1051.745 | 294.8507 | 204.6069 | 31.00098 | 191.5145 |
| #1 | -.001672 | -.002952 | -.000248 | -.003401 | .0009180 | -.014052 | -.000389 |
| #2 | .001302 | .000725 | .000185 | -.000522 | -.000384 | -.010455 | .001118 |
| #3 | -.000073 | .002330 | .000131 | .001444 | .000431 | -.007455 | .000455 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000374** | **.0000033** | **.0059332** | **.0000848** | **-.000286** | **-.001544** | **.0112120** |
| Stddev | .0000218 | .0000555 | .0048771 | .0000735 | .000147 | .001298 | .0091344 |
| %RSD | 58.25587 | 1671.269 | 82.20039 | 86.73318 | 51.27425 | 84.10991 | 81.46997 |
| #1 | .0000386 | .0000292 | .0052803 | .0000020 | -.000307 | -.001904 | .0067300 |
| #2 | .0000151 | -.000060 | .0014154 | .0001425 | -.000420 | -.002624 | .0217216 |
| #3 | .0000586 | .000041 | .0111038 | .0001098 | -.000130 | -.000103 | .0051843 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000037** | **.0078993** | **-.000323** | **-.000002** | **.0259238** | **-.002670** | **-.000509** |
| Stddev | .0003593 | .0173344 | .000358 | .000253 | .1364928 | .000596 | .000171 |
| %RSD | 9678.657 | 219.4417 | 110.7568 | 13057.50 | 526.5159 | 22.30888 | 33.57770 |
| #1 | -.000180 | .0251771 | .000062 | .000207 | -.116793 | -.002832 | -.000629 |
| #2 | -.000227 | -.009491 | -.000386 | -.000283 | .039366 | -.002010 | -.000313 |
| #3 | .000418 | .008012 | -.000646 | .000071 | .155198 | -.003168 | -.000584 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1350010** | **-.000220** | **-.000525** | **-.000009** | **.0002616** | **.0077664** | **-.000080** |
| Stddev | .0333214 | .000623 | .000146 | .000103 | .0038290 | .0051579 | .000992 |
| %RSD | 24.68235 | 283.1398 | 27.83635 | 1184.196 | 1463.767 | 66.41258 | 1241.388 |
| #1 | .1716665 | -.000425 | -.000594 | .000082 | -.003215 | .0122861 | .000934 |
| #2 | .1065665 | .000480 | -.000358 | .000013 | .004366 | .0088656 | -.000125 |
| #3 | .1267699 | -.000715 | -.000625 | -.000121 | -.000366 | .0021475 | -.001048 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICB001 Acquired: 1/12/2025 3:06:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB001 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.000084** | **.0014433** | **-.000083** |
| Stddev | .000972 | .0004775 | .000037 |
| %RSD | 1159.113 | 33.08346 | 45.09647 |
| #1 | -.000791 | .0016692 | -.000079 |
| #2 | .001024 | .0017658 | -.000122 |
| #3 | -.000485 | .0008947 | -.000047 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2422.887** | **58669.91** | **7891.113** | **2716.786** | **3424.183** |
| Stddev | 3.702 | 119.23 | 15.087 | 2.311 | 8.230 |
| %RSD | .1527944 | .2032237 | .1911858 | .0850729 | .2403446 |
| #1 | 2426.030 | 58541.61 | 7890.974 | 2714.793 | 3419.133 |
| #2 | 2423.824 | 58690.80 | 7876.096 | 2719.319 | 3433.679 |
| #3 | 2418.806 | 58777.31 | 7906.269 | 2716.245 | 3419.736 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSA001 Acquired: 1/12/2025 3:10:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0092210** | **.0038221** | **.0064876** | **.0197744** | **-.003383** | **237.5678** |
| Stddev | .0014226 | .0013285 | .0006125 | .0015358 | .003334 | .5979 |
| %RSD | 15.42801 | 34.75838 | 9.440889 | 7.766482 | 98.54607 | .2516921 |
| #1 | .0080575 | .0033876 | .0068441 | .0191035 | .000117 | 237.1346 |
| #2 | .0087986 | .0053134 | .0057804 | .0186883 | -.006521 | 237.3187 |
| #3 | .0108071 | .0027652 | .0068384 | .0215315 | -.003746 | 238.2500 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0089833** | **-.000717** | **.0002230** | **246.1213** | **.0602934** | **.0008052** |
| Stddev | .0004482 | .000033 | .0000543 | .4477 | .0002688 | .0001899 |
| %RSD | 4.989301 | 4.615706 | 24.33383 | .1819134 | .4457579 | 23.58849 |
| #1 | .0087424 | -.000692 | .0001862 | 245.6863 | .0601241 | .0009277 |
| #2 | .0087070 | -.000705 | .0001974 | 246.0970 | .0601527 | .0005864 |
| #3 | .0095004 | -.000755 | .0002853 | 246.5808 | .0606033 | .0009014 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.007116** | **100.2606** | **.0080832** | **247.7310** | **.0036183** | **-.000660** |
| Stddev | .002906 | .3415 | .0005734 | .7961 | .0002794 | .000222 |
| %RSD | 40.83735 | .3406137 | 7.093807 | .3213413 | 7.723385 | 33.54545 |
| #1 | -.009241 | 99.9479 | .0078063 | 247.0143 | .0036692 | -.000796 |
| #2 | -.008301 | 100.2089 | .0087426 | 247.5908 | .0033169 | -.000781 |
| #3 | -.003804 | 100.6250 | .0077008 | 248.5878 | .0038687 | -.000405 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0505446** | **-.007504** | **-.011113** | **.0917417** | **.0056995** | F **.4144703** |
| Stddev | .2581158 | .000442 | .000411 | .0255642 | .0012585 | .0022064 |
| %RSD | 510.6696 | 5.891431 | 3.696871 | 27.86542 | 22.08155 | .5323320 |
| #1 | -.087570 | -.006994 | -.011248 | .1012752 | .0055040 | .4122660 |
| #2 | -.109128 | -.007762 | -.011440 | .0627806 | .0045502 | .4144662 |
| #3 | .348331 | -.007757 | -.010652 | .1111692 | .0070443 | .4166787 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSA001 Acquired: 1/12/2025 3:10:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA001 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0004817 | .0195690 | .0006366 | -.002968 | -.002491 | .0064611 |
| Stddev | .0008268 | .0069705 | .0075417 | .000835 | .001090 | .0006696 |
| %RSD | 171.6493 | 35.61998 | 1184.736 | 28.14219 | 43.74641 | 10.36389 |
| #1 | .0004423 | .0201294 | .0067638 | -.003160 | -.003413 | .0066075 |
| #2 | -.000325 | .0123352 | .0029321 | -.003690 | -.001288 | .0070454 |
| #3 | .001327 | .0262423 | -.007786 | -.002053 | -.002772 | .0057304 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .1012963 |
| Stddev | .0002656 |
| %RSD | .2622421 |
| #1 | .1014176 |
| #2 | .1009917 |
| #3 | .1014797 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2237.715 | 51803.61 | 7787.438 | 2436.851 | 2895.637 |
| Stddev | 1.595 | 148.97 | 18.357 | 5.876 | 3.920 |
| %RSD | .0712906 | .2875652 | .2357209 | .2411378 | .1353604 |
| #1 | 2239.555 | 51880.11 | 7766.787 | 2432.450 | 2898.784 |
| #2 | 2236.715 | 51898.78 | 7801.900 | 2434.580 | 2896.881 |
| #3 | 2236.875 | 51631.93 | 7793.627 | 2443.524 | 2891.247 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSAB001 Acquired: 1/12/2025 3:14:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1015929** | **.1115718** | **.0537167** | **.0649639** | **.5282656** | **229.7464** |
| Stddev | .0030573 | .0024117 | .0009977 | .0067616 | .0019098 | .6425 |
| %RSD | 3.009347 | 2.161523 | 1.857333 | 10.40818 | .3615160 | .2796392 |
| #1 | .1050536 | .1089988 | .0526566 | .0581322 | .5300208 | 229.0390 |
| #2 | .0992590 | .1137808 | .0546373 | .0716531 | .5285442 | 230.2936 |
| #3 | .1004659 | .1119358 | .0538562 | .0651065 | .5262319 | 229.9067 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4969572** | **.5100994** | **1.010402** | **237.5178** | **.5901440** | **.5100646** |
| Stddev | .0030181 | .0009981 | .000765 | .6681 | .0031291 | .0003994 |
| %RSD | .6073253 | .1956730 | .0756766 | .2812845 | .5302213 | .0783071 |
| #1 | .4935298 | .5112477 | 1.009526 | 236.8116 | .5926881 | .5096129 |
| #2 | .4981244 | .5096101 | 1.010934 | 238.1398 | .5910939 | .5102099 |
| #3 | .4992175 | .5094403 | 1.010747 | 237.6019 | .5866501 | .5103711 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4821943** | **96.83327** | **.4859303** | **239.5947** | **1.024484** | **.1966472** |
| Stddev | .0021024 | .28478 | .0026685 | .6594 | .002174 | .0012239 |
| %RSD | .4360040 | .2940898 | .5491431 | .2752343 | .2121588 | .6223692 |
| #1 | .4821389 | 96.54578 | .4841569 | 238.9983 | 1.024670 | .1961669 |
| #2 | .4843239 | 97.11526 | .4846348 | 240.3029 | 1.022223 | .1980383 |
| #3 | .4801202 | 96.83876 | .4889991 | 239.4830 | 1.026558 | .1957363 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.237616** | **.4994987** | **1.094894** | **-.170742** | **.0096384** | F **.3959560** |
| Stddev | .155465 | .0016663 | .003828 | .056852 | .0019712 | .0014166 |
| %RSD | 65.42709 | .3335850 | .3495813 | 33.29687 | 20.45167 | .3577735 |
| #1 | -.386335 | .5009275 | 1.092362 | -.218438 | .0093086 | .3950113 |
| #2 | -.250329 | .4976684 | 1.099298 | -.107831 | .0117537 | .3975849 |
| #3 | -.076185 | .4999002 | 1.093024 | -.185956 | .0078529 | .3952719 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: ICSAB001 Acquired: 1/12/2025 3:14:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB001 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0003931 | .0247165 | -.003040 | -.004316 | -.004709 | .0049605 |
| Stddev | .0008271 | .0114461 | .007408 | .001047 | .000402 | .0005882 |
| %RSD | 210.4189 | 46.30942 | 243.6577 | 24.26037 | 8.526428 | 11.85803 |
| #1 | .0007695 | .0312796 | -.002755 | -.004519 | -.004887 | .0054402 |
| #2 | -.000555 | .0313701 | -.010586 | -.005247 | -.004250 | .0043042 |
| #3 | .000965 | .0114998 | .004221 | -.003182 | -.004992 | .0051371 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0973618 |
| Stddev | .0002210 |
| %RSD | .2269331 |
| #1 | .0971214 |
| #2 | .0974082 |
| #3 | .0975559 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2196.560 | 53649.96 | 7751.531 | 2498.494 | 2843.462 |
| Stddev | 3.088 | 339.14 | 53.533 | 17.446 | 6.931 |
| %RSD | .1406049 | .6321255 | .6906177 | .6982786 | .2437592 |
| #1 | 2197.723 | 53438.28 | 7700.444 | 2496.972 | 2851.465 |
| #2 | 2193.059 | 53470.47 | 7746.934 | 2481.858 | 2839.566 |
| #3 | 2198.898 | 54041.12 | 7807.215 | 2516.651 | 2839.356 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV001 Acquired: 1/12/2025 3:30:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.794878** | **4.897500** | **24.62989** | **4.798987** | **4.769958** | **392.3392** |
| Stddev | .002960 | .025559 | .04163 | .011184 | .007187 | 4.4660 |
| %RSD | .0617410 | .5218695 | .1690202 | .2330492 | .1506819 | 1.138312 |
| #1 | 4.794526 | 4.869040 | 24.58981 | 4.808696 | 4.775444 | 396.8773 |
| #2 | 4.792110 | 4.918495 | 24.62695 | 4.786758 | 4.761821 | 387.9489 |
| #3 | 4.797999 | 4.904965 | 24.67291 | 4.801508 | 4.772607 | 392.1913 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.19753** | **.5066335** | **2.481441** | **396.4780** | **15.43387** | **2.498264** |
| Stddev | .02289 | .0025471 | .006248 | .4452 | .04663 | .005349 |
| %RSD | .2244740 | .5027548 | .2518006 | .1123011 | .3021534 | .2141066 |
| #1 | 10.21831 | .5068830 | 2.475471 | 396.8869 | 15.43144 | 2.495171 |
| #2 | 10.20129 | .5090466 | 2.480916 | 396.5434 | 15.38850 | 2.495181 |
| #3 | 10.17300 | .5039707 | 2.487935 | 396.0037 | 15.48167 | 2.504441 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.17671** | **392.9511** | **15.17398** | **245.7192** | **2.497669** | **1.240395** |
| Stddev | .09727 | 2.1829 | .09024 | 1.3010 | .002535 | .002127 |
| %RSD | .6409383 | .5555028 | .5946804 | .5294541 | .1014916 | .1714631 |
| #1 | 15.27534 | 395.0802 | 15.23650 | 246.9528 | 2.494781 | 1.239786 |
| #2 | 15.17394 | 390.7182 | 15.07053 | 244.3600 | 2.498698 | 1.238639 |
| #3 | 15.08085 | 393.0551 | 15.21490 | 245.8450 | 2.499527 | 1.242760 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **414.6568** | **2.514675** | **15.90518** | **151.7170** | **5.055719** | F **6.008146** |
| Stddev | 1.5612 | .007718 | .04907 | .7717 | .016895 | .020231 |
| %RSD | .3764942 | .3069205 | .3085286 | .5086656 | .3341754 | .3367238 |
| #1 | 416.3420 | 2.515306 | 15.87350 | 152.4494 | 5.036743 | 6.017360 |
| #2 | 414.3688 | 2.522059 | 15.88032 | 150.9112 | 5.061286 | 6.022131 |
| #3 | 413.2598 | 2.506661 | 15.96170 | 151.7904 | 5.069128 | 5.984949 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV001 Acquired: 1/12/2025 3:30:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV001 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.806183** | **4.984573** | **5.078224** | **4.961309** | **5.107710** | **5.078503** |
| Stddev | .007567 | .023185 | .011170 | .008501 | .021503 | .032760 |
| %RSD | .1574507 | .4651414 | .2199625 | .1713390 | .4209973 | .6450680 |
| #1 | 4.811159 | 4.958660 | 5.090075 | 4.951956 | 5.130164 | 5.100441 |
| #2 | 4.797475 | 4.991703 | 5.067889 | 4.963404 | 5.105662 | 5.040846 |
| #3 | 4.809916 | 5.003355 | 5.076709 | 4.968565 | 5.087304 | 5.094221 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.944690** |
| Stddev | .020017 |
| %RSD | .4048220 |
| #1 | 4.966363 |
| #2 | 4.926896 |
| #3 | 4.940812 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1918.604** | **49566.00** | **7389.120** | **2274.857** | **2609.990** |
| Stddev | 4.135 | 198.86 | 24.488 | 11.995 | 4.909 |
| %RSD | .2154994 | .4012018 | .3314093 | .5273062 | .1880941 |
| #1 | 1915.324 | 49618.54 | 7399.475 | 2284.241 | 2611.776 |
| #2 | 1923.248 | 49733.32 | 7361.155 | 2278.987 | 2613.757 |
| #3 | 1917.239 | 49346.15 | 7406.730 | 2261.342 | 2604.438 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB001 Acquired: 1/12/2025 3:34:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0004709 | .0002196 | .0007185 | .0013679 | -.000319 | -.002489 | -.002397 |
| Stddev | .0012913 | .0014262 | .0016035 | .0016950 | .000239 | .006619 | .000448 |
| %RSD | 274.2134 | 649.5923 | 223.1682 | 123.9183 | 74.80414 | 265.9057 | 18.70657 |
| #1 | -.000157 | .0007747 | .0012367 | .0017506 | -.000446 | -.009783 | -.002204 |
| #2 | -.000386 | -.001401 | -.001080 | -.000486 | -.000044 | .003135 | -.002910 |
| #3 | .001956 | .001285 | .001999 | .002839 | -.000468 | -.000820 | -.002078 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000064 | -.000016 | .0047251 | .0004253 | -.000206 | -.000829 | .0116703 |
| Stddev | .000045 | .000090 | .0013721 | .0003438 | .000047 | .001031 | .0020651 |
| %RSD | 70.52723 | 552.3666 | 29.03904 | 80.82048 | 22.90718 | 124.2707 | 17.69509 |
| #1 | -.000034 | .000075 | .0062336 | .0008185 | -.000260 | -.001370 | .0136916 |
| #2 | -.000116 | -.000019 | .0035512 | .0002761 | -.000187 | -.001477 | .0117554 |
| #3 | -.000042 | -.000105 | .0043906 | .0001814 | -.000171 | .000359 | .0095640 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0002748 | .0292015 | -.000237 | .0004080 | .1496811 | -.001146 | .0001014 |
| Stddev | .0002649 | .0171309 | .000129 | .0002447 | .2308244 | .002814 | .0001589 |
| %RSD | 96.39698 | 58.66441 | 54.41293 | 59.96716 | 154.2108 | 245.5858 | 156.7015 |
| #1 | .0002506 | .0451514 | -.000306 | .0006373 | .4011928 | .001883 | .0001156 |
| #2 | .0005509 | .0110941 | -.000317 | .0001504 | -.052470 | -.001642 | -.000064 |
| #3 | .0000228 | .0313589 | -.000088 | .0004363 | .100321 | -.003679 | .000253 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2774573 | .0009247 | .0047508 | .0004008 | .0014278 | .0038576 | -.000280 |
| Stddev | .0492439 | .0012749 | .0002214 | .0004173 | .0011200 | .0073161 | .000668 |
| %RSD | 17.74829 | 137.8653 | 4.660621 | 104.1204 | 78.43847 | 189.6524 | 238.3465 |
| #1 | .3024420 | .0013250 | .0045834 | .0008472 | .0001356 | .0075110 | -.001050 |
| #2 | .3092006 | .0019514 | .0050018 | .0000206 | .0020290 | -.004566 | .000142 |
| #3 | .2207293 | -.000502 | .0046671 | .0003345 | .0021188 | .008627 | .000067 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB001 Acquired: 1/12/2025 3:34:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB001 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000219 | .0019936 | .0000464 |
| Stddev | .000560 | .0003880 | .0000523 |
| %RSD | 255.1845 | 19.45977 | 112.5482 |
| #1 | -.000546 | .0022546 | .0000969 |
| #2 | -.000539 | .0015478 | -.000007 |
| #3 | .000427 | .0021785 | .000050 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2400.508 | 58595.23 | 7780.607 | 2700.838 | 3398.840 |
| Stddev | 3.398 | 92.00 | 20.904 | 10.072 | 6.349 |
| %RSD | .1415738 | .1570058 | .2686661 | .3729279 | .1868048 |
| #1 | 2398.492 | 58664.92 | 7795.078 | 2695.027 | 3400.291 |
| #2 | 2398.601 | 58490.95 | 7756.641 | 2695.020 | 3391.891 |
| #3 | 2404.432 | 58629.83 | 7790.102 | 2712.469 | 3404.338 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BL Acquired: 1/12/2025 3:38:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS909 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002657** | **.0001652** | **.0000844** | **.0006758** | **-.000771** | **-.008377** | **-.000860** |
| Stddev | .000964 | .0001627 | .0022400 | .0040391 | .001671 | .012011 | .000364 |
| %RSD | 36.28366 | 98.51572 | 2654.840 | 597.6867 | 216.6802 | 143.3795 | 42.28345 |
| #1 | -.003713 | .0000835 | .0026118 | .0012832 | .001082 | -.019022 | -.001068 |
| #2 | -.001823 | .0000595 | -.001656 | .0043768 | -.001232 | .004645 | -.001072 |
| #3 | -.002436 | .0003526 | -.000703 | -.003633 | -.002162 | -.010754 | -.000440 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000018** | **-.000009** | **.0036394** | **-.000172** | **-.000002** | **.0005790** | **.0059384** |
| Stddev | .000050 | .000029 | .0120931 | .000194 | .000085 | .0016825 | .0021323 |
| %RSD | 271.4341 | 313.7634 | 332.2845 | 113.0778 | 4388.498 | 290.5801 | 35.90659 |
| #1 | .000016 | -.000041 | .0130727 | -.000396 | .000092 | -.000271 | .0055979 |
| #2 | -.000075 | -.000002 | .0078392 | -.000059 | -.000025 | .002517 | .0082205 |
| #3 | .000004 | .000015 | -.009994 | -.000060 | -.000073 | -.000509 | .0039969 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000208** | **.0019905** | **-.000261** | **.0002595** | **.0595433** | **-.002927** | **-.000272** |
| Stddev | .000258 | .0139855 | .000452 | .0001889 | .1831820 | .001119 | .000161 |
| %RSD | 123.6650 | 702.6058 | 173.3007 | 72.78464 | 307.6450 | 38.23851 | 59.32720 |
| #1 | .000089 | .0178558 | -.000227 | .0003271 | -.144209 | -.002092 | -.000331 |
| #2 | -.000371 | -.003332 | .000173 | .0004054 | .210607 | -.002491 | -.000089 |
| #3 | -.000343 | -.008552 | -.000728 | .0000461 | .112231 | -.004199 | -.000394 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2072665** | **-.001469** | **.0022721** | **-.000087** | **.0033807** | **.0020700** | **-.000644** |
| Stddev | .0619869 | .000890 | .0004743 | .000176 | .0024098 | .0011923 | .000482 |
| %RSD | 29.90687 | 60.60075 | 20.87464 | 201.8607 | 71.28247 | 57.59767 | 74.75911 |
| #1 | .2531614 | -.000860 | .0020399 | .000020 | .0057076 | .0011019 | -.000897 |
| #2 | .2318861 | -.002491 | .0019586 | -.000291 | .0008958 | .0017065 | -.000089 |
| #3 | .1367520 | -.001056 | .0028177 | .000009 | .0035386 | .0034018 | -.000947 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BL Acquired: 1/12/2025 3:38:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS909 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0001034 | .0017304 | -.000021 |
| Stddev | .0008181 | .0007181 | .000106 |
| %RSD | 790.9746 | 41.49752 | 505.3289 |
| #1 | .0004922 | .0024274 | -.000055 |
| #2 | .0006547 | .0017706 | -.000105 |
| #3 | -.000837 | .0009930 | .000098 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2414.100 | 58545.19 | 7860.174 | 2730.797 | 3398.850 |
| Stddev | 2.180 | 77.11 | 76.739 | 10.838 | 5.305 |
| %RSD | .0902951 | .1317173 | .9763054 | .3968777 | .1560721 |
| #1 | 2416.421 | 58478.32 | 7887.804 | 2735.572 | 3400.317 |
| #2 | 2412.097 | 58629.54 | 7773.445 | 2718.391 | 3403.267 |
| #3 | 2413.781 | 58527.69 | 7919.272 | 2738.427 | 3392.966 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BS Acquired: 1/12/2025 3:42:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS909 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0169787** | **.0518205** | **.0191097** | **.0625190** | **.1016724** | **.3619511** | **.3553716** |
| Stddev | .0016423 | .0007107 | .0007966 | .0015627 | .0004684 | .0070118 | .0039547 |
| %RSD | 9.672949 | 1.371470 | 4.168288 | 2.499523 | .4607252 | 1.937231 | 1.112827 |
| #1 | .0163330 | .0521397 | .0183993 | .0635176 | .1014968 | .3671803 | .3589624 |
| #2 | .0157573 | .0510062 | .0199709 | .0607182 | .1022033 | .3646898 | .3560194 |
| #3 | .0188457 | .0523157 | .0189590 | .0633213 | .1013171 | .3539833 | .3511330 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0105635** | **.0099700** | **9.394682** | **.0212995** | **.0977026** | **.0523226** | **.1967677** |
| Stddev | .0000523 | .0000441 | .074987 | .0004591 | .0002765 | .0009951 | .0049071 |
| %RSD | .4954193 | .4419041 | .7981881 | 2.155618 | .2829550 | 1.901892 | 2.493836 |
| #1 | .0105111 | .0099937 | 9.466986 | .0208015 | .0980201 | .0528127 | .1978689 |
| #2 | .0106158 | .0099971 | 9.399787 | .0217059 | .0975730 | .0529777 | .1914037 |
| #3 | .0105637 | .0099191 | 9.317272 | .0213912 | .0975148 | .0511775 | .2010307 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0280747** | **8.805290** | **.0794359** | **.0193266** | **10.15733** | **.1015200** | **.1442726** |
| Stddev | .0005010 | .023408 | .0000866 | .0004520 | .06259 | .0014448 | .0002762 |
| %RSD | 1.784687 | .2658422 | .1089611 | 2.338823 | .6162462 | 1.423139 | .1914453 |
| #1 | .0285973 | 8.827487 | .0794623 | .0194781 | 10.09005 | .1031475 | .1440586 |
| #2 | .0275984 | 8.807549 | .0793393 | .0188184 | 10.21384 | .1010236 | .1441748 |
| #3 | .0280286 | 8.780835 | .0795062 | .0196835 | 10.16810 | .1003888 | .1445844 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.629412** | **.0182708** | **.0018259** | **.0187228** | **.1718046** | **.9797246** | **.0132527** |
| Stddev | .073773 | .0013993 | .0003816 | .0001071 | .0036792 | .0021678 | .0011543 |
| %RSD | .8549017 | 7.658388 | 20.90069 | .5719165 | 2.141499 | .2212654 | 8.709934 |
| #1 | 8.692702 | .0172146 | .0022638 | .0186257 | .1742524 | .9798781 | .0129887 |
| #2 | 8.647146 | .0177400 | .0015640 | .0187050 | .1675736 | .9818116 | .0122533 |
| #3 | 8.548388 | .0198578 | .0016499 | .0188377 | .1735878 | .9774842 | .0145162 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165909BS Acquired: 1/12/2025 3:42:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS909 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1994093 | .0260058 | .1904538 |
| Stddev | .0006113 | .0016764 | .0015148 |
| %RSD | .3065614 | 6.446403 | .7953864 |
| #1 | .1999450 | .0262144 | .1918866 |
| #2 | .1995396 | .0275681 | .1906064 |
| #3 | .1987434 | .0242348 | .1888684 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2436.510 | 56720.10 | 7848.980 | 2678.826 | 3379.562 |
| Stddev | 4.608 | 120.78 | 48.192 | 5.085 | 4.535 |
| %RSD | .1891163 | .2129464 | .6139948 | .1898158 | .1342030 |
| #1 | 2436.605 | 56642.88 | 7901.158 | 2683.722 | 3383.668 |
| #2 | 2441.069 | 56658.13 | 7839.642 | 2679.186 | 3380.325 |
| #3 | 2431.854 | 56859.29 | 7806.140 | 2673.571 | 3374.694 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BL Acquired: 1/12/2025 3:46:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS911 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005904** | **.0001134** | **-.000847** | **.0010234** | **-.000395** | **-.000355** | **-.000330** |
| Stddev | .0002811 | .0028863 | .001391 | .0011995 | .000335 | .006398 | .001007 |
| %RSD | 47.61909 | 2544.248 | 164.1470 | 117.2068 | 84.79564 | 1801.062 | 304.6717 |
| #1 | .0007368 | -.003175 | -.001307 | .0023778 | -.000291 | -.004482 | -.001287 |
| #2 | .0007681 | .001291 | .000715 | .0005975 | -.000770 | -.003598 | .000720 |
| #3 | .0002662 | .002225 | -.001951 | .0000950 | -.000125 | .007014 | -.000424 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000034** | **-.000015** | **-.001459** | **-.000257** | **.0000348** | **-.001667** | **.0062129** |
| Stddev | .000038 | .000084 | .004053 | .000297 | .0002685 | .001694 | .0030129 |
| %RSD | 112.3593 | 575.3137 | 277.8695 | 115.9040 | 770.8690 | 101.6153 | 48.49341 |
| #1 | .000008 | -.000096 | .002827 | -.000290 | -.000271 | -.000940 | .0045479 |
| #2 | -.000067 | -.000020 | -.001972 | .000056 | .000142 | -.003602 | .0096908 |
| #3 | -.000042 | .000072 | -.005231 | -.000536 | .000233 | -.000458 | .0044001 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000330** | **-.004591** | **-.000168** | **-.000023** | **.0831051** | **-.003168** | **-.000385** |
| Stddev | .000340 | .017197 | .000137 | .000088 | .1125395 | .003443 | .000131 |
| %RSD | 102.8128 | 374.6154 | 81.68742 | 390.4644 | 135.4183 | 108.6732 | 34.09756 |
| #1 | -.000163 | .006216 | -.000320 | .000071 | .0927933 | -.001597 | -.000283 |
| #2 | -.000107 | .004434 | -.000056 | -.000035 | -.033965 | -.000792 | -.000337 |
| #3 | -.000721 | -.024421 | -.000127 | -.000104 | .190487 | -.007117 | -.000533 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1883189** | **.0015036** | **.0004156** | **-.000119** | **-.001720** | **.0023485** | **.0000914** |
| Stddev | .0177092 | .0011122 | .0009723 | .000262 | .002924 | .0033328 | .0004859 |
| %RSD | 9.403848 | 73.96856 | 233.9698 | 219.5950 | 169.9742 | 141.9102 | 531.5538 |
| #1 | .1953366 | .0022561 | -.000134 | .000169 | .000561 | -.000561 | .0006118 |
| #2 | .2014437 | .0020286 | .001538 | -.000184 | -.000705 | .001622 | .0000127 |
| #3 | .1681763 | .0002261 | -.000157 | -.000343 | -.005016 | .005985 | -.000350 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BL Acquired: 1/12/2025 3:46:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS911 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0001325 | .0008372 | -.000059 |
| Stddev | .0011966 | .0012885 | .000059 |
| %RSD | 903.0927 | 153.8970 | 100.7830 |
| #1 | -.001213 | .0007642 | -.000012 |
| #2 | .000534 | -.000413 | -.000126 |
| #3 | .001077 | .002161 | -.000039 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2488.168 | 58236.11 | 7952.884 | 2725.438 | 3566.695 |
| Stddev | 4.969 | 150.65 | 41.630 | 1.414 | 3.931 |
| %RSD | .1996893 | .2586829 | .5234574 | .0518656 | .1102063 |
| #1 | 2493.803 | 58407.38 | 7999.376 | 2727.067 | 3571.233 |
| #2 | 2484.418 | 58124.14 | 7940.216 | 2724.532 | 3564.433 |
| #3 | 2486.283 | 58176.80 | 7919.059 | 2724.716 | 3564.417 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BS Acquired: 1/12/2025 3:51:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS911 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0175125** | **.0510981** | **.0186514** | **.0592809** | **.0996255** | **.3533291** | **.3613762** |
| Stddev | .0023611 | .0008429 | .0007002 | .0037044 | .0009423 | .0027715 | .0002697 |
| %RSD | 13.48214 | 1.649508 | 3.753906 | 6.248916 | .9458049 | .7844117 | .0746270 |
| #1 | .0201460 | .0515547 | .0193607 | .0618558 | .0993014 | .3565294 | .3611011 |
| #2 | .0155849 | .0501255 | .0186328 | .0550354 | .0988881 | .3517396 | .3613875 |
| #3 | .0168067 | .0516141 | .0179607 | .0609514 | .1006871 | .3517183 | .3616401 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0104742** | **.0096850** | **9.428705** | **.0203683** | **.0960813** | **.0513147** | **.2021362** |
| Stddev | .0000503 | .0000815 | .016456 | .0002145 | .0002102 | .0021275 | .0071577 |
| %RSD | .4802851 | .8410730 | .1745329 | 1.052879 | .2188223 | 4.145899 | 3.541043 |
| #1 | .0105267 | .0097507 | 9.442361 | .0206151 | .0958736 | .0509486 | .2102998 |
| #2 | .0104263 | .0095939 | 9.410434 | .0202623 | .0962940 | .0536014 | .1969364 |
| #3 | .0104695 | .0097103 | 9.433321 | .0202274 | .0960763 | .0493940 | .1991725 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0281445** | **8.873487** | **.0779417** | **.0193076** | **10.37013** | **.1013683** | **.1429915** |
| Stddev | .0003415 | .016596 | .0003274 | .0002435 | .09300 | .0015146 | .0007125 |
| %RSD | 1.213559 | .1870304 | .4200592 | 1.261344 | .8967780 | 1.494186 | .4983105 |
| #1 | .0285333 | 8.882318 | .0775703 | .0190395 | 10.46307 | .1020438 | .1429340 |
| #2 | .0280071 | 8.883800 | .0780665 | .0195151 | 10.27707 | .0996335 | .1437311 |
| #3 | .0278930 | 8.854342 | .0781884 | .0193683 | 10.37024 | .1024278 | .1423095 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.599972** | **.0182185** | **.0009571** | **.0182949** | **.1654346** | **1.007474** | **.0129203** |
| Stddev | .021047 | .0015337 | .0004840 | .0002201 | .0009705 | .003672 | .0001801 |
| %RSD | .2447319 | 8.418580 | 50.56946 | 1.203255 | .5866451 | .3644382 | 1.393626 |
| #1 | 8.605674 | .0185992 | .0012361 | .0182067 | .1643364 | 1.010201 | .0131275 |
| #2 | 8.617581 | .0195260 | .0003982 | .0185455 | .1657905 | 1.008923 | .0128325 |
| #3 | 8.576662 | .0165302 | .0012370 | .0181325 | .1661770 | 1.003299 | .0128011 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165911BS Acquired: 1/12/2025 3:51:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS911 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2029635 | .0270266 | .1842075 |
| Stddev | .0016323 | .0012085 | .0008099 |
| %RSD | .8042314 | 4.471391 | .4396478 |
| #1 | .2048412 | .0257022 | .1838251 |
| #2 | .2018833 | .0280695 | .1836597 |
| #3 | .2021658 | .0273080 | .1851378 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2474.392 | 57191.13 | 7902.978 | 2690.810 | 3442.013 |
| Stddev | 5.042 | 283.58 | 51.535 | 10.005 | 10.533 |
| %RSD | .2037553 | .4958481 | .6520934 | .3718317 | .3060115 |
| #1 | 2476.809 | 56870.10 | 7845.822 | 2684.328 | 3443.234 |
| #2 | 2477.770 | 57295.76 | 7917.215 | 2685.769 | 3451.882 |
| #3 | 2468.596 | 57407.52 | 7945.898 | 2702.333 | 3430.923 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BL Acquired: 1/12/2025 3:55:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS923 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001047** | **.0012093** | **.0004810** | **.0023689** | **.0004839** | **-.008713** | **-.002651** |
| Stddev | .001705 | .0014033 | .0005758 | .0008053 | .0011218 | .002531 | .000735 |
| %RSD | 162.8158 | 116.0367 | 119.7177 | 33.99296 | 231.8421 | 29.04789 | 27.73521 |
| #1 | .000490 | -.000324 | -.000175 | .0031114 | .0012727 | -.007103 | -.002806 |
| #2 | -.002881 | .001523 | .000716 | .0024826 | .0009792 | -.007406 | -.003295 |
| #3 | -.000750 | .002429 | .000902 | .0015129 | -.000800 | -.011631 | -.001850 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000064** | **.0000353** | **.0103076** | **-.000317** | **.0000944** | **.0003664** | **.0042191** |
| Stddev | .000026 | .0000231 | .0135641 | .000319 | .0001109 | .0017245 | .0085027 |
| %RSD | 40.56465 | 65.39160 | 131.5926 | 100.5276 | 117.4647 | 470.6499 | 201.5301 |
| #1 | -.000046 | .0000369 | -.005241 | -.000685 | .0001903 | -.001625 | .0031617 |
| #2 | -.000094 | .0000114 | .019716 | -.000133 | .0001200 | .001339 | .0132011 |
| #3 | -.000053 | .0000574 | .016447 | -.000133 | -.000027 | .001384 | -.003705 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000636** | **.0125834** | **-.000303** | **-.000071** | **-.023893** | **-.003594** | **-.000196** |
| Stddev | .0002929 | .0107826 | .000361 | .000113 | .214069 | .001177 | .000206 |
| %RSD | 460.3467 | 85.68959 | 118.9046 | 160.0964 | 895.9369 | 32.74381 | 104.9815 |
| #1 | -.000071 | .0078859 | -.000290 | -.000012 | -.130548 | -.002238 | -.000392 |
| #2 | -.000138 | .0049464 | .000051 | -.000201 | -.163683 | -.004348 | -.000213 |
| #3 | .000400 | .0249179 | -.000670 | .000001 | .222551 | -.004195 | .000018 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1491133** | **-.000915** | **-.000439** | **-.000004** | **-.001003** | **.0083774** | **.0003262** |
| Stddev | .0479677 | .001636 | .000261 | .000384 | .003677 | .0024895 | .0004202 |
| %RSD | 32.16865 | 178.8688 | 59.55563 | 10124.54 | 366.6842 | 29.71719 | 128.8154 |
| #1 | .0938229 | -.000845 | -.000739 | -.000316 | -.001156 | .0112499 | .0002193 |
| #2 | .1796109 | .000686 | -.000260 | -.000120 | -.004600 | .0068465 | .0007895 |
| #3 | .1739059 | -.002584 | -.000318 | .000425 | .002748 | .0070356 | -.000030 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BL Acquired: 1/12/2025 3:55:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS923 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000832 | -.000261 | -.000076 |
| Stddev | .000524 | .001707 | .000028 |
| %RSD | 62.94796 | 655.3841 | 36.74266 |
| #1 | -.001166 | .001691 | -.000048 |
| #2 | -.000228 | -.000996 | -.000104 |
| #3 | -.001101 | -.001477 | -.000078 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2437.400 | 57921.76 | 7883.910 | 2697.273 | 3446.072 |
| Stddev | 7.288 | 177.21 | 41.380 | 13.223 | 8.913 |
| %RSD | .2990263 | .3059542 | .5248660 | .4902182 | .2586502 |
| #1 | 2429.964 | 58124.81 | 7907.981 | 2708.728 | 3435.831 |
| #2 | 2444.532 | 57798.24 | 7836.129 | 2700.288 | 3452.077 |
| #3 | 2437.703 | 57842.22 | 7907.621 | 2682.803 | 3450.309 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BS Acquired: 1/12/2025 3:59:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS923 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0174849 | .0524567 | .0193614 | .0638420 | .1031469 | .3516450 | .3612067 |
| Stddev | .0012263 | .0012645 | .0015285 | .0026615 | .0007554 | .0075408 | .0026829 |
| %RSD | 7.013622 | 2.410584 | 7.894349 | 4.168875 | .7323592 | 2.144446 | .7427639 |
| #1 | .0183106 | .0521126 | .0176274 | .0663702 | .1038973 | .3512885 | .3626413 |
| #2 | .0160758 | .0538577 | .0199435 | .0610647 | .1023866 | .3442887 | .3581115 |
| #3 | .0180682 | .0513999 | .0205132 | .0640912 | .1031567 | .3593577 | .3628673 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0105357 | .0102315 | 9.438385 | .0210380 | .0999719 | .0516712 | .1978165 |
| Stddev | .0000189 | .0000948 | .076827 | .0003309 | .0002581 | .0011093 | .0058877 |
| %RSD | .1796078 | .9261171 | .8139852 | 1.572844 | .2581656 | 2.146840 | 2.976326 |
| #1 | .0105169 | .0101657 | 9.462654 | .0212013 | .0996824 | .0525801 | .1961688 |
| #2 | .0105547 | .0103401 | 9.352354 | .0212554 | .1000555 | .0504351 | .1929282 |
| #3 | .0105354 | .0101886 | 9.500146 | .0206571 | .1001778 | .0519985 | .2043524 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0284090 | 8.811374 | .0814060 | .0195584 | 10.35163 | .1054333 | .1440315 |
| Stddev | .0002399 | .022429 | .0001188 | .0002333 | .26028 | .0011067 | .0002758 |
| %RSD | .8443756 | .2545493 | .1459602 | 1.192878 | 2.514389 | 1.049629 | .1915086 |
| #1 | .0286672 | 8.825049 | .0812690 | .0193840 | 10.60707 | .1062861 | .1437566 |
| #2 | .0283669 | 8.785488 | .0814687 | .0194677 | 10.36106 | .1058311 | .1443083 |
| #3 | .0281930 | 8.823584 | .0814804 | .0198234 | 10.08676 | .1041828 | .1440298 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.589774 | .0177477 | .0001957 | .0188456 | .1754229 | 1.020495 | .0131100 |
| Stddev | .092590 | .0010317 | .0002526 | .0002902 | .0069546 | .002157 | .0004053 |
| %RSD | 1.077915 | 5.813051 | 129.0457 | 1.539717 | 3.964481 | .2113322 | 3.091685 |
| #1 | 8.671651 | .0167638 | .0001894 | .0185172 | .1804145 | 1.022977 | .0129479 |
| #2 | 8.489295 | .0188213 | .0004515 | .0189523 | .1783750 | 1.019073 | .0128108 |
| #3 | 8.608377 | .0176579 | -.000054 | .0190673 | .1674792 | 1.019436 | .0135713 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165923BS Acquired: 1/12/2025 3:59:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS923 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2061019 | .0239857 | .1863133 |
| Stddev | .0018777 | .0013429 | .0014698 |
| %RSD | .9110506 | 5.598615 | .7889012 |
| #1 | .2080039 | .0224567 | .1867529 |
| #2 | .2042495 | .0249737 | .1846738 |
| #3 | .2060523 | .0245266 | .1875131 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2412.404 | 58537.63 | 7920.988 | 2723.844 | 3325.620 |
| Stddev | 6.962 | 183.05 | 31.926 | 12.081 | 9.086 |
| %RSD | .2886037 | .3127109 | .4030594 | .4435307 | .2732254 |
| #1 | 2411.059 | 58472.04 | 7941.968 | 2730.278 | 3320.086 |
| #2 | 2419.941 | 58744.44 | 7884.246 | 2731.346 | 3336.107 |
| #3 | 2406.213 | 58396.41 | 7936.751 | 2709.907 | 3320.668 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BL Acquired: 1/12/2025 4:03:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0019055** | **.0012866** | **.0009025** | **.0023858** | **.0006255** | **.0012262** | **-.000621** |
| Stddev | .0005543 | .0007615 | .0004593 | .0022869 | .0014771 | .0040708 | .001101 |
| %RSD | 29.09057 | 59.19000 | 50.88961 | 95.85432 | 236.1317 | 331.9879 | 177.2283 |
| #1 | .0018120 | .0018587 | .0003948 | .0042945 | -.000599 | -.002968 | -.000612 |
| #2 | .0025007 | .0015788 | .0010236 | -.000149 | .002266 | .005161 | -.001727 |
| #3 | .0014039 | .0004222 | .0012891 | .003012 | .000209 | .001486 | .000475 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000509** | **-.000091** | **-.004599** | **-.000301** | **-.000156** | **-.000701** | **.0078035** |
| Stddev | .0000548 | .000024 | .005962 | .000146 | .000138 | .001830 | .0026102 |
| %RSD | 107.6437 | 26.76551 | 129.6243 | 48.36097 | 88.38623 | 260.9566 | 33.44948 |
| #1 | .0000761 | -.000118 | -.008383 | -.000328 | -.000029 | .000503 | .0098243 |
| #2 | -.000012 | -.000073 | .002273 | -.000432 | -.000136 | -.002808 | .0048565 |
| #3 | .000089 | -.000081 | -.007688 | -.000144 | -.000302 | .000200 | .0087297 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000175** | **.0085316** | **.0002047** | **.0000237** | **.0499394** | **-.002129** | **-.000312** |
| Stddev | .000325 | .0096979 | .0002058 | .0001751 | .1740723 | .001315 | .000048 |
| %RSD | 185.9052 | 113.6704 | 100.5583 | 738.1914 | 348.5669 | 61.76795 | 15.38089 |
| #1 | -.000549 | -.001070 | .0001697 | -.000082 | .1654157 | -.002174 | -.000299 |
| #2 | .000037 | .018323 | .0000186 | .000226 | -.150277 | -.000792 | -.000272 |
| #3 | -.000013 | .008343 | .0004257 | -.000073 | .134680 | -.003421 | -.000366 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2339790** | **.0005049** | **-.001325** | **-.000109** | **.0015242** | **.0023078** | **-.000500** |
| Stddev | .0519300 | .0006408 | .000156 | .000157 | .0024094 | .0150402 | .000114 |
| %RSD | 22.19429 | 126.9080 | 11.74099 | 143.4521 | 158.0824 | 651.7066 | 22.70857 |
| #1 | .2739174 | .0010271 | -.001489 | -.000149 | .0038163 | -.008599 | -.000595 |
| #2 | .1752746 | .0006977 | -.001306 | -.000243 | .0017437 | -.003943 | -.000531 |
| #3 | .2527451 | -.000210 | -.001179 | .000064 | -.000988 | .019465 | -.000374 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BL Acquired: 1/12/2025 4:03:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.000892** | **-.000640** | **-.000046** |
| Stddev | .000418 | .000658 | .000036 |
| %RSD | 46.86011 | 102.8204 | 77.49559 |
| #1 | -.001292 | .000119 | -.000007 |
| #2 | -.000458 | -.001053 | -.000077 |
| #3 | -.000927 | -.000985 | -.000053 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2462.939** | **58023.14** | **7962.797** | **2694.052** | **3499.437** |
| Stddev | 1.763 | 142.66 | 39.144 | 10.334 | .574 |
| %RSD | .0715655 | .2458723 | .4915879 | .3835760 | .0163978 |
| #1 | 2462.467 | 58173.02 | 7950.779 | 2688.149 | 3499.743 |
| #2 | 2464.889 | 57888.99 | 8006.541 | 2688.022 | 3499.792 |
| #3 | 2461.460 | 58007.42 | 7931.071 | 2705.984 | 3498.775 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BS Acquired: 1/12/2025 4:07:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0178784 | .0524784 | .0200653 | .0638993 | .1037299 | .3499763 | .3587102 |
| Stddev | .0010501 | .0017946 | .0008840 | .0009694 | .0015599 | .0039107 | .0020677 |
| %RSD | 5.873557 | 3.419638 | 4.405815 | 1.517128 | 1.503814 | 1.117424 | .5764275 |
| #1 | .0168928 | .0508957 | .0190779 | .0634970 | .1048472 | .3457233 | .3569165 |
| #2 | .0177595 | .0521114 | .0207831 | .0650050 | .1043947 | .3534172 | .3609718 |
| #3 | .0189829 | .0544281 | .0203350 | .0631957 | .1019477 | .3507885 | .3582424 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0106280 | .0101332 | 9.336283 | .0208349 | .0992260 | .0533655 | .1954910 |
| Stddev | .0000743 | .0000848 | .073895 | .0003678 | .0002327 | .0017055 | .0089628 |
| %RSD | .6993752 | .8368043 | .7914814 | 1.765056 | .2344855 | 3.195917 | 4.584743 |
| #1 | .0106969 | .0100357 | 9.294140 | .0205450 | .0991971 | .0534962 | .1868817 |
| #2 | .0105492 | .0101902 | 9.421607 | .0212485 | .0990092 | .0515984 | .2047697 |
| #3 | .0106380 | .0101736 | 9.293101 | .0207112 | .0994718 | .0550019 | .1948215 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0282138 | 8.774930 | .0810153 | .0191419 | 10.44961 | .1048240 | .1433969 |
| Stddev | .0003618 | .090517 | .0003280 | .0003606 | .21760 | .0016738 | .0008145 |
| %RSD | 1.282477 | 1.031538 | .4048560 | 1.884024 | 2.082414 | 1.596784 | .5680317 |
| #1 | .0282017 | 8.730192 | .0808980 | .0192426 | 10.59448 | .1028943 | .1442914 |
| #2 | .0285816 | 8.879105 | .0813858 | .0187416 | 10.55496 | .1058839 | .1432011 |
| #3 | .0278583 | 8.715494 | .0807620 | .0194415 | 10.19938 | .1056937 | .1426980 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.441034 | .0174694 | -.000137 | .0184211 | .1783279 | 1.035575 | .0130875 |
| Stddev | .090956 | .0010178 | .000801 | .0005718 | .0014564 | .015967 | .0003865 |
| %RSD | 1.077541 | 5.825935 | 584.9207 | 3.103984 | .8166805 | 1.541808 | 2.953431 |
| #1 | 8.392949 | .0174010 | -.000794 | .0185401 | .1799072 | 1.044991 | .0133728 |
| #2 | 8.545939 | .0164875 | .000755 | .0189240 | .1770379 | 1.017140 | .0132421 |
| #3 | 8.384213 | .0185195 | -.000372 | .0177992 | .1780386 | 1.044595 | .0126476 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165891BS Acquired: 1/12/2025 4:07:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2085291 | .0266193 | .1799426 |
| Stddev | .0010934 | .0007288 | .0016340 |
| %RSD | .5243604 | 2.737815 | .9080464 |
| #1 | .2090212 | .0265998 | .1784076 |
| #2 | .2092900 | .0273577 | .1816602 |
| #3 | .2072761 | .0259005 | .1797600 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2423.255 | 59245.91 | 7893.081 | 2741.688 | 3340.256 |
| Stddev | 4.488 | 237.58 | 20.843 | 14.969 | 3.292 |
| %RSD | .1851851 | .4010005 | .2640612 | .5459664 | .0985487 |
| #1 | 2427.731 | 59329.38 | 7869.284 | 2735.047 | 3340.309 |
| #2 | 2418.756 | 58977.86 | 7908.094 | 2731.189 | 3343.520 |
| #3 | 2423.277 | 59430.48 | 7901.864 | 2758.828 | 3336.937 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BL Acquired: 1/12/2025 4:11:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS885 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001754** | **-.000115** | **.0002729** | **.0026684** | **-.001380** | **-.006654** | **-.001381** |
| Stddev | .000210 | .000510 | .0002982 | .0022538 | .000588 | .006814 | .000712 |
| %RSD | 11.99148 | 442.5217 | 109.2689 | 84.45918 | 42.61103 | 102.4032 | 51.56597 |
| #1 | -.001991 | -.000185 | .0001840 | .0000842 | -.001936 | -.005802 | -.001355 |
| #2 | -.001679 | -.000587 | .0006055 | .0042263 | -.000765 | -.000307 | -.002105 |
| #3 | -.001590 | .000426 | .0000293 | .0036949 | -.001439 | -.013855 | -.000682 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000028** | **.0000123** | **.0035007** | **.0000076** | **-.000045** | **.0004193** | **.0032179** |
| Stddev | .000029 | .0000308 | .0060721 | .0001245 | .000099 | .0007201 | .0036119 |
| %RSD | 103.6679 | 250.4810 | 173.4569 | 1638.245 | 218.4722 | 171.7524 | 112.2426 |
| #1 | -.000060 | .0000320 | -.003299 | .0001485 | -.000151 | -.000161 | .0071863 |
| #2 | -.000008 | -.000023 | .008383 | -.000038 | -.000031 | .000194 | .0023451 |
| #3 | -.000014 | .000028 | .005418 | -.000088 | .000046 | .001225 | .0001224 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000263** | **.0074339** | **-.000445** | **-.000059** | **-.074285** | **-.001718** | **-.000267** |
| Stddev | .000440 | .0124990 | .000174 | .000158 | .086738 | .002019 | .000123 |
| %RSD | 167.4921 | 168.1333 | 39.10245 | 266.6966 | 116.7646 | 117.5567 | 46.15528 |
| #1 | -.000113 | .0052648 | -.000413 | -.000098 | -.169489 | -.000547 | -.000336 |
| #2 | .000083 | .0208755 | -.000288 | -.000194 | -.053621 | -.000556 | -.000125 |
| #3 | -.000758 | -.003838 | -.000632 | .000115 | .000256 | -.004049 | -.000340 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1502858** | **.0004003** | **-.002399** | **-.000231** | **.0007781** | **.0007564** | **-.000504** |
| Stddev | .0466155 | .0020276 | .000516 | .000084 | .0007506 | .0040331 | .000385 |
| %RSD | 31.01789 | 506.5138 | 21.48583 | 36.35438 | 96.46882 | 533.1791 | 76.34324 |
| #1 | .1499656 | .0025960 | -.001935 | -.000253 | .0006557 | -.002177 | -.000304 |
| #2 | .1038313 | -.001402 | -.002954 | -.000138 | .0000962 | -.000909 | -.000947 |
| #3 | .1970607 | .000006 | -.002309 | -.000302 | .0015825 | .005355 | -.000260 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BL Acquired: 1/12/2025 4:11:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS885 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0002622 | -.000539 | -.000134 |
| Stddev | .0005858 | .000685 | .000012 |
| %RSD | 223.4196 | 126.9444 | 9.227884 |
| | | | |
| #1 | .0008777 | -.000302 | -.000137 |
| #2 | -.000288 | -.001311 | -.000145 |
| #3 | .000197 | -.000005 | -.000121 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2526.195 | 58464.69 | 8011.943 | 2711.157 | 3654.449 |
| Stddev | 5.613 | 49.65 | 37.259 | 5.568 | 8.234 |
| %RSD | .2221925 | .0849189 | .4650418 | .2053802 | .2253069 |
| | | | | | |
| #1 | 2521.251 | 58408.18 | 7982.862 | 2707.882 | 3645.054 |
| #2 | 2532.296 | 58484.54 | 8053.942 | 2717.586 | 3660.405 |
| #3 | 2525.037 | 58501.33 | 7999.026 | 2708.003 | 3657.889 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BS Acquired: 1/12/2025 4:15:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS885 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0162974 | .0530528 | .0179242 | .0617854 | .1014299 | .3541268 | .3697885 |
| Stddev | .0017717 | .0011581 | .0004370 | .0030350 | .0003367 | .0077315 | .0009261 |
| %RSD | 10.87091 | 2.182944 | 2.438034 | 4.912233 | .3319013 | 2.183258 | .2504469 |
| #1 | .0144331 | .0519136 | .0178789 | .0583527 | .1010414 | .3620319 | .3693504 |
| #2 | .0165000 | .0530160 | .0183820 | .0641134 | .1016345 | .3465815 | .3691627 |
| #3 | .0179590 | .0542289 | .0175116 | .0628900 | .1016139 | .3537671 | .3708524 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0107095 | .0100262 | 9.617154 | .0215988 | .0990039 | .0526118 | .1996039 |
| Stddev | .0000750 | .0001263 | .026921 | .0000939 | .0002989 | .0016515 | .0073397 |
| %RSD | .7000813 | 1.259497 | .2799272 | .4348402 | .3019516 | 3.139013 | 3.677124 |
| #1 | .0106475 | .0099547 | 9.614420 | .0216171 | .0987901 | .0535800 | .2080641 |
| #2 | .0107928 | .0099518 | 9.591705 | .0214971 | .0988761 | .0507049 | .1949383 |
| #3 | .0106882 | .0101720 | 9.645338 | .0216822 | .0993455 | .0535505 | .1958094 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0292600 | 9.044102 | .0804224 | .0199815 | 10.41689 | .1062931 | .1465084 |
| Stddev | .0002878 | .048234 | .0002005 | .0003810 | .04572 | .0016867 | .0005371 |
| %RSD | .9836522 | .5333218 | .2493318 | 1.906825 | .4388920 | 1.586816 | .3665821 |
| #1 | .0292344 | 9.033423 | .0801917 | .0203902 | 10.38769 | .1043759 | .1459131 |
| #2 | .0295598 | 9.002103 | .0805201 | .0199181 | 10.46958 | .1069546 | .1466555 |
| #3 | .0289858 | 9.096781 | .0805553 | .0196361 | 10.39340 | .1075487 | .1469565 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.816200 | .0183779 | -.001560 | .0188347 | .1745685 | 1.033070 | .0134990 |
| Stddev | .087901 | .0013064 | .000243 | .0000763 | .0022358 | .014636 | .0007246 |
| %RSD | .9970348 | 7.108444 | 15.58795 | .4051535 | 1.280778 | 1.416724 | 5.367995 |
| #1 | 8.778444 | .0198728 | -.001651 | .0189189 | .1720041 | 1.021463 | .0132462 |
| #2 | 8.753486 | .0178057 | -.001285 | .0188151 | .1761091 | 1.049511 | .0143162 |
| #3 | 8.916671 | .0174553 | -.001745 | .0187701 | .1755923 | 1.028235 | .0129347 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165885BS Acquired: 1/12/2025 4:15:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS885 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2083290 | .0252297 | .1875150 |
| Stddev | .0007560 | .0006889 | .0004645 |
| %RSD | .3628619 | 2.730568 | .2477380 |
| #1 | .2076357 | .0244361 | .1878986 |
| #2 | .2091349 | .0256733 | .1869984 |
| #3 | .2082164 | .0255798 | .1876478 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2414.107 | 56441.41 | 7735.592 | 2651.242 | 3358.026 |
| Stddev | 3.864 | 195.92 | 29.854 | 6.406 | 4.198 |
| %RSD | .1600411 | .3471230 | .3859360 | .2416082 | .1250125 |
| #1 | 2415.128 | 56504.12 | 7769.654 | 2650.238 | 3359.156 |
| #2 | 2417.358 | 56598.31 | 7713.965 | 2658.090 | 3361.544 |
| #3 | 2409.836 | 56221.82 | 7723.157 | 2645.397 | 3353.379 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BL Acquired: 1/12/2025 4:19:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS884 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001663** | **.0004824** | **.0009964** | **.0009824** | **.0006977** | **.0019260** | **-.002591** |
| Stddev | .002454 | .0002000 | .0011200 | .0015540 | .0011513 | .0023501 | .001011 |
| %RSD | 147.5542 | 41.46229 | 112.3973 | 158.1920 | 165.0095 | 122.0231 | 39.01430 |
| #1 | -.003527 | .0006444 | .0015285 | .0020808 | .0011687 | .0046289 | -.003601 |
| #2 | .001117 | .0002588 | -.000290 | -.000796 | .0015389 | .0003652 | -.001580 |
| #3 | -.002580 | .0005441 | .001751 | .001662 | -.000614 | .0007838 | -.002591 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000173** | **-.000017** | **-.001190** | **-.000168** | **-.000028** | **.0002097** | **.0076083** |
| Stddev | .000059 | .000041 | .005740 | .000103 | .000367 | .0005088 | .0043647 |
| %RSD | 34.23585 | 242.9546 | 482.1209 | 61.32190 | 1291.676 | 242.6538 | 57.36818 |
| #1 | -.000189 | .000029 | -.006726 | -.000184 | -.000357 | -.000259 | .0043586 |
| #2 | -.000223 | -.000048 | .004733 | -.000262 | .000368 | .000751 | .0058969 |
| #3 | -.000108 | -.000032 | -.001578 | -.000058 | -.000096 | .000137 | .0125693 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000136** | **.0020086** | **-.000271** | **.0001496** | **.0213763** | **-.001723** | **-.000188** |
| Stddev | .000394 | .0166178 | .000323 | .0002731 | .0192312 | .001929 | .000152 |
| %RSD | 289.2279 | 827.3521 | 119.4776 | 182.5283 | 89.96516 | 111.9865 | 81.12544 |
| #1 | .000109 | .0210598 | -.000069 | .0001713 | .0283568 | -.001935 | -.000216 |
| #2 | -.000591 | -.005532 | -.000643 | -.000134 | -.000370 | .000304 | -.000324 |
| #3 | .000073 | -.009502 | -.000099 | .000411 | .036142 | -.003537 | -.000023 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1525147** | **-.001593** | **-.002974** | **.0000279** | **.0007187** | **.0105657** | **-.000001** |
| Stddev | .0652458 | .000071 | .000680 | .0001603 | .0035210 | .0007531 | .000298 |
| %RSD | 42.78000 | 4.438585 | 22.87351 | 574.5384 | 489.8836 | 7.127805 | 31849.60 |
| #1 | .0782155 | -.001630 | -.002845 | -.000157 | -.002721 | .0107739 | -.000105 |
| #2 | .1788597 | -.001638 | -.003709 | .000115 | .004316 | .0111928 | -.000233 |
| #3 | .2004688 | -.001512 | -.002367 | .000125 | .000561 | .0097304 | .000335 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BL Acquired: 1/12/2025 4:19:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS884 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000106 | .0001497 | -.000098 |
| Stddev | .000967 | .0016007 | .000042 |
| %RSD | 913.1531 | 1069.526 | 42.86637 |
| | | | |
| #1 | -.000688 | -.000396 | -.000081 |
| #2 | -.000640 | .001952 | -.000146 |
| #3 | .001010 | -.001107 | -.000067 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2436.401 | 57184.35 | 7760.076 | 2684.670 | 3451.404 |
| Stddev | 4.542 | 51.47 | 62.222 | 9.769 | 15.166 |
| %RSD | .1864302 | .0900063 | .8018273 | .3638721 | .4394256 |
| | | | | | |
| #1 | 2433.159 | 57224.08 | 7701.624 | 2680.368 | 3448.724 |
| #2 | 2441.592 | 57202.76 | 7753.121 | 2695.852 | 3467.731 |
| #3 | 2434.451 | 57126.20 | 7825.484 | 2677.791 | 3437.756 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BS Acquired: 1/12/2025 4:23:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS884 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0166910 | .0527370 | .0186723 | .0618499 | .1035234 | .3726971 | .3636261 |
| Stddev | .0029734 | .0014629 | .0006236 | .0025104 | .0010532 | .0032003 | .0027493 |
| %RSD | 17.81411 | 2.773918 | 3.339797 | 4.058773 | 1.017332 | .8587014 | .7560714 |
| #1 | .0138052 | .0510478 | .0193913 | .0641790 | .1043022 | .3717019 | .3634969 |
| #2 | .0197447 | .0535869 | .0183474 | .0621798 | .1023251 | .3701125 | .3664377 |
| #3 | .0165229 | .0535763 | .0182782 | .0591909 | .1039429 | .3762768 | .3609438 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0107202 | .0100842 | 9.565876 | .0210811 | .0991766 | .0546040 | .2049426 |
| Stddev | .0000479 | .0001499 | .022245 | .0003470 | .0002505 | .0012774 | .0012127 |
| %RSD | .4469102 | 1.486127 | .2325416 | 1.645877 | .2525712 | 2.339367 | .5917233 |
| #1 | .0107511 | .0100616 | 9.562983 | .0212046 | .0989740 | .0555078 | .2062243 |
| #2 | .0106650 | .0099470 | 9.589426 | .0213493 | .0990991 | .0531426 | .2047901 |
| #3 | .0107445 | .0102441 | 9.545220 | .0206892 | .0994567 | .0551616 | .2038134 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0287894 | 9.052803 | .0810290 | .0192393 | 10.33587 | .1036208 | .1458185 |
| Stddev | .0005060 | .011863 | .0003900 | .0001739 | .19370 | .0015249 | .0009028 |
| %RSD | 1.757640 | .1310399 | .4812627 | .9037652 | 1.874100 | 1.471606 | .6191514 |
| #1 | .0293445 | 9.039810 | .0808239 | .0194221 | 10.49184 | .1018964 | .1454174 |
| #2 | .0283539 | 9.055544 | .0807844 | .0190759 | 10.39673 | .1047914 | .1451857 |
| #3 | .0286697 | 9.063055 | .0814787 | .0192200 | 10.11905 | .1041745 | .1468524 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.734445 | .0183863 | -.001477 | .0188783 | .1766620 | 1.023878 | .0136433 |
| Stddev | .045755 | .0020978 | .000635 | .0006131 | .0026861 | .005991 | .0003519 |
| %RSD | .5238486 | 11.40942 | 42.96363 | 3.247803 | 1.520462 | .5851240 | 2.579320 |
| #1 | 8.716429 | .0159779 | -.000746 | .0195086 | .1795568 | 1.030712 | .0134543 |
| #2 | 8.786466 | .0193661 | -.001797 | .0182839 | .1742502 | 1.019530 | .0140494 |
| #3 | 8.700440 | .0198149 | -.001889 | .0188425 | .1761790 | 1.021393 | .0134264 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165884BS Acquired: 1/12/2025 4:23:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS884 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2050787 | .0270128 | .1868743 |
| Stddev | .0003484 | .0010421 | .0005252 |
| %RSD | .1699083 | 3.857901 | .2810340 |
| #1 | .2054789 | .0278129 | .1865222 |
| #2 | .2049143 | .0258343 | .1874780 |
| #3 | .2048429 | .0273912 | .1866229 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2406.530 | 56550.37 | 7794.570 | 2682.774 | 3316.414 |
| Stddev | 4.501 | 206.61 | 45.859 | 11.342 | 8.380 |
| %RSD | .1870431 | .3653620 | .5883422 | .4227835 | .2526734 |
| #1 | 2406.715 | 56326.88 | 7746.787 | 2670.605 | 3323.018 |
| #2 | 2410.935 | 56589.78 | 7838.225 | 2693.052 | 3319.237 |
| #3 | 2401.938 | 56734.43 | 7798.697 | 2684.665 | 3306.988 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BL Acquired: 1/12/2025 4:27:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS886 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000507** | **-.000802** | **-.000194** | **.0009710** | **.0000338** | **-.008620** | **.0007196** |
| Stddev | .0008262 | .000100 | .002208 | .0011715 | .0010550 | .007293 | .0008694 |
| %RSD | 1630.161 | 12.49609 | 1139.497 | 120.6465 | 3124.105 | 84.60479 | 120.8151 |
| #1 | -.000431 | -.000694 | .001306 | .0010943 | .0008841 | -.016882 | -.000233 |
| #2 | .001005 | -.000821 | -.002729 | .0020760 | .0003641 | -.005903 | .001471 |
| #3 | -.000421 | -.000891 | .000842 | -.000257 | -.001147 | -.003076 | .000921 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000042** | **-.000075** | **.0032524** | **-.000394** | **.0001682** | **-.001651** | **-.002060** |
| Stddev | .000054 | .000039 | .0032852 | .000198 | .0002498 | .000888 | .001740 |
| %RSD | 129.9144 | 51.74765 | 101.0073 | 50.09804 | 148.4889 | 53.78145 | 84.46553 |
| #1 | -.000046 | -.000119 | -.000396 | -.000616 | .0001907 | -.000903 | -.003984 |
| #2 | -.000093 | -.000052 | .004178 | -.000237 | -.000092 | -.002633 | -.000598 |
| #3 | .000014 | -.000053 | .005976 | -.000330 | .000406 | -.001419 | -.001597 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000366** | **.0088353** | **-.000268** | **.0002992** | **-.122921** | **-.001960** | **-.000233** |
| Stddev | .0008565 | .0136077 | .000285 | .0002687 | .249712 | .000794 | .000474 |
| %RSD | 2338.435 | 154.0140 | 106.2172 | 89.80538 | 203.1474 | 40.48808 | 203.1474 |
| #1 | .0004885 | .0212798 | -.000377 | .0004280 | -.073057 | -.001869 | -.000659 |
| #2 | .0005726 | -.005695 | -.000483 | .0004794 | .098096 | -.002796 | .000277 |
| #3 | -.000951 | .010921 | .000055 | -.000010 | -.393803 | -.001217 | -.000317 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1885785** | **-.002228** | **-.002867** | **-.000163** | **.0013291** | **.0061368** | **.0001015** |
| Stddev | .0459476 | .002703 | .000865 | .000167 | .0056442 | .0054467 | .0003142 |
| %RSD | 24.36524 | 121.2962 | 30.18302 | 102.1490 | 424.6517 | 88.75475 | 309.5814 |
| #1 | .1430275 | -.000875 | -.003731 | -.000350 | .0054881 | .0022046 | .0003859 |
| #2 | .1877953 | -.005341 | -.002872 | -.000114 | -.005096 | .0038520 | .0001542 |
| #3 | .2349127 | -.000469 | -.002000 | -.000027 | .003595 | .0123538 | -.000236 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BL Acquired: 1/12/2025 4:27:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS886 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000356 | .0010505 | -.000096 |
| Stddev | .000744 | .0017923 | .000017 |
| %RSD | 208.7933 | 170.6233 | 17.55475 |
| | | | |
| #1 | -.001214 | .0030406 | -.000078 |
| #2 | .000037 | -.000437 | -.000111 |
| #3 | .000108 | .000547 | -.000099 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2419.693 | 57805.80 | 7818.794 | 2724.778 | 3387.647 |
| Stddev | .647 | 301.24 | 25.167 | 9.795 | 5.901 |
| %RSD | .0267257 | .5211160 | .3218762 | .3594887 | .1741839 |
| | | | | | |
| #1 | 2419.226 | 58031.35 | 7809.112 | 2733.585 | 3382.042 |
| #2 | 2420.431 | 57463.70 | 7799.905 | 2714.229 | 3393.805 |
| #3 | 2419.421 | 57922.35 | 7847.363 | 2726.520 | 3387.094 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BS Acquired: 1/12/2025 4:32:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS886 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0191874** | **.0516563** | **.0188771** | **.0651678** | **.1035371** | **.3331847** | **.3446263** |
| Stddev | .0003739 | .0005180 | .0011970 | .0013937 | .0017461 | .0042312 | .0023306 |
| %RSD | 1.948863 | 1.002746 | 6.340914 | 2.138631 | 1.686478 | 1.269936 | .6762802 |
| #1 | .0195352 | .0515471 | .0175590 | .0637626 | .1053523 | .3345835 | .3437333 |
| #2 | .0187919 | .0512017 | .0191761 | .0651910 | .1018694 | .3284312 | .3428742 |
| #3 | .0192350 | .0522202 | .0198963 | .0665497 | .1033896 | .3365395 | .3472714 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0104666** | **.0100924** | **9.085559** | **.0202444** | **.0987139** | **.0510456** | **.1969504** |
| Stddev | .0001021 | .0000234 | .041526 | .0003884 | .0003165 | .0044468 | .0017046 |
| %RSD | .9754383 | .2321646 | .4570572 | 1.918781 | .3206214 | 8.711447 | .8655015 |
| #1 | .0104955 | .0100654 | 9.095407 | .0199493 | .0987673 | .0484463 | .1986972 |
| #2 | .0105511 | .0101050 | 9.039994 | .0200994 | .0983740 | .0561803 | .1952914 |
| #3 | .0103532 | .0101069 | 9.121276 | .0206844 | .0990002 | .0485104 | .1968625 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0267267** | **8.518964** | **.0801873** | **.0188602** | **10.09803** | **.1014198** | **.1393760** |
| Stddev | .0005352 | .063736 | .0000542 | .0003796 | .25098 | .0012907 | .0002347 |
| %RSD | 2.002554 | .7481678 | .0676075 | 2.012863 | 2.485397 | 1.272610 | .1684128 |
| #1 | .0272114 | 8.493890 | .0802294 | .0188917 | 10.37699 | .1027651 | .1391342 |
| #2 | .0268165 | 8.471578 | .0801262 | .0192231 | 9.89055 | .1001918 | .1393910 |
| #3 | .0261523 | 8.591424 | .0802064 | .0184658 | 10.02654 | .1013026 | .1396029 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.214432** | **.0183345** | **-.002129** | **.0184040** | **.1748579** | **1.004075** | **.0141026** |
| Stddev | .035316 | .0012496 | .001238 | .0003949 | .0042876 | .016459 | .0008565 |
| %RSD | .4299211 | 6.815531 | 58.11656 | 2.145655 | 2.452022 | 1.639256 | 6.073055 |
| #1 | 8.173712 | .0168929 | -.003424 | .0183851 | .1703439 | 1.017762 | .0132894 |
| #2 | 8.236698 | .0191084 | -.000958 | .0188080 | .1788759 | 1.008650 | .0149966 |
| #3 | 8.232885 | .0190022 | -.002007 | .0180189 | .1753538 | .985812 | .0140218 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: PB165886BS Acquired: 1/12/2025 4:32:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS886 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2026683 | .0248112 | .1786366 |
| Stddev | .0009143 | .0009773 | .0011308 |
| %RSD | .4511296 | 3.938914 | .6330310 |
| #1 | .2016488 | .0244779 | .1787150 |
| #2 | .2029403 | .0240442 | .1774686 |
| #3 | .2034157 | .0259116 | .1797261 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2430.986 | 60210.16 | 7966.038 | 2795.828 | 3338.059 |
| Stddev | 4.495 | 351.20 | 32.627 | 5.755 | 6.679 |
| %RSD | .1849012 | .5832921 | .4095713 | .2058473 | .2000825 |
| #1 | 2428.139 | 59941.89 | 7933.082 | 2793.094 | 3331.501 |
| #2 | 2436.168 | 60607.67 | 7966.707 | 2791.950 | 3344.853 |
| #3 | 2428.650 | 60080.93 | 7998.325 | 2802.441 | 3337.822 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-01 Acquired: 1/12/2025 4:36:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0951620 | -.002805 | 2.039248 | .0284743 | -.003063 | 51.97962 |
| Stddev | .0029465 | .001537 | .004739 | .0009212 | .001535 | .09070 |
| %RSD | 3.096276 | 54.80519 | .2323747 | 3.235378 | 50.11472 | .1744847 |
| #1 | .0962575 | -.001112 | 2.037338 | .0279482 | -.002124 | 52.00795 |
| #2 | .0974037 | -.003188 | 2.035762 | .0279367 | -.004835 | 51.87815 |
| #3 | .0918246 | -.004115 | 2.044643 | .0295381 | -.002231 | 52.05278 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.032975 | .0043279 | .0089027 | 33.61431 | .1633899 | .0824045 |
| Stddev | .001372 | .0001387 | .0000172 | .05453 | .0005967 | .0003016 |
| %RSD | .1327766 | 3.203911 | .1932291 | .1622147 | .3651781 | .3660510 |
| #1 | 1.034060 | .0044802 | .0088905 | 33.67349 | .1639834 | .0820721 |
| #2 | 1.031433 | .0042090 | .0089224 | 33.60336 | .1627901 | .0824805 |
| #3 | 1.033431 | .0042945 | .0088952 | 33.56610 | .1633963 | .0826609 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3352739 | 135.1416 | 7.771892 | 14.60409 | .1885883 | -.011306 |
| Stddev | .0021861 | .1459 | .011165 | .01161 | .0005060 | .000133 |
| %RSD | .6520320 | .1079286 | .1436590 | .0794851 | .2682834 | 1.180030 |
| #1 | .3331719 | 135.2338 | 7.782195 | 14.61453 | .1886878 | -.011282 |
| #2 | .3375354 | 134.9734 | 7.760029 | 14.59159 | .1880400 | -.011186 |
| #3 | .3351144 | 135.2175 | 7.773451 | 14.60614 | .1890371 | -.011450 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4119779 | .1384164 | 1.413491 | 7.090593 | F 12.36566 | .5687967 |
| Stddev | .0279883 | .0010228 | .002403 | .035341 | .01854 | .0015509 |
| %RSD | 6.793650 | .7389269 | .1699706 | .4984163 | .1499647 | .2726726 |
| #1 | .4022797 | .1395448 | 1.413341 | 7.082485 | 12.37200 | .5694741 |
| #2 | .4435254 | .1375503 | 1.415964 | 7.129282 | 12.34478 | .5670223 |
| #3 | .3901285 | .1381541 | 1.411166 | 7.060010 | 12.38021 | .5698938 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-01 Acquired: 1/12/2025 4:36:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0087750 | 3.535403 | 8.775971 | .0855124 | .6512521 | .0636237 |
| Stddev | .0001996 | .007653 | .015478 | .0013038 | .0019581 | .0007462 |
| %RSD | 2.274814 | .2164723 | .1763641 | 1.524707 | .3006694 | 1.172751 |
| #1 | .0085801 | 3.540988 | 8.776725 | .0860886 | .6525253 | .0644558 |
| #2 | .0087659 | 3.526680 | 8.791058 | .0864289 | .6522337 | .0630144 |
| #3 | .0089790 | 3.538542 | 8.760130 | .0840198 | .6489974 | .0634007 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1159995 |
| Stddev | .0001644 |
| %RSD | .1417026 |
| #1 | .1161742 |
| #2 | .1158479 |
| #3 | .1159764 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2950.684 | 72918.43 | 10117.49 | 3374.811 | 3329.628 |
| Stddev | 1.376 | 232.47 | 12.05 | 1.392 | 6.210 |
| %RSD | .0466248 | .3188126 | .1190669 | .0412432 | .1865151 |
| #1 | 2951.116 | 72895.13 | 10105.57 | 3376.204 | 3335.722 |
| #2 | 2949.144 | 73161.67 | 10129.66 | 3374.809 | 3329.856 |
| #3 | 2951.792 | 72698.48 | 10117.25 | 3373.421 | 3323.307 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-02 Acquired: 1/12/2025 4:40:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1454008** | **-.002120** | **2.638060** | **.0304323** | **-.000725** | **57.87144** |
| Stddev | .0012486 | .000676 | .007788 | .0003906 | .002138 | .08784 |
| %RSD | .8587058 | 31.90751 | .2952341 | 1.283497 | 295.0382 | .1517883 |
| #1 | .1441383 | -.002742 | 2.631759 | .0307094 | -.003172 | 57.96790 |
| #2 | .1454293 | -.001400 | 2.635654 | .0299856 | .000219 | 57.85037 |
| #3 | .1466349 | -.002217 | 2.646768 | .0306020 | .000779 | 57.79604 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.116543** | **.0047158** | **.0079521** | **21.94041** | **.1525719** | **.0909470** |
| Stddev | .004356 | .0000733 | .0000602 | .06554 | .0007911 | .0002863 |
| %RSD | .3901663 | 1.553515 | .7570643 | .2987389 | .5184927 | .3148442 |
| #1 | 1.121137 | .0046313 | .0079213 | 21.97183 | .1522468 | .0908010 |
| #2 | 1.116021 | .0047620 | .0079135 | 21.98434 | .1534737 | .0907630 |
| #3 | 1.112471 | .0047540 | .0080214 | 21.86508 | .1519952 | .0912769 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3693014** | **141.8235** | **8.214148** | **15.08403** | **.1798703** | **-.011423** |
| Stddev | .0010032 | .3783 | .028412 | .06034 | .0004649 | .000159 |
| %RSD | .2716581 | .2667164 | .3458948 | .4000284 | .2584677 | 1.395296 |
| #1 | .3683617 | 142.1514 | 8.241995 | 15.13997 | .1801917 | -.011579 |
| #2 | .3703579 | 141.9094 | 8.215246 | 15.09203 | .1800820 | -.011430 |
| #3 | .3691844 | 141.4097 | 8.185202 | 15.02009 | .1793372 | -.011260 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4923864** | **.1502817** | **1.382172** | **7.477286** | F **11.52152** | **.5979603** |
| Stddev | .0821432 | .0023810 | .001872 | .019236 | .01423 | .0023897 |
| %RSD | 16.68268 | 1.584376 | .1354376 | .2572596 | .1234816 | .3996348 |
| #1 | .5872156 | .1499941 | 1.383610 | 7.498565 | 11.51236 | .6005675 |
| #2 | .4467223 | .1480576 | 1.380056 | 7.461130 | 11.51430 | .5974392 |
| #3 | .4432212 | .1527935 | 1.382851 | 7.472162 | 11.53791 | .5958743 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-02 Acquired: 1/12/2025 4:40:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0076213 | 2.201451 | 9.519196 | .0949627 | .6947875 | .0710247 |
| Stddev | .0002271 | .005541 | .022210 | .0008348 | .0016000 | .0002284 |
| %RSD | 2.979833 | .2516875 | .2333137 | .8791232 | .2302829 | .3215843 |
| #1 | .0075945 | 2.196068 | 9.500509 | .0947107 | .6929402 | .0712857 |
| #2 | .0074089 | 2.201147 | 9.543750 | .0942829 | .6956894 | .0709272 |
| #3 | .0078607 | 2.207137 | 9.513329 | .0958945 | .6957330 | .0708612 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0921087 |
| Stddev | .0002060 |
| %RSD | .2236491 |
| #1 | .0923367 |
| #2 | .0920534 |
| #3 | .0919360 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3020.566 | 71208.87 | 10123.56 | 3300.866 | 3420.076 |
| Stddev | 1.629 | 303.57 | 67.35 | 5.017 | 3.202 |
| %RSD | .0539197 | .4263099 | .6652454 | .1519802 | .0936253 |
| #1 | 3022.247 | 71497.29 | 10199.99 | 3305.919 | 3420.437 |
| #2 | 3020.455 | 70892.13 | 10072.91 | 3295.886 | 3423.083 |
| #3 | 3018.996 | 71237.20 | 10097.78 | 3300.793 | 3416.709 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-03 Acquired: 1/12/2025 4:43:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1788249** | **-.002478** | **2.784386** | **.0339351** | **-.003335** | **69.00600** |
| Stddev | .0037340 | .000727 | .005988 | .0030492 | .001012 | .40132 |
| %RSD | 2.088077 | 29.34340 | .2150697 | 8.985444 | 30.33270 | .5815795 |
| #1 | .1774925 | -.002102 | 2.781247 | .0354244 | -.002620 | 69.45372 |
| #2 | .1759398 | -.003317 | 2.780620 | .0304274 | -.002893 | 68.67859 |
| #3 | .1830423 | -.002016 | 2.791291 | .0359534 | -.004492 | 68.88570 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.605718** | **.0055311** | **.0098230** | **27.62054** | **.1461557** | **.1063833** |
| Stddev | .009080 | .0001846 | .0000929 | .13211 | .0002836 | .0003400 |
| %RSD | .5654819 | 3.337066 | .9457933 | .4782869 | .1940536 | .3195859 |
| #1 | 1.615935 | .0053196 | .0098554 | 27.77093 | .1458298 | .1060320 |
| #2 | 1.598571 | .0056137 | .0098954 | 27.52323 | .1462903 | .1067107 |
| #3 | 1.602648 | .0056600 | .0097182 | 27.56746 | .1463468 | .1064074 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4713651** | **166.8953** | **9.775082** | **16.16847** | **.1893932** | **-.013445** |
| Stddev | .0010300 | .9009 | .043348 | .06839 | .0008470 | .000264 |
| %RSD | .2185104 | .5398031 | .4434500 | .4230138 | .4472011 | 1.964697 |
| #1 | .4701761 | 167.8749 | 9.823138 | 16.22727 | .1886476 | -.013158 |
| #2 | .4719837 | 166.1024 | 9.738931 | 16.09341 | .1892179 | -.013678 |
| #3 | .4719355 | 166.7087 | 9.763177 | 16.18473 | .1903141 | -.013501 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1872314** | **.1737399** | **1.634667** | **7.931486** | F **13.33521** | **.7016687** |
| Stddev | .2256725 | .0021571 | .002450 | .090605 | .00531 | .0036696 |
| %RSD | 120.5313 | 1.241585 | .1498675 | 1.142349 | .0398430 | .5229853 |
| #1 | -.065704 | .1762284 | 1.631987 | 8.032739 | 13.33444 | .7053596 |
| #2 | .367975 | .1725902 | 1.636792 | 7.903667 | 13.34086 | .6980207 |
| #3 | .259423 | .1724012 | 1.635222 | 7.858053 | 13.33032 | .7016259 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-03 Acquired: 1/12/2025 4:43:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0063570 | 1.806905 | 9.422586 | .0849085 | .6900824 | .0825020 |
| Stddev | .0001599 | .003007 | .004738 | .0009464 | .0025756 | .0007391 |
| %RSD | 2.515948 | .1664152 | .0502878 | 1.114631 | .3732292 | .8958109 |
| #1 | .0064903 | 1.806087 | 9.421518 | .0838309 | .6873650 | .0825001 |
| #2 | .0064011 | 1.810236 | 9.418472 | .0852899 | .6924878 | .0832420 |
| #3 | .0061796 | 1.804391 | 9.427767 | .0856047 | .6903943 | .0817638 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1476487 |
| Stddev | .0011497 |
| %RSD | .7786767 |
| #1 | .1489062 |
| #2 | .1466514 |
| #3 | .1473885 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3075.937 | 72207.15 | 10431.54 | 3376.757 | 3354.679 |
| Stddev | 6.782 | 235.79 | 56.84 | 7.171 | 7.024 |
| %RSD | .2204888 | .3265399 | .5449268 | .2123700 | .2093779 |
| #1 | 3081.297 | 72149.90 | 10496.96 | 3382.045 | 3355.779 |
| #2 | 3078.201 | 72466.29 | 10403.48 | 3368.594 | 3361.089 |
| #3 | 3068.313 | 72005.27 | 10394.18 | 3379.631 | 3347.171 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-04 Acquired: 1/12/2025 4:47:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1143461** | **-.003122** | **.9848832** | **.0294790** | **-.003183** | **59.24212** | **.8454250** |
| Stddev | .0006662 | .000588 | .0087507 | .0022064 | .000200 | .40901 | .0038970 |
| %RSD | .5826167 | 18.84734 | .8884979 | 7.484770 | 6.273443 | .6904086 | .4609542 |
| #1 | .1145513 | -.002469 | .9904041 | .0277463 | -.003373 | 59.71207 | .8490199 |
| #2 | .1148856 | -.003612 | .9747938 | .0287277 | -.002975 | 59.04781 | .8459714 |
| #3 | .1136015 | -.003285 | .9894518 | .0319629 | -.003201 | 58.96649 | .8412835 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0042822** | **.0075367** | **20.41448** | **.1132757** | **.0960106** | **.3202888** | **153.7293** |
| Stddev | .0000688 | .0001989 | .13610 | .0005483 | .0009875 | .0011257 | 1.0052 |
| %RSD | 1.607457 | 2.638497 | .6666920 | .4840396 | 1.028497 | .3514709 | .6538614 |
| #1 | .0042692 | .0074927 | 20.55197 | .1133676 | .0960511 | .3191252 | 154.8559 |
| #2 | .0042208 | .0073635 | 20.41166 | .1126873 | .0950035 | .3203689 | 153.4081 |
| #3 | .0043566 | .0077539 | 20.27981 | .1137723 | .0969772 | .3213723 | 152.9240 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.272357** | **16.25250** | **.1713660** | **-.013485** | **.4985784** | **.1518855** | **.8635592** |
| Stddev | .049107 | .11948 | .0011864 | .000589 | .1330359 | .0008035 | .0050112 |
| %RSD | .5936241 | .7351775 | .6923124 | 4.367673 | 26.68304 | .5290474 | .5802959 |
| #1 | 8.326411 | 16.37597 | .1715073 | -.013328 | .5593791 | .1527827 | .8689666 |
| #2 | 8.260165 | 16.24410 | .1701153 | -.012990 | .5903500 | .1516418 | .8626392 |
| #3 | 8.230495 | 16.13744 | .1724754 | -.014136 | .3460060 | .1512320 | .8590717 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.628028** | **8.234048** | **.6418424** | **.0046797** | **1.000504** | **7.981632** | **.0395456** |
| Stddev | .097355 | .059830 | .0053040 | .0001413 | .006322 | .029244 | .0009749 |
| %RSD | 2.103587 | .7266160 | .8263650 | 3.019096 | .6318829 | .3663896 | 2.465163 |
| #1 | 4.736923 | 8.240221 | .6477120 | .0045251 | .999623 | 7.949904 | .0395611 |
| #2 | 4.549407 | 8.171371 | .6404217 | .0048021 | .994669 | 7.987486 | .0385631 |
| #3 | 4.597756 | 8.290552 | .6373934 | .0047120 | 1.007221 | 8.007506 | .0405126 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-04 Acquired: 1/12/2025 4:47:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ5 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5430335 | .0679564 | .0985938 |
| Stddev | .0006303 | .0009630 | .0006639 |
| %RSD | .1160716 | 1.417076 | .6733503 |
| #1 | .5428455 | .0689361 | .0993518 |
| #2 | .5437364 | .0679220 | .0983134 |
| #3 | .5425185 | .0670110 | .0981160 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3258.775 | 77988.71 | 11130.41 | 3638.462 | 3395.874 |
| Stddev | 12.555 | 392.71 | 60.24 | 31.278 | 25.412 |
| %RSD | .3852701 | .5035412 | .5412249 | .8596414 | .7483155 |
| #1 | 3258.395 | 77575.32 | 11184.32 | 3604.704 | 3391.369 |
| #2 | 3271.516 | 78356.80 | 11141.52 | 3644.225 | 3423.238 |
| #3 | 3246.414 | 78033.99 | 11065.39 | 3666.458 | 3373.017 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-05 Acquired: 1/12/2025 4:51:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1290188** | **-.008207** | **.7737902** | **.0372022** | **-.004697** | **81.86606** |
| Stddev | .0016742 | .002057 | .0044287 | .0010915 | .000373 | .51923 |
| %RSD | 1.297630 | 25.06095 | .5723386 | 2.934056 | 7.950338 | .6342375 |
| #1 | .1289006 | -.007852 | .7753241 | .0383588 | -.005128 | 81.26652 |
| #2 | .1307490 | -.010418 | .7772480 | .0370578 | -.004497 | 82.16844 |
| #3 | .1274069 | -.006351 | .7687985 | .0361901 | -.004466 | 82.16324 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.001117** | **.0058225** | **.0118228** | **27.55908** | **.1411149** | **.1532694** |
| Stddev | .007313 | .0001380 | .0000302 | .12832 | .0005588 | .0003676 |
| %RSD | .7305087 | 2.369999 | .2550184 | .4656125 | .3959697 | .2398222 |
| #1 | .992924 | .0059813 | .0117882 | 27.41101 | .1416786 | .1534390 |
| #2 | 1.003441 | .0057324 | .0118426 | 27.63788 | .1405612 | .1528477 |
| #3 | 1.006986 | .0057536 | .0118378 | 27.62835 | .1411049 | .1535215 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5050400** | **203.1957** | **11.42019** | **22.42624** | **.2739179** | **-.018186** |
| Stddev | .0040917 | .9770 | .05381 | .10130 | .0005516 | .000247 |
| %RSD | .8101764 | .4808028 | .4711970 | .4516923 | .2013593 | 1.359001 |
| #1 | .5024034 | 202.0712 | 11.36000 | 22.31538 | .2733119 | -.018472 |
| #2 | .5029630 | 203.8362 | 11.43693 | 22.51398 | .2743906 | -.018047 |
| #3 | .5097536 | 203.6796 | 11.46364 | 22.44935 | .2740511 | -.018040 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6045811** | **.1819205** | **.8783078** | **6.385189** | F **11.42156** | **.8559361** |
| Stddev | .1044766 | .0014047 | .0044918 | .045698 | .05067 | .0051728 |
| %RSD | 17.28083 | .7721735 | .5114100 | .7156911 | .4436348 | .6043383 |
| #1 | .5889202 | .1817490 | .8830293 | 6.332695 | 11.44751 | .8499755 |
| #2 | .5088190 | .1806094 | .8778061 | 6.416086 | 11.45400 | .8592488 |
| #3 | .7160041 | .1834031 | .8740879 | 6.406785 | 11.36317 | .8585840 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-05 Acquired: 1/12/2025 4:51:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0065357 | 1.429636 | 8.041113 | .0268961 | .6533413 | .0936033 |
| Stddev | .0002408 | .004504 | .039112 | .0009376 | .0032664 | .0009472 |
| %RSD | 3.685047 | .3150195 | .4863984 | 3.485853 | .4999570 | 1.011961 |
| #1 | .0068137 | 1.434278 | 8.048964 | .0278380 | .6507767 | .0933165 |
| #2 | .0064018 | 1.429345 | 7.998672 | .0268875 | .6522285 | .0946607 |
| #3 | .0063915 | 1.425284 | 8.075705 | .0259629 | .6570187 | .0928326 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1213503 |
| Stddev | .0009618 |
| %RSD | .7926004 |
| #1 | .1202433 |
| #2 | .1219813 |
| #3 | .1218264 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3811.965 | 89868.47 | 13032.63 | 4223.855 | 3266.585 |
| Stddev | 3.352 | 123.32 | 97.05 | 16.964 | 8.543 |
| %RSD | .0879351 | .1372224 | .7446709 | .4016312 | .2615318 |
| #1 | 3808.585 | 89732.54 | 12935.18 | 4209.709 | 3262.026 |
| #2 | 3812.022 | 89973.18 | 13129.28 | 4219.193 | 3261.289 |
| #3 | 3815.288 | 89899.69 | 13033.45 | 4242.663 | 3276.441 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-06 Acquired: 1/12/2025 4:55:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0673937** | **-.005318** | **.3140346** | **.0133833** | **-.001650** | **48.90224** |
| Stddev | .0024986 | .000630 | .0015654 | .0021712 | .001682 | .22753 |
| %RSD | 3.707470 | 11.84329 | .4984705 | 16.22317 | 101.9367 | .4652819 |
| #1 | .0649422 | -.006037 | .3138585 | .0109057 | -.000061 | 48.88133 |
| #2 | .0673020 | -.004864 | .3156805 | .0149541 | -.003412 | 48.68589 |
| #3 | .0699368 | -.005052 | .3125647 | .0142901 | -.001477 | 49.13951 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4827220** | **.0036797** | **.0059914** | **707.8836** | **.0816960** | **.0803410** |
| Stddev | .0023419 | .0000798 | .0000931 | 4.7249 | .0002695 | .0004099 |
| %RSD | .4851473 | 2.167750 | 1.553866 | .6674623 | .3298532 | .5102014 |
| #1 | .4825033 | .0036041 | .0060971 | 702.7397 | .0820066 | .0808105 |
| #2 | .4804971 | .0037631 | .0059554 | 712.0302 | .0815246 | .0800541 |
| #3 | .4851656 | .0036720 | .0059217 | 708.8809 | .0815568 | .0801586 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3850789** | **128.2087** | **7.501688** | **51.73911** | **.1564267** | **-.012292** |
| Stddev | .0007985 | .6562 | .040333 | .17875 | .0003501 | .000004 |
| %RSD | .2073582 | .5117919 | .5376465 | .3454797 | .2238317 | .0346967 |
| #1 | .3850124 | 128.1618 | 7.495909 | 51.71096 | .1562773 | -.012289 |
| #2 | .3859086 | 127.5772 | 7.464557 | 51.57610 | .1561761 | -.012289 |
| #3 | .3843157 | 128.8870 | 7.544599 | 51.93026 | .1568268 | -.012297 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7168997** | **.0977103** | **.5206952** | **6.919827** | F **14.43744** | **.5717925** |
| Stddev | .0860052 | .0015433 | .0019130 | .006878 | .02775 | .0035704 |
| %RSD | 11.99683 | 1.579426 | .3673972 | .0994014 | .1922105 | .6244282 |
| #1 | .8115229 | .0992742 | .5210611 | 6.921801 | 14.46641 | .5718680 |
| #2 | .6434779 | .0976683 | .5186256 | 6.912177 | 14.43482 | .5681848 |
| #3 | .6956984 | .0961885 | .5223988 | 6.925502 | 14.41109 | .5753245 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-06 Acquired: 1/12/2025 4:55:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0030172 | 1.226113 | 7.192391 | .0070373 | .3802682 | .0992428 |
| Stddev | .0002621 | .005690 | .006167 | .0004300 | .0008457 | .0013509 |
| %RSD | 8.687975 | .4640797 | .0857404 | 6.110337 | .2224061 | 1.361246 |
| #1 | .0029330 | 1.220948 | 7.191916 | .0065408 | .3793958 | .0986842 |
| #2 | .0033111 | 1.225179 | 7.198782 | .0072805 | .3810845 | .0982607 |
| #3 | .0028075 | 1.232213 | 7.186476 | .0072907 | .3803244 | .1007834 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .6789303 |
| Stddev | .0034420 |
| %RSD | .5069715 |
| #1 | .6785501 |
| #2 | .6756942 |
| #3 | .6825466 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2963.836 | 69492.23 | 10590.02 | 3236.132 | 2873.696 |
| Stddev | .389 | 252.05 | 71.78 | 12.355 | 9.135 |
| %RSD | .0131235 | .3627058 | .6778216 | .3817748 | .3178885 |
| #1 | 2963.482 | 69773.93 | 10624.30 | 3248.721 | 2866.955 |
| #2 | 2963.773 | 69414.75 | 10507.52 | 3235.651 | 2884.093 |
| #3 | 2964.252 | 69288.02 | 10638.23 | 3224.025 | 2870.041 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV002 Acquired: 1/12/2025 4:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.722824** | **4.812867** | **24.30055** | **4.765018** | **4.687995** | **396.2797** |
| Stddev | .001471 | .023600 | .03952 | .014604 | .009458 | 3.3465 |
| %RSD | .0311509 | .4903495 | .1626438 | .3064942 | .2017407 | .8444737 |
| #1 | 4.722955 | 4.792295 | 24.28803 | 4.748855 | 4.678322 | 392.7756 |
| #2 | 4.721292 | 4.807675 | 24.26880 | 4.768935 | 4.688442 | 396.6211 |
| #3 | 4.724226 | 4.838630 | 24.34482 | 4.777265 | 4.697221 | 399.4423 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.15897** | **.4904563** | **2.451529** | **397.1702** | **15.31073** | **2.459332** |
| Stddev | .03489 | .0019002 | .005624 | 2.3676 | .04188 | .003203 |
| %RSD | .3434674 | .3874385 | .2293944 | .5961258 | .2735483 | .1302282 |
| #1 | 10.19721 | .4885792 | 2.448885 | 395.3203 | 15.31013 | 2.458197 |
| #2 | 10.15081 | .4923788 | 2.447714 | 399.8384 | 15.26915 | 2.456851 |
| #3 | 10.12887 | .4904110 | 2.457987 | 396.3518 | 15.35291 | 2.462948 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.74748** | **394.1474** | **15.11365** | **246.6393** | **2.458409** | **1.233723** |
| Stddev | .01615 | 2.2446 | .09325 | 1.1898 | .004577 | .000725 |
| %RSD | .1094995 | .5694855 | .6169824 | .4824034 | .1861851 | .0587993 |
| #1 | 14.75188 | 394.6876 | 15.13728 | 246.7368 | 2.454648 | 1.234010 |
| #2 | 14.72958 | 391.6819 | 15.01086 | 245.4037 | 2.457074 | 1.232899 |
| #3 | 14.76096 | 396.0726 | 15.19281 | 247.7773 | 2.463505 | 1.234262 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **400.0154** | **2.423414** | **15.81770** | **152.5129** | **4.920317** | F **5.879648** |
| Stddev | 1.4598 | .002802 | .02943 | 1.0128 | .013950 | .008467 |
| %RSD | .3649329 | .1156376 | .1860497 | .6640522 | .2835221 | .1440069 |
| #1 | 399.4855 | 2.420498 | 15.80036 | 152.7721 | 4.905481 | 5.870106 |
| #2 | 398.8946 | 2.423659 | 15.80107 | 151.3957 | 4.922302 | 5.882572 |
| #3 | 401.6662 | 2.426087 | 15.85168 | 153.3709 | 4.933169 | 5.886266 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV002 Acquired: 1/12/2025 4:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.689056** | **4.935176** | **4.865181** | **4.886488** | **4.913741** | **5.027312** |
| Stddev | .003957 | .011878 | .006386 | .013742 | .010033 | .035110 |
| %RSD | .0843950 | .2406814 | .1312694 | .2812316 | .2041918 | .6983758 |
| #1 | 4.685020 | 4.924464 | 4.864696 | 4.876317 | 4.914952 | 5.035576 |
| #2 | 4.689219 | 4.933114 | 4.859051 | 4.881025 | 4.903156 | 4.988808 |
| #3 | 4.692930 | 4.947950 | 4.871796 | 4.902122 | 4.923113 | 5.057553 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **5.046820** |
| Stddev | .039773 |
| %RSD | .7880852 |
| #1 | 5.092284 |
| #2 | 5.018458 |
| #3 | 5.029718 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1977.297** | **49930.27** | **7726.869** | **2325.322** | **2670.757** |
| Stddev | 2.868 | 141.17 | 13.613 | 3.196 | 5.874 |
| %RSD | .1450697 | .2827412 | .1761766 | .1374464 | .2199436 |
| #1 | 1974.790 | 49880.74 | 7731.630 | 2328.023 | 2667.986 |
| #2 | 1980.425 | 50089.53 | 7711.516 | 2326.149 | 2677.504 |
| #3 | 1976.675 | 49820.54 | 7737.463 | 2321.794 | 2666.781 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB002 Acquired: 1/12/2025 5:04:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000691** | **-.000511** | **.0013489** | **.0022849** | **.0010374** | **.0090613** | **.0005299** |
| Stddev | .000922 | .000927 | .0005899 | .0034267 | .0006315 | .0056681 | .0002912 |
| %RSD | 133.4870 | 181.4215 | 43.73245 | 149.9749 | 60.86899 | 62.55286 | 54.95795 |
| #1 | .000134 | .000469 | .0006683 | .0061872 | .0013655 | .0038919 | .0007658 |
| #2 | -.000520 | -.000629 | .0016660 | -.000233 | .0003095 | .0081697 | .0006194 |
| #3 | -.001687 | -.001374 | .0017125 | .000900 | .0014374 | .0151225 | .0002044 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000025** | **.0000730** | **.0184441** | **.0004805** | **.0002058** | **-.001495** | **.0201567** |
| Stddev | .000005 | .0000539 | .0038852 | .0001200 | .0000416 | .001990 | .0077440 |
| %RSD | 18.42944 | 73.86016 | 21.06499 | 24.98280 | 20.19986 | 133.0898 | 38.41899 |
| #1 | -.000030 | .0000128 | .0183565 | .0006191 | .0001586 | -.002531 | .0112356 |
| #2 | -.000025 | .0000893 | .0146034 | .0004133 | .0002218 | -.002754 | .0240885 |
| #3 | -.000020 | .0001168 | .0223724 | .0004091 | .0002370 | .000799 | .0251460 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006677** | **.0174809** | **-.000244** | **-.000032** | **-.088927** | **-.001422** | **.0006670** |
| Stddev | .0001993 | .0167284 | .000274 | .000285 | .157375 | .000497 | .0003053 |
| %RSD | 29.84388 | 95.69539 | 112.2694 | 888.4834 | 176.9704 | 34.97954 | 45.76842 |
| #1 | .0006172 | .0170344 | -.000280 | .000233 | -.073214 | -.001990 | .0006117 |
| #2 | .0004985 | .0009802 | .000046 | .000004 | .060001 | -.001064 | .0003932 |
| #3 | .0008873 | .0344280 | -.000499 | -.000334 | -.253569 | -.001212 | .0009962 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1510292** | **-.000142** | **.0024471** | **.0003409** | **.0007385** | **-.000503** | **.0002449** |
| Stddev | .0316925 | .001260 | .0010244 | .0000965 | .0013991 | .003922 | .0001813 |
| %RSD | 20.98436 | 889.2906 | 41.86223 | 28.32168 | 189.4461 | 779.7867 | 74.01533 |
| #1 | .1152257 | -.001529 | .0035849 | .0004511 | .0019786 | .001766 | .0001688 |
| #2 | .1623737 | .000171 | .0021580 | .0003005 | -.000778 | .001757 | .0001141 |
| #3 | .1754882 | .000933 | .0015982 | .0002711 | .001015 | -.005032 | .0004519 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB002 Acquired: 1/12/2025 5:04:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB002 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0000954 | .0002228 | .0000806 |
| Stddev | .0003663 | .0005157 | .0000424 |
| %RSD | 383.9685 | 231.4696 | 52.53446 |
| #1 | -.000019 | -.000127 | .0000369 |
| #2 | -.000200 | -.000020 | .0000835 |
| #3 | .000505 | .000815 | .0001215 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2507.540 | 59062.69 | 7998.023 | 2767.535 | 3567.258 |
| Stddev | 8.239 | 36.35 | 16.170 | 5.257 | 14.447 |
| %RSD | .3285804 | .0615474 | .2021760 | .1899626 | .4049842 |
| #1 | 2506.822 | 59074.54 | 8016.474 | 2763.381 | 3575.333 |
| #2 | 2516.115 | 59091.64 | 7991.280 | 2773.446 | 3575.861 |
| #3 | 2499.683 | 59021.90 | 7986.316 | 2765.778 | 3550.579 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07 Acquired: 1/12/2025 5:08:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0571522** | **-.008252** | **.2359815** | **.0018400** | **-.000220** | **41.36944** |
| Stddev | .0005378 | .001475 | .0019883 | .0025412 | .000867 | .18088 |
| %RSD | .9409212 | 17.87701 | .8425624 | 138.1127 | 393.9766 | .4372392 |
| #1 | .0566257 | -.009477 | .2351520 | -.000936 | -.000126 | 41.18421 |
| #2 | .0571304 | -.006614 | .2382502 | .002405 | -.001130 | 41.54563 |
| #3 | .0577006 | -.008665 | .2345423 | .004051 | .000596 | 41.37849 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3571252** | **.0032522** | **.0058435** | F **1048.593** | **.0648756** | **.0669572** |
| Stddev | .0029329 | .0000660 | .0001042 | 9.871 | .0004879 | .0004772 |
| %RSD | .8212406 | 2.028402 | 1.783509 | .9413166 | .7520421 | .7126726 |
| #1 | .3538012 | .0033113 | .0057302 | 1040.457 | .0652286 | .0667225 |
| #2 | .3593485 | .0031810 | .0058649 | 1059.574 | .0643188 | .0666429 |
| #3 | .3582257 | .0032643 | .0059353 | 1045.748 | .0650793 | .0675063 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2938096** | **105.2752** | **9.250448** | **137.5199** | **.1380674** | **-.010713** |
| Stddev | .0033011 | .5766 | .048651 | .7766 | .0003948 | .000436 |
| %RSD | 1.123562 | .5477358 | .5259311 | .5647506 | .2859197 | 4.074276 |
| #1 | .2935135 | 104.7001 | 9.200433 | 136.7584 | .1384723 | -.011073 |
| #2 | .2972489 | 105.8533 | 9.297609 | 138.3108 | .1380461 | -.010228 |
| #3 | .2906665 | 105.2721 | 9.253302 | 137.4904 | .1376837 | -.010839 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.317138** | **.0831407** | **.4690222** | **6.289703** | F **31.41101** | **.4746407** |
| Stddev | .200761 | .0006876 | .0003769 | .021544 | .01987 | .0033385 |
| %RSD | 15.24223 | .8270564 | .0803555 | .3425256 | .0632470 | .7033660 |
| #1 | 1.433879 | .0830671 | .4694551 | 6.284311 | 31.39713 | .4715818 |
| #2 | 1.085321 | .0838622 | .4687672 | 6.313430 | 31.40213 | .4782018 |
| #3 | 1.432214 | .0824929 | .4688443 | 6.271366 | 31.43377 | .4741384 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07 Acquired: 1/12/2025 5:08:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0029847 | 1.759608 | 5.458402 | .0057047 | .4035695 | .0984377 |
| Stddev | .0002522 | .006099 | .001684 | .0003701 | .0016285 | .0015251 |
| %RSD | 8.448777 | .3466225 | .0308444 | 6.487384 | .4035280 | 1.549295 |
| #1 | .0027810 | 1.764449 | 5.459869 | .0053394 | .4030102 | .0970117 |
| #2 | .0032668 | 1.752758 | 5.456564 | .0056955 | .4054040 | .0982558 |
| #3 | .0029064 | 1.761618 | 5.458773 | .0060794 | .4022944 | .1000455 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .9351711 |
| Stddev | .0053653 |
| %RSD | .5737196 |
| #1 | .9293422 |
| #2 | .9399032 |
| #3 | .9362680 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3010.336 | 73347.85 | 11040.68 | 3385.382 | 2673.851 |
| Stddev | 2.496 | 218.93 | 41.95 | 1.885 | 4.712 |
| %RSD | .0829214 | .2984832 | .3799486 | .0556825 | .1762313 |
| #1 | 3007.455 | 73513.19 | 10996.53 | 3383.335 | 2669.286 |
| #2 | 3011.847 | 73099.57 | 11045.49 | 3385.764 | 2673.571 |
| #3 | 3011.707 | 73430.79 | 11080.01 | 3387.046 | 2678.698 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-08 Acquired: 1/12/2025 5:12:23 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN75 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0588870 | -.002072 | 1.491898 | .0245013 | .0002513 | 45.94561 | .8757355 |
| Stddev | .0006115 | .001146 | .000964 | .0031243 | .0013774 | .41015 | .0060360 |
| %RSD | 1.038338 | 55.29187 | .0645954 | 12.75169 | 548.0066 | .8926870 | .6892508 |
| #1 | .0588424 | -.000795 | 1.490828 | .0251795 | -.000906 | 45.85371 | .8750915 |
| #2 | .0595195 | -.002409 | 1.492170 | .0210935 | -.000114 | 45.58921 | .8700473 |
| #3 | .0582991 | -.003011 | 1.492697 | .0272308 | .001775 | 46.39392 | .8820677 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0035752 | .0068517 | 153.7431 | .1110513 | .0555527 | .2140002 | 117.7819 |
| Stddev | .0002222 | .0000612 | 1.0441 | .0006444 | .0002549 | .0022283 | .8813 |
| %RSD | 6.215777 | .8926940 | .6791270 | .5803060 | .4589201 | 1.041267 | .7482510 |
| #1 | .0036008 | .0069067 | 153.6172 | .1117920 | .0556189 | .2161246 | 117.5303 |
| #2 | .0037836 | .0068625 | 152.7676 | .1107425 | .0552712 | .2116808 | 117.0538 |
| #3 | .0033413 | .0067859 | 154.8444 | .1106194 | .0557681 | .2141951 | 118.7617 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.986491 | 37.78924 | .1368151 | -.009707 | .3367139 | .1133298 | 1.405888 |
| Stddev | .041545 | .23378 | .0006643 | .000333 | .0112937 | .0016070 | .004512 |
| %RSD | .5946458 | .6186410 | .4855113 | 3.435051 | 3.354084 | 1.417963 | .3209460 |
| #1 | 6.992335 | 37.77299 | .1374845 | -.010051 | .3240887 | .1150517 | 1.402032 |
| #2 | 6.942334 | 37.56400 | .1361561 | -.009386 | .3401979 | .1118699 | 1.410850 |
| #3 | 7.024804 | 38.03072 | .1368047 | -.009684 | .3458551 | .1130676 | 1.404782 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.425477 | 9.431192 | .5296495 | .0044686 | 4.046781 | 7.153868 | .0603027 |
| Stddev | .111422 | .007497 | .0051666 | .0003300 | .014339 | .024091 | .0007813 |
| %RSD | 1.182132 | .0794920 | .9754700 | 7.385275 | .3543407 | .3367603 | 1.295652 |
| #1 | 9.326076 | 9.425961 | .5283727 | .0041138 | 4.030402 | 7.176004 | .0611776 |
| #2 | 9.404438 | 9.439781 | .5252411 | .0045255 | 4.052865 | 7.157391 | .0600556 |
| #3 | 9.545919 | 9.427834 | .5353348 | .0047665 | 4.057075 | 7.128210 | .0596747 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-08 Acquired: 1/12/2025 5:12:23 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN75 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7099682 | .0722851 | .1825787 |
| Stddev | .0011960 | .0007436 | .0016572 |
| %RSD | .1684618 | 1.028763 | .9076404 |
| #1 | .7099758 | .0714544 | .1818169 |
| #2 | .7111604 | .0728886 | .1814394 |
| #3 | .7087684 | .0725123 | .1844798 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2710.879 | 64324.31 | 9364.855 | 2999.854 | 3172.294 |
| Stddev | 1.860 | 270.56 | 50.840 | 5.106 | 3.152 |
| %RSD | .0686141 | .4206174 | .5428805 | .1702244 | .0993707 |
| #1 | 2709.735 | 64269.33 | 9334.349 | 3000.188 | 3169.706 |
| #2 | 2713.025 | 64618.14 | 9336.671 | 2994.589 | 3175.805 |
| #3 | 2709.878 | 64085.47 | 9423.545 | 3004.786 | 3171.372 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-09 Acquired: 1/12/2025 5:16:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN76 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0706173** | **-.003850** | **1.785872** | **.0219128** | **.0011090** | **47.69106** | **1.359660** |
| Stddev | .0021060 | .002685 | .002313 | .0017445 | .0010407 | .22211 | .001061 |
| %RSD | 2.982327 | 69.72157 | .1295182 | 7.960913 | 93.83905 | .4657262 | .0780479 |
| #1 | .0713397 | -.000791 | 1.783444 | .0215140 | .0004883 | 47.75917 | 1.359806 |
| #2 | .0722671 | -.005810 | 1.788050 | .0238221 | .0023104 | 47.44287 | 1.360640 |
| #3 | .0682452 | -.004950 | 1.786122 | .0204022 | .0005283 | 47.87114 | 1.358533 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0038791** | **.0081485** | **371.5877** | **.1081436** | **.0621415** | **.2166292** | **129.6559** |
| Stddev | .0000520 | .0000888 | 2.3962 | .0002413 | .0003328 | .0008283 | .4256 |
| %RSD | 1.340639 | 1.089301 | .6448611 | .2230836 | .5355195 | .3823693 | .3282791 |
| #1 | .0038190 | .0080525 | 374.0119 | .1082786 | .0622828 | .2175656 | 129.6446 |
| #2 | .0039074 | .0081653 | 369.2205 | .1082872 | .0617614 | .2163298 | 129.2360 |
| #3 | .0039108 | .0082276 | 371.5308 | .1078651 | .0623803 | .2159922 | 130.0871 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.790192** | **41.76081** | **.1369013** | **-.010300** | **.5749595** | **.1234121** | **1.622500** |
| Stddev | .004248 | .12092 | .0006212 | .000253 | .1142368 | .0014708 | .002567 |
| %RSD | .0433922 | .2895630 | .4537919 | 2.454561 | 19.86866 | 1.191770 | .1582275 |
| #1 | 9.794684 | 41.83918 | .1362312 | -.010029 | .5676681 | .1240381 | 1.620103 |
| #2 | 9.786239 | 41.62154 | .1374580 | -.010342 | .4645430 | .1217318 | 1.622186 |
| #3 | 9.789652 | 41.82170 | .1370149 | -.010529 | .6926672 | .1244662 | 1.625209 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.385491** | **9.035914** | **.5749818** | **.0049424** | **3.426656** | **4.846519** | **.0542375** |
| Stddev | .041605 | .011043 | .0023494 | .0002442 | .007231 | .022997 | .0013673 |
| %RSD | .4961557 | .1222159 | .4085984 | 4.940292 | .2110356 | .4745109 | 2.520880 |
| #1 | 8.355620 | 9.038615 | .5738252 | .0051507 | 3.430623 | 4.820036 | .0557022 |
| #2 | 8.367840 | 9.045356 | .5734349 | .0046737 | 3.418310 | 4.861460 | .0529948 |
| #3 | 8.433011 | 9.023771 | .5776852 | .0050027 | 3.431037 | 4.858059 | .0540154 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-09 Acquired: 1/12/2025 5:16:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN76 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6475300 | .0776181 | .5464528 |
| Stddev | .0021933 | .0007018 | .0034391 |
| %RSD | .3387221 | .9042156 | .6293446 |
| #1 | .6456747 | .0783654 | .5470709 |
| #2 | .6469647 | .0769729 | .5427467 |
| #3 | .6499507 | .0775159 | .5495410 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2687.399 | 63129.38 | 9459.962 | 2975.208 | 3055.163 |
| Stddev | 2.022 | 26.05 | 32.161 | 2.902 | 3.458 |
| %RSD | .0752280 | .0412651 | .3399707 | .0975512 | .1131733 |
| #1 | 2687.678 | 63138.18 | 9485.625 | 2977.569 | 3058.978 |
| #2 | 2685.253 | 63149.88 | 9423.884 | 2976.086 | 3052.237 |
| #3 | 2689.267 | 63100.06 | 9470.376 | 2971.968 | 3054.274 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-10 Acquired: 1/12/2025 5:20:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN77 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0862751** | **-.002228** | **2.300532** | **.0283100** | **.0001477** | **54.37464** | **1.173867** |
| Stddev | .0021611 | .001438 | .000757 | .0023820 | .0007881 | .21049 | .004656 |
| %RSD | 2.504943 | 64.53110 | .0329021 | 8.413950 | 533.4788 | .3871043 | .3966758 |
| #1 | .0856650 | -.003255 | 2.299992 | .0299164 | .0010216 | 54.18431 | 1.172255 |
| #2 | .0886758 | -.000585 | 2.301397 | .0255733 | -.000509 | 54.33891 | 1.170231 |
| #3 | .0844847 | -.002844 | 2.300207 | .0294403 | -.000070 | 54.60071 | 1.179115 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0041760** | **.0086015** | **217.6745** | **.1221953** | **.0702382** | **.2417786** | **145.7641** |
| Stddev | .0000874 | .0000664 | .6015 | .0003937 | .0000840 | .0012143 | .5641 |
| %RSD | 2.092149 | .7720335 | .2763181 | .3221741 | .1196286 | .5022195 | .3870051 |
| #1 | .0041873 | .0086336 | 217.3136 | .1225178 | .0703141 | .2429081 | 145.3387 |
| #2 | .0040834 | .0086458 | 217.3410 | .1223115 | .0702528 | .2419333 | 145.5496 |
| #3 | .0042571 | .0085252 | 218.3688 | .1217566 | .0701479 | .2404944 | 146.4040 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.244260** | **51.58089** | **.1581408** | **-.010737** | **.3895245** | **.1289598** | **1.610209** |
| Stddev | .028204 | .14914 | .0004668 | .000869 | .0885533 | .0024789 | .001026 |
| %RSD | .3420990 | .2891436 | .2951658 | 8.096112 | 22.73370 | 1.922210 | .0637468 |
| #1 | 8.225095 | 51.42878 | .1578813 | -.011370 | .4773431 | .1294364 | 1.609896 |
| #2 | 8.231039 | 51.58702 | .1578614 | -.011095 | .3909760 | .1262772 | 1.609376 |
| #3 | 8.276645 | 51.72688 | .1586797 | -.009746 | .3002544 | .1311657 | 1.611356 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.904918** | **8.640161** | **.6315994** | **.0068898** | **2.693148** | **5.081885** | **.0819969** |
| Stddev | .050175 | .020284 | .0037338 | .0003977 | .005999 | .004552 | .0007751 |
| %RSD | .5634491 | .2347586 | .5911709 | 5.771771 | .2227548 | .0895742 | .9452133 |
| #1 | 8.852672 | 8.663580 | .6287485 | .0069698 | 2.699876 | 5.082224 | .0823192 |
| #2 | 8.909355 | 8.628767 | .6302238 | .0064582 | 2.691211 | 5.086259 | .0811127 |
| #3 | 8.952727 | 8.628137 | .6358259 | .0072414 | 2.688356 | 5.077174 | .0825587 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-10 Acquired: 1/12/2025 5:20:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN77 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6833107 | .0825277 | .2305814 |
| Stddev | .0017903 | .0007803 | .0010905 |
| %RSD | .2620082 | .9454966 | .4729361 |
| #1 | .6847354 | .0833907 | .2297509 |
| #2 | .6813011 | .0818720 | .2301769 |
| #3 | .6838957 | .0823203 | .2318163 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2734.587 | 64391.27 | 9563.312 | 3037.419 | 3092.815 |
| Stddev | 5.674 | 79.75 | 25.533 | 3.281 | 6.831 |
| %RSD | .2074858 | .1238556 | .2669939 | .1080312 | .2208676 |
| #1 | 2732.852 | 64417.86 | 9547.621 | 3041.208 | 3086.173 |
| #2 | 2740.926 | 64454.33 | 9549.541 | 3035.540 | 3099.820 |
| #3 | 2729.984 | 64301.62 | 9592.775 | 3035.509 | 3092.451 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-11 Acquired: 1/12/2025 5:24:21 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN78 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0841260** | **-.002761** | **1.542764** | **.0310651** | **-.001071** | **60.76896** | **1.249816** |
| Stddev | .0015551 | .001293 | .002485 | .0019883 | .002057 | .08511 | .004066 |
| %RSD | 1.848484 | 46.83639 | .1610588 | 6.400471 | 192.1876 | .1400494 | .3253208 |
| #1 | .0859119 | -.002663 | 1.539897 | .0302093 | -.000949 | 60.67915 | 1.245466 |
| #2 | .0830713 | -.004101 | 1.544283 | .0296479 | .000924 | 60.77934 | 1.250461 |
| #3 | .0833949 | -.001520 | 1.544112 | .0333380 | -.003186 | 60.84841 | 1.253521 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0045659** | **.0076644** | **67.19623** | **.1240522** | **.0696275** | **.2239503** | **144.4761** |
| Stddev | .0000959 | .0000680 | .15234 | .0004774 | .0004626 | .0025427 | .2670 |
| %RSD | 2.099390 | .8873764 | .2267118 | .3848505 | .6643352 | 1.135406 | .1847967 |
| #1 | .0045124 | .0076201 | 67.04688 | .1245121 | .0691209 | .2254960 | 144.2326 |
| #2 | .0045087 | .0076303 | 67.19040 | .1235590 | .0700274 | .2253394 | 144.4340 |
| #3 | .0046765 | .0077427 | 67.35140 | .1240854 | .0697342 | .2210156 | 144.7616 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.266557** | **22.75595** | **.1457422** | **-.010905** | **.4910697** | **.1391598** | **1.164041** |
| Stddev | .023181 | .01555 | .0002555 | .000355 | .3800673 | .0013821 | .001729 |
| %RSD | .2804141 | .0683476 | .1753270 | 3.252307 | 77.39580 | .9931474 | .1485564 |
| #1 | 8.245502 | 22.74487 | .1454852 | -.010887 | .3784203 | .1380576 | 1.165887 |
| #2 | 8.262772 | 22.74925 | .1457451 | -.010559 | .9147276 | .1407104 | 1.163778 |
| #3 | 8.291397 | 22.77373 | .1459962 | -.011268 | .1800610 | .1387115 | 1.162459 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.814851** | **9.043321** | **.6273455** | **.0043575** | **2.493597** | **6.122652** | **.1098656** |
| Stddev | .041802 | .032850 | .0028104 | .0001343 | .007933 | .020764 | .0006986 |
| %RSD | .4259065 | .3632500 | .4479852 | 3.081906 | .3181395 | .3391275 | .6358797 |
| #1 | 9.784442 | 9.014193 | .6243634 | .0045066 | 2.485263 | 6.115380 | .1094105 |
| #2 | 9.797592 | 9.036843 | .6277281 | .0043200 | 2.494470 | 6.146073 | .1106700 |
| #3 | 9.862519 | 9.078928 | .6299451 | .0042460 | 2.501057 | 6.106502 | .1095162 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-11 Acquired: 1/12/2025 5:24:21 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN78 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7658383 | .0848230 | .1405129 |
| Stddev | .0035991 | .0012740 | .0002446 |
| %RSD | .4699547 | 1.502004 | .1740848 |
| #1 | .7630668 | .0848034 | .1402365 |
| #2 | .7699059 | .0835588 | .1406007 |
| #3 | .7645421 | .0861067 | .1407015 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2842.258 | 67400.20 | 9839.529 | 3206.973 | 3237.663 |
| Stddev | 4.354 | 98.55 | 35.287 | 2.299 | 8.573 |
| %RSD | .1531923 | .1462105 | .3586235 | .0716788 | .2647926 |
| #1 | 2843.406 | 67316.44 | 9803.204 | 3204.479 | 3246.232 |
| #2 | 2845.922 | 67508.79 | 9841.707 | 3207.435 | 3237.671 |
| #3 | 2837.444 | 67375.38 | 9873.677 | 3209.006 | 3229.086 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-12 Acquired: 1/12/2025 5:28:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN79 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0660448** | **-.005741** | **.9900787** | **.0259465** | **-.003686** | **56.33236** |
| Stddev | .0005359 | .001593 | .0003250 | .0033874 | .001694 | .10079 |
| %RSD | .8114393 | 27.75736 | .0328218 | 13.05536 | 45.97178 | .1789275 |
| #1 | .0660325 | -.004261 | .9902197 | .0251993 | -.003708 | 56.22420 |
| #2 | .0655151 | -.007428 | .9903093 | .0229951 | -.001980 | 56.34922 |
| #3 | .0665867 | -.005533 | .9897071 | .0296452 | -.005369 | 56.42366 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.160622** | **.0040725** | **.0069403** | **103.3995** | **.1092997** | **.0680772** |
| Stddev | .003636 | .0000680 | .0001056 | .2242 | .0003061 | .0002670 |
| %RSD | .3133176 | 1.669850 | 1.522179 | .2168456 | .2800820 | .3922364 |
| #1 | 1.157216 | .0041478 | .0069548 | 103.1507 | .1089528 | .0683631 |
| #2 | 1.164452 | .0040155 | .0070380 | 103.4618 | .1094144 | .0680343 |
| #3 | 1.160198 | .0040542 | .0068282 | 103.5860 | .1095320 | .0678342 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1628643** | **140.3808** | **9.215212** | **22.67135** | **.1388034** | **-.011407** |
| Stddev | .0011630 | .3541 | .017015 | .03055 | .0001812 | .000240 |
| %RSD | .7140581 | .2522327 | .1846426 | .1347735 | .1305059 | 2.108143 |
| #1 | .1633381 | 140.0054 | 9.195567 | 22.64059 | .1390125 | -.011471 |
| #2 | .1615393 | 140.4281 | 9.225294 | 22.70170 | .1386949 | -.011609 |
| #3 | .1637156 | 140.7088 | 9.224775 | 22.67174 | .1387028 | -.011141 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4809123** | **.1283221** | **.9329820** | **8.444000** | F **12.88643** | **.6078814** |
| Stddev | .0693405 | .0028226 | .0010724 | .008762 | .02469 | .0025686 |
| %RSD | 14.41853 | 2.199626 | .1149428 | .1037692 | .1915913 | .4225474 |
| #1 | .4055933 | .1309951 | .9318519 | 8.446430 | 12.91470 | .6054353 |
| #2 | .5420960 | .1253706 | .9331086 | 8.434279 | 12.87548 | .6076518 |
| #3 | .4950475 | .1286006 | .9339854 | 8.451290 | 12.86910 | .6105571 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-12 Acquired: 1/12/2025 5:28:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN79 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0040521 | 2.286881 | 6.101722 | .0605615 | .7073963 | .0838456 |
| Stddev | .0003420 | .009290 | .026358 | .0008197 | .0021672 | .0009441 |
| %RSD | 8.440947 | .4062324 | .4319807 | 1.353553 | .3063612 | 1.125945 |
| #1 | .0040680 | 2.283673 | 6.103416 | .0613585 | .7077951 | .0848712 |
| #2 | .0037024 | 2.297350 | 6.127193 | .0597208 | .7093364 | .0836530 |
| #3 | .0043859 | 2.279620 | 6.074558 | .0606052 | .7050574 | .0830128 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1889108 |
| Stddev | .0001072 |
| %RSD | .0567316 |
| #1 | .1888636 |
| #2 | .1890335 |
| #3 | .1888354 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3023.280 | 70163.23 | 10268.89 | 3326.600 | 3283.361 |
| Stddev | 2.053 | 92.31 | 39.50 | 11.228 | 4.316 |
| %RSD | .0678912 | .1315666 | .3846241 | .3375265 | .1314499 |
| #1 | 3020.927 | 70179.65 | 10223.51 | 3339.559 | 3282.523 |
| #2 | 3024.702 | 70246.23 | 10295.54 | 3319.760 | 3288.035 |
| #3 | 3024.212 | 70063.81 | 10287.62 | 3320.483 | 3279.526 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-13 Acquired: 1/12/2025 5:32:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN80 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0608128** | **-.004884** | **.7761733** | **.0280172** | **-.005733** | **61.67354** | **1.010684** |
| Stddev | .0006142 | .000624 | .0007768 | .0019072 | .002188 | .06010 | .003192 |
| %RSD | 1.009994 | 12.77575 | .1000844 | 6.807077 | 38.15590 | .0974446 | .3157903 |
| #1 | .0604905 | -.004997 | .7760933 | .0263915 | -.004269 | 61.72126 | 1.013659 |
| #2 | .0615210 | -.005443 | .7754395 | .0301165 | -.004684 | 61.60605 | 1.011081 |
| #3 | .0604268 | -.004211 | .7769870 | .0275435 | -.008248 | 61.69330 | 1.007313 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0039742** | **.0067926** | **93.87895** | **.1234173** | **.0869070** | **.1087377** | **183.2116** |
| Stddev | .0000593 | .0000367 | .10642 | .0002659 | .0002733 | .0022359 | .2510 |
| %RSD | 1.491005 | .5410612 | .1133621 | .2154405 | .3144974 | 2.056216 | .1370118 |
| #1 | .0040039 | .0068350 | 93.99598 | .1231647 | .0871870 | .1067006 | 183.2030 |
| #2 | .0040128 | .0067697 | 93.85289 | .1233925 | .0868932 | .1111298 | 182.9650 |
| #3 | .0039060 | .0067731 | 93.78798 | .1236947 | .0866409 | .1083826 | 183.4668 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.048637** | **26.25066** | **.1924093** | **-.016977** | **.4302089** | **.1477808** | **.7866450** |
| Stddev | .024734 | .05573 | .0001340 | .000134 | .1875207 | .0023670 | .0042212 |
| %RSD | .3073100 | .2122947 | .0696201 | .7910519 | 43.58828 | 1.601710 | .5366030 |
| #1 | 8.060773 | 26.18633 | .1925612 | -.017059 | .5820188 | .1461820 | .7909183 |
| #2 | 8.064959 | 26.28143 | .1923080 | -.017049 | .4880175 | .1505000 | .7865388 |
| #3 | 8.020179 | 26.28422 | .1923588 | -.016822 | .2205904 | .1466604 | .7824780 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.626766** | **8.223879** | **.7771453** | **.0021262** | **.7032333** | **8.312562** | **.0072925** |
| Stddev | .016162 | .027031 | .0009471 | .0001220 | .0017723 | .044010 | .0006491 |
| %RSD | .1873487 | .3286884 | .1218745 | 5.737649 | .2520200 | .5294451 | 8.900993 |
| #1 | 8.611580 | 8.252264 | .7770472 | .0022625 | .7018119 | 8.326401 | .0070851 |
| #2 | 8.624964 | 8.220930 | .7762510 | .0020887 | .7026690 | 8.347989 | .0067724 |
| #3 | 8.643753 | 8.198444 | .7781377 | .0020273 | .7052190 | 8.263295 | .0080200 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-13 Acquired: 1/12/2025 5:32:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN80 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8526590 | .1088597 | .1331842 |
| Stddev | .0035946 | .0011736 | .0004862 |
| %RSD | .4215729 | 1.078041 | .3650957 |
| #1 | .8539471 | .1098554 | .1328508 |
| #2 | .8554320 | .1091579 | .1329597 |
| #3 | .8485978 | .1075659 | .1337422 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3095.808 | 72263.40 | 10411.98 | 3393.863 | 3266.724 |
| Stddev | 4.939 | 173.69 | 9.03 | 5.488 | 6.912 |
| %RSD | .1595467 | .2403550 | .0866916 | .1617126 | .2116007 |
| #1 | 3090.985 | 72298.06 | 10415.58 | 3388.861 | 3258.746 |
| #2 | 3100.856 | 72417.14 | 10401.70 | 3399.734 | 3270.894 |
| #3 | 3095.583 | 72074.99 | 10418.65 | 3392.994 | 3270.534 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14 Acquired: 1/12/2025 5:36:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0573544** | **-.002275** | **.6034417** | **.0332844** | **-.003454** | **68.38861** | **.6786568** |
| Stddev | .0021081 | .001804 | .0042462 | .0003661 | .001475 | .29857 | .0049964 |
| %RSD | 3.675577 | 79.29437 | .7036605 | 1.099857 | 42.70572 | .4365719 | .7362214 |
| #1 | .0549385 | -.002856 | .6040026 | .0329797 | -.004076 | 68.06139 | .6741232 |
| #2 | .0588204 | -.003718 | .5989430 | .0331830 | -.001770 | 68.64624 | .6840138 |
| #3 | .0583044 | -.000252 | .6073796 | .0336905 | -.004516 | 68.45819 | .6778334 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0041075** | **.0057564** | **67.56724** | **.1406023** | **.0864055** | **.1588875** | **182.3645** |
| Stddev | .0000091 | .0001202 | .21090 | .0004137 | .0001127 | .0011794 | .6342 |
| %RSD | .2217661 | 2.088683 | .3121387 | .2941973 | .1304241 | .7423060 | .3477591 |
| #1 | .0041152 | .0056993 | 67.35124 | .1407716 | .0863418 | .1584280 | 181.7634 |
| #2 | .0040974 | .0056753 | 67.77265 | .1409044 | .0863392 | .1602276 | 183.0272 |
| #3 | .0041098 | .0058945 | 67.57782 | .1401308 | .0865357 | .1580071 | 182.3031 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.100798** | **39.66918** | **.2033377** | **-.017558** | **.5169015** | **.1523539** | **.7718413** |
| Stddev | .016608 | .06654 | .0003595 | .000181 | .0602846 | .0016853 | .0036584 |
| %RSD | .4049861 | .1677251 | .1767817 | 1.030648 | 11.66269 | 1.106147 | .4739826 |
| #1 | 4.087254 | 39.61424 | .2032385 | -.017488 | .4859434 | .1539909 | .7677056 |
| #2 | 4.119327 | 39.74316 | .2030383 | -.017422 | .4783857 | .1524465 | .7731634 |
| #3 | 4.095812 | 39.65014 | .2037364 | -.017763 | .5863753 | .1506242 | .7746548 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.058260** | **8.986980** | **.7727674** | **.0012677** | **.9484937** | **3.699784** | **.0199818** |
| Stddev | .084356 | .013201 | .0028735 | .0000652 | .0019214 | .020815 | .0007278 |
| %RSD | .9312650 | .1468849 | .3718383 | 5.145032 | .2025717 | .5626126 | 3.642501 |
| #1 | 8.990634 | 8.997521 | .7710571 | .0013274 | .9501574 | 3.700108 | .0197918 |
| #2 | 9.152786 | 8.972175 | .7760848 | .0011981 | .9463908 | 3.720435 | .0193678 |
| #3 | 9.031361 | 8.991246 | .7711602 | .0012777 | .9489330 | 3.678808 | .0207858 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14 Acquired: 1/12/2025 5:36:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.057535 | .1234818 | .1245551 |
| Stddev | .001704 | .0015147 | .0004502 |
| %RSD | .1611583 | 1.226663 | .3614324 |
| #1 | 1.059450 | .1222743 | .1240550 |
| #2 | 1.056968 | .1251813 | .1246820 |
| #3 | 1.056186 | .1229898 | .1249282 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3175.010 | 73855.41 | 10593.27 | 3451.862 | 3307.627 |
| Stddev | 1.403 | 189.52 | 54.56 | 2.457 | 1.852 |
| %RSD | .0441749 | .2566033 | .5150404 | .0711818 | .0560031 |
| #1 | 3176.526 | 73740.01 | 10533.50 | 3451.711 | 3309.278 |
| #2 | 3173.759 | 73752.09 | 10605.91 | 3449.484 | 3305.624 |
| #3 | 3174.745 | 74074.13 | 10640.40 | 3454.391 | 3307.979 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-15 Acquired: 1/12/2025 5:40:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0576918 | -.002608 | .6125607 | .0288845 | -.003114 | 67.31012 | .6570327 |
| Stddev | .0013194 | .001437 | .0009879 | .0018287 | .001573 | .24973 | .0053868 |
| %RSD | 2.286982 | 55.07485 | .1612700 | 6.331064 | 50.50564 | .3710210 | .8198714 |
| #1 | .0581313 | -.004172 | .6117403 | .0275623 | -.004910 | 67.59804 | .6624626 |
| #2 | .0562087 | -.002305 | .6136573 | .0309715 | -.002443 | 67.15221 | .6569455 |
| #3 | .0587353 | -.001347 | .6122845 | .0281198 | -.001988 | 67.18013 | .6516900 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0040388 | .0061695 | 66.03542 | .1413089 | .0883600 | .1560146 | 177.6818 |
| Stddev | .0000777 | .0000431 | .35705 | .0006352 | .0002429 | .0016968 | .7119 |
| %RSD | 1.923380 | .6993618 | .5406896 | .4495029 | .2748940 | 1.087611 | .4006727 |
| #1 | .0039734 | .0061903 | 66.44439 | .1406661 | .0884102 | .1577905 | 178.4896 |
| #2 | .0041247 | .0061199 | 65.87610 | .1419362 | .0885739 | .1544097 | 177.1457 |
| #3 | .0040184 | .0061983 | 65.78577 | .1413245 | .0880959 | .1558436 | 177.4102 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.967371 | 38.47584 | .2071413 | -.017810 | .6465489 | .1505649 | .7619536 |
| Stddev | .031863 | .21910 | .0005005 | .000487 | .0479791 | .0016473 | .0039351 |
| %RSD | .8031343 | .5694357 | .2416350 | 2.733352 | 7.420796 | 1.094102 | .5164465 |
| #1 | 4.002809 | 38.71494 | .2065761 | -.017706 | .5963254 | .1515016 | .7609017 |
| #2 | 3.958221 | 38.28469 | .2075284 | -.017383 | .6919138 | .1486628 | .7586515 |
| #3 | 3.941084 | 38.42789 | .2073194 | -.018340 | .6514075 | .1515304 | .7663078 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.078048 | 9.266152 | .7499946 | .0012396 | .9772544 | 7.233376 | .0205165 |
| Stddev | .069181 | .010507 | .0021135 | .0001109 | .0006381 | .025576 | .0005015 |
| %RSD | .7620652 | .1133941 | .2817987 | 8.948428 | .0652958 | .3535807 | 2.444463 |
| #1 | 9.074904 | 9.274167 | .7522558 | .0012081 | .9777762 | 7.257651 | .0204150 |
| #2 | 9.010494 | 9.270033 | .7480690 | .0011478 | .9774440 | 7.235804 | .0200734 |
| #3 | 9.148748 | 9.254257 | .7496588 | .0013628 | .9765429 | 7.206672 | .0210610 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-15 Acquired: 1/12/2025 5:40:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **1.080373** | **.1191628** | **.1258510** |
| Stddev | .004611 | .0019075 | .0005125 |
| %RSD | .4267590 | 1.600762 | .4072256 |
| #1 | 1.083273 | .1203884 | .1263972 |
| #2 | 1.082790 | .1201349 | .1253807 |
| #3 | 1.075057 | .1169650 | .1257751 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3143.523** | **75361.13** | **10631.00** | **3502.546** | **3249.493** |
| Stddev | 4.435 | 87.29 | 34.05 | 14.796 | 3.019 |
| %RSD | .1410698 | .1158225 | .3203005 | .4224308 | .0929063 |
| #1 | 3141.627 | 75265.65 | 10658.72 | 3498.646 | 3250.956 |
| #2 | 3140.352 | 75380.93 | 10592.99 | 3518.901 | 3246.021 |
| #3 | 3148.591 | 75436.82 | 10641.29 | 3490.091 | 3251.502 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14LX5 Acquired: 1/12/2025 5:44:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0121771 | .0002209 | .1258772 | .0090639 | -.001232 | 16.28093 | .1596579 |
| Stddev | .0016021 | .0011674 | .0021446 | .0024112 | .001130 | .11575 | .0018009 |
| %RSD | 13.15694 | 528.4599 | 1.703698 | 26.60231 | 91.77570 | .7109846 | 1.128008 |
| #1 | .0110843 | -.001070 | .1278204 | .0117210 | -.000476 | 16.28642 | .1605869 |
| #2 | .0140162 | .001202 | .1262351 | .0084558 | -.000688 | 16.16252 | .1575821 |
| #3 | .0114308 | .000531 | .1235763 | .0070150 | -.002531 | 16.39384 | .1608046 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010160 | .0008444 | 16.39994 | .0350828 | .0175352 | .0396090 | 44.50495 |
| Stddev | .0000157 | .0000598 | .11805 | .0004270 | .0001716 | .0017670 | .38020 |
| %RSD | 1.545128 | 7.080516 | .7197919 | 1.217219 | .9785460 | 4.461191 | .8542937 |
| #1 | .0010338 | .0007975 | 16.42644 | .0354766 | .0177101 | .0382212 | 44.54998 |
| #2 | .0010096 | .0009117 | 16.27090 | .0346289 | .0173671 | .0390075 | 44.10424 |
| #3 | .0010044 | .0008239 | 16.50248 | .0351431 | .0175284 | .0415983 | 44.86064 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.000625 | 9.551806 | .0416681 | -.004611 | .0919493 | .0361049 | .1910094 |
| Stddev | .008370 | .046700 | .0004572 | .000305 | .1452964 | .0006752 | .0002813 |
| %RSD | .8364544 | .4889162 | 1.097234 | 6.614052 | 158.0179 | 1.870036 | .1472783 |
| #1 | 1.002053 | 9.527271 | .0419891 | -.004640 | .0792392 | .0365485 | .1907672 |
| #2 | .991633 | 9.522486 | .0418706 | -.004900 | .2431832 | .0353279 | .1909432 |
| #3 | 1.008188 | 9.605660 | .0411446 | -.004292 | -.046574 | .0364384 | .1913180 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.423146 | 1.861599 | .1851043 | .0002925 | .2005941 | 1.373674 | .0027129 |
| Stddev | .040381 | .011443 | .0017725 | .0001494 | .0054032 | .006037 | .0002054 |
| %RSD | 1.666452 | .6146620 | .9575392 | 51.07784 | 2.693617 | .4394532 | 7.569582 |
| #1 | 2.441975 | 1.855533 | .1851783 | .0004289 | .1943911 | 1.375116 | .0026431 |
| #2 | 2.450673 | 1.854466 | .1832960 | .0003158 | .2031156 | 1.367047 | .0029441 |
| #3 | 2.376790 | 1.874797 | .1868385 | .0001328 | .2042757 | 1.378859 | .0025516 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14LX5 Acquired: 1/12/2025 5:44:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2687768 | .0294945 | .0300456 |
| Stddev | .0016413 | .0002910 | .0003164 |
| %RSD | .6106542 | .9864619 | 1.053125 |
| #1 | .2696917 | .0291622 | .0300434 |
| #2 | .2697566 | .0297034 | .0297303 |
| #3 | .2668819 | .0296179 | .0303631 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2646.463 | 62805.56 | 8602.502 | 2940.059 | 3440.203 |
| Stddev | 4.840 | 195.08 | 46.596 | 5.890 | 1.885 |
| %RSD | .1828690 | .3106153 | .5416581 | .2003193 | .0547818 |
| #1 | 2642.607 | 62668.72 | 8567.369 | 2933.408 | 3440.210 |
| #2 | 2644.887 | 63028.95 | 8584.778 | 2942.155 | 3442.085 |
| #3 | 2651.894 | 62719.02 | 8655.360 | 2944.614 | 3438.315 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-16 Acquired: 1/12/2025 5:48:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1134935 | .1008979 | .6460685 | .1681937 | .1318135 | 69.85765 | 3.609535 |
| Stddev | .0017267 | .0023444 | .0020849 | .0018942 | .0021677 | .23374 | .019902 |
| %RSD | 1.521412 | 2.323569 | .3227105 | 1.126200 | 1.644494 | .3345988 | .5513769 |
| #1 | .1122207 | .0997662 | .6478627 | .1690571 | .1306394 | 69.68973 | 3.596401 |
| #2 | .1154590 | .0993340 | .6437812 | .1695024 | .1304861 | 69.75862 | 3.599770 |
| #3 | .1128007 | .1035935 | .6465615 | .1660217 | .1343149 | 70.12461 | 3.632433 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0855791 | .1070469 | 65.72185 | .4845901 | 1.105119 | .5368544 | 178.1495 |
| Stddev | .0003937 | .0004159 | .29889 | .0008582 | .002125 | .0023748 | .7454 |
| %RSD | .4600900 | .3885515 | .4547858 | .1771012 | .1922493 | .4423493 | .4183998 |
| #1 | .0857126 | .1068297 | 65.49579 | .4836707 | 1.103849 | .5387112 | 177.5680 |
| #2 | .0858888 | .1067845 | 65.60903 | .4853700 | 1.103935 | .5376734 | 177.8909 |
| #3 | .0851360 | .1075264 | 66.06074 | .4847295 | 1.107571 | .5341785 | 178.9898 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.658298 | 38.24682 | 1.223602 | .0429165 | .5186184 | .9371156 | 1.662737 |
| Stddev | .021143 | .15297 | .002207 | .0003134 | .1302126 | .0019711 | .003553 |
| %RSD | .4538729 | .3999423 | .1803590 | .7302175 | 25.10759 | .2103397 | .2136591 |
| #1 | 4.641266 | 38.12020 | 1.224760 | .0427332 | .5695495 | .9385185 | 1.658636 |
| #2 | 4.651668 | 38.20348 | 1.221057 | .0432784 | .3706382 | .9379663 | 1.664853 |
| #3 | 4.681962 | 38.41678 | 1.224989 | .0427381 | .6156674 | .9348620 | 1.664723 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.108865 | 9.160942 | .7547281 | .0011095 | .9679377 | 7.432839 | .0195817 |
| Stddev | .047770 | .048286 | .0024843 | .0005085 | .0073120 | .013842 | .0007008 |
| %RSD | .5244375 | .5270901 | .3291595 | 45.82963 | .7554202 | .1862267 | 3.578903 |
| #1 | 9.054060 | 9.127461 | .7527742 | .0016785 | .9626496 | 7.447695 | .0198913 |
| #2 | 9.130854 | 9.139072 | .7538862 | .0006999 | .9648816 | 7.430518 | .0187795 |
| #3 | 9.141680 | 9.216294 | .7575239 | .0009499 | .9762820 | 7.420304 | .0200745 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-16 Acquired: 1/12/2025 5:48:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.059736 | .1163775 | .1265012 |
| Stddev | .000385 | .0004188 | .0005081 |
| %RSD | .0363636 | .3598601 | .4016548 |
| #1 | 1.059489 | .1161476 | .1261018 |
| #2 | 1.060180 | .1161240 | .1263287 |
| #3 | 1.059540 | .1168609 | .1270731 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3138.260 | 73625.15 | 10489.46 | 3451.161 | 3257.580 |
| Stddev | 3.600 | 201.19 | 25.29 | 10.116 | 6.134 |
| %RSD | .1147102 | .2732604 | .2410692 | .2931325 | .1883051 |
| #1 | 3139.086 | 73730.02 | 10469.92 | 3459.805 | 3258.441 |
| #2 | 3141.376 | 73752.23 | 10480.44 | 3453.642 | 3263.238 |
| #3 | 3134.319 | 73393.19 | 10518.02 | 3440.034 | 3251.060 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-17 Acquired: 1/12/2025 5:52:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN96 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0607386 | -.002620 | 1.117761 | .0173172 | .0329787 | 33.17299 | .5368013 |
| Stddev | .0007461 | .000304 | .002705 | .0019869 | .0032583 | .13476 | .0040672 |
| %RSD | 1.228409 | 11.59245 | .2419871 | 11.47343 | 9.879923 | .4062456 | .7576771 |
| #1 | .0599385 | -.002326 | 1.116165 | .0151878 | .0303814 | 33.03164 | .5324598 |
| #2 | .0608619 | -.002932 | 1.120884 | .0191214 | .0366347 | 33.30003 | .5405231 |
| #3 | .0614154 | -.002600 | 1.116234 | .0176426 | .0319202 | 33.18730 | .5374211 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0028039 | .0075153 | 270.6732 | .1073282 | .0467764 | .4173455 | 98.20938 |
| Stddev | .0001418 | .0001309 | 1.7520 | .0004676 | .0002676 | .0022559 | .46709 |
| %RSD | 5.057670 | 1.741076 | .6472886 | .4356262 | .5721385 | .5405321 | .4756100 |
| #1 | .0027895 | .0075094 | 268.7724 | .1067956 | .0465660 | .4199205 | 97.73935 |
| #2 | .0026699 | .0073875 | 272.2235 | .1076711 | .0466856 | .4163988 | 98.67348 |
| #3 | .0029524 | .0076490 | 271.0237 | .1075177 | .0470776 | .4157173 | 98.21531 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.409694 | 76.82811 | .1594248 | -.008794 | .6744086 | .0900643 | 1.568659 |
| Stddev | .042759 | .41473 | .0007682 | .000232 | .1455260 | .0006806 | .005686 |
| %RSD | .9696622 | .5398094 | .4818371 | 2.643505 | 21.57832 | .7556616 | .3624962 |
| #1 | 4.364789 | 76.37964 | .1585403 | -.008901 | .6599760 | .0894175 | 1.562153 |
| #2 | 4.449923 | 77.19779 | .1599247 | -.008953 | .8266132 | .0907742 | 1.571147 |
| #3 | 4.414369 | 76.90689 | .1598094 | -.008527 | .5366367 | .0900011 | 1.572678 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.118415 | 8.239795 | .4634803 | .0061760 | 6.080119 | 3.802584 | .0547884 |
| Stddev | .104899 | .002202 | .0018824 | .0003464 | .006198 | .002375 | .0005380 |
| %RSD | 1.292115 | .0267225 | .4061459 | 5.608429 | .1019335 | .0624507 | .9820326 |
| #1 | 7.997778 | 8.242337 | .4615613 | .0062597 | 6.073179 | 3.805267 | .0549429 |
| #2 | 8.188162 | 8.238476 | .4653238 | .0057955 | 6.085101 | 3.801733 | .0541900 |
| #3 | 8.169306 | 8.238572 | .4635559 | .0064729 | 6.082078 | 3.800751 | .0552323 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-17 Acquired: 1/12/2025 5:52:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN96 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5617802 | .0556940 | .2907255 |
| Stddev | .0016723 | .0005321 | .0007373 |
| %RSD | .2976804 | .9553649 | .2536094 |
| #1 | .5628404 | .0551771 | .2900329 |
| #2 | .5626478 | .0556648 | .2915006 |
| #3 | .5598524 | .0562400 | .2906431 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2594.368 | 60942.38 | 8926.097 | 2840.338 | 3118.129 |
| Stddev | 5.294 | 174.67 | 38.751 | 13.207 | 3.021 |
| %RSD | .2040600 | .2866212 | .4341284 | .4649903 | .0968755 |
| #1 | 2590.918 | 61107.60 | 8881.442 | 2855.431 | 3121.272 |
| #2 | 2600.463 | 60759.58 | 8945.962 | 2834.686 | 3117.870 |
| #3 | 2591.722 | 60959.95 | 8950.888 | 2830.898 | 3115.247 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-18 Acquired: 1/12/2025 5:55:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN97 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0862404** | **-.005818** | **1.300610** | **.0236782** | **.0274647** | **47.26067** | **.6658393** |
| Stddev | .0028028 | .002017 | .002348 | .0005924 | .0020391 | .02888 | .0025259 |
| %RSD | 3.249998 | 34.66942 | .1805681 | 2.501881 | 7.424486 | .0611025 | .3793478 |
| #1 | .0832834 | -.005240 | 1.298516 | .0241107 | .0262181 | 47.28457 | .6682163 |
| #2 | .0888582 | -.008061 | 1.300163 | .0230030 | .0263581 | 47.26885 | .6631871 |
| #3 | .0865796 | -.004153 | 1.303149 | .0239210 | .0298179 | 47.22858 | .6661144 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0038011** | **.0097050** | **422.8099** | **.1367300** | **.0644368** | **.5328910** | **145.6706** |
| Stddev | .0000654 | .0000438 | .6487 | .0004866 | .0001451 | .0023332 | .0860 |
| %RSD | 1.720530 | .4515087 | .1534189 | .3559034 | .2252126 | .4378283 | .0590215 |
| #1 | .0038032 | .0096576 | 422.9615 | .1362821 | .0644677 | .5334334 | 145.5713 |
| #2 | .0038655 | .0097440 | 422.0989 | .1366602 | .0642787 | .5303344 | 145.7208 |
| #3 | .0037347 | .0097132 | 423.3694 | .1372478 | .0645639 | .5349052 | 145.7197 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.243640** | **86.45027** | **.2102556** | **-.012387** | **1.043877** | **.1237329** | **1.725764** |
| Stddev | .012860 | .14116 | .0002569 | .000291 | .133082 | .0032981 | .008517 |
| %RSD | .2059738 | .1632808 | .1222064 | 2.351824 | 12.74878 | 2.665520 | .4935301 |
| #1 | 6.258325 | 86.29528 | .2100136 | -.012093 | 1.156782 | .1222224 | 1.724026 |
| #2 | 6.238211 | 86.57146 | .2102278 | -.012675 | .897147 | .1214605 | 1.718250 |
| #3 | 6.234385 | 86.48408 | .2105253 | -.012392 | 1.077702 | .1275157 | 1.735016 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.386670** | **8.175061** | **.6635094** | **.0059708** | **4.824213** | **6.401447** | **.1013139** |
| Stddev | .057800 | .007563 | .0002763 | .0002123 | .007473 | .037865 | .0001772 |
| %RSD | .6157647 | .0925178 | .0416468 | 3.555938 | .1549138 | .5915027 | .1749044 |
| #1 | 9.378586 | 8.169679 | .6632765 | .0062065 | 4.816686 | 6.442165 | .1012437 |
| #2 | 9.333338 | 8.171796 | .6634370 | .0057946 | 4.824319 | 6.367294 | .1011825 |
| #3 | 9.448087 | 8.183708 | .6638148 | .0059112 | 4.831632 | 6.394882 | .1015154 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-18 Acquired: 1/12/2025 5:55:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN97 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7179593 | .0863692 | .6282612 |
| Stddev | .0009268 | .0002414 | .0014651 |
| %RSD | .1290905 | .2794764 | .2332021 |
| #1 | .7185313 | .0865409 | .6265732 |
| #2 | .7168900 | .0864736 | .6290067 |
| #3 | .7184567 | .0860932 | .6292035 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2666.194 | 62225.30 | 9415.191 | 2904.929 | 3050.093 |
| Stddev | 2.189 | 96.80 | 21.416 | 6.916 | 4.121 |
| %RSD | .0821152 | .1555616 | .2274632 | .2380689 | .1351152 |
| #1 | 2667.369 | 62319.31 | 9425.954 | 2908.595 | 3051.310 |
| #2 | 2667.545 | 62125.93 | 9429.091 | 2909.239 | 3053.468 |
| #3 | 2663.668 | 62230.64 | 9390.528 | 2896.952 | 3045.500 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-19 Acquired: 1/12/2025 6:00:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN98 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0859382** | **-.002955** | **.6162799** | **.0197205** | **.0034959** | **43.93038** | **.6398070** |
| Stddev | .0027043 | .002381 | .0021214 | .0037212 | .0024096 | .19429 | .0041259 |
| %RSD | 3.146859 | 80.56094 | .3442243 | 18.86967 | 68.92449 | .4422694 | .6448610 |
| #1 | .0888202 | -.002531 | .6141336 | .0174303 | .0060820 | 43.71926 | .6352120 |
| #2 | .0855383 | -.005520 | .6163306 | .0240142 | .0030919 | 43.97023 | .6431940 |
| #3 | .0834560 | -.000815 | .6183754 | .0177171 | .0013140 | 44.10166 | .6410151 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0045708** | **.0054383** | **488.2660** | **.0903106** | **.0596747** | **.3470533** | **135.8028** |
| Stddev | .0000207 | .0001293 | 5.3424 | .0002043 | .0003330 | .0020238 | .5558 |
| %RSD | .4535460 | 2.376591 | 1.094160 | .2262080 | .5580950 | .5831361 | .4092375 |
| #1 | .0045470 | .0055555 | 483.5173 | .0904179 | .0595262 | .3458508 | 135.2491 |
| #2 | .0045850 | .0052997 | 487.2304 | .0904388 | .0594417 | .3459193 | 135.7988 |
| #3 | .0045804 | .0054597 | 494.0504 | .0900750 | .0600561 | .3493898 | 136.3606 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.608300** | **61.23507** | **.1599148** | **-.012856** | **1.018553** | **.1086321** | **1.156462** |
| Stddev | .010906 | .34546 | .0010622 | .000129 | .222176 | .0037240 | .000888 |
| %RSD | .3022406 | .5641611 | .6641970 | 1.000336 | 21.81292 | 3.428070 | .0768110 |
| #1 | 3.596261 | 60.96995 | .1592928 | -.012763 | 1.236270 | .1057321 | 1.156243 |
| #2 | 3.617519 | 61.10951 | .1593104 | -.012803 | .792171 | .1128317 | 1.155704 |
| #3 | 3.611119 | 61.62576 | .1611412 | -.013003 | 1.027218 | .1073323 | 1.157440 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.712862** | **4.325298** | **.6140071** | **.0055589** | **4.839664** | **5.031670** | **.0454254** |
| Stddev | .078659 | .007259 | .0025662 | .0003341 | .001103 | .003773 | .0001185 |
| %RSD | 1.171761 | .1678161 | .4179395 | 6.009472 | .0227878 | .0749802 | .2609012 |
| #1 | 6.626099 | 4.316996 | .6117772 | .0051993 | 4.839410 | 5.034388 | .0453017 |
| #2 | 6.779509 | 4.328454 | .6134321 | .0058595 | 4.838711 | 5.033260 | .0455380 |
| #3 | 6.732978 | 4.330445 | .6168120 | .0056180 | 4.840873 | 5.027363 | .0454366 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-19 Acquired: 1/12/2025 6:00:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN98 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **1.426676** | **.0741534** | **1.048763** |
| Stddev | .001521 | .0016248 | .005940 |
| %RSD | .1066288 | 2.191119 | .5664144 |
| #1 | 1.428433 | .0755094 | 1.042434 |
| #2 | 1.425819 | .0723525 | 1.049635 |
| #3 | 1.425778 | .0745983 | 1.054218 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2585.599** | **61138.91** | **9202.790** | **2849.225** | **2991.237** |
| Stddev | 1.803 | 209.39 | 35.842 | 12.240 | 4.136 |
| %RSD | .0697219 | .3424795 | .3894680 | .4295793 | .1382640 |
| #1 | 2584.884 | 61241.33 | 9161.891 | 2846.766 | 2995.844 |
| #2 | 2584.264 | 61277.37 | 9228.727 | 2862.507 | 2987.843 |
| #3 | 2587.650 | 60898.02 | 9217.752 | 2838.401 | 2990.025 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-20 Acquired: 1/12/2025 6:04:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN99 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1107916** | **-.005717** | **.7347902** | **.0299515** | **.0024404** | **52.83061** | **1.040965** |
| Stddev | .0005818 | .001039 | .0015907 | .0042871 | .0015139 | .26038 | .006490 |
| %RSD | .5251307 | 18.17787 | .2164814 | 14.31337 | 62.03522 | .4928576 | .6234151 |
| #1 | .1112920 | -.006911 | .7362511 | .0348557 | .0037159 | 53.08575 | 1.046174 |
| #2 | .1101532 | -.005011 | .7330956 | .0280828 | .0007674 | 52.84081 | 1.043026 |
| #3 | .1109295 | -.005230 | .7350238 | .0269160 | .0028379 | 52.56529 | 1.033695 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0045281** | **.0080435** | **168.5621** | **.0953548** | **.0872312** | **.2905090** | **156.6180** |
| Stddev | .0000890 | .0000085 | .7367 | .0004614 | .0003102 | .0057575 | .7516 |
| %RSD | 1.965494 | .1056962 | .4370492 | .4839099 | .3556019 | 1.981859 | .4799126 |
| #1 | .0045997 | .0080445 | 169.2385 | .0956703 | .0869929 | .2968807 | 157.3603 |
| #2 | .0045562 | .0080515 | 168.6706 | .0948252 | .0875820 | .2889663 | 156.6364 |
| #3 | .0044284 | .0080346 | 167.7772 | .0955688 | .0871189 | .2856801 | 155.8574 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.56298** | **40.10264** | **.1489946** | **-.013047** | **.7101855** | **.1372356** | **.7456220** |
| Stddev | .04956 | .08177 | .0004973 | .000142 | .0591954 | .0030284 | .0030754 |
| %RSD | .4286149 | .2039114 | .3337778 | 1.087704 | 8.335196 | 2.206695 | .4124670 |
| #1 | 11.60509 | 40.16094 | .1486204 | -.012934 | .6985906 | .1386800 | .7486989 |
| #2 | 11.57549 | 40.13782 | .1495589 | -.013206 | .7743205 | .1392715 | .7456192 |
| #3 | 11.50836 | 40.00917 | .1488044 | -.013000 | .6576456 | .1337555 | .7425480 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.485042** | **5.801305** | **.6589954** | **.0075187** | **2.879718** | **2.612595** | **.0471548** |
| Stddev | .058799 | .009836 | .0031356 | .0003763 | .002148 | .029904 | .0007977 |
| %RSD | .9066791 | .1695507 | .4758083 | 5.004781 | .0745776 | 1.144622 | 1.691705 |
| #1 | 6.550317 | 5.812214 | .6625140 | .0072028 | 2.879330 | 2.632501 | .0464367 |
| #2 | 6.468582 | 5.798588 | .6579752 | .0079350 | 2.882034 | 2.627077 | .0470144 |
| #3 | 6.436228 | 5.793113 | .6564970 | .0074182 | 2.877792 | 2.578206 | .0480134 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-20 Acquired: 1/12/2025 6:04:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN99 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6302334 | .0780552 | .2334332 |
| Stddev | .0091204 | .0012518 | .0013156 |
| %RSD | 1.447144 | 1.603770 | .5635704 |
| #1 | .6349011 | .0778647 | .2347998 |
| #2 | .6360751 | .0793913 | .2333245 |
| #3 | .6197239 | .0769095 | .2321754 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2957.075 | 71354.56 | 10364.75 | 3309.208 | 3186.687 |
| Stddev | 3.354 | 137.33 | 101.86 | 2.794 | .664 |
| %RSD | .1134116 | .1924615 | .9827269 | .0844371 | .0208500 |
| #1 | 2955.945 | 71198.66 | 10318.67 | 3311.813 | 3186.830 |
| #2 | 2960.848 | 71407.42 | 10294.08 | 3306.257 | 3187.268 |
| #3 | 2954.433 | 71457.60 | 10481.51 | 3309.553 | 3185.963 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-21 Acquired: 1/12/2025 6:08:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1135551** | **-.010259** | **.6441491** | **.0330409** | **-.002182** | **56.01576** | **.8335522** |
| Stddev | .0022795 | .001692 | .0024024 | .0030783 | .000226 | .36918 | .0073718 |
| %RSD | 2.007385 | 16.48911 | .3729503 | 9.316625 | 10.36126 | .6590603 | .8843811 |
| #1 | .1126887 | -.012201 | .6466390 | .0335893 | -.002108 | 55.59515 | .8251675 |
| #2 | .1118359 | -.009477 | .6418450 | .0358082 | -.002003 | 56.28613 | .8364739 |
| #3 | .1161408 | -.009100 | .6439632 | .0297253 | -.002436 | 56.16600 | .8390154 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0053505** | **.0104740** | **126.2323** | **.0900093** | **.1105047** | **.2467874** | **174.8903** |
| Stddev | .0001295 | .0001011 | .8061 | .0005542 | .0005634 | .0009603 | 1.0287 |
| %RSD | 2.420457 | .9649280 | .6386049 | .6156770 | .5098000 | .3891187 | .5881722 |
| #1 | .0054102 | .0105904 | 125.3067 | .0901066 | .1111552 | .2464842 | 173.7136 |
| #2 | .0052019 | .0104238 | 126.7806 | .0894129 | .1101788 | .2478628 | 175.6188 |
| #3 | .0054394 | .0104080 | 126.6095 | .0905084 | .1101801 | .2460154 | 175.3384 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.44827** | **28.26823** | **.1450167** | **-.014350** | **.8456082** | **.1355929** | **.7715787** |
| Stddev | .09686 | .10078 | .0004801 | .000346 | .1376225 | .0011690 | .0013957 |
| %RSD | .6269709 | .3565100 | .3310871 | 2.407807 | 16.27497 | .8621728 | .1808865 |
| #1 | 15.34085 | 28.15873 | .1455626 | -.014410 | .7228569 | .1366614 | .7731192 |
| #2 | 15.47504 | 28.35709 | .1446602 | -.014661 | .9943855 | .1343442 | .7712183 |
| #3 | 15.52893 | 28.28887 | .1448271 | -.013978 | .8195823 | .1357730 | .7703985 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.415739** | **8.464244** | **.7308865** | **.0062173** | **2.482900** | **4.455384** | **.0328141** |
| Stddev | .058962 | .015160 | .0069079 | .0002208 | .009258 | .028670 | .0009610 |
| %RSD | 1.088710 | .1791116 | .9451449 | 3.552067 | .3728532 | .6434939 | 2.928772 |
| #1 | 5.349292 | 8.480932 | .7229459 | .0060130 | 2.492830 | 4.442301 | .0331953 |
| #2 | 5.461809 | 8.460479 | .7355125 | .0061873 | 2.474508 | 4.435590 | .0317210 |
| #3 | 5.436118 | 8.451321 | .7342010 | .0064516 | 2.481361 | 4.488262 | .0335261 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-21 Acquired: 1/12/2025 6:08:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA0 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5538418 | .0577874 | .1903597 |
| Stddev | .0029468 | .0009916 | .0014822 |
| %RSD | .5320608 | 1.715984 | .7786394 |
| #1 | .5528757 | .0568556 | .1887829 |
| #2 | .5514994 | .0576772 | .1917245 |
| #3 | .5571504 | .0588296 | .1905718 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3189.066 | 76086.62 | 10842.82 | 3518.586 | 3177.696 |
| Stddev | 5.418 | 202.92 | 75.40 | 2.973 | 5.056 |
| %RSD | .1699031 | .2666945 | .6953852 | .0844985 | .1591227 |
| #1 | 3191.901 | 76258.20 | 10779.63 | 3518.147 | 3173.663 |
| #2 | 3182.818 | 76139.04 | 10926.28 | 3521.754 | 3176.057 |
| #3 | 3192.478 | 75862.64 | 10822.54 | 3515.856 | 3183.369 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-22 Acquired: 1/12/2025 6:11:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0797301 | -.002504 | 3.658696 | .0359461 | .0071142 | 39.14588 |
| Stddev | .0006969 | .001047 | .006234 | .0016898 | .0028425 | .16230 |
| %RSD | .8740360 | 41.83008 | .1703817 | 4.700944 | 39.95565 | .4146057 |
| #1 | .0805343 | -.001484 | 3.651951 | .0372984 | .0041511 | 39.19703 |
| #2 | .0793034 | -.003577 | 3.659892 | .0340518 | .0073729 | 39.27645 |
| #3 | .0793527 | -.002451 | 3.664245 | .0364881 | .0098185 | 38.96417 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9713873 | .0032341 | .0114218 | 196.0807 | .1283871 | .0622461 |
| Stddev | .0072326 | .0001136 | .0000708 | .7893 | .0003420 | .0006661 |
| %RSD | .7445686 | 3.513941 | .6195781 | .4025165 | .2664172 | 1.070143 |
| #1 | .9766438 | .0032657 | .0113586 | 196.5700 | .1285876 | .0629788 |
| #2 | .9743793 | .0033286 | .0114085 | 196.5019 | .1279921 | .0616770 |
| #3 | .9631387 | .0031080 | .0114982 | 195.1702 | .1285815 | .0620825 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5980845 | 167.5276 | 4.310043 | 52.98343 | .1989503 | -.013528 |
| Stddev | .0048965 | .4374 | .026180 | .06920 | .0008501 | .000247 |
| %RSD | .8186922 | .2610815 | .6074241 | .1306034 | .4273082 | 1.823267 |
| #1 | .5924342 | 167.7988 | 4.330941 | 53.02979 | .1984157 | -.013342 |
| #2 | .6010862 | 167.7611 | 4.318511 | 53.01661 | .1985045 | -.013434 |
| #3 | .6007331 | 167.0231 | 4.280677 | 52.90389 | .1999306 | -.013808 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6112817 | .1177149 | 5.258543 | 6.931846 | F 13.11080 | .7363557 |
| Stddev | .0764333 | .0025185 | .007852 | .049743 | .05219 | .0020142 |
| %RSD | 12.50378 | 2.139469 | .1493195 | .7175968 | .3980392 | .2735324 |
| #1 | .6882483 | .1166664 | 5.256226 | 6.950296 | 13.05254 | .7369304 |
| #2 | .6102038 | .1158900 | 5.252111 | 6.969727 | 13.12660 | .7380200 |
| #3 | .5353930 | .1205882 | 5.267293 | 6.875514 | 13.15326 | .7341166 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-22 Acquired: 1/12/2025 6:11:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0065538 | 7.071884 | 7.863780 | .6541358 | .7053510 | .0678606 |
| Stddev | .0000477 | .041844 | .028774 | .0017986 | .0032197 | .0006933 |
| %RSD | .7274762 | .5916977 | .3659115 | .2749605 | .4564719 | 1.021594 |
| #1 | .0066052 | 7.026283 | 7.879438 | .6527227 | .7025445 | .0677618 |
| #2 | .0065451 | 7.080849 | 7.881331 | .6535244 | .7088660 | .0685979 |
| #3 | .0065110 | 7.108518 | 7.830572 | .6561605 | .7046426 | .0672220 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3715313 |
| Stddev | .0008310 |
| %RSD | .2236641 |
| #1 | .3718482 |
| #2 | .3721573 |
| #3 | .3705885 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2653.341 | 64510.28 | 9048.495 | 2948.606 | 3211.603 |
| Stddev | 7.048 | 83.41 | 24.301 | 4.944 | 8.024 |
| %RSD | .2656340 | .1292924 | .2685594 | .1676862 | .2498592 |
| #1 | 2654.125 | 64414.91 | 9073.246 | 2946.482 | 3216.353 |
| #2 | 2659.965 | 64546.35 | 9047.568 | 2954.258 | 3216.119 |
| #3 | 2645.934 | 64569.58 | 9024.671 | 2945.079 | 3202.339 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-01 Acquired: 1/12/2025 6:15:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN68 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0427157** | **-.001216** | **.3054178** | **.0225192** | **.0004136** | **56.94597** |
| Stddev | .0004362 | .003300 | .0025682 | .0021618 | .0009479 | .41220 |
| %RSD | 1.021203 | 271.4520 | .8408966 | 9.599881 | 229.1651 | .7238452 |
| #1 | .0432183 | .001922 | .3027257 | .0203485 | .0000865 | 56.60437 |
| #2 | .0424353 | -.004656 | .3056868 | .0225369 | .0014818 | 57.40381 |
| #3 | .0424935 | -.000913 | .3078410 | .0246720 | -.000327 | 56.82973 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6531618** | **.0029717** | **.0042326** | **33.30112** | **.1093819** | **.0514587** |
| Stddev | .0070178 | .0001078 | .0000201 | .23788 | .0003643 | .0002508 |
| %RSD | 1.074431 | 3.626890 | .4739549 | .7143413 | .3330880 | .4873699 |
| #1 | .6475431 | .0030961 | .0042110 | 33.09687 | .1094546 | .0515170 |
| #2 | .6610280 | .0029135 | .0042361 | 33.56231 | .1097044 | .0511839 |
| #3 | .6509144 | .0029056 | .0042507 | 33.24418 | .1089867 | .0516752 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1366706** | **107.7175** | **3.607638** | **16.94882** | **.1384997** | **-.009567** |
| Stddev | .0006371 | .7546 | .027699 | .10004 | .0004984 | .000389 |
| %RSD | .4661416 | .7004943 | .7677883 | .5902482 | .3598525 | 4.066961 |
| #1 | .1359484 | 107.1619 | 3.585085 | 16.90061 | .1379716 | -.009865 |
| #2 | .1369108 | 108.5766 | 3.638556 | 17.06384 | .1389618 | -.009127 |
| #3 | .1371527 | 107.4141 | 3.599274 | 16.88201 | .1385656 | -.009710 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2536527** | **.1223123** | **.4967156** | **5.620333** | **8.075321** | **.4570131** |
| Stddev | .2100959 | .0021103 | .0016526 | .075953 | .028669 | .0036748 |
| %RSD | 82.82816 | 1.725360 | .3327086 | 1.351401 | .3550173 | .8040848 |
| #1 | .4811026 | .1241583 | .4977341 | 5.541929 | 8.044340 | .4550416 |
| #2 | .0668511 | .1200117 | .4976039 | 5.693572 | 8.080711 | .4612529 |
| #3 | .2130046 | .1227668 | .4948088 | 5.625496 | 8.100912 | .4547448 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-01 Acquired: 1/12/2025 6:15:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN68 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0054254 | 2.849076 | F 18.28618 | .0156866 | .9377241 | .0598546 |
| Stddev | .0001626 | .016870 | .07122 | .0009717 | .0022774 | .0002451 |
| %RSD | 2.997145 | .5921222 | .3894543 | 6.194135 | .2428662 | .4094114 |
| #1 | .0052519 | 2.830846 | 18.34517 | .0166253 | .9403403 | .0599514 |
| #2 | .0055743 | 2.852247 | 18.20707 | .0146851 | .9361855 | .0600364 |
| #3 | .0054501 | 2.864136 | 18.30631 | .0157495 | .9366465 | .0595759 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0739371 |
| Stddev | .0005787 |
| %RSD | .7826206 |
| #1 | .0735112 |
| #2 | .0745959 |
| #3 | .0737043 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2759.033 | 66455.68 | 9342.200 | 3078.813 | 3390.255 |
| Stddev | 4.163 | 165.14 | 79.676 | 19.689 | 7.475 |
| %RSD | .1508865 | .2484916 | .8528590 | .6394977 | .2204866 |
| #1 | 2761.748 | 66485.88 | 9262.592 | 3094.127 | 3396.888 |
| #2 | 2761.111 | 66277.54 | 9421.944 | 3056.604 | 3391.721 |
| #3 | 2754.240 | 66603.64 | 9342.065 | 3085.708 | 3382.155 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-02 Acquired: 1/12/2025 6:19:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN69 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0564200** | **-.000895** | **.3471100** | **.0335989** | **-.002876** | **74.10778** |
| Stddev | .0018950 | .000317 | .0004733 | .0031218 | .001542 | .25590 |
| %RSD | 3.358797 | 35.43639 | .1363625 | 9.291222 | 53.62046 | .3453026 |
| #1 | .0543184 | -.001096 | .3469993 | .0319012 | -.004245 | 74.05076 |
| #2 | .0569429 | -.000529 | .3476289 | .0316939 | -.001205 | 73.88520 |
| #3 | .0579986 | -.001058 | .3467018 | .0372016 | -.003177 | 74.38737 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8251341** | **.0038052** | **.0055172** | **47.12315** | **.1480668** | **.0665174** |
| Stddev | .0012053 | .0001020 | .0000715 | .14412 | .0004584 | .0004940 |
| %RSD | .1460695 | 2.680639 | 1.296697 | .3058276 | .3096140 | .7426764 |
| #1 | .8250051 | .0038432 | .0054646 | 47.15756 | .1481515 | .0663191 |
| #2 | .8239986 | .0038828 | .0055987 | 46.96494 | .1475719 | .0661533 |
| #3 | .8263987 | .0036897 | .0054884 | 47.24695 | .1484770 | .0670797 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1618605** | **155.1081** | **5.292258** | **26.28943** | **.1795689** | **-.013341** |
| Stddev | .0008814 | .6636 | .011005 | .07829 | .0003343 | .000252 |
| %RSD | .5445354 | .4278479 | .2079480 | .2978086 | .1861626 | 1.888595 |
| #1 | .1609343 | 155.0096 | 5.291691 | 26.25484 | .1793858 | -.013066 |
| #2 | .1619584 | 154.4993 | 5.281548 | 26.23439 | .1793662 | -.013560 |
| #3 | .1626889 | 155.8155 | 5.303536 | 26.37906 | .1799548 | -.013398 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2862364** | **.1751232** | **.5910537** | **5.136026** | **9.855044** | **.6536858** |
| Stddev | .1240895 | .0015654 | .0022224 | .029329 | .013422 | .0028824 |
| %RSD | 43.35210 | .8938651 | .3759986 | .5710485 | .1361959 | .4409379 |
| #1 | .4042409 | .1765159 | .5909196 | 5.135572 | 9.839853 | .6523106 |
| #2 | .2976216 | .1734290 | .5933400 | 5.165579 | 9.859979 | .6517486 |
| #3 | .1568467 | .1754247 | .5889014 | 5.106926 | 9.865300 | .6569982 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-02 Acquired: 1/12/2025 6:19:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN69 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0054853 | 2.845557 | F 19.60156 | .0172256 | 1.077251 | .0806625 |
| Stddev | .0004295 | .005621 | .06030 | .0011021 | .003098 | .0000644 |
| %RSD | 7.830805 | .1975375 | .3076392 | 6.398159 | .2875886 | .0797941 |
| #1 | .0057262 | 2.839344 | 19.66882 | .0159649 | 1.079664 | .0806487 |
| #2 | .0049893 | 2.850289 | 19.58354 | .0180063 | 1.078332 | .0807327 |
| #3 | .0057403 | 2.847037 | 19.55232 | .0177057 | 1.073758 | .0806062 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0917661 |
| Stddev | .0003433 |
| %RSD | .3740544 |
| #1 | .0917181 |
| #2 | .0914494 |
| #3 | .0921308 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2840.888 | 65616.94 | 9434.501 | 3087.831 | 3405.219 |
| Stddev | 4.135 | 204.03 | 39.927 | 6.280 | 1.799 |
| %RSD | .1455434 | .3109426 | .4232035 | .2033807 | .0528358 |
| #1 | 2836.240 | 65441.81 | 9390.304 | 3089.449 | 3404.541 |
| #2 | 2844.158 | 65840.98 | 9445.235 | 3080.901 | 3403.857 |
| #3 | 2842.264 | 65568.02 | 9467.964 | 3093.144 | 3407.258 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-03 Acquired: 1/12/2025 6:23:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN70 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0510138** | **-.001079** | **.2994038** | **.0238426** | **-.002308** | **69.66189** |
| Stddev | .0016424 | .000986 | .0017210 | .0023825 | .000752 | .18149 |
| %RSD | 3.219463 | 91.37659 | .5748171 | 9.992688 | 32.56152 | .2605298 |
| #1 | .0509412 | -.000863 | .2978031 | .0220577 | -.001713 | 69.86894 |
| #2 | .0494089 | -.002155 | .3012241 | .0265480 | -.002060 | 69.58644 |
| #3 | .0526913 | -.000219 | .2991842 | .0229220 | -.003153 | 69.53030 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5945931** | **.0034444** | **.0048331** | **32.72079** | **.1282289** | **.0617833** |
| Stddev | .0004155 | .0000957 | .0000476 | .08731 | .0004019 | .0003208 |
| %RSD | .0698885 | 2.777111 | .9855735 | .2668401 | .3134488 | .5192935 |
| #1 | .5949879 | .0033512 | .0048881 | 32.80799 | .1278659 | .0618962 |
| #2 | .5941595 | .0034398 | .0048064 | 32.63336 | .1286608 | .0614212 |
| #3 | .5946318 | .0035423 | .0048048 | 32.72103 | .1281601 | .0620324 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1385746** | **133.1322** | **4.345882** | **20.10175** | **.1660569** | **-.012273** |
| Stddev | .0026845 | .2171 | .008899 | .06903 | .0001416 | .000256 |
| %RSD | 1.937198 | .1631034 | .2047725 | .3434062 | .0852843 | 2.088259 |
| #1 | .1387623 | 133.3830 | 4.344754 | 20.17162 | .1660278 | -.012482 |
| #2 | .1358012 | 133.0070 | 4.337600 | 20.03359 | .1662108 | -.011987 |
| #3 | .1411602 | 133.0068 | 4.355291 | 20.10004 | .1659321 | -.012351 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4089150** | **.1570876** | **.5205876** | **3.812714** | **7.334572** | **.5535365** |
| Stddev | .3912505 | .0022863 | .0034119 | .054786 | .009333 | .0007925 |
| %RSD | 95.68015 | 1.455395 | .6553969 | 1.436935 | .1272512 | .1431761 |
| #1 | .5716753 | .1595157 | .5187452 | 3.873187 | 7.343300 | .5544417 |
| #2 | -.037443 | .1549763 | .5184931 | 3.766391 | 7.324733 | .5532003 |
| #3 | .692513 | .1567709 | .5245247 | 3.798563 | 7.335684 | .5529675 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-03 Acquired: 1/12/2025 6:23:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN70 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0050987 | 1.635617 | F 19.07842 | .0158756 | 1.065193 | .0684422 |
| Stddev | .0005966 | .008427 | .10945 | .0003665 | .003562 | .0002383 |
| %RSD | 11.70057 | .5151891 | .5736788 | 2.308405 | .3344346 | .3481486 |
| #1 | .0047860 | 1.627149 | 19.00870 | .0162657 | 1.064127 | .0686920 |
| #2 | .0047234 | 1.635700 | 19.02198 | .0155385 | 1.062285 | .0684173 |
| #3 | .0057866 | 1.644002 | 19.20456 | .0158225 | 1.069166 | .0682174 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0738116 |
| Stddev | .0003177 |
| %RSD | .4303623 |
| #1 | .0741117 |
| #2 | .0738442 |
| #3 | .0734789 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2768.274 | 66090.24 | 9225.723 | 3088.120 | 3405.235 |
| Stddev | 8.070 | 86.70 | 31.004 | 11.080 | 6.760 |
| %RSD | .2915298 | .1311805 | .3360606 | .3587839 | .1985250 |
| #1 | 2771.319 | 66106.24 | 9248.280 | 3093.148 | 3404.099 |
| #2 | 2774.379 | 66167.83 | 9238.521 | 3095.795 | 3412.491 |
| #3 | 2759.124 | 65996.66 | 9190.369 | 3075.418 | 3399.115 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV003 Acquired: 1/12/2025 6:36:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.664233** | **4.746254** | **24.09615** | **4.706690** | **4.627015** | **387.2141** |
| Stddev | .006754 | .019564 | .01480 | .004612 | .006766 | 4.7207 |
| %RSD | .1448074 | .4121981 | .0614265 | .0979854 | .1462314 | 1.219157 |
| #1 | 4.663768 | 4.766541 | 24.10646 | 4.711243 | 4.622744 | 390.2160 |
| #2 | 4.671207 | 4.744718 | 24.07919 | 4.702021 | 4.623485 | 389.6535 |
| #3 | 4.657723 | 4.727503 | 24.10281 | 4.706805 | 4.634816 | 381.7727 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.995560** | **.4936652** | **2.432618** | **389.7278** | **15.26096** | **2.438101** |
| Stddev | .050044 | .0024014 | .000543 | .8952 | .04956 | .003801 |
| %RSD | .5006631 | .4864410 | .0223151 | .2297091 | .3247220 | .1558814 |
| #1 | 10.04345 | .4957974 | 2.433203 | 390.7477 | 15.30104 | 2.439230 |
| #2 | 9.94361 | .4941343 | 2.432131 | 389.0719 | 15.27629 | 2.433864 |
| #3 | 9.99962 | .4910639 | 2.432521 | 389.3639 | 15.20556 | 2.441209 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.66376** | **390.7593** | **14.95177** | **245.0365** | **2.434594** | **1.224693** |
| Stddev | .04994 | 1.3650 | .04136 | .6948 | .000913 | .002350 |
| %RSD | .3405668 | .3493192 | .2766245 | .2835342 | .0375104 | .1918963 |
| #1 | 14.66936 | 391.1885 | 14.97047 | 245.5008 | 2.435224 | 1.226461 |
| #2 | 14.71066 | 391.8582 | 14.98048 | 245.3709 | 2.433547 | 1.225592 |
| #3 | 14.61125 | 389.2313 | 14.90436 | 244.2377 | 2.435011 | 1.222026 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **397.7756** | **2.423182** | **15.76756** | **149.5589** | **4.903231** | F **5.874915** |
| Stddev | 1.2919 | .005628 | .04978 | .6309 | .002927 | .022657 |
| %RSD | .3247824 | .2322690 | .3157139 | .4218374 | .0596858 | .3856572 |
| #1 | 398.6447 | 2.429650 | 15.82242 | 149.5755 | 4.901759 | 5.895745 |
| #2 | 398.3911 | 2.420505 | 15.75501 | 150.1813 | 4.901333 | 5.878209 |
| #3 | 396.2910 | 2.419392 | 15.72526 | 148.9198 | 4.906601 | 5.850791 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV003 Acquired: 1/12/2025 6:36:07 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.637677** | **4.870005** | **4.886960** | **4.834336** | **4.886249** | **4.943298** |
| Stddev | .009273 | .007445 | .006483 | .003137 | .016268 | .015626 |
| %RSD | .1999388 | .1528671 | .1326529 | .0648914 | .3329401 | .3160980 |
| #1 | 4.633277 | 4.877190 | 4.881607 | 4.831104 | 4.894705 | 4.946058 |
| #2 | 4.631424 | 4.862325 | 4.894168 | 4.834537 | 4.896548 | 4.957361 |
| #3 | 4.648331 | 4.870499 | 4.885107 | 4.837369 | 4.867494 | 4.926477 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.932904** |
| Stddev | .018949 |
| %RSD | .3841251 |
| #1 | 4.954728 |
| #2 | 4.920642 |
| #3 | 4.923342 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2003.574** | **50050.35** | **7688.376** | **2341.438** | **2701.451** |
| Stddev | 1.677 | 176.93 | 36.668 | 3.689 | 1.893 |
| %RSD | .0836999 | .3535100 | .4769308 | .1575674 | .0700873 |
| #1 | 2003.822 | 49859.08 | 7647.625 | 2338.357 | 2699.474 |
| #2 | 2005.113 | 50083.83 | 7698.795 | 2345.526 | 2703.247 |
| #3 | 2001.786 | 50208.16 | 7718.706 | 2340.430 | 2701.633 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB003 Acquired: 1/12/2025 6:40:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000717** | **.0009525** | **.0002994** | **.0004778** | **-.000740** | **.0040661** | **-.000687** |
| Stddev | .001311 | .0001607 | .0004680 | .0005863 | .000824 | .0054433 | .000162 |
| %RSD | 182.8253 | 16.87039 | 156.3214 | 122.7162 | 111.3639 | 133.8702 | 23.55891 |
| #1 | .000574 | .0010761 | .0001964 | -.000158 | -.001438 | .0081570 | -.000520 |
| #2 | -.002047 | .0007708 | .0008104 | .000998 | .000169 | .0061532 | -.000844 |
| #3 | -.000678 | .0010105 | -.000109 | .000593 | -.000951 | -.002112 | -.000696 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000032** | **.0000811** | **.0162734** | **.0006683** | **-.000086** | **-.000252** | **.0171196** |
| Stddev | .000016 | .0000261 | .0064704 | .0000763 | .000371 | .000477 | .0021712 |
| %RSD | 50.70069 | 32.20584 | 39.76061 | 11.41167 | 432.7047 | 189.3210 | 12.68243 |
| #1 | -.000035 | .0001076 | .0136817 | .0007427 | .000219 | -.000687 | .0166244 |
| #2 | -.000014 | .0000806 | .0236379 | .0005903 | -.000499 | .000258 | .0152389 |
| #3 | -.000046 | .0000553 | .0115006 | .0006719 | .000023 | -.000327 | .0194957 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003354** | **.0072125** | **-.000148** | **.0004622** | **.0618160** | **-.003275** | **.0004418** |
| Stddev | .0004034 | .0109734 | .000262 | .0003227 | .2351198 | .000917 | .0002082 |
| %RSD | 120.2550 | 152.1434 | 177.3034 | 69.80919 | 380.3542 | 28.00106 | 47.11051 |
| #1 | .0007910 | .0144278 | .000121 | .0003802 | -.196986 | -.002505 | .0003261 |
| #2 | .0001916 | -.005416 | -.000162 | .0001885 | .120171 | -.003031 | .0003173 |
| #3 | .0000237 | .012626 | -.000402 | .0008180 | .262263 | -.004289 | .0006822 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1882169** | **-.002691** | **.0014684** | **.0002573** | **-.001618** | **.0083757** | **-.000369** |
| Stddev | .0256271 | .001447 | .0006772 | .0001943 | .004042 | .0026631 | .000499 |
| %RSD | 13.61574 | 53.77024 | 46.11780 | 75.53642 | 249.8052 | 31.79619 | 135.0830 |
| #1 | .1807507 | -.001845 | .0019395 | .0000344 | .000590 | .0055321 | .000133 |
| #2 | .1671520 | -.001866 | .0017734 | .0003462 | .000839 | .0108114 | -.000865 |
| #3 | .2167480 | -.004362 | .0006924 | .0003912 | -.006283 | .0087835 | -.000375 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB003 Acquired: 1/12/2025 6:40:25 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB003 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0002902 | .0015669 | .0000312 |
| Stddev | .0010364 | .0015674 | .0000498 |
| %RSD | 357.0534 | 100.0323 | 159.9465 |
| | | | |
| #1 | .0003188 | .0013219 | .0000191 |
| #2 | -.000760 | .0032423 | .0000860 |
| #3 | .001312 | .0001364 | -.000012 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2512.051 | 58744.32 | 8036.538 | 2752.043 | 3559.967 |
| Stddev | 5.357 | 134.47 | 15.707 | 5.707 | 5.093 |
| %RSD | .2132468 | .2288999 | .1954437 | .2073584 | .1430602 |
| | | | | | |
| #1 | 2515.798 | 58619.55 | 8030.416 | 2752.704 | 3565.825 |
| #2 | 2514.440 | 58886.74 | 8024.815 | 2757.391 | 3557.484 |
| #3 | 2505.915 | 58726.66 | 8054.385 | 2746.035 | 3556.592 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-04 Acquired: 1/12/2025 6:44:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN71 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0771513** | **-.002385** | **.5180487** | **.0309834** | **-.003329** | **62.82081** |
| Stddev | .0038377 | .001784 | .0044859 | .0001560 | .001683 | .16331 |
| %RSD | 4.974239 | 74.78328 | .8659132 | .5035453 | 50.56820 | .2599586 |
| #1 | .0739738 | -.003970 | .5215217 | .0311121 | -.004870 | 62.98478 |
| #2 | .0760651 | -.000454 | .5196403 | .0308099 | -.003583 | 62.81949 |
| #3 | .0814150 | -.002732 | .5129840 | .0310282 | -.001533 | 62.65817 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6572323** | **.0035438** | **.0069180** | **116.7967** | **.1301129** | **.0750223** |
| Stddev | .0020858 | .0000609 | .0001113 | .2860 | .0002715 | .0008471 |
| %RSD | .3173574 | 1.717234 | 1.608912 | .2449032 | .2086773 | 1.129109 |
| #1 | .6596372 | .0036060 | .0069917 | 117.1260 | .1298945 | .0757150 |
| #2 | .6559164 | .0035410 | .0069722 | 116.6530 | .1300273 | .0752741 |
| #3 | .6561433 | .0034844 | .0067899 | 116.6109 | .1304169 | .0740779 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2898058** | **170.8839** | **6.158548** | **34.99374** | **.1683963** | **-.016061** |
| Stddev | .0011388 | .4212 | .012010 | .14667 | .0013738 | .000118 |
| %RSD | .3929653 | .2465033 | .1950194 | .4191359 | .8158307 | .7327149 |
| #1 | .2892109 | 171.3584 | 6.170600 | 35.15715 | .1697711 | -.016057 |
| #2 | .2911188 | 170.7389 | 6.146579 | 34.95054 | .1683945 | -.016181 |
| #3 | .2890875 | 170.5542 | 6.158464 | 34.87351 | .1670234 | -.015946 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4337807** | **.1397230** | **.8151235** | **4.759359** | **7.427682** | **.7132736** |
| Stddev | .3189346 | .0007471 | .0018450 | .039898 | .052905 | .0006967 |
| %RSD | 73.52440 | .5347056 | .2263458 | .8382968 | .7122670 | .0976781 |
| #1 | .5844445 | .1392065 | .8135766 | 4.783579 | 7.472602 | .7140780 |
| #2 | .6494721 | .1393829 | .8171655 | 4.713310 | 7.441077 | .7128602 |
| #3 | .0674254 | .1405797 | .8146282 | 4.781188 | 7.369367 | .7128826 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-04 Acquired: 1/12/2025 6:44:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN71 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0053653 | 1.361231 | F 18.64092 | .1142138 | .9185148 | .0771838 |
| Stddev | .0004159 | .012544 | .05525 | .0005541 | .0020910 | .0011534 |
| %RSD | 7.752179 | .9215541 | .2964141 | .4851591 | .2276467 | 1.494394 |
| #1 | .0054439 | 1.375368 | 18.62555 | .1147825 | .9164443 | .0785155 |
| #2 | .0049156 | 1.356899 | 18.59497 | .1141834 | .9184744 | .0765315 |
| #3 | .0057363 | 1.351427 | 18.70223 | .1136755 | .9206257 | .0765043 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1459283 |
| Stddev | .0003381 |
| %RSD | .2316681 |
| #1 | .1461414 |
| #2 | .1461050 |
| #3 | .1455385 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2864.493 | 69118.55 | 9691.941 | 3188.396 | 3323.135 |
| Stddev | 7.881 | 68.95 | 36.605 | 1.268 | 18.087 |
| %RSD | .2751249 | .0997573 | .3776857 | .0397793 | .5442657 |
| #1 | 2860.896 | 69057.24 | 9733.245 | 3188.825 | 3312.261 |
| #2 | 2859.051 | 69105.22 | 9679.064 | 3186.969 | 3313.131 |
| #3 | 2873.530 | 69193.20 | 9663.515 | 3189.394 | 3344.014 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-05 Acquired: 1/12/2025 6:48:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN72 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0630580** | **-.002508** | **.4209436** | **.0249488** | **-.001383** | **55.43049** |
| Stddev | .0029812 | .001579 | .0015279 | .0016875 | .002629 | .02424 |
| %RSD | 4.727622 | 62.97570 | .3629688 | 6.763883 | 190.1070 | .0437318 |
| #1 | .0662116 | -.004139 | .4205881 | .0266536 | -.004406 | 55.40757 |
| #2 | .0626764 | -.000986 | .4196249 | .0249136 | -.000103 | 55.45587 |
| #3 | .0602861 | -.002399 | .4226180 | .0232792 | .000361 | 55.42803 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6488441** | **.0034510** | **.0059789** | **229.7485** | **.1072676** | **.0731045** |
| Stddev | .0005357 | .0000478 | .0001293 | .0749 | .0002296 | .0001792 |
| %RSD | .0825696 | 1.385281 | 2.162934 | .0326020 | .2140254 | .2451924 |
| #1 | .6483374 | .0034293 | .0061206 | 229.6700 | .1070026 | .0730488 |
| #2 | .6494048 | .0034179 | .0059489 | 229.7561 | .1073944 | .0729598 |
| #3 | .6487902 | .0035058 | .0058673 | 229.8193 | .1074059 | .0733050 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2649655** | **134.2807** | **6.132835** | **44.71888** | **.1512203** | **-.013439** |
| Stddev | .0012578 | .0834 | .006106 | .08082 | .0002159 | .000206 |
| %RSD | .4746830 | .0621245 | .0995570 | .1807371 | .1427622 | 1.533946 |
| #1 | .2663592 | 134.1855 | 6.139784 | 44.66110 | .1514621 | -.013368 |
| #2 | .2646224 | 134.3160 | 6.128329 | 44.68429 | .1511517 | -.013279 |
| #3 | .2639149 | 134.3407 | 6.130392 | 44.81124 | .1510470 | -.013672 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6508810** | **.1260383** | **.6587416** | **5.691419** | **6.431856** | **.5696132** |
| Stddev | .0592686 | .0025555 | .0005006 | .046076 | .014991 | .0007436 |
| %RSD | 9.105897 | 2.027528 | .0759871 | .8095648 | .2330736 | .1305408 |
| #1 | .6530755 | .1277304 | .6589774 | 5.737148 | 6.442577 | .5695174 |
| #2 | .7090219 | .1230987 | .6581667 | 5.645004 | 6.438264 | .5689222 |
| #3 | .5905457 | .1272859 | .6590807 | 5.692105 | 6.414726 | .5704001 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-05 Acquired: 1/12/2025 6:48:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN72 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0035095 | .9737081 | F 17.69328 | .0320673 | .9146053 | .0863668 |
| Stddev | .0001023 | .0086763 | .07058 | .0006014 | .0014939 | .0009639 |
| %RSD | 2.914767 | .8910600 | .3988927 | 1.875567 | .1633358 | 1.116034 |
| #1 | .0036269 | .9737952 | 17.77393 | .0314376 | .9142841 | .0853256 |
| #2 | .0034390 | .9649885 | 17.64286 | .0321286 | .9132981 | .0865470 |
| #3 | .0034628 | .9823405 | 17.66303 | .0326358 | .9162336 | .0872279 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2788411 |
| Stddev | .0005427 |
| %RSD | .1946116 |
| #1 | .2792608 |
| #2 | .2782283 |
| #3 | .2790342 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2796.789 | 68427.09 | 9784.599 | 3176.700 | 3028.189 |
| Stddev | 7.029 | 223.01 | 25.897 | 3.197 | 5.569 |
| %RSD | .2513174 | .3259146 | .2646679 | .1006241 | .1838926 |
| #1 | 2803.203 | 68680.93 | 9814.494 | 3178.521 | 3030.168 |
| #2 | 2789.275 | 68262.67 | 9769.033 | 3173.009 | 3021.901 |
| #3 | 2797.891 | 68337.66 | 9770.271 | 3178.570 | 3032.498 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-06 Acquired: 1/12/2025 6:52:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN73 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0687025** | **-.004317** | **.7079544** | **.0236890** | **-.002383** | **63.59413** |
| Stddev | .0020644 | .002615 | .0025398 | .0008138 | .000689 | .24497 |
| %RSD | 3.004802 | 60.56704 | .3587518 | 3.435407 | 28.90960 | .3852012 |
| #1 | .0697273 | -.005739 | .7056956 | .0245497 | -.002106 | 63.48047 |
| #2 | .0700540 | -.001300 | .7074638 | .0229320 | -.001876 | 63.42665 |
| #3 | .0663263 | -.005913 | .7107037 | .0235852 | -.003168 | 63.87528 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.181276** | **.0040691** | **.0066808** | **251.4082** | **.1128082** | **.0824303** |
| Stddev | .005593 | .0000493 | .0000713 | .7782 | .0005725 | .0001753 |
| %RSD | .4735094 | 1.212301 | 1.067465 | .3095278 | .5075020 | .2126942 |
| #1 | 1.177452 | .0041254 | .0066060 | 250.8618 | .1123198 | .0826227 |
| #2 | 1.178680 | .0040481 | .0067480 | 251.0637 | .1134382 | .0822795 |
| #3 | 1.187695 | .0040337 | .0066885 | 252.2992 | .1126666 | .0823886 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2892746** | **150.9535** | **8.333252** | **48.25456** | **.1600570** | **-.013813** |
| Stddev | .0025406 | .6020 | .029859 | .06053 | .0002629 | .000450 |
| %RSD | .8782770 | .3988262 | .3583062 | .1254311 | .1642635 | 3.259209 |
| #1 | .2915989 | 150.6783 | 8.304317 | 48.19243 | .1602623 | -.013587 |
| #2 | .2896626 | 150.5383 | 8.331484 | 48.25791 | .1601481 | -.014332 |
| #3 | .2865623 | 151.6440 | 8.363955 | 48.31334 | .1597607 | -.013521 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7285322** | **.1393159** | **.7425741** | **6.506536** | **5.846929** | **.6522709** |
| Stddev | .0997606 | .0027527 | .0006463 | .053977 | .013962 | .0029285 |
| %RSD | 13.69336 | 1.975850 | .0870387 | .8295863 | .2387878 | .4489631 |
| #1 | .8176395 | .1381411 | .7426898 | 6.564817 | 5.832795 | .6503095 |
| #2 | .6207561 | .1424611 | .7418777 | 6.458263 | 5.847278 | .6508661 |
| #3 | .7472011 | .1373456 | .7431548 | 6.496528 | 5.860712 | .6556371 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-06 Acquired: 1/12/2025 6:52:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN73 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0048275** | **.9534984** | F **17.70311** | **.0579690** | **1.033752** | **.0953452** |
| Stddev | .0003224 | .0022154 | .04570 | .0014938 | .002544 | .0011057 |
| %RSD | 6.677900 | .2323413 | .2581697 | 2.576883 | .2460833 | 1.159687 |
| #1 | .0044601 | .9512571 | 17.70042 | .0562891 | 1.033257 | .0942496 |
| #2 | .0050630 | .9556869 | 17.65881 | .0591478 | 1.036507 | .0964607 |
| #3 | .0049594 | .9535512 | 17.75010 | .0584702 | 1.031492 | .0953253 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.3204877** |
| Stddev | .0014304 |
| %RSD | .4463269 |
| #1 | .3200265 |
| #2 | .3193448 |
| #3 | .3220919 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2933.485** | **69635.92** | **10106.57** | **3237.764** | **3127.088** |
| Stddev | 1.161 | 49.81 | 48.16 | 8.594 | 2.970 |
| %RSD | .0395769 | .0715353 | .4764933 | .2654417 | .0949645 |
| #1 | 2934.416 | 69595.82 | 10088.34 | 3237.671 | 3130.275 |
| #2 | 2933.856 | 69620.25 | 10070.19 | 3246.404 | 3126.588 |
| #3 | 2932.184 | 69691.69 | 10161.18 | 3229.216 | 3124.399 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-07 Acquired: 1/12/2025 6:56:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN74 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0540699** | **-.004756** | **.2897432** | **.0165061** | **-.001999** | **52.35275** |
| Stddev | .0038385 | .002217 | .0025136 | .0013774 | .002164 | .41810 |
| %RSD | 7.099074 | 46.62711 | .8675154 | 8.345071 | 108.2426 | .7986148 |
| #1 | .0530315 | -.007194 | .2869031 | .0180899 | .000492 | 52.60627 |
| #2 | .0508574 | -.002861 | .2916811 | .0155877 | -.003079 | 51.87018 |
| #3 | .0583207 | -.004212 | .2906455 | .0158407 | -.003411 | 52.58181 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5399464** | **.0031613** | **.0056293** | **348.4688** | **.1025632** | **.0717503** |
| Stddev | .0060103 | .0000596 | .0001211 | 1.3071 | .0005646 | .0002713 |
| %RSD | 1.113124 | 1.884746 | 2.151922 | .3751101 | .5504636 | .3780868 |
| #1 | .5412515 | .0032014 | .0055515 | 347.5606 | .1029166 | .0719758 |
| #2 | .5333909 | .0031897 | .0057689 | 349.9670 | .1019121 | .0718258 |
| #3 | .5451970 | .0030928 | .0055676 | 347.8789 | .1028609 | .0714492 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2471139** | **133.5324** | **6.309147** | **45.55147** | **.1478293** | **-.013007** |
| Stddev | .0015506 | 1.0121 | .058720 | .30144 | .0003553 | .000107 |
| %RSD | .6274669 | .7579109 | .9307198 | .6617496 | .2403744 | .8235185 |
| #1 | .2473167 | 133.9554 | 6.322812 | 45.68614 | .1482113 | -.013078 |
| #2 | .2485531 | 132.3775 | 6.244799 | 45.20617 | .1477680 | -.013058 |
| #3 | .2454719 | 134.2643 | 6.359830 | 45.76209 | .1475086 | -.012884 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6230220** | **.1184647** | **.5500295** | **6.199276** | **5.527864** | **.5710301** |
| Stddev | .1042572 | .0003073 | .0041343 | .076081 | .024641 | .0044213 |
| %RSD | 16.73411 | .2594039 | .7516505 | 1.227256 | .4457622 | .7742625 |
| #1 | .5946922 | .1187707 | .5507565 | 6.265777 | 5.502929 | .5730535 |
| #2 | .7385162 | .1184674 | .5455799 | 6.116311 | 5.528464 | .5659593 |
| #3 | .5358576 | .1181561 | .5537521 | 6.215740 | 5.552200 | .5740777 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-07 Acquired: 1/12/2025 6:56:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN74 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0031544 | .7312700 | F 16.96257 | .0129512 | .9043963 | .0994808 |
| Stddev | .0003075 | .0091067 | .06626 | .0002509 | .0040428 | .0012827 |
| %RSD | 9.748430 | 1.245333 | .3906131 | 1.936975 | .4470160 | 1.289394 |
| #1 | .0028229 | .7225798 | 16.94005 | .0126667 | .9043486 | .1008015 |
| #2 | .0032100 | .7407428 | 16.91051 | .0131410 | .9003776 | .0982398 |
| #3 | .0034304 | .7304873 | 17.03716 | .0130457 | .9084628 | .0994010 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4013092 |
| Stddev | .0032173 |
| %RSD | .8016992 |
| #1 | .4031645 |
| #2 | .3975941 |
| #3 | .4031688 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2771.944 | 68875.16 | 9794.880 | 3177.758 | 3011.657 |
| Stddev | 3.186 | 234.25 | 20.401 | 13.312 | 3.283 |
| %RSD | .1149246 | .3401128 | .2082789 | .4189014 | .1090066 |
| #1 | 2775.548 | 68816.90 | 9804.075 | 3175.376 | 3014.903 |
| #2 | 2770.779 | 69133.05 | 9771.500 | 3192.100 | 3008.339 |
| #3 | 2769.504 | 68675.54 | 9809.065 | 3165.798 | 3011.730 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-08 Acquired: 1/12/2025 7:00:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0931803** | **-.002685** | **4.358910** | **.0327541** | **-.001625** | **55.26881** |
| Stddev | .0018381 | .002236 | .004365 | .0011744 | .001462 | .40326 |
| %RSD | 1.972664 | 83.27578 | .1001437 | 3.585447 | 89.96066 | .7296343 |
| #1 | .0951116 | -.001041 | 4.363682 | .0331607 | -.002995 | 55.73155 |
| #2 | .0929770 | -.005231 | 4.357930 | .0314305 | -.001794 | 54.99246 |
| #3 | .0914523 | -.001783 | 4.355118 | .0336712 | -.000086 | 55.08242 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.928328** | **.0041548** | **.0097529** | **60.10163** | **.1632940** | **.0685493** |
| Stddev | .011970 | .0001147 | .0001076 | .37357 | .0007399 | .0001635 |
| %RSD | .6207597 | 2.761419 | 1.103622 | .6215642 | .4530808 | .2385891 |
| #1 | 1.942150 | .0040225 | .0096399 | 60.51694 | .1641130 | .0684167 |
| #2 | 1.921427 | .0042263 | .0098543 | 59.79302 | .1626741 | .0684991 |
| #3 | 1.921408 | .0042156 | .0097646 | 59.99493 | .1630949 | .0687321 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3657141** | **139.5326** | **6.655849** | **18.00053** | **.1668007** | **-.009256** |
| Stddev | .0020402 | 1.0122 | .044161 | .06036 | .0000876 | .000251 |
| %RSD | .5578546 | .7254105 | .6634932 | .3353116 | .0525381 | 2.716338 |
| #1 | .3667345 | 140.6624 | 6.703387 | 18.06764 | .1668790 | -.009026 |
| #2 | .3670428 | 138.7085 | 6.616101 | 17.95067 | .1668170 | -.009217 |
| #3 | .3633651 | 139.2270 | 6.648060 | 17.98330 | .1667060 | -.009524 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4267881** | **.1427820** | **5.655445** | **5.776910** | F **12.12173** | **.6064567** |
| Stddev | .0587472 | .0033769 | .022810 | .059675 | .02100 | .0063034 |
| %RSD | 13.76496 | 2.365102 | .4033223 | 1.032987 | .1732081 | 1.039388 |
| #1 | .4819311 | .1407106 | 5.672510 | 5.837656 | 12.09774 | .6130792 |
| #2 | .4334317 | .1409567 | 5.664287 | 5.774705 | 12.13675 | .6005301 |
| #3 | .3650015 | .1466788 | 5.629538 | 5.718368 | 12.13070 | .6057609 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-08 Acquired: 1/12/2025 7:00:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0033143 | 4.069829 | F 18.05764 | .2838205 | .9273368 | .0777503 |
| Stddev | .0001179 | .003300 | .07435 | .0010513 | .0030131 | .0003297 |
| %RSD | 3.557981 | .0810928 | .4117596 | .3704110 | .3249231 | .4240108 |
| #1 | .0033723 | 4.073603 | 17.97346 | .2837525 | .9250638 | .0774476 |
| #2 | .0031786 | 4.068395 | 18.11435 | .2849041 | .9307546 | .0777016 |
| #3 | .0033919 | 4.067488 | 18.08511 | .2828048 | .9261921 | .0781016 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1816731 |
| Stddev | .0014527 |
| %RSD | .7996428 |
| #1 | .1833463 |
| #2 | .1807321 |
| #3 | .1809410 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2910.736 | 69279.59 | 9715.372 | 3181.760 | 3385.569 |
| Stddev | 1.122 | 152.89 | 63.564 | 9.290 | 4.874 |
| %RSD | .0385408 | .2206877 | .6542598 | .2919912 | .1439784 |
| #1 | 2911.710 | 69124.52 | 9782.193 | 3175.121 | 3382.286 |
| #2 | 2909.509 | 69284.03 | 9655.664 | 3177.783 | 3383.252 |
| #3 | 2910.988 | 69430.21 | 9708.258 | 3192.377 | 3391.170 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-09 Acquired: 1/12/2025 7:04:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1003929** | **-.005067** | **5.436576** | **.0287918** | **.0008713** | **53.89251** |
| Stddev | .0022668 | .002603 | .016599 | .0012324 | .0009443 | .19093 |
| %RSD | 2.257926 | 51.36590 | .3053272 | 4.280281 | 108.3759 | .3542839 |
| #1 | .1025401 | -.007293 | 5.420489 | .0298443 | .0010830 | 53.70600 |
| #2 | .1006158 | -.005703 | 5.453644 | .0274361 | .0016918 | 53.88396 |
| #3 | .0980229 | -.002206 | 5.435595 | .0290951 | -.000161 | 54.08758 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.095898** | **.0044906** | **.0111308** | **63.17137** | **.1701722** | **.0761254** |
| Stddev | .007850 | .0000478 | .0000812 | .17179 | .0005771 | .0003474 |
| %RSD | .3745616 | 1.063538 | .7296566 | .2719464 | .3391062 | .4563146 |
| #1 | 2.087134 | .0044896 | .0112203 | 62.99271 | .1707029 | .0757247 |
| #2 | 2.102285 | .0045389 | .0111105 | 63.18605 | .1695579 | .0763097 |
| #3 | 2.098274 | .0044434 | .0110617 | 63.33535 | .1702557 | .0763418 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3677888** | **137.7326** | **6.756560** | **19.44947** | **.1894222** | **-.010469** |
| Stddev | .0009390 | .5389 | .032062 | .09850 | .0010809 | .000238 |
| %RSD | .2553187 | .3912770 | .4745317 | .5064233 | .5706012 | 2.269827 |
| #1 | .3674817 | 137.3276 | 6.721040 | 19.36333 | .1882294 | -.010611 |
| #2 | .3688429 | 137.5259 | 6.783360 | 19.42824 | .1903367 | -.010602 |
| #3 | .3670417 | 138.3442 | 6.765278 | 19.55686 | .1897006 | -.010195 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3527979** | **.1437763** | **6.148886** | **5.363096** | F **13.99806** | **.5926442** |
| Stddev | .2343401 | .0016961 | .025465 | .035231 | .02594 | .0032035 |
| %RSD | 66.42334 | 1.179707 | .4141424 | .6569115 | .1852892 | .5405360 |
| #1 | .1383416 | .1457076 | 6.178102 | 5.401855 | 13.96954 | .5910936 |
| #2 | .6029304 | .1430925 | 6.137156 | 5.333016 | 14.02024 | .5905110 |
| #3 | .3171216 | .1425288 | 6.131399 | 5.354416 | 14.00439 | .5963279 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-09 Acquired: 1/12/2025 7:04:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0043671 | 4.344837 | F 17.63576 | .2051737 | .8405796 | .0784117 |
| Stddev | .0000957 | .007046 | .04681 | .0020774 | .0031261 | .0008209 |
| %RSD | 2.191538 | .1621640 | .2654336 | 1.012520 | .3719031 | 1.046953 |
| #1 | .0042586 | 4.336719 | 17.59099 | .2028617 | .8411067 | .0774943 |
| #2 | .0044397 | 4.348428 | 17.68438 | .2057762 | .8434087 | .0790770 |
| #3 | .0044030 | 4.349364 | 17.63192 | .2068833 | .8372235 | .0786639 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1886160 |
| Stddev | .0007734 |
| %RSD | .4100208 |
| #1 | .1880728 |
| #2 | .1882737 |
| #3 | .1895014 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2900.797 | 73488.05 | 9880.634 | 3349.863 | 3240.525 |
| Stddev | 1.208 | 225.82 | 30.014 | 6.351 | 3.471 |
| %RSD | .0416445 | .3072924 | .3037703 | .1895936 | .1071277 |
| #1 | 2901.663 | 73461.80 | 9846.317 | 3344.738 | 3244.407 |
| #2 | 2901.312 | 73725.85 | 9893.593 | 3347.884 | 3237.719 |
| #3 | 2899.417 | 73276.50 | 9901.992 | 3356.968 | 3239.449 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-10 Acquired: 1/12/2025 7:08:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0983179** | **-.005677** | **5.622915** | **.0331167** | **-.003260** | **59.50756** |
| Stddev | .0012532 | .002642 | .006759 | .0019582 | .003327 | .06835 |
| %RSD | 1.274634 | 46.52784 | .1202114 | 5.913083 | 102.0737 | .1148628 |
| #1 | .0996642 | -.003074 | 5.625922 | .0328989 | -.000465 | 59.53933 |
| #2 | .0971853 | -.005602 | 5.615174 | .0351747 | -.006940 | 59.55425 |
| #3 | .0981042 | -.008356 | 5.627650 | .0312765 | -.002374 | 59.42911 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.289963** | **.0046252** | **.0111373** | **110.8584** | **.1515207** | **.0728612** |
| Stddev | .003379 | .0001070 | .0001475 | .0601 | .0003772 | .0002863 |
| %RSD | .1475442 | 2.313638 | 1.324088 | .0542505 | .2489246 | .3929577 |
| #1 | 2.286688 | .0047209 | .0112980 | 110.7913 | .1513362 | .0727481 |
| #2 | 2.293437 | .0045097 | .0110081 | 110.9073 | .1519546 | .0726487 |
| #3 | 2.289766 | .0046449 | .0111059 | 110.8767 | .1512713 | .0731868 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3739627** | **157.8101** | **6.970432** | **23.24926** | **.1885978** | **-.011729** |
| Stddev | .0020822 | .0704 | .003914 | .04089 | .0004359 | .000157 |
| %RSD | .5567824 | .0446367 | .0561533 | .1758597 | .2311150 | 1.335373 |
| #1 | .3761081 | 157.8314 | 6.966151 | 23.20231 | .1889611 | -.011894 |
| #2 | .3738296 | 157.8674 | 6.971318 | 23.26841 | .1881145 | -.011710 |
| #3 | .3719502 | 157.7315 | 6.973828 | 23.27706 | .1887178 | -.011583 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6386849** | **.1507292** | **6.342775** | **5.167867** | F **12.56655** | **.6855214** |
| Stddev | .0568444 | .0032557 | .022826 | .029211 | .03469 | .0007423 |
| %RSD | 8.900225 | 2.159941 | .3598711 | .5652434 | .2760764 | .1082813 |
| #1 | .6914124 | .1525128 | 6.343964 | 5.200938 | 12.58185 | .6852476 |
| #2 | .5784664 | .1469715 | 6.364983 | 5.157076 | 12.52684 | .6863617 |
| #3 | .6461758 | .1527033 | 6.319377 | 5.145587 | 12.59097 | .6849549 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-10 Acquired: 1/12/2025 7:08:20 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038055 | 3.381835 | F 18.69566 | .4872686 | .9042037 | .0813114 |
| Stddev | .0001934 | .011770 | .03176 | .0014956 | .0028874 | .0011206 |
| %RSD | 5.081628 | .3480458 | .1698857 | .3069401 | .3193260 | 1.378168 |
| #1 | .0036471 | 3.374457 | 18.71494 | .4866186 | .9011466 | .0806470 |
| #2 | .0037484 | 3.375639 | 18.65900 | .4862080 | .9068845 | .0806820 |
| #3 | .0040210 | 3.395409 | 18.71304 | .4889792 | .9045798 | .0826052 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3105277 |
| Stddev | .0005845 |
| %RSD | .1882122 |
| #1 | .3101661 |
| #2 | .3112020 |
| #3 | .3102151 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2886.961 | 68150.15 | 9684.661 | 3190.397 | 3292.701 |
| Stddev | 3.424 | 280.41 | 48.039 | 10.323 | 4.656 |
| %RSD | .1186059 | .4114595 | .4960294 | .3235689 | .1414060 |
| #1 | 2889.426 | 67826.44 | 9633.492 | 3178.924 | 3295.879 |
| #2 | 2888.406 | 68305.73 | 9728.792 | 3193.334 | 3294.867 |
| #3 | 2883.051 | 68318.28 | 9691.700 | 3198.934 | 3287.356 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11 Acquired: 1/12/2025 7:12:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0806688** | **-.003505** | **2.396267** | **.0340684** | **-.003143** | **68.33942** |
| Stddev | .0028571 | .000861 | .007287 | .0023137 | .001436 | .07547 |
| %RSD | 3.541807 | 24.57115 | .3040906 | 6.791307 | 45.69721 | .1104285 |
| #1 | .0774749 | -.002582 | 2.401696 | .0317974 | -.002939 | 68.34345 |
| #2 | .0815498 | -.004288 | 2.387985 | .0364226 | -.001819 | 68.41279 |
| #3 | .0829816 | -.003646 | 2.399119 | .0339852 | -.004670 | 68.26202 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.518186** | **.0050501** | **.0100564** | **91.34813** | **.1363248** | **.0864224** |
| Stddev | .003410 | .0000401 | .0000711 | .11034 | .0001086 | .0002874 |
| %RSD | .2246006 | .7948216 | .7074339 | .1207907 | .0796583 | .3325562 |
| #1 | 1.520167 | .0050662 | .0101162 | 91.27632 | .1362942 | .0867107 |
| #2 | 1.520143 | .0050798 | .0099777 | 91.47518 | .1362348 | .0864206 |
| #3 | 1.514249 | .0050045 | .0100751 | 91.29290 | .1364454 | .0861359 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2705335** | **172.5422** | **7.684343** | **23.21534** | **.1757099** | **-.014644** |
| Stddev | .0005395 | .1362 | .007635 | .02286 | .0008628 | .000198 |
| %RSD | .1994275 | .0789512 | .0993570 | .0984860 | .4910461 | 1.354182 |
| #1 | .2699432 | 172.5097 | 7.691233 | 23.23567 | .1764510 | -.014501 |
| #2 | .2706559 | 172.6917 | 7.685662 | 23.21977 | .1747627 | -.014560 |
| #3 | .2710012 | 172.4252 | 7.676135 | 23.19059 | .1759161 | -.014870 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5585182** | **.1662928** | **2.742832** | **5.916237** | **9.262018** | **.7380454** |
| Stddev | .0522337 | .0006609 | .003890 | .014981 | .006546 | .0016584 |
| %RSD | 9.352193 | .3974533 | .1418294 | .2532180 | .0706809 | .2247077 |
| #1 | .5713054 | .1656470 | 2.738670 | 5.901810 | 9.261563 | .7373675 |
| #2 | .6031708 | .1662634 | 2.743449 | 5.931716 | 9.255711 | .7399354 |
| #3 | .5010782 | .1669679 | 2.746377 | 5.915183 | 9.268780 | .7368333 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11 Acquired: 1/12/2025 7:12:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0041953 | 1.920979 | F 19.00139 | .1215890 | .7858130 | .0937247 |
| Stddev | .0003083 | .004701 | .04056 | .0014550 | .0011929 | .0014991 |
| %RSD | 7.349345 | .2447440 | .2134694 | 1.196668 | .1518006 | 1.599510 |
| #1 | .0045443 | 1.919024 | 19.02163 | .1227495 | .7855783 | .0942180 |
| #2 | .0039600 | 1.917571 | 19.02785 | .1199566 | .7847549 | .0949149 |
| #3 | .0040816 | 1.926343 | 18.95469 | .1220608 | .7871058 | .0920410 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2843622 |
| Stddev | .0001552 |
| %RSD | .0545852 |
| #1 | .2841865 |
| #2 | .2844807 |
| #3 | .2844194 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3147.247 | 75077.67 | 10708.08 | 3521.255 | 3282.141 |
| Stddev | 1.263 | 114.40 | 15.74 | 3.429 | .855 |
| %RSD | .0401404 | .1523752 | .1470247 | .0973852 | .0260486 |
| #1 | 3145.813 | 75190.95 | 10721.44 | 3519.453 | 3281.897 |
| #2 | 3147.735 | 74962.18 | 10690.72 | 3519.102 | 3283.091 |
| #3 | 3148.194 | 75079.87 | 10712.07 | 3525.209 | 3281.434 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-12 Acquired: 1/12/2025 7:16:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0794149** | **-.004343** | **2.342170** | **.0333538** | **-.003077** | **68.35595** |
| Stddev | .0035875 | .005525 | .016666 | .0012966 | .000286 | .36276 |
| %RSD | 4.517452 | 127.2095 | .7115767 | 3.887549 | 9.285284 | .5306968 |
| #1 | .0823302 | -.010445 | 2.343910 | .0319758 | -.002782 | 67.94303 |
| #2 | .0754085 | -.002904 | 2.324701 | .0335357 | -.003352 | 68.50139 |
| #3 | .0805062 | .000320 | 2.357897 | .0345499 | -.003097 | 68.62342 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.506577** | **.0051130** | **.0096077** | **91.07679** | **.1362530** | **.0842571** |
| Stddev | .008999 | .0000152 | .0001438 | .57014 | .0001082 | .0002056 |
| %RSD | .5973031 | .2969256 | 1.496831 | .6259993 | .0794296 | .2440406 |
| #1 | 1.496207 | .0051221 | .0097684 | 90.41947 | .1363768 | .0843342 |
| #2 | 1.511191 | .0051214 | .0094911 | 91.43714 | .1362057 | .0840241 |
| #3 | 1.512332 | .0050955 | .0095637 | 91.37377 | .1361764 | .0844130 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2725955** | **172.8934** | **7.665948** | **23.31352** | **.1707305** | **-.014822** |
| Stddev | .0011903 | 1.0508 | .045648 | .14790 | .0014521 | .000423 |
| %RSD | .4366443 | .6077891 | .5954632 | .6343944 | .8505306 | 2.854503 |
| #1 | .2712535 | 171.7003 | 7.613254 | 23.14545 | .1717283 | -.015039 |
| #2 | .2730099 | 173.2982 | 7.693387 | 23.37136 | .1690646 | -.014335 |
| #3 | .2735232 | 173.6815 | 7.691204 | 23.42377 | .1713986 | -.015093 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5157244** | **.1646353** | **2.757152** | **5.870733** | **8.919408** | **.7413679** |
| Stddev | .1185361 | .0018253 | .011545 | .035620 | .071389 | .0067424 |
| %RSD | 22.98438 | 1.108674 | .4187340 | .6067418 | .8003780 | .9094600 |
| #1 | .5041438 | .1628088 | 2.768345 | 5.867848 | 8.940729 | .7337283 |
| #2 | .6396257 | .1646377 | 2.757827 | 5.907708 | 8.839787 | .7438886 |
| #3 | .4034036 | .1664593 | 2.745284 | 5.836643 | 8.977707 | .7464869 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-12 Acquired: 1/12/2025 7:16:13 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0042846 | 1.846702 | F 19.04186 | .1184271 | .7809934 | .0940971 |
| Stddev | .0003415 | .013177 | .03342 | .0018352 | .0017584 | .0009212 |
| %RSD | 7.970668 | .7135640 | .1754891 | 1.549661 | .2251548 | .9790021 |
| #1 | .0040224 | 1.849958 | 19.08037 | .1188204 | .7804421 | .0935112 |
| #2 | .0046708 | 1.832202 | 19.02051 | .1164271 | .7829615 | .0951590 |
| #3 | .0041605 | 1.857946 | 19.02471 | .1200337 | .7795767 | .0936212 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2815178 |
| Stddev | .0016312 |
| %RSD | .5794452 |
| #1 | .2796738 |
| #2 | .2821074 |
| #3 | .2827723 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3192.641 | 73933.30 | 10565.00 | 3487.038 | 3350.375 |
| Stddev | 11.252 | 132.20 | 72.12 | 15.767 | 18.130 |
| %RSD | .3524363 | .1788112 | .6826131 | .4521498 | .5411409 |
| #1 | 3185.821 | 73911.58 | 10489.66 | 3484.083 | 3342.814 |
| #2 | 3205.628 | 74075.02 | 10633.39 | 3472.957 | 3371.062 |
| #3 | 3186.474 | 73813.31 | 10571.95 | 3504.073 | 3337.249 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11LX5 Acquired: 1/12/2025 7:20:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0182227 | -.000269 | .4819770 | .0073542 | -.002133 | 15.63697 | .3356276 |
| Stddev | .0019728 | .001002 | .0014301 | .0004763 | .001090 | .40627 | .0086415 |
| %RSD | 10.82631 | 371.6915 | .2967225 | 6.476718 | 51.11856 | 2.598121 | 2.574736 |
| #1 | .0204918 | -.000256 | .4834793 | .0068062 | -.003067 | 15.89216 | .3413796 |
| #2 | .0169133 | -.001278 | .4806320 | .0075870 | -.002396 | 15.16848 | .3256903 |
| #3 | .0172629 | .000725 | .4818197 | .0076693 | -.000935 | 15.85028 | .3398130 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0012893 | .0016244 | 21.26395 | .0325891 | .0166410 | .0657995 | 40.82058 |
| Stddev | .0000966 | .0000384 | .50005 | .0006306 | .0002600 | .0016138 | 1.03494 |
| %RSD | 7.495655 | 2.361603 | 2.351611 | 1.935008 | 1.562237 | 2.452569 | 2.535337 |
| #1 | .0012172 | .0016250 | 21.60146 | .0325177 | .0167331 | .0670443 | 41.48755 |
| #2 | .0012516 | .0015857 | 20.68947 | .0319972 | .0163475 | .0639762 | 39.62834 |
| #3 | .0013991 | .0016624 | 21.50091 | .0332523 | .0168424 | .0663780 | 41.34586 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.780193 | 5.437010 | .0341404 | -.003507 | .1412479 | .0398995 | .6728103 |
| Stddev | .040631 | .134042 | .0004035 | .000190 | .2143006 | .0023088 | .0132746 |
| %RSD | 2.282372 | 2.465366 | 1.181791 | 5.427619 | 151.7195 | 5.786499 | 1.973004 |
| #1 | 1.802801 | 5.510582 | .0344573 | -.003668 | .3871012 | .0388903 | .6766345 |
| #2 | 1.733287 | 5.282293 | .0336862 | -.003297 | -.006007 | .0425410 | .6580434 |
| #3 | 1.804492 | 5.518155 | .0342777 | -.003557 | .042649 | .0382671 | .6837530 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.375395 | 1.804801 | .1716024 | .0007874 | .3668748 | 4.626369 | .0229576 |
| Stddev | .067698 | .007794 | .0050091 | .0000125 | .0035518 | .047011 | .0004991 |
| %RSD | 4.922094 | .4318428 | 2.919026 | 1.586090 | .9681232 | 1.016158 | 2.174014 |
| #1 | 1.377643 | 1.808987 | .1751222 | .0007975 | .3641388 | 4.674813 | .0224337 |
| #2 | 1.306601 | 1.795808 | .1658676 | .0007734 | .3655970 | 4.623360 | .0230117 |
| #3 | 1.441941 | 1.809606 | .1738173 | .0007912 | .3708888 | 4.580935 | .0234275 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11LX5 Acquired: 1/12/2025 7:20:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1908735 | .0201452 | .0662069 |
| Stddev | .0028338 | .0005602 | .0015457 |
| %RSD | 1.484644 | 2.780681 | 2.334578 |
| #1 | .1940762 | .0205433 | .0672433 |
| #2 | .1886912 | .0195046 | .0644303 |
| #3 | .1898531 | .0203876 | .0669471 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2664.999 | 63740.81 | 8682.820 | 2986.709 | 3495.412 |
| Stddev | 5.803 | 1434.32 | 98.721 | 46.319 | 9.920 |
| %RSD | .2177657 | 2.250239 | 1.136969 | 1.550852 | .2837898 |
| #1 | 2659.016 | 62920.98 | 8571.112 | 2958.381 | 3484.452 |
| #2 | 2670.604 | 65396.99 | 8719.006 | 3040.162 | 3498.008 |
| #3 | 2665.379 | 62904.45 | 8758.342 | 2961.584 | 3503.775 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-13 Acquired: 1/12/2025 7:24:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1337469** | **.0962360** | **2.403118** | **.1619818** | **.1256736** | **70.80611** |
| Stddev | .0020831 | .0013463 | .000480 | .0013166 | .0014534 | .33340 |
| %RSD | 1.557462 | 1.398917 | .0199654 | .8127971 | 1.156482 | .4708641 |
| #1 | .1334995 | .0972886 | 2.403651 | .1634852 | .1258613 | 70.83706 |
| #2 | .1317986 | .0967003 | 2.402721 | .1610344 | .1241355 | 71.12295 |
| #3 | .1359426 | .0947190 | 2.402981 | .1614259 | .1270240 | 70.45831 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.451204** | **.0816252** | **.1062087** | **91.25040** | **.4647865** | **1.058453** |
| Stddev | .040437 | .0005677 | .0002584 | .35382 | .0007362 | .001465 |
| %RSD | .9084431 | .6955459 | .2432795 | .3877458 | .1583892 | .1384397 |
| #1 | 4.406936 | .0817743 | .1062879 | 91.24271 | .4651783 | 1.059268 |
| #2 | 4.486197 | .0809977 | .1059201 | 91.60801 | .4652438 | 1.056761 |
| #3 | 4.460480 | .0821034 | .1064183 | 90.90049 | .4639372 | 1.059328 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6358953** | **173.9022** | **8.382955** | **23.19564** | **1.150023** | **.0438182** |
| Stddev | .0006816 | .7169 | .030395 | .08065 | .001661 | .0002271 |
| %RSD | .1071870 | .4122260 | .3625765 | .3476788 | .1444478 | .5184023 |
| #1 | .6362175 | 174.0276 | 8.378762 | 23.21388 | 1.148176 | .0437188 |
| #2 | .6351123 | 174.5481 | 8.415228 | 23.26560 | 1.150499 | .0436578 |
| #3 | .6363560 | 173.1309 | 8.354874 | 23.10743 | 1.151394 | .0440781 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4903646** | **.9380248** | **3.556501** | **5.925213** | **9.126018** | **.7480811** |
| Stddev | .0584495 | .0009313 | .003855 | .002060 | .012179 | .0037560 |
| %RSD | 11.91960 | .0992840 | .1083884 | .0347669 | .1334577 | .5020910 |
| #1 | .5074635 | .9388307 | 3.558363 | 5.924118 | 9.139296 | .7500210 |
| #2 | .5383577 | .9382384 | 3.552068 | 5.927590 | 9.115365 | .7504704 |
| #3 | .4252725 | .9370052 | 3.559071 | 5.923933 | 9.123394 | .7437517 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-13 Acquired: 1/12/2025 7:24:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0039573 | 1.902121 | F 18.74861 | .1192455 | .7743229 | .0925767 |
| Stddev | .0003265 | .002086 | .04736 | .0004981 | .0016969 | .0002908 |
| %RSD | 8.249575 | .1096683 | .2526242 | .4177372 | .2191446 | .3140871 |
| #1 | .0040707 | 1.902415 | 18.79733 | .1187432 | .7761662 | .0926752 |
| #2 | .0042119 | 1.904045 | 18.70273 | .1197394 | .7728258 | .0922495 |
| #3 | .0035892 | 1.899904 | 18.74577 | .1192538 | .7739768 | .0928055 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2843863 |
| Stddev | .0013609 |
| %RSD | .4785476 |
| #1 | .2846414 |
| #2 | .2856017 |
| #3 | .2829159 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3135.389 | 74092.16 | 10715.75 | 3471.727 | 3278.993 |
| Stddev | 3.958 | 110.12 | 51.61 | 4.089 | 1.582 |
| %RSD | .1262446 | .1486322 | .4816274 | .1177810 | .0482338 |
| #1 | 3137.961 | 74039.59 | 10675.88 | 3467.030 | 3278.406 |
| #2 | 3137.375 | 74018.17 | 10774.04 | 3473.656 | 3280.784 |
| #3 | 3130.831 | 74218.72 | 10697.32 | 3474.495 | 3277.789 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-14 Acquired: 1/12/2025 7:28:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0852415** | **-.006878** | **.5306926** | **.0270469** | **-.002883** | **54.50362** |
| Stddev | .0015407 | .000450 | .0012858 | .0015679 | .000246 | .37243 |
| %RSD | 1.807418 | 6.537066 | .2422937 | 5.796840 | 8.533048 | .6833170 |
| #1 | .0869590 | -.006611 | .5311447 | .0255887 | -.003168 | 54.42250 |
| #2 | .0839812 | -.006627 | .5316912 | .0268469 | -.002741 | 54.90992 |
| #3 | .0847843 | -.007397 | .5292417 | .0287052 | -.002742 | 54.17843 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9663125** | **.0047042** | **.0078657** | **67.51809** | **.1050353** | **.0885772** |
| Stddev | .0042256 | .0001177 | .0001485 | .36770 | .0003293 | .0003941 |
| %RSD | .4372947 | 2.502973 | 1.887828 | .5446003 | .3135182 | .4449530 |
| #1 | .9672219 | .0048128 | .0080128 | 67.37046 | .1053056 | .0890013 |
| #2 | .9700094 | .0045791 | .0078685 | 67.93666 | .1051318 | .0885083 |
| #3 | .9617062 | .0047207 | .0077158 | 67.24713 | .1046686 | .0882221 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2199567** | **160.9458** | **12.70283** | **23.47311** | **.1780309** | **-.013913** |
| Stddev | .0021379 | 1.0335 | .06709 | .15436 | .0001044 | .000423 |
| %RSD | .9719724 | .6421425 | .5281263 | .6575884 | .0586204 | 3.039624 |
| #1 | .2179140 | 160.6401 | 12.70349 | 23.36739 | .1779415 | -.013964 |
| #2 | .2221786 | 162.0977 | 12.76958 | 23.65024 | .1780056 | -.013467 |
| #3 | .2197775 | 160.0997 | 12.63542 | 23.40170 | .1781456 | -.014308 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5242800** | **.1365808** | **.8248598** | **6.255845** | **6.096067** | **.6847640** |
| Stddev | .1599596 | .0015534 | .0039722 | .065971 | .008352 | .0059859 |
| %RSD | 30.51034 | 1.137375 | .4815602 | 1.054554 | .1370137 | .8741507 |
| #1 | .3637210 | .1381720 | .8247289 | 6.181907 | 6.104855 | .6829416 |
| #2 | .6836334 | .1350681 | .8209547 | 6.308692 | 6.088232 | .6914493 |
| #3 | .5254855 | .1365022 | .8288958 | 6.276935 | 6.095114 | .6799012 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-14 Acquired: 1/12/2025 7:28:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0052181 | .7889061 | F 17.67666 | .0212228 | .7306667 | .0874561 |
| Stddev | .0002849 | .0037261 | .06330 | .0006226 | .0025098 | .0011982 |
| %RSD | 5.459945 | .4723108 | .3581012 | 2.933483 | .3434975 | 1.370039 |
| #1 | .0052287 | .7931277 | 17.74858 | .0207792 | .7333007 | .0874599 |
| #2 | .0054975 | .7860762 | 17.65199 | .0219345 | .7283029 | .0886524 |
| #3 | .0049280 | .7875144 | 17.62941 | .0209546 | .7303964 | .0862560 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1475318 |
| Stddev | .0011665 |
| %RSD | .7906998 |
| #1 | .1470741 |
| #2 | .1488578 |
| #3 | .1466636 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3290.234 | 78745.40 | 11187.61 | 3676.803 | 3293.876 |
| Stddev | 5.386 | 117.43 | 60.88 | 14.857 | 1.892 |
| %RSD | .1637034 | .1491242 | .5441641 | .4040719 | .0574396 |
| #1 | 3292.346 | 78713.82 | 11150.41 | 3683.236 | 3293.361 |
| #2 | 3284.112 | 78646.99 | 11257.87 | 3687.360 | 3295.972 |
| #3 | 3294.243 | 78875.39 | 11154.56 | 3659.814 | 3292.295 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-15 Acquired: 1/12/2025 7:32:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0693286** | **-.007803** | **1.012741** | **.0224003** | **-.003255** | **48.89234** |
| Stddev | .0016341 | .001948 | .001170 | .0015734 | .002807 | .24305 |
| %RSD | 2.356983 | 24.96207 | .1154883 | 7.023775 | 86.21988 | .4971160 |
| #1 | .0685358 | -.009483 | 1.014091 | .0216266 | -.004760 | 48.61851 |
| #2 | .0682421 | -.005668 | 1.012029 | .0242107 | -.004990 | 48.97599 |
| #3 | .0712078 | -.008259 | 1.012104 | .0213637 | -.000017 | 49.08252 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8892888** | **.0037136** | **.0078702** | **337.1780** | **.1047390** | **.0828602** |
| Stddev | .0045968 | .0001515 | .0000622 | .9600 | .0006107 | .0003202 |
| %RSD | .5169061 | 4.079191 | .7908506 | .2847184 | .5830188 | .3864679 |
| #1 | .8841938 | .0038681 | .0078483 | 336.1229 | .1040370 | .0829114 |
| #2 | .8905473 | .0035653 | .0079405 | 338.0001 | .1050329 | .0831517 |
| #3 | .8931252 | .0037075 | .0078219 | 337.4108 | .1051471 | .0825174 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2552211** | **153.4039** | **12.40483** | **113.6860** | **.1615760** | **-.013907** |
| Stddev | .0007786 | .9299 | .07090 | .8168 | .0008808 | .000346 |
| %RSD | .3050640 | .6061802 | .5715680 | .7184643 | .5451295 | 2.490421 |
| #1 | .2557789 | 152.3778 | 12.32651 | 112.8098 | .1623946 | -.014303 |
| #2 | .2555528 | 153.6428 | 12.42336 | 113.8221 | .1606440 | -.013755 |
| #3 | .2543316 | 154.1909 | 12.46463 | 114.4263 | .1616895 | -.013662 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.166060** | **.1628502** | **1.367253** | **6.803784** | **6.411398** | **.6613982** |
| Stddev | .074793 | .0018134 | .009483 | .058533 | .005186 | .0044656 |
| %RSD | 6.414206 | 1.113561 | .6935946 | .8602949 | .0808839 | .6751699 |
| #1 | 1.080070 | .1610552 | 1.362710 | 6.744569 | 6.407521 | .6568000 |
| #2 | 1.202092 | .1646815 | 1.360897 | 6.805174 | 6.417288 | .6616767 |
| #3 | 1.216016 | .1628138 | 1.378153 | 6.861610 | 6.409384 | .6657181 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-15 Acquired: 1/12/2025 7:32:09 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038481 | 1.268881 | F 17.34992 | .0349906 | 1.052458 | .0897700 |
| Stddev | .0002375 | .005415 | .04111 | .0004631 | .005089 | .0010695 |
| %RSD | 6.170873 | .4267461 | .2369240 | 1.323492 | .4835354 | 1.191418 |
| #1 | .0036234 | 1.267722 | 17.32014 | .0346682 | 1.046623 | .0891832 |
| #2 | .0040965 | 1.274782 | 17.33280 | .0347823 | 1.055983 | .0891223 |
| #3 | .0038245 | 1.264140 | 17.39682 | .0355213 | 1.054766 | .0910045 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2786256 |
| Stddev | .0014954 |
| %RSD | .5366993 |
| #1 | .2768996 |
| #2 | .2794460 |
| #3 | .2795313 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2840.310 | 69441.19 | 9985.035 | 3200.027 | 3020.355 |
| Stddev | 4.081 | 332.29 | 25.063 | 19.829 | 2.171 |
| %RSD | .1436708 | .4785182 | .2510042 | .6196635 | .0718742 |
| #1 | 2838.295 | 69719.61 | 9984.880 | 3219.748 | 3019.491 |
| #2 | 2845.006 | 69530.63 | 10010.18 | 3200.241 | 3022.825 |
| #3 | 2837.629 | 69073.34 | 9960.05 | 3180.091 | 3018.750 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-16 Acquired: 1/12/2025 7:36:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0591332** | **-.007953** | **.4263320** | **.0203147** | **-.000973** | **44.34172** |
| Stddev | .0011004 | .001972 | .0042597 | .0027354 | .001610 | .23359 |
| %RSD | 1.860888 | 24.79237 | .9991507 | 13.46513 | 165.4529 | .5267893 |
| #1 | .0579968 | -.006721 | .4238983 | .0173625 | .000533 | 44.35016 |
| #2 | .0601937 | -.006910 | .4312506 | .0227633 | -.002670 | 44.57098 |
| #3 | .0592090 | -.010227 | .4238471 | .0208183 | -.000782 | 44.10403 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7193569** | **.0033287** | **.0065873** | **427.9800** | **.0858600** | **.0719076** |
| Stddev | .0038312 | .0001173 | .0000195 | .9293 | .0006739 | .0002368 |
| %RSD | .5325810 | 3.523129 | .2965151 | .2171378 | .7848198 | .3293192 |
| #1 | .7205975 | .0031932 | .0065986 | 427.9386 | .0855300 | .0720351 |
| #2 | .7224140 | .0033963 | .0065984 | 427.0721 | .0854147 | .0720535 |
| #3 | .7150592 | .0033964 | .0065647 | 428.9294 | .0866352 | .0716344 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2400446** | **135.3523** | **11.76849** | **132.3668** | **.1619687** | **-.012620** |
| Stddev | .0018774 | .6361 | .05351 | .5768 | .0008434 | .000237 |
| %RSD | .7821211 | .4699378 | .4546532 | .4357696 | .5207085 | 1.875071 |
| #1 | .2399195 | 135.3153 | 11.79656 | 132.4165 | .1613152 | -.012463 |
| #2 | .2419814 | 136.0060 | 11.80212 | 132.9171 | .1629208 | -.012892 |
| #3 | .2382328 | 134.7355 | 11.70679 | 131.7667 | .1616701 | -.012504 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9597083** | **.1130980** | **.8681322** | **6.106340** | **7.009396** | **.5859919** |
| Stddev | .1488347 | .0010371 | .0040682 | .064898 | .016283 | .0027636 |
| %RSD | 15.50832 | .9169693 | .4686138 | 1.062797 | .2323057 | .4716032 |
| #1 | 1.127467 | .1124596 | .8710133 | 6.145553 | 7.004176 | .5854141 |
| #2 | .908146 | .1142946 | .8634784 | 6.142038 | 7.027649 | .5889987 |
| #3 | .843511 | .1125397 | .8699048 | 6.031430 | 6.996363 | .5835630 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-16 Acquired: 1/12/2025 7:36:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0037197 | .9428853 | F 16.29561 | .0110837 | .7994388 | .0918224 |
| Stddev | .0000506 | .0027438 | .00871 | .0005292 | .0009778 | .0017459 |
| %RSD | 1.359509 | .2910009 | .0534416 | 4.774621 | .1223109 | 1.901369 |
| #1 | .0036617 | .9460434 | 16.30227 | .0116500 | .8003304 | .0925163 |
| #2 | .0037547 | .9415255 | 16.29881 | .0109994 | .7995931 | .0931147 |
| #3 | .0037426 | .9410869 | 16.28576 | .0106017 | .7983931 | .0898363 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3304557 |
| Stddev | .0018989 |
| %RSD | .5746155 |
| #1 | .3301651 |
| #2 | .3324831 |
| #3 | .3287190 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2806.761 | 67829.82 | 9949.457 | 3141.051 | 2951.827 |
| Stddev | 7.492 | 82.05 | 37.157 | 2.874 | 11.371 |
| %RSD | .2669343 | .1209607 | .3734557 | .0914831 | .3852103 |
| #1 | 2815.369 | 67763.51 | 9953.418 | 3139.895 | 2953.628 |
| #2 | 2801.711 | 67804.37 | 9984.475 | 3144.323 | 2939.663 |
| #3 | 2803.203 | 67921.57 | 9910.479 | 3138.936 | 2962.189 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-17 Acquired: 1/12/2025 7:40:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1004445** | **-.001149** | **1.955510** | **.0366533** | **-.001057** | **63.60127** |
| Stddev | .0009351 | .001304 | .001171 | .0026169 | .000442 | .26216 |
| %RSD | .9309303 | 113.5392 | .0598896 | 7.139603 | 41.83116 | .4121862 |
| #1 | .1004317 | -.001259 | 1.954692 | .0340430 | -.000930 | 63.61851 |
| #2 | .1013859 | .000207 | 1.954986 | .0392767 | -.000692 | 63.85438 |
| #3 | .0995159 | -.002394 | 1.956852 | .0366401 | -.001549 | 63.33092 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.079553** | **.0051007** | **.0094572** | **31.98111** | **.1469717** | **.0743396** |
| Stddev | .012379 | .0001206 | .0000715 | .08384 | .0009218 | .0002688 |
| %RSD | .5952757 | 2.364191 | .7564057 | .2621618 | .6272032 | .3616344 |
| #1 | 2.087832 | .0049959 | .0095397 | 31.99673 | .1459990 | .0742120 |
| #2 | 2.085505 | .0052325 | .0094127 | 32.05605 | .1470836 | .0741583 |
| #3 | 2.065322 | .0050736 | .0094191 | 31.89056 | .1478325 | .0746485 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4989982** | **158.7312** | **4.727683** | **15.55451** | **.1664336** | **-.011734** |
| Stddev | .0009824 | .6502 | .019722 | .12189 | .0003133 | .000073 |
| %RSD | .1968805 | .4096418 | .4171498 | .7836263 | .1882471 | .6185829 |
| #1 | .4994920 | 158.4799 | 4.731146 | 15.44690 | .1665934 | -.011785 |
| #2 | .4996358 | 159.4696 | 4.745443 | 15.68688 | .1660726 | -.011651 |
| #3 | .4978668 | 158.2442 | 4.706459 | 15.52975 | .1666348 | -.011767 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4413113** | **.1799058** | **2.709711** | **7.723718** | **9.012119** | **.6738424** |
| Stddev | .1549709 | .0013494 | .004017 | .071754 | .026739 | .0038427 |
| %RSD | 35.11601 | .7500817 | .1482466 | .9290030 | .2967056 | .5702647 |
| #1 | .3791449 | .1814240 | 2.705383 | 7.684876 | 8.995537 | .6717805 |
| #2 | .6177131 | .1794506 | 2.710431 | 7.806519 | 8.997854 | .6782759 |
| #3 | .3270760 | .1788428 | 2.713320 | 7.679758 | 9.042966 | .6714707 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-17 Acquired: 1/12/2025 7:40:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0063383 | 2.842471 | F 19.39315 | .2013792 | .8514726 | .0956531 |
| Stddev | .0005083 | .009019 | .01720 | .0005702 | .0033679 | .0006320 |
| %RSD | 8.020160 | .3172809 | .0886761 | .2831288 | .3955410 | .6607515 |
| #1 | .0060256 | 2.833587 | 19.41234 | .2020365 | .8543200 | .0952781 |
| #2 | .0060645 | 2.842208 | 19.38796 | .2010191 | .8523428 | .0952984 |
| #3 | .0069249 | 2.851618 | 19.37915 | .2010819 | .8477549 | .0963828 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1530393 |
| Stddev | .0005753 |
| %RSD | .3759207 |
| #1 | .1530333 |
| #2 | .1536176 |
| #3 | .1524671 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3126.065 | 73165.03 | 10410.02 | 3408.593 | 3406.565 |
| Stddev | 4.649 | 360.59 | 25.73 | 13.745 | 6.535 |
| %RSD | .1487190 | .4928384 | .2471270 | .4032465 | .1918226 |
| #1 | 3129.968 | 73444.13 | 10434.62 | 3423.428 | 3413.854 |
| #2 | 3120.921 | 72757.90 | 10383.30 | 3396.289 | 3401.232 |
| #3 | 3127.304 | 73293.07 | 10412.16 | 3406.064 | 3404.609 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-18 Acquired: 1/12/2025 7:44:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0826408** | **-.008848** | **.4221254** | **.0349005** | **-.004390** | **75.38456** |
| Stddev | .0003086 | .001721 | .0035023 | .0018558 | .000884 | .31446 |
| %RSD | .3734882 | 19.45173 | .8296728 | 5.317500 | 20.14390 | .4171351 |
| #1 | .0823514 | -.010755 | .4225866 | .0359618 | -.004065 | 75.70611 |
| #2 | .0829657 | -.007409 | .4253742 | .0359821 | -.005391 | 75.07772 |
| #3 | .0826053 | -.008381 | .4184154 | .0327576 | -.003714 | 75.36985 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7176104** | **.0061834** | **.0142878** | **30.48075** | **.1351235** | **.1320275** |
| Stddev | .0062981 | .0000922 | .0000968 | .15206 | .0001784 | .0005441 |
| %RSD | .8776545 | 1.491662 | .6773565 | .4988828 | .1320159 | .4120859 |
| #1 | .7248781 | .0061660 | .0143758 | 30.64501 | .1349521 | .1314121 |
| #2 | .7137472 | .0062831 | .0143036 | 30.34489 | .1353081 | .1322254 |
| #3 | .7142060 | .0061011 | .0141841 | 30.45234 | .1351103 | .1324449 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2379679** | **190.2212** | **9.108561** | **21.60341** | **.2463659** | **-.016922** |
| Stddev | .0010301 | .5187 | .054309 | .01880 | .0002357 | .000505 |
| %RSD | .4328589 | .2726777 | .5962414 | .0870436 | .0956604 | 2.986170 |
| #1 | .2384268 | 190.7150 | 9.170926 | 21.62491 | .2461937 | -.016590 |
| #2 | .2367881 | 189.6807 | 9.071690 | 21.59524 | .2462695 | -.017504 |
| #3 | .2386887 | 190.2678 | 9.083066 | 21.59006 | .2466345 | -.016673 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8498832** | **.1570655** | **.6779015** | **10.67204** | F **13.71593** | **.8051682** |
| Stddev | .0787508 | .0007817 | .0017018 | .07187 | .01026 | .0026865 |
| %RSD | 9.266070 | .4976890 | .2510333 | .6733959 | .0747788 | .3336591 |
| #1 | .8663916 | .1578931 | .6795660 | 10.75428 | 13.71666 | .8079253 |
| #2 | .7641869 | .1563397 | .6761648 | 10.62134 | 13.72580 | .8025583 |
| #3 | .9190712 | .1569637 | .6779738 | 10.64050 | 13.70532 | .8050210 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-18 Acquired: 1/12/2025 7:44:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0070755 | 1.070338 | F 15.85387 | .0102646 | .6906094 | .0852856 |
| Stddev | .0001739 | .007139 | .03994 | .0006292 | .0018979 | .0004406 |
| %RSD | 2.457737 | .6669606 | .2519254 | 6.129542 | .2748191 | .5165654 |
| #1 | .0070031 | 1.070371 | 15.89218 | .0095453 | .6925035 | .0848937 |
| #2 | .0072739 | 1.063182 | 15.85695 | .0107128 | .6906173 | .0857624 |
| #3 | .0069495 | 1.077460 | 15.81248 | .0105357 | .6887076 | .0852007 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0910529 |
| Stddev | .0002577 |
| %RSD | .2829785 |
| #1 | .0912849 |
| #2 | .0907755 |
| #3 | .0910982 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4242.980 | 100471.2 | 14393.60 | 4688.753 | 3271.001 |
| Stddev | 9.185 | 240.5 | 81.11 | 16.599 | 3.420 |
| %RSD | .2164655 | .2393481 | .5634931 | .3540079 | .1045538 |
| #1 | 4253.332 | 100604.4 | 14465.97 | 4675.999 | 3272.486 |
| #2 | 4239.800 | 100193.6 | 14305.93 | 4682.740 | 3267.090 |
| #3 | 4235.809 | 100615.6 | 14408.89 | 4707.520 | 3273.429 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01 Acquired: 1/12/2025 7:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0957128** | **-.009475** | **.1328359** | **-.001337** | **.0018467** | **21.82002** |
| Stddev | .0015175 | .001413 | .0031790 | .003593 | .0019755 | .02885 |
| %RSD | 1.585458 | 14.91098 | 2.393186 | 268.6136 | 106.9723 | .1322159 |
| #1 | .0940934 | -.009399 | .1292461 | -.004645 | .0016598 | 21.82461 |
| #2 | .0971021 | -.010924 | .1352947 | .002485 | .0039089 | 21.84630 |
| #3 | .0959429 | -.008102 | .1339671 | -.001852 | -.000029 | 21.78915 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7512604** | **.0032792** | **.0031559** | F **1869.795** | **.0457542** | **.0370618** |
| Stddev | .0003437 | .0001294 | .0001527 | 15.787 | .0000858 | .0004337 |
| %RSD | .0457449 | 3.946990 | 4.838429 | .8443213 | .1875609 | 1.170152 |
| #1 | .7516457 | .0031308 | .0030021 | 1852.272 | .0456665 | .0365644 |
| #2 | .7511499 | .0033688 | .0033075 | 1882.909 | .0458380 | .0372603 |
| #3 | .7509855 | .0033380 | .0031581 | 1874.203 | .0457581 | .0373608 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1544940** | **100.6869** | **10.02042** | F **886.0473** | **.0789198** | **-.010752** |
| Stddev | .0024597 | .2615 | .02205 | 1.6792 | .0006005 | .000307 |
| %RSD | 1.592129 | .2597623 | .2200759 | .1895150 | .7608457 | 2.856908 |
| #1 | .1560768 | 100.7589 | 9.99571 | 885.7564 | .0796101 | -.010422 |
| #2 | .1557451 | 100.9048 | 10.02744 | 887.8530 | .0785177 | -.011029 |
| #3 | .1516602 | 100.3969 | 10.03810 | 884.5326 | .0786318 | -.010805 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.308169** | **.0841980** | **.3082929** | **2.684194** | **3.847404** | **.4422590** |
| Stddev | .135241 | .0013741 | .0015589 | .040148 | .005692 | .0017558 |
| %RSD | 10.33819 | 1.632011 | .5056407 | 1.495705 | .1479492 | .3970062 |
| #1 | 1.418290 | .0857845 | .3094310 | 2.672839 | 3.843081 | .4430807 |
| #2 | 1.157217 | .0833833 | .3065161 | 2.728796 | 3.845277 | .4434532 |
| #3 | 1.348999 | .0834262 | .3089315 | 2.650946 | 3.853853 | .4402430 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01 Acquired: 1/12/2025 7:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0161513 | 3.497631 | 8.776891 | -.001119 | .3163590 | .0807739 |
| Stddev | .0007933 | .014615 | .033078 | .001240 | .0000915 | .0008799 |
| %RSD | 4.911523 | .4178463 | .3768743 | 110.7762 | .0289358 | 1.089330 |
| #1 | .0157062 | 3.499418 | 8.753573 | .000280 | .3164607 | .0807118 |
| #2 | .0170672 | 3.482204 | 8.762352 | -.001558 | .3163331 | .0816833 |
| #3 | .0156806 | 3.511270 | 8.814748 | -.002080 | .3162832 | .0799268 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.510177 |
| Stddev | .017320 |
| %RSD | 1.146875 |
| #1 | 1.506332 |
| #2 | 1.529096 |
| #3 | 1.495103 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2246.031 | 53764.40 | 8186.948 | 2453.305 | 2494.426 |
| Stddev | 5.655 | 141.76 | 18.585 | 4.886 | 4.543 |
| %RSD | .2517920 | .2636703 | .2270130 | .1991415 | .1821121 |
| #1 | 2239.673 | 53850.79 | 8206.755 | 2455.434 | 2493.555 |
| #2 | 2250.500 | 53600.79 | 8184.197 | 2456.764 | 2499.341 |
| #3 | 2247.920 | 53841.62 | 8169.890 | 2447.716 | 2490.381 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02 Acquired: 1/12/2025 7:52:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0974284** | **-.003724** | **3.484342** | **.0319120** | **-.000125** | **52.14947** |
| Stddev | .0015726 | .001058 | .004309 | .0023901 | .002769 | .05410 |
| %RSD | 1.614098 | 28.40914 | .1236663 | 7.489525 | 2207.760 | .1037434 |
| #1 | .0990928 | -.004823 | 3.480654 | .0338896 | -.002306 | 52.21194 |
| #2 | .0972248 | -.002712 | 3.483295 | .0325903 | .002990 | 52.11874 |
| #3 | .0959675 | -.003638 | 3.489079 | .0292561 | -.001060 | 52.11773 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.396105** | **.0046651** | **.0134249** | **66.68797** | **.1766974** | **.0870009** |
| Stddev | .002124 | .0001335 | .0000592 | .13556 | .0003703 | .0006502 |
| %RSD | .1521531 | 2.860854 | .4409144 | .2032743 | .2095683 | .7473939 |
| #1 | 1.397364 | .0048090 | .0134896 | 66.76943 | .1767185 | .0877445 |
| #2 | 1.393653 | .0046407 | .0134116 | 66.53148 | .1763170 | .0865390 |
| #3 | 1.397299 | .0045455 | .0133735 | 66.76299 | .1770567 | .0867193 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5153807** | **146.8960** | **8.197345** | **24.61670** | **.2211979** | **-.011418** |
| Stddev | .0016507 | .0793 | .017265 | .02059 | .0006576 | .000428 |
| %RSD | .3202864 | .0539770 | .2106162 | .0836529 | .2972789 | 3.750447 |
| #1 | .5171528 | 146.9305 | 8.201281 | 24.59658 | .2219570 | -.011316 |
| #2 | .5151027 | 146.8053 | 8.178452 | 24.63773 | .2208311 | -.011888 |
| #3 | .5138867 | 146.9521 | 8.212302 | 24.61579 | .2208055 | -.011050 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6421789** | **.1554662** | **3.307749** | **7.901297** | F **15.76964** | **.6245180** |
| Stddev | .1197642 | .0018204 | .004932 | .017331 | .03616 | .0006860 |
| %RSD | 18.64966 | 1.170916 | .1490905 | .2193379 | .2292751 | .1098470 |
| #1 | .7361752 | .1533642 | 3.302701 | 7.920898 | 15.77692 | .6252753 |
| #2 | .6830272 | .1565174 | 3.307993 | 7.894991 | 15.73040 | .6239381 |
| #3 | .5073344 | .1565170 | 3.312555 | 7.888003 | 15.80161 | .6243405 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02 Acquired: 1/12/2025 7:52:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0095445 | 4.315434 | F 16.83890 | .1757725 | .9198904 | .0734826 |
| Stddev | .0001384 | .010697 | .05602 | .0013397 | .0027187 | .0013437 |
| %RSD | 1.449873 | .2478837 | .3326548 | .7621797 | .2955485 | 1.828633 |
| #1 | .0095858 | 4.310128 | 16.89605 | .1770178 | .9229123 | .0732255 |
| #2 | .0093902 | 4.308427 | 16.83654 | .1743551 | .9176429 | .0722859 |
| #3 | .0096576 | 4.327747 | 16.78410 | .1759446 | .9191161 | .0749363 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1760362 |
| Stddev | .0000676 |
| %RSD | .0384075 |
| #1 | .1761120 |
| #2 | .1759820 |
| #3 | .1760147 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2971.073 | 71582.90 | 9836.748 | 3308.794 | 3363.405 |
| Stddev | 6.005 | 53.00 | 33.233 | 4.561 | 7.635 |
| %RSD | .2021168 | .0740351 | .3378443 | .1378354 | .2270025 |
| #1 | 2977.005 | 71545.36 | 9803.907 | 3314.048 | 3372.129 |
| #2 | 2964.997 | 71643.52 | 9835.978 | 3306.469 | 3357.946 |
| #3 | 2971.218 | 71559.82 | 9870.359 | 3305.864 | 3360.138 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-03 Acquired: 1/12/2025 7:56:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0973838** | **-.003000** | **3.467011** | **.0330345** | **.0003334** | **52.97057** |
| Stddev | .0027877 | .001679 | .012235 | .0006396 | .0004135 | .15197 |
| %RSD | 2.862607 | 55.97741 | .3528952 | 1.936193 | 124.0336 | .2869040 |
| #1 | .0994034 | -.004649 | 3.454834 | .0337677 | .0003378 | 53.13085 |
| #2 | .0942032 | -.001292 | 3.466896 | .0325915 | .0007447 | 52.82855 |
| #3 | .0985446 | -.003058 | 3.479303 | .0327442 | -.000082 | 52.95231 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.401916** | **.0045973** | **.0133206** | **67.43258** | **.1780666** | **.0868936** |
| Stddev | .001300 | .0001382 | .0001855 | .07783 | .0008525 | .0002965 |
| %RSD | .0927192 | 3.005961 | 1.392295 | .1154251 | .4787802 | .3411842 |
| #1 | 1.401606 | .0044538 | .0131084 | 67.50895 | .1771302 | .0867469 |
| #2 | 1.403343 | .0047296 | .0134015 | 67.43542 | .1782718 | .0866990 |
| #3 | 1.400800 | .0046084 | .0134519 | 67.35336 | .1787978 | .0872348 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5130573** | **149.2460** | **8.227433** | **24.90980** | **.2192071** | **-.011335** |
| Stddev | .0006647 | .2519 | .012222 | .04752 | .0011007 | .000173 |
| %RSD | .1295559 | .1687641 | .1485458 | .1907679 | .5021356 | 1.528104 |
| #1 | .5136079 | 149.5357 | 8.227659 | 24.94857 | .2182764 | -.011279 |
| #2 | .5123189 | 149.1241 | 8.239539 | 24.85679 | .2189228 | -.011196 |
| #3 | .5132451 | 149.0784 | 8.215099 | 24.92403 | .2204220 | -.011529 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6724972** | **.1531681** | **3.311097** | **8.046140** | F **15.45362** | **.6367540** |
| Stddev | .1199018 | .0018380 | .004585 | .047597 | .08499 | .0019374 |
| %RSD | 17.82934 | 1.200007 | .1384688 | .5915482 | .5499639 | .3042612 |
| #1 | .7477593 | .1546623 | 3.312448 | 8.090081 | 15.38418 | .6389865 |
| #2 | .7355049 | .1511157 | 3.305988 | 8.052758 | 15.42828 | .6357620 |
| #3 | .5342274 | .1537264 | 3.314854 | 7.995580 | 15.54840 | .6355135 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-03 Acquired: 1/12/2025 7:56:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0093031 | 4.241706 | F 16.55064 | .1761762 | .9095079 | .0734786 |
| Stddev | .0002525 | .024142 | .03156 | .0005371 | .0045919 | .0013491 |
| %RSD | 2.714587 | .5691578 | .1906826 | .3048670 | .5048810 | 1.836112 |
| #1 | .0090124 | 4.220084 | 16.52224 | .1765913 | .9042061 | .0729081 |
| #2 | .0094284 | 4.237278 | 16.54507 | .1763677 | .9122238 | .0750193 |
| #3 | .0094684 | 4.267755 | 16.58461 | .1755696 | .9120938 | .0725085 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1812317 |
| Stddev | .0003300 |
| %RSD | .1821072 |
| #1 | .1814698 |
| #2 | .1808549 |
| #3 | .1813703 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2999.558 | 70876.51 | 9943.597 | 3318.030 | 3401.148 |
| Stddev | 8.878 | 117.61 | 39.388 | 20.756 | 10.627 |
| %RSD | .2959722 | .1659350 | .3961175 | .6255647 | .3124583 |
| #1 | 2996.753 | 70828.57 | 9982.228 | 3300.006 | 3406.557 |
| #2 | 3009.500 | 71010.52 | 9945.071 | 3340.723 | 3407.983 |
| #3 | 2992.421 | 70790.45 | 9903.493 | 3313.360 | 3388.904 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02LX5 Acquired: 1/12/2025 8:00:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0204014** | **.0001114** | **.7278793** | **.0109434** | **.0009756** | **12.06810** | **.3109977** |
| Stddev | .0042981 | .0010429 | .0028333 | .0025158 | .0009380 | .01275 | .0009118 |
| %RSD | 21.06753 | 936.2987 | .3892578 | 22.98884 | 96.14367 | .1056307 | .2931779 |
| #1 | .0162388 | .0010888 | .7266487 | .0093723 | -.000077 | 12.06006 | .3106787 |
| #2 | .0201421 | -.000987 | .7258694 | .0096129 | .001723 | 12.08280 | .3120262 |
| #3 | .0248232 | .000232 | .7311199 | .0138451 | .001281 | 12.06144 | .3102883 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0010612** | **.0025199** | **15.61972** | **.0416011** | **.0174697** | **.1177891** | **34.88182** |
| Stddev | .0000687 | .0000438 | .03166 | .0002966 | .0004907 | .0033332 | .03243 |
| %RSD | 6.469686 | 1.737996 | .2027023 | .7130865 | 2.808953 | 2.829771 | .0929759 |
| #1 | .0010050 | .0025616 | 15.58341 | .0417580 | .0173839 | .1139501 | 34.87625 |
| #2 | .0011377 | .0024743 | 15.64157 | .0417864 | .0170275 | .1194702 | 34.91667 |
| #3 | .0010408 | .0025237 | 15.63418 | .0412589 | .0179976 | .1199469 | 34.85253 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.889988** | **5.783492** | **.0450721** | **-.002744** | **.1894657** | **.0345004** | **.7986996** |
| Stddev | .005963 | .022300 | .0002758 | .000289 | .1406829 | .0009315 | .0045755 |
| %RSD | .3155141 | .3855841 | .6119225 | 10.53655 | 74.25246 | 2.700058 | .5728690 |
| #1 | 1.883286 | 5.781862 | .0447604 | -.002778 | .2443890 | .0336291 | .8024682 |
| #2 | 1.894708 | 5.762052 | .0452846 | -.002440 | .2944021 | .0343897 | .7936085 |
| #3 | 1.891971 | 5.806563 | .0451713 | -.003015 | .0296059 | .0354823 | .8000220 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.952559** | **3.305413** | **.1449080** | **.0018881** | **.8879369** | **3.789347** | **.0350613** |
| Stddev | .055127 | .015785 | .0005071 | .0000019 | .0046119 | .015603 | .0000443 |
| %RSD | 2.823301 | .4775415 | .3499360 | .1027236 | .5193911 | .4117717 | .1264486 |
| #1 | 1.890266 | 3.289973 | .1452636 | .0018871 | .8836393 | 3.771987 | .0351117 |
| #2 | 1.995048 | 3.304745 | .1451331 | .0018904 | .8873622 | 3.802201 | .0350437 |
| #3 | 1.972362 | 3.321521 | .1443273 | .0018869 | .8928092 | 3.793854 | .0350284 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02LX5 Acquired: 1/12/2025 8:00:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2074725 | .0170274 | .0417862 |
| Stddev | .0017313 | .0007131 | .0000553 |
| %RSD | .8344506 | 4.187838 | .1322388 |
| #1 | .2054852 | .0166267 | .0418335 |
| #2 | .2086542 | .0178506 | .0417255 |
| #3 | .2082779 | .0166047 | .0417997 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2572.274 | 61307.08 | 8524.296 | 2904.692 | 3402.023 |
| Stddev | 13.752 | 370.68 | 25.007 | 19.735 | 20.752 |
| %RSD | .5346199 | .6046246 | .2933647 | .6794264 | .6099820 |
| #1 | 2586.574 | 60895.62 | 8507.206 | 2889.690 | 3425.242 |
| #2 | 2571.104 | 61614.93 | 8552.999 | 2927.049 | 3395.538 |
| #3 | 2559.145 | 61410.70 | 8512.684 | 2897.338 | 3385.287 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV004 Acquired: 1/12/2025 8:04:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.729791** | **4.768263** | **24.37294** | **4.781056** | **4.673004** | **385.8093** |
| Stddev | .018120 | .032863 | .06466 | .028650 | .023992 | 7.2139 |
| %RSD | .3831061 | .6891929 | .2652875 | .5992360 | .5134082 | 1.869822 |
| #1 | 4.727587 | 4.764051 | 24.33057 | 4.790132 | 4.671562 | 379.7678 |
| #2 | 4.712874 | 4.737709 | 24.34087 | 4.748967 | 4.649767 | 383.8636 |
| #3 | 4.748912 | 4.803028 | 24.44736 | 4.804068 | 4.697685 | 393.7966 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.925977** | **.4946341** | **2.457623** | **392.1983** | **15.32934** | **2.464039** |
| Stddev | .021130 | .0038814 | .007836 | 5.1380 | .13782 | .006851 |
| %RSD | .2128804 | .7847075 | .3188631 | 1.310048 | .8990513 | .2780436 |
| #1 | 9.902618 | .4906057 | 2.452552 | 387.3996 | 15.20220 | 2.461483 |
| #2 | 9.931551 | .4983496 | 2.453667 | 391.5765 | 15.31003 | 2.458833 |
| #3 | 9.943761 | .4949470 | 2.466648 | 397.6190 | 15.47580 | 2.471800 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.63250** | **390.4568** | **14.91063** | **244.9603** | **2.462612** | **1.226838** |
| Stddev | .02711 | 2.3913 | .10339 | 1.5873 | .006812 | .010420 |
| %RSD | .1853041 | .6124304 | .6933911 | .6479679 | .2766340 | .8493661 |
| #1 | 14.63442 | 389.8239 | 14.84859 | 244.3062 | 2.457899 | 1.215595 |
| #2 | 14.65861 | 388.4456 | 14.85331 | 243.8045 | 2.459514 | 1.228747 |
| #3 | 14.60448 | 393.1008 | 15.02998 | 246.7700 | 2.470423 | 1.236172 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **396.5722** | **2.410427** | **15.74113** | **148.0034** | **4.969229** | F **5.856666** |
| Stddev | .7201 | .015258 | .10529 | .7946 | .028603 | .037238 |
| %RSD | .1815727 | .6330008 | .6688541 | .5368995 | .5756008 | .6358159 |
| #1 | 395.7407 | 2.394201 | 15.62827 | 147.8295 | 4.975036 | 5.813683 |
| #2 | 396.9856 | 2.412593 | 15.75843 | 147.3101 | 4.938168 | 5.879175 |
| #3 | 396.9902 | 2.424486 | 15.83669 | 148.8706 | 4.994483 | 5.877138 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV004 Acquired: 1/12/2025 8:04:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.671301** | **4.946607** | **4.851418** | **4.879676** | **4.875290** | **4.845976** |
| Stddev | .020953 | .031653 | .022423 | .014265 | .018795 | .025565 |
| %RSD | .4485412 | .6398944 | .4621950 | .2923295 | .3855245 | .5275593 |
| #1 | 4.668907 | 4.951099 | 4.828713 | 4.876580 | 4.853730 | 4.838140 |
| #2 | 4.651648 | 4.912947 | 4.873548 | 4.867213 | 4.888221 | 4.825246 |
| #3 | 4.693348 | 4.975773 | 4.851993 | 4.895234 | 4.883921 | 4.874542 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.941095** |
| Stddev | .060192 |
| %RSD | 1.218190 |
| #1 | 4.904950 |
| #2 | 4.907754 |
| #3 | 5.010579 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1981.157** | **50027.14** | **7679.056** | **2346.213** | **2669.618** |
| Stddev | 5.286 | 336.64 | 31.494 | 13.397 | 5.471 |
| %RSD | .2668389 | .6729200 | .4101237 | .5710262 | .2049534 |
| #1 | 1979.784 | 50254.06 | 7713.457 | 2360.079 | 2671.659 |
| #2 | 1986.995 | 50187.01 | 7651.645 | 2345.220 | 2673.775 |
| #3 | 1976.693 | 49640.35 | 7672.066 | 2333.339 | 2663.419 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB004 Acquired: 1/12/2025 8:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0012740** | **-.000100** | **.0008626** | **.0006080** | **.0001041** | **.0111094** | **-.001328** |
| Stddev | .0016074 | .000455 | .0000612 | .0013338 | .0008117 | .0040265 | .000275 |
| %RSD | 126.1629 | 454.3485 | 7.090338 | 219.3777 | 780.0359 | 36.24432 | 20.73992 |
| #1 | .0008488 | -.000570 | .0007939 | .0012196 | -.000169 | .0097368 | -.001121 |
| #2 | .0030512 | -.000069 | .0008825 | -.000922 | .001017 | .0079486 | -.001641 |
| #3 | -.000078 | .000339 | .0009113 | .001526 | -.000536 | .0156427 | -.001223 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000026** | **.0001265** | **.0173201** | **.0000509** | **-.000074** | **.0002416** | **.0200541** |
| Stddev | .000099 | .0001087 | .0025327 | .0003610 | .000109 | .0008845 | .0028001 |
| %RSD | 385.1334 | 85.93539 | 14.62305 | 709.9656 | 147.3129 | 366.0827 | 13.96250 |
| #1 | -.000030 | .0001563 | .0177148 | .0002702 | -.000103 | .0006895 | .0183764 |
| #2 | .000075 | .0002173 | .0146132 | -.000366 | -.000166 | .0008125 | .0232865 |
| #3 | -.000122 | .0000060 | .0196322 | .000248 | .000047 | -.000777 | .0184994 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006798** | **.0191510** | **-.000135** | **.0002283** | **-.106786** | **-.002441** | **.0007824** |
| Stddev | .0005342 | .0020231 | .000130 | .0003073 | .127545 | .000983 | .0000374 |
| %RSD | 78.58316 | 10.56388 | 96.63030 | 134.5760 | 119.4400 | 40.27232 | 4.780608 |
| #1 | .0010078 | .0209234 | -.000132 | -.000032 | -.168631 | -.001391 | .0007461 |
| #2 | .0009682 | .0169469 | -.000006 | .000150 | .039891 | -.002593 | .0008208 |
| #3 | .0000634 | .0195826 | -.000267 | .000567 | -.191618 | -.003340 | .0007802 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1937641** | **-.001744** | **.0014608** | **.0004502** | **-.000279** | **.0016602** | **.0000323** |
| Stddev | .0256339 | .001031 | .0004897 | .0000509 | .002759 | .0033386 | .0006644 |
| %RSD | 13.22944 | 59.13689 | 33.52510 | 11.29954 | 989.2548 | 201.0985 | 2055.497 |
| #1 | .1742795 | -.000691 | .0008953 | .0003973 | -.003386 | .0018943 | -.000529 |
| #2 | .2228030 | -.002753 | .0017452 | .0004546 | .001883 | .0048756 | .000766 |
| #3 | .1842098 | -.001788 | .0017419 | .0004988 | .000667 | -.001789 | -.000140 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB004 Acquired: 1/12/2025 8:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB004 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000334 | .0007768 | .0000632 |
| Stddev | .001032 | .0011606 | .0000481 |
| %RSD | 308.9161 | 149.4101 | 76.14780 |
| #1 | -.001323 | .0015842 | .0000722 |
| #2 | -.000416 | .0012994 | .0000112 |
| #3 | .000736 | -.000553 | .0001061 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2479.805 | 59032.16 | 8018.951 | 2779.270 | 3478.921 |
| Stddev | 14.137 | 39.52 | 62.898 | 10.090 | 18.087 |
| %RSD | .5700812 | .0669393 | .7843677 | .3630558 | .5199059 |
| #1 | 2466.678 | 59077.54 | 8056.310 | 2777.599 | 3467.584 |
| #2 | 2477.966 | 59013.54 | 7946.332 | 2790.091 | 3469.399 |
| #3 | 2494.772 | 59005.39 | 8054.210 | 2770.119 | 3499.780 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-04 Acquired: 1/12/2025 8:12:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1580257** | **.0961265** | **3.535311** | **.1757427** | **.1385258** | **57.31776** |
| Stddev | .0020104 | .0010789 | .003188 | .0039102 | .0012681 | .34826 |
| %RSD | 1.272165 | 1.122385 | .0901722 | 2.224965 | .9154098 | .6075934 |
| #1 | .1587507 | .0949850 | 3.538969 | .1721905 | .1378652 | 57.54527 |
| #2 | .1595731 | .0971294 | 3.533843 | .1751051 | .1377243 | 57.49116 |
| #3 | .1557535 | .0962650 | 3.533123 | .1799326 | .1399877 | 56.91684 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.607052** | **.0863181** | **.1092399** | **69.23576** | **.5317874** | **1.056831** |
| Stddev | .079415 | .0007476 | .0002798 | .51137 | .0017503 | .001102 |
| %RSD | 1.723781 | .8660599 | .2561235 | .7385874 | .3291304 | .1042937 |
| #1 | 4.649651 | .0858906 | .1094137 | 69.48412 | .5333313 | 1.056808 |
| #2 | 4.656079 | .0858824 | .1089172 | 69.57551 | .5298860 | 1.055740 |
| #3 | 4.515426 | .0871814 | .1093889 | 68.64765 | .5321449 | 1.057945 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9042372** | **155.1780** | **9.241331** | **25.52568** | **1.195932** | **.0510515** |
| Stddev | .0013985 | .9466 | .073572 | .14997 | .001715 | .0002678 |
| %RSD | .1546620 | .6100387 | .7961149 | .5875395 | .1433708 | .5246088 |
| #1 | .9030741 | 155.8464 | 9.275645 | 25.53610 | 1.196059 | .0513588 |
| #2 | .9038485 | 155.5929 | 9.291476 | 25.67018 | 1.194158 | .0509274 |
| #3 | .9057889 | 154.0947 | 9.156871 | 25.37077 | 1.197580 | .0508682 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6235682** | **.9803477** | **4.225407** | **8.362630** | F **15.81604** | **.6717725** |
| Stddev | .2007722 | .0028706 | .009654 | .015361 | .02714 | .0039042 |
| %RSD | 32.19731 | .2928108 | .2284678 | .1836897 | .1715846 | .5811841 |
| #1 | .6592961 | .9774270 | 4.214510 | 8.380355 | 15.79001 | .6742357 |
| #2 | .4073306 | .9804506 | 4.228821 | 8.353198 | 15.81392 | .6738108 |
| #3 | .8040778 | .9831654 | 4.232890 | 8.354336 | 15.84417 | .6672709 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-04 Acquired: 1/12/2025 8:12:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0091544 | 4.399265 | F 16.35827 | .1764742 | .8964052 | .0752939 |
| Stddev | .0000691 | .012479 | .07002 | .0006266 | .0014482 | .0009260 |
| %RSD | .7548466 | .2836555 | .4280189 | .3550460 | .1615544 | 1.229896 |
| #1 | .0092338 | 4.401525 | 16.30176 | .1765449 | .8950759 | .0748569 |
| #2 | .0091078 | 4.385810 | 16.43660 | .1758153 | .8979485 | .0763576 |
| #3 | .0091216 | 4.410459 | 16.33646 | .1770624 | .8961911 | .0746672 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1870073 |
| Stddev | .0010202 |
| %RSD | .5455499 |
| #1 | .1877223 |
| #2 | .1874606 |
| #3 | .1858390 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2930.423 | 68974.40 | 10047.28 | 3256.598 | 3301.310 |
| Stddev | 2.952 | 174.13 | 53.20 | 4.924 | 5.662 |
| %RSD | .1007511 | .2524570 | .5295051 | .1512028 | .1715193 |
| #1 | 2933.572 | 68787.78 | 10078.88 | 3262.222 | 3302.772 |
| #2 | 2929.981 | 69002.90 | 10077.10 | 3254.514 | 3306.097 |
| #3 | 2927.717 | 69132.52 | 9985.85 | 3253.059 | 3295.060 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-05 Acquired: 1/12/2025 8:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN83 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0794417 | -.001573 | 2.545170 | .0250493 | -.000031 | 40.39911 |
| Stddev | .0020033 | .000783 | .004121 | .0019094 | .000429 | .23231 |
| %RSD | 2.521741 | 49.75473 | .1618986 | 7.622745 | 1385.520 | .5750333 |
| #1 | .0811998 | -.000689 | 2.541340 | .0269007 | .000075 | 40.16339 |
| #2 | .0798645 | -.002176 | 2.549530 | .0251604 | -.000502 | 40.40607 |
| #3 | .0772607 | -.001854 | 2.544640 | .0230867 | .000335 | 40.62785 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.256891 | .0034727 | .0099674 | 43.88067 | .1350038 | .0631029 |
| Stddev | .011717 | .0000748 | .0000499 | .28342 | .0005985 | .0001360 |
| %RSD | .9321881 | 2.154498 | .5006563 | .6458857 | .4433080 | .2155752 |
| #1 | 1.246953 | .0034423 | .0099653 | 43.62287 | .1353099 | .0629760 |
| #2 | 1.253909 | .0035579 | .0099186 | 43.83498 | .1353873 | .0630863 |
| #3 | 1.269810 | .0034178 | .0100183 | 44.18416 | .1343142 | .0632465 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4361735 | 108.5298 | 6.144238 | 16.22949 | .1580562 | -.007495 |
| Stddev | .0013966 | .5787 | .051467 | .05113 | .0007314 | .000220 |
| %RSD | .3201825 | .5332015 | .8376403 | .3150349 | .4627262 | 2.935272 |
| #1 | .4345691 | 107.9497 | 6.101894 | 16.18015 | .1572299 | -.007325 |
| #2 | .4368349 | 108.5326 | 6.129298 | 16.28224 | .1586203 | -.007743 |
| #3 | .4371164 | 109.1071 | 6.201521 | 16.22609 | .1583184 | -.007416 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4824345 | .1136536 | 2.705570 | 5.426282 | F 10.92192 | .4673562 |
| Stddev | .2915473 | .0020984 | .004602 | .059515 | .00554 | .0026658 |
| %RSD | 60.43252 | 1.846346 | .1700845 | 1.096798 | .0507335 | .5703969 |
| #1 | .7482278 | .1126321 | 2.709197 | 5.359250 | 10.92647 | .4646340 |
| #2 | .5284660 | .1160672 | 2.707119 | 5.446681 | 10.91575 | .4674728 |
| #3 | .1706097 | .1122615 | 2.700393 | 5.472916 | 10.92355 | .4699618 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-05 Acquired: 1/12/2025 8:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN83 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0058030 | 2.791375 | F 13.87581 | .1494899 | .7476862 | .0554836 |
| Stddev | .0001193 | .004607 | .02627 | .0002307 | .0008053 | .0010533 |
| %RSD | 2.055407 | .1650543 | .1893045 | .1543206 | .1077090 | 1.898355 |
| #1 | .0056811 | 2.796608 | 13.88352 | .1492343 | .7468320 | .0566483 |
| #2 | .0059195 | 2.787927 | 13.89736 | .1495528 | .7484315 | .0552043 |
| #3 | .0058084 | 2.789590 | 13.84655 | .1496826 | .7477953 | .0545981 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1498753 |
| Stddev | .0008569 |
| %RSD | .5717622 |
| #1 | .1489089 |
| #2 | .1501747 |
| #3 | .1505424 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2909.937 | 67283.89 | 9639.442 | 3157.803 | 3485.612 |
| Stddev | 5.545 | 96.56 | 61.043 | .347 | 3.957 |
| %RSD | .1905638 | .1435096 | .6332584 | .0109746 | .1135353 |
| #1 | 2916.207 | 67374.76 | 9593.675 | 3158.116 | 3489.689 |
| #2 | 2905.678 | 67294.40 | 9615.900 | 3157.863 | 3485.360 |
| #3 | 2907.926 | 67182.50 | 9708.750 | 3157.431 | 3481.786 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-06 Acquired: 1/12/2025 8:20:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN84 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1039129 | -.004010 | 9.795983 | .0259398 | -.001193 | 51.33361 |
| Stddev | .0043690 | .001737 | .038265 | .0008894 | .001140 | .21082 |
| %RSD | 4.204499 | 43.31938 | .3906201 | 3.428856 | 95.55796 | .4106805 |
| #1 | .0989103 | -.002051 | 9.767034 | .0249141 | -.000606 | 51.13052 |
| #2 | .1058499 | -.004615 | 9.781549 | .0264071 | -.000466 | 51.31892 |
| #3 | .1069786 | -.005363 | 9.839365 | .0264982 | -.002506 | 51.55138 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.401385 | .0044977 | .0128199 | 101.1373 | .1492149 | .0806645 |
| Stddev | .005134 | .0001785 | .0000938 | .3325 | .0006959 | .0006806 |
| %RSD | .3663523 | 3.968445 | .7313354 | .3287594 | .4663450 | .8437516 |
| #1 | 1.396135 | .0046091 | .0127636 | 100.7791 | .1486393 | .0800173 |
| #2 | 1.401625 | .0045921 | .0127679 | 101.1967 | .1499882 | .0806022 |
| #3 | 1.406394 | .0042918 | .0129281 | 101.4361 | .1490171 | .0813742 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 11.86112 | 134.0743 | 8.607780 | 24.19484 | .2031512 | -.009055 |
| Stddev | .01544 | .2455 | .031496 | .07569 | .0006407 | .000371 |
| %RSD | .1301318 | .1831220 | .3659009 | .3128534 | .3153644 | 4.095860 |
| #1 | 11.86629 | 133.8228 | 8.578875 | 24.11293 | .2024312 | -.008760 |
| #2 | 11.84376 | 134.0866 | 8.603117 | 24.20940 | .2033639 | -.009471 |
| #3 | 11.87330 | 134.3134 | 8.641347 | 24.26220 | .2036584 | -.008933 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5924688 | .1363715 | 3.116440 | 7.211671 | F 14.74520 | .5811719 |
| Stddev | .2598069 | .0018764 | .006754 | .051544 | .05892 | .0012351 |
| %RSD | 43.85157 | 1.375946 | .2167160 | .7147340 | .3996074 | .2125180 |
| #1 | .2925334 | .1385329 | 3.110810 | 7.166561 | 14.69184 | .5799470 |
| #2 | .7370843 | .1351594 | 3.114581 | 7.200602 | 14.73532 | .5811515 |
| #3 | .7477888 | .1354222 | 3.123929 | 7.267851 | 14.80844 | .5824170 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-06 Acquired: 1/12/2025 8:20:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN84 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0068746 | 2.877925 | F 15.91009 | .7395932 | .8045463 | .0767031 |
| Stddev | .0003334 | .011785 | .05814 | .0018052 | .0022012 | .0011111 |
| %RSD | 4.848921 | .4094834 | .3654037 | .2440800 | .2735930 | 1.448551 |
| #1 | .0068848 | 2.865958 | 15.88538 | .7381415 | .8036451 | .0764317 |
| #2 | .0065363 | 2.878300 | 15.86839 | .7390237 | .8029386 | .0757528 |
| #3 | .0072028 | 2.889518 | 15.97650 | .7416145 | .8070550 | .0779247 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2217985 |
| Stddev | .0007582 |
| %RSD | .3418597 |
| #1 | .2211053 |
| #2 | .2216819 |
| #3 | .2226083 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2887.175 | 68018.41 | 9884.491 | 3187.606 | 3312.176 |
| Stddev | 3.270 | 190.19 | 10.365 | 2.653 | 7.360 |
| %RSD | .1132443 | .2796209 | .1048632 | .0832224 | .2222161 |
| #1 | 2883.996 | 68237.26 | 9888.445 | 3186.871 | 3317.438 |
| #2 | 2890.528 | 67893.12 | 9872.730 | 3190.549 | 3315.326 |
| #3 | 2887.000 | 67924.84 | 9892.297 | 3185.398 | 3303.766 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-07 Acquired: 1/12/2025 8:24:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN85 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0819059 | -.006032 | .9055760 | .0213166 | -.003269 | 50.91169 |
| Stddev | .0007578 | .000663 | .0017496 | .0022354 | .000881 | .31596 |
| %RSD | .9251909 | 10.99708 | .1931973 | 10.48655 | 26.94152 | .6206075 |
| #1 | .0824475 | -.005271 | .9075879 | .0238847 | -.004162 | 51.27501 |
| #2 | .0822303 | -.006487 | .9044110 | .0202579 | -.003245 | 50.75887 |
| #3 | .0810399 | -.006337 | .9047293 | .0198073 | -.002401 | 50.70119 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6270567 | .0035804 | .0082851 | 456.7840 | .1079727 | .0902354 |
| Stddev | .0075315 | .0000442 | .0000852 | 4.1458 | .0004254 | .0005287 |
| %RSD | 1.201084 | 1.233668 | 1.028195 | .9076095 | .3940261 | .5859433 |
| #1 | .6356922 | .0036243 | .0082754 | 461.5065 | .1084422 | .0901535 |
| #2 | .6218482 | .0035359 | .0082053 | 453.7435 | .1078632 | .0897524 |
| #3 | .6236296 | .0035811 | .0083748 | 455.1019 | .1076127 | .0908003 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6215138 | 149.9871 | 8.775258 | 73.87439 | .1849739 | -.012371 |
| Stddev | .0017710 | .8832 | .058700 | .34326 | .0003103 | .000120 |
| %RSD | .2849577 | .5888461 | .6689310 | .4646569 | .1677371 | .9668130 |
| #1 | .6205532 | 151.0013 | 8.842928 | 74.26895 | .1846912 | -.012245 |
| #2 | .6204307 | 149.5733 | 8.738064 | 73.70988 | .1853058 | -.012382 |
| #3 | .6235576 | 149.3869 | 8.744781 | 73.64435 | .1849247 | -.012484 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6751170 | .1277752 | 1.169551 | 9.257453 | F 14.22876 | .6538197 |
| Stddev | .1193982 | .0020717 | .001311 | .078694 | .04364 | .0050837 |
| %RSD | 17.68556 | 1.621391 | .1121065 | .8500562 | .3066992 | .7775342 |
| #1 | .7332159 | .1255261 | 1.170861 | 9.344857 | 14.20777 | .6596762 |
| #2 | .5377886 | .1296056 | 1.169551 | 9.192231 | 14.19958 | .6512375 |
| #3 | .7543464 | .1281938 | 1.168239 | 9.235271 | 14.27892 | .6505454 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-07 Acquired: 1/12/2025 8:24:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN85 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0062494 | 1.924007 | F 15.11920 | .0418704 | .5866215 | .0965892 |
| Stddev | .0007086 | .005326 | .04837 | .0006042 | .0015048 | .0012997 |
| %RSD | 11.33805 | .2767925 | .3199341 | 1.442970 | .2565152 | 1.345652 |
| #1 | .0054464 | 1.918024 | 15.12374 | .0423790 | .5874269 | .0979791 |
| #2 | .0067869 | 1.925768 | 15.16514 | .0420297 | .5848854 | .0963846 |
| #3 | .0065148 | 1.928228 | 15.06872 | .0412026 | .5875522 | .0954039 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .7780798 |
| Stddev | .0050608 |
| %RSD | .6504169 |
| #1 | .7838854 |
| #2 | .7757535 |
| #3 | .7746005 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2829.773 | 67381.02 | 10091.84 | 3145.019 | 2935.261 |
| Stddev | 5.834 | 161.43 | 52.28 | 13.016 | 6.814 |
| %RSD | .2061692 | .2395804 | .5180207 | .4138592 | .2321548 |
| #1 | 2836.186 | 67250.68 | 10142.33 | 3143.603 | 2942.075 |
| #2 | 2828.352 | 67330.77 | 10037.94 | 3132.769 | 2935.261 |
| #3 | 2824.780 | 67561.60 | 10095.24 | 3158.686 | 2928.446 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-08 Acquired: 1/12/2025 8:28:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN86 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0832938** | **-.005071** | **.6882938** | **.0209048** | **-.001144** | **48.10157** |
| Stddev | .0024260 | .001250 | .0042358 | .0043891 | .000495 | .44941 |
| %RSD | 2.912530 | 24.64857 | .6154077 | 20.99578 | 43.23962 | .9342985 |
| #1 | .0853318 | -.003715 | .6836526 | .0256716 | -.001273 | 48.38314 |
| #2 | .0839391 | -.006177 | .6892778 | .0170306 | -.001562 | 47.58328 |
| #3 | .0806104 | -.005321 | .6919511 | .0200121 | -.000598 | 48.33829 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5056985** | **.0033749** | **.0070667** | **574.5144** | **.0959888** | **.0826774** |
| Stddev | .0058310 | .0001657 | .0000439 | 4.3939 | .0008331 | .0006206 |
| %RSD | 1.153057 | 4.908535 | .6208263 | .7647951 | .8679567 | .7506230 |
| #1 | .5077200 | .0032770 | .0070795 | 573.8363 | .0955988 | .0820923 |
| #2 | .4991258 | .0035662 | .0071027 | 570.4990 | .0954221 | .0826116 |
| #3 | .5102497 | .0032815 | .0070178 | 579.2079 | .0969454 | .0833282 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3816926** | **147.7458** | **7.310604** | **74.84104** | **.1598406** | **-.013333** |
| Stddev | .0031733 | 1.3501 | .075696 | .62082 | .0004478 | .000282 |
| %RSD | .8313661 | .9137958 | 1.035425 | .8295168 | .2801722 | 2.118739 |
| #1 | .3838604 | 148.5209 | 7.343687 | 75.15993 | .1594876 | -.013153 |
| #2 | .3780504 | 146.1869 | 7.223998 | 74.12559 | .1603444 | -.013659 |
| #3 | .3831671 | 148.5297 | 7.364126 | 75.23760 | .1596900 | -.013188 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9090796** | **.1101925** | **1.116807** | **8.974781** | F **10.11091** | **.6495075** |
| Stddev | .1860806 | .0025541 | .014287 | .114351 | .01499 | .0056227 |
| %RSD | 20.46912 | 2.317824 | 1.279278 | 1.274142 | .1482712 | .8656923 |
| #1 | .8201460 | .1126935 | 1.109406 | 9.012290 | 10.11531 | .6525320 |
| #2 | .7841531 | .1075885 | 1.107738 | 8.846386 | 10.09421 | .6430199 |
| #3 | 1.122940 | .1102956 | 1.133276 | 9.065668 | 10.12321 | .6529707 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-08 Acquired: 1/12/2025 8:28:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN86 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038460 | 1.473510 | F 13.54974 | .0272680 | .4613966 | .0961800 |
| Stddev | .0002818 | .007461 | .14397 | .0009413 | .0047093 | .0004285 |
| %RSD | 7.327968 | .5063730 | 1.062544 | 3.452182 | 1.020668 | .4454872 |
| #1 | .0040848 | 1.471484 | 13.63989 | .0264693 | .4653981 | .0957968 |
| #2 | .0035351 | 1.467271 | 13.38370 | .0270290 | .4562070 | .0961005 |
| #3 | .0039180 | 1.481775 | 13.62562 | .0283059 | .4625847 | .0966426 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .7640338 |
| Stddev | .0070219 |
| %RSD | .9190505 |
| #1 | .7691088 |
| #2 | .7560200 |
| #3 | .7669726 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2774.918 | 65810.67 | 9959.097 | 3074.463 | 2923.019 |
| Stddev | 11.534 | 525.76 | 53.402 | 36.680 | 7.997 |
| %RSD | .4156562 | .7988961 | .5362182 | 1.193054 | .2735785 |
| #1 | 2787.126 | 66066.71 | 9982.111 | 3082.338 | 2929.742 |
| #2 | 2773.423 | 66159.36 | 9997.135 | 3106.566 | 2925.139 |
| #3 | 2764.204 | 65205.93 | 9898.047 | 3034.485 | 2914.176 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-09 Acquired: 1/12/2025 8:32:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN87 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0786035 | -.005580 | .7047036 | .0242283 | -.000534 | 50.09627 |
| Stddev | .0019878 | .000728 | .0031142 | .0024417 | .002328 | .25095 |
| %RSD | 2.528912 | 13.04641 | .4419163 | 10.07808 | 436.3725 | .5009325 |
| #1 | .0775906 | -.004792 | .7063807 | .0261447 | -.001539 | 49.80673 |
| #2 | .0808937 | -.006228 | .7066197 | .0214791 | -.002190 | 50.25097 |
| #3 | .0773261 | -.005721 | .7011103 | .0250610 | .002129 | 50.23112 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5118847 | .0034866 | .0067841 | 541.5120 | .0965345 | .0910831 |
| Stddev | .0039087 | .0001280 | .0001237 | 2.1892 | .0004346 | .0001101 |
| %RSD | .7635980 | 3.671614 | 1.822795 | .4042813 | .4502145 | .1208888 |
| #1 | .5081933 | .0035618 | .0069098 | 541.2287 | .0960505 | .0911273 |
| #2 | .5159795 | .0033388 | .0067799 | 543.8292 | .0968914 | .0909577 |
| #3 | .5114812 | .0035593 | .0066626 | 539.4783 | .0966617 | .0911642 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4291994 | 150.3893 | 7.749617 | 87.88318 | .1658727 | -.013209 |
| Stddev | .0019258 | .4963 | .039884 | .35041 | .0009453 | .000445 |
| %RSD | .4486917 | .3300092 | .5146606 | .3987185 | .5698755 | 3.369376 |
| #1 | .4291667 | 149.8162 | 7.711701 | 87.48744 | .1657191 | -.012864 |
| #2 | .4311413 | 150.6800 | 7.791214 | 88.15405 | .1668854 | -.013712 |
| #3 | .4272901 | 150.6716 | 7.745937 | 88.00805 | .1650137 | -.013053 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9789231 | .1194891 | .9388224 | 9.731421 | F 10.20934 | .6567160 |
| Stddev | .0229334 | .0009932 | .0005060 | .068430 | .02731 | .0037476 |
| %RSD | 2.342715 | .8312285 | .0539013 | .7031845 | .2674666 | .5706556 |
| #1 | 1.003313 | .1204737 | .9391863 | 9.653370 | 10.20044 | .6525353 |
| #2 | .975662 | .1184874 | .9382445 | 9.781108 | 10.23999 | .6597737 |
| #3 | .957795 | .1195062 | .9390362 | 9.759785 | 10.18760 | .6578390 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-09 Acquired: 1/12/2025 8:32:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN87 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0044776 | 1.473882 | F 13.68063 | .0211012 | .8545324 | .1017469 |
| Stddev | .0001065 | .002631 | .02086 | .0006147 | .0033113 | .0007534 |
| %RSD | 2.378473 | .1785209 | .1524537 | 2.913207 | .3874926 | .7404270 |
| #1 | .0043829 | 1.475935 | 13.69189 | .0208352 | .8523009 | .1009321 |
| #2 | .0044572 | 1.470916 | 13.69344 | .0218041 | .8583369 | .1018904 |
| #3 | .0045929 | 1.474794 | 13.65656 | .0206643 | .8529593 | .1024182 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5300159 |
| Stddev | .0021185 |
| %RSD | .3997045 |
| #1 | .5275700 |
| #2 | .5312061 |
| #3 | .5312717 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2769.194 | 65548.26 | 9800.904 | 3070.657 | 2908.014 |
| Stddev | 2.251 | 319.75 | 31.329 | 5.965 | 6.653 |
| %RSD | .0812923 | .4878040 | .3196518 | .1942697 | .2287825 |
| #1 | 2771.792 | 65861.89 | 9798.516 | 3077.461 | 2908.587 |
| #2 | 2767.839 | 65222.73 | 9770.837 | 3066.327 | 2901.093 |
| #3 | 2767.950 | 65560.16 | 9833.358 | 3068.182 | 2914.362 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10 Acquired: 1/12/2025 8:36:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0639593** | **-.004809** | **.2913888** | **.0101502** | **.0011999** | **38.83561** |
| Stddev | .0045281 | .001620 | .0056186 | .0033762 | .0015159 | .10732 |
| %RSD | 7.079598 | 33.67721 | 1.928210 | 33.26205 | 126.3405 | .2763366 |
| #1 | .0686671 | -.003140 | .2966142 | .0106357 | .0024222 | 38.71954 |
| #2 | .0635756 | -.004914 | .2854459 | .0132573 | -.000496 | 38.93122 |
| #3 | .0596354 | -.006374 | .2921062 | .0065576 | .001674 | 38.85608 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3107351** | **.0025762** | **.0062908** | F **935.6180** | **.0796549** | **.0687637** |
| Stddev | .0014771 | .0000696 | .0001512 | 5.1864 | .0001534 | .0005693 |
| %RSD | .4753660 | 2.702764 | 2.403062 | .5543269 | .1925528 | .8278430 |
| #1 | .3121055 | .0025662 | .0061528 | 940.2501 | .0798298 | .0682342 |
| #2 | .3109294 | .0025121 | .0062673 | 930.0147 | .0795919 | .0693658 |
| #3 | .3091705 | .0026503 | .0064524 | 936.5892 | .0795431 | .0686912 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3060509** | **119.5186** | **7.370330** | **246.1448** | **.1300085** | **-.011275** |
| Stddev | .0008504 | .0897 | .018829 | .1822 | .0005707 | .000478 |
| %RSD | .2778581 | .0750787 | .2554734 | .0740241 | .4389582 | 4.240955 |
| #1 | .3070302 | 119.4561 | 7.382250 | 245.9678 | .1299598 | -.011757 |
| #2 | .3054980 | 119.6214 | 7.380119 | 246.3318 | .1294637 | -.010801 |
| #3 | .3056247 | 119.4783 | 7.348623 | 246.1347 | .1306020 | -.011266 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9249515** | **.0841177** | **.7710730** | **7.985058** | **9.125745** | **.5325077** |
| Stddev | .0704960 | .0008080 | .0015636 | .018744 | .054746 | .0011392 |
| %RSD | 7.621584 | .9605808 | .2027835 | .2347427 | .5999113 | .2139372 |
| #1 | .8631004 | .0832079 | .7726470 | 7.968165 | 9.077156 | .5312288 |
| #2 | 1.001708 | .0847516 | .7695200 | 7.981786 | 9.115018 | .5328805 |
| #3 | .910046 | .0843936 | .7710521 | 8.005223 | 9.185061 | .5334139 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10 Acquired: 1/12/2025 8:36:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048594 | 1.490462 | F 12.39707 | .0175656 | .4332409 | .0979751 |
| Stddev | .0000826 | .009236 | .01712 | .0004616 | .0009773 | .0005066 |
| %RSD | 1.700464 | .6196999 | .1381234 | 2.627706 | .2255701 | .5170885 |
| #1 | .0048600 | 1.483522 | 12.38257 | .0170451 | .4341316 | .0983613 |
| #2 | .0049418 | 1.486919 | 12.41596 | .0179252 | .4333955 | .0974015 |
| #3 | .0047765 | 1.500945 | 12.39267 | .0177265 | .4321955 | .0981625 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5988086 |
| Stddev | .0011426 |
| %RSD | .1908140 |
| #1 | .5978945 |
| #2 | .6000896 |
| #3 | .5984417 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2569.599 | 62074.17 | 9356.923 | 2892.485 | 2724.316 |
| Stddev | 3.592 | 87.59 | 20.882 | 10.877 | 1.886 |
| %RSD | .1398012 | .1411023 | .2231717 | .3760547 | .0692412 |
| #1 | 2567.501 | 62046.56 | 9339.557 | 2882.623 | 2722.595 |
| #2 | 2573.747 | 62172.24 | 9380.093 | 2904.152 | 2726.332 |
| #3 | 2567.549 | 62003.71 | 9351.118 | 2890.680 | 2724.021 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-11 Acquired: 1/12/2025 8:40:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1402781 | -.004639 | 2.409571 | .0290551 | .0000517 | 55.34561 |
| Stddev | .0018563 | .000384 | .004649 | .0031444 | .0002676 | .43208 |
| %RSD | 1.323283 | 8.280742 | .1929301 | 10.82229 | 517.4244 | .7806895 |
| #1 | .1382932 | -.004868 | 2.406809 | .0254322 | .0002707 | 55.05134 |
| #2 | .1405700 | -.004196 | 2.406966 | .0310746 | .0001310 | 55.14383 |
| #3 | .1419711 | -.004854 | 2.414938 | .0306584 | -.000247 | 55.84167 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.256279 | .0047862 | .0112202 | 38.12426 | .2508035 | .0903567 |
| Stddev | .003457 | .0000959 | .0000604 | .12650 | .0003948 | .0005434 |
| %RSD | .2752149 | 2.003176 | .5381989 | .3318193 | .1574091 | .6014129 |
| #1 | 1.255151 | .0048476 | .0112770 | 38.04479 | .2508371 | .0906180 |
| #2 | 1.253525 | .0048353 | .0111568 | 38.05785 | .2503931 | .0897320 |
| #3 | 1.260159 | .0046757 | .0112268 | 38.27014 | .2511805 | .0907201 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4013672 | 142.2187 | 9.343001 | 15.22701 | .2058905 | -.009489 |
| Stddev | .0006270 | 1.0409 | .023562 | .09116 | .0001939 | .000427 |
| %RSD | .1562100 | .7319150 | .2521914 | .5986606 | .0941776 | 4.496221 |
| #1 | .4007101 | 141.5957 | 9.342756 | 15.15615 | .2060831 | -.009784 |
| #2 | .4019589 | 141.6400 | 9.319562 | 15.19504 | .2058932 | -.009684 |
| #3 | .4014327 | 143.4204 | 9.366684 | 15.32985 | .2056953 | -.009000 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4769992 | .1487628 | 2.077033 | 8.615927 | F 14.02375 | .6033391 |
| Stddev | .0641871 | .0012078 | .007716 | .037645 | .04865 | .0051461 |
| %RSD | 13.45643 | .8119247 | .3715010 | .4369237 | .3468774 | .8529278 |
| #1 | .5300744 | .1492864 | 2.082194 | 8.592045 | 14.07142 | .6006555 |
| #2 | .4952640 | .1496205 | 2.068163 | 8.596414 | 13.97418 | .6000895 |
| #3 | .4056592 | .1473815 | 2.080743 | 8.659322 | 14.02565 | .6092722 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-11 Acquired: 1/12/2025 8:40:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0130028 | 4.005957 | F 15.88480 | .0694937 | .8549098 | .0683931 |
| Stddev | .0003256 | .011489 | .06712 | .0009884 | .0017195 | .0016244 |
| %RSD | 2.503731 | .2867913 | .4225393 | 1.422285 | .2011285 | 2.375071 |
| #1 | .0126316 | 4.002190 | 15.93147 | .0706328 | .8566660 | .0670171 |
| #2 | .0132396 | 3.996824 | 15.91506 | .0688618 | .8548340 | .0679771 |
| #3 | .0131374 | 4.018856 | 15.80788 | .0689866 | .8532296 | .0701850 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1530366 |
| Stddev | .0016458 |
| %RSD | 1.075395 |
| #1 | .1518715 |
| #2 | .1523190 |
| #3 | .1549193 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3084.445 | 72972.68 | 10356.14 | 3396.493 | 3420.812 |
| Stddev | 4.740 | 338.37 | 46.79 | 19.519 | 4.514 |
| %RSD | .1536598 | .4636958 | .4518033 | .5746789 | .1319457 |
| #1 | 3086.808 | 72955.23 | 10302.15 | 3393.655 | 3425.244 |
| #2 | 3078.989 | 73319.44 | 10384.81 | 3417.276 | 3420.970 |
| #3 | 3087.539 | 72643.37 | 10381.47 | 3378.549 | 3416.222 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-12 Acquired: 1/12/2025 8:44:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1542985** | **-.004955** | **3.613804** | **.0350219** | **.0013586** | **61.95977** |
| Stddev | .0031247 | .002083 | .011314 | .0042589 | .0016462 | .07668 |
| %RSD | 2.025108 | 42.04134 | .3130748 | 12.16062 | 121.1683 | .1237636 |
| #1 | .1512729 | -.004029 | 3.618003 | .0324855 | .0012192 | 61.88929 |
| #2 | .1541089 | -.003495 | 3.622419 | .0326414 | -.000213 | 62.04143 |
| #3 | .1575137 | -.007340 | 3.600991 | .0399388 | .003070 | 61.94857 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.324188** | **.0053654** | **.0136603** | **44.98514** | **.2738466** | **.1026346** |
| Stddev | .002932 | .0000159 | .0000616 | .02638 | .0003215 | .0002723 |
| %RSD | .2213914 | .2969019 | .4505900 | .0586402 | .1173943 | .2653527 |
| #1 | 1.323763 | .0053600 | .0136187 | 45.00695 | .2734811 | .1024698 |
| #2 | 1.327308 | .0053529 | .0136312 | 44.99264 | .2739732 | .1024850 |
| #3 | 1.321491 | .0053834 | .0137310 | 44.95582 | .2740855 | .1029489 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4628163** | **164.5255** | **10.13847** | **17.31800** | **.2344530** | **-.012124** |
| Stddev | .0012926 | .1520 | .00849 | .02975 | .0007748 | .000087 |
| %RSD | .2792877 | .0924111 | .0837766 | .1717588 | .3304507 | .7211713 |
| #1 | .4620624 | 164.3648 | 10.14822 | 17.30428 | .2351673 | -.012025 |
| #2 | .4643089 | 164.6671 | 10.13450 | 17.29760 | .2345622 | -.012191 |
| #3 | .4620777 | 164.5447 | 10.13268 | 17.35213 | .2336294 | -.012154 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5846359** | **.1692534** | **2.234692** | **8.433821** | F **19.28868** | **.6868354** |
| Stddev | .1651284 | .0014004 | .007564 | .011349 | .04424 | .0005946 |
| %RSD | 28.24466 | .8274062 | .3384818 | .1345698 | .2293509 | .0865666 |
| #1 | .7176298 | .1695862 | 2.238529 | 8.444486 | 19.24141 | .6861546 |
| #2 | .3998095 | .1704574 | 2.239568 | 8.421893 | 19.32909 | .6870988 |
| #3 | .6364685 | .1677165 | 2.225978 | 8.435084 | 19.29554 | .6872527 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-12 Acquired: 1/12/2025 8:44:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0110372 | 3.639711 | F 13.87857 | .0742118 | .8975593 | .0792864 |
| Stddev | .0001344 | .010299 | .05709 | .0015138 | .0036399 | .0011344 |
| %RSD | 1.217510 | .2829498 | .4113803 | 2.039844 | .4055329 | 1.430713 |
| #1 | .0111741 | 3.633514 | 13.92213 | .0732285 | .8990183 | .0797657 |
| #2 | .0110322 | 3.651599 | 13.89965 | .0734517 | .9002434 | .0801024 |
| #3 | .0109054 | 3.634019 | 13.81394 | .0759550 | .8934163 | .0779910 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1696365 |
| Stddev | .0005715 |
| %RSD | .3369068 |
| #1 | .1691528 |
| #2 | .1702671 |
| #3 | .1694895 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3113.919 | 74956.32 | 10475.78 | 3502.605 | 3326.749 |
| Stddev | 1.759 | 175.43 | 28.45 | 11.954 | 4.003 |
| %RSD | .0564800 | .2340472 | .2715782 | .3412809 | .1203184 |
| #1 | 3115.855 | 74983.95 | 10444.73 | 3497.996 | 3324.670 |
| #2 | 3113.482 | 75116.29 | 10500.60 | 3493.642 | 3324.213 |
| #3 | 3112.420 | 74768.71 | 10482.00 | 3516.177 | 3331.363 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-13 Acquired: 1/12/2025 8:48:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1286802** | **-.005810** | **1.252461** | **.0322895** | **-.001693** | **61.56431** |
| Stddev | .0030979 | .001438 | .001322 | .0029063 | .000526 | .25527 |
| %RSD | 2.407466 | 24.74667 | .1055446 | 9.000683 | 31.07623 | .4146372 |
| #1 | .1322517 | -.007374 | 1.253962 | .0338619 | -.002282 | 61.84869 |
| #2 | .1270690 | -.005508 | 1.251947 | .0289358 | -.001527 | 61.35498 |
| #3 | .1267199 | -.004547 | 1.251472 | .0340709 | -.001270 | 61.48925 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.046994** | **.0052330** | **.0104459** | **26.19547** | **.1518755** | **.1093879** |
| Stddev | .009833 | .0000150 | .0000176 | .13748 | .0003945 | .0000305 |
| %RSD | .9391922 | .2869888 | .1679940 | .5248152 | .2597602 | .0278442 |
| #1 | 1.057352 | .0052265 | .0104257 | 26.35283 | .1515025 | .1094114 |
| #2 | 1.037787 | .0052501 | .0104549 | 26.13491 | .1522885 | .1093987 |
| #3 | 1.045844 | .0052222 | .0104572 | 26.09867 | .1518356 | .1093535 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3235908** | **165.6054** | **10.48150** | **16.02922** | **.1895291** | **-.013211** |
| Stddev | .0004877 | .6219 | .08275 | .03881 | .0006412 | .000323 |
| %RSD | .1507194 | .3755559 | .7894471 | .2421444 | .3383020 | 2.446238 |
| #1 | .3236281 | 166.3055 | 10.57492 | 16.07356 | .1888713 | -.013147 |
| #2 | .3240588 | 165.1167 | 10.41741 | 16.01270 | .1895636 | -.013561 |
| #3 | .3230855 | 165.3941 | 10.45218 | 16.00140 | .1901523 | -.012924 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4280866** | **.1616450** | **1.244820** | **6.010940** | F **11.96703** | **.6804735** |
| Stddev | .1061885 | .0018088 | .005068 | .018573 | .04604 | .0033246 |
| %RSD | 24.80538 | 1.119000 | .4071608 | .3089932 | .3847282 | .4885708 |
| #1 | .5299126 | .1634458 | 1.246665 | 6.001065 | 11.95970 | .6841315 |
| #2 | .4363312 | .1616609 | 1.248707 | 5.999389 | 11.92511 | .6776359 |
| #3 | .3180162 | .1598283 | 1.239087 | 6.032364 | 12.01630 | .6796530 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-13 Acquired: 1/12/2025 8:48:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0075184 | 2.190742 | F 18.01098 | .0400506 | .9544831 | .0747310 |
| Stddev | .0000474 | .007241 | .06671 | .0006367 | .0034957 | .0016006 |
| %RSD | .6307441 | .3305135 | .3703714 | 1.589859 | .3662393 | 2.141862 |
| #1 | .0075670 | 2.185925 | 18.06525 | .0395312 | .9583987 | .0760873 |
| #2 | .0074722 | 2.187232 | 18.03119 | .0407610 | .9533744 | .0751403 |
| #3 | .0075158 | 2.199069 | 17.93651 | .0398597 | .9516762 | .0729655 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1132483 |
| Stddev | .0003232 |
| %RSD | .2854198 |
| #1 | .1136210 |
| #2 | .1130447 |
| #3 | .1130791 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3130.956 | 75926.09 | 10376.44 | 3511.664 | 3330.949 |
| Stddev | 3.269 | 237.41 | 49.80 | 10.277 | 7.908 |
| %RSD | .1043958 | .3126888 | .4799275 | .2926527 | .2374179 |
| #1 | 3127.182 | 75782.17 | 10385.47 | 3504.739 | 3322.970 |
| #2 | 3132.877 | 75795.99 | 10322.75 | 3506.781 | 3338.784 |
| #3 | 3132.809 | 76200.12 | 10421.12 | 3523.472 | 3331.092 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-14 Acquired: 1/12/2025 8:52:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1637898 | -.004221 | 2.260362 | .0374667 | -.002278 | 69.13668 |
| Stddev | .0008396 | .001338 | .002706 | .0011796 | .001161 | .52088 |
| %RSD | .5126283 | 31.71104 | .1197161 | 3.148486 | 50.96952 | .7534113 |
| #1 | .1639187 | -.002675 | 2.257455 | .0363766 | -.003448 | 69.69486 |
| #2 | .1628932 | -.004986 | 2.260824 | .0387191 | -.002259 | 69.05164 |
| #3 | .1645575 | -.005001 | 2.262808 | .0373045 | -.001126 | 68.66355 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.355451 | .0059113 | .0123111 | 34.90051 | .2015082 | .1164056 |
| Stddev | .012317 | .0000429 | .0001431 | .22428 | .0015508 | .0001611 |
| %RSD | .9086816 | .7263837 | 1.162625 | .6426146 | .7696139 | .1384016 |
| #1 | 1.368083 | .0059334 | .0121799 | 35.13315 | .2030793 | .1165882 |
| #2 | 1.354794 | .0059387 | .0122895 | 34.88270 | .2014670 | .1163449 |
| #3 | 1.343476 | .0058618 | .0124637 | 34.68566 | .1999784 | .1162836 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4234606 | 174.7231 | 11.84928 | 17.42902 | .2151687 | -.011869 |
| Stddev | .0029757 | 1.2778 | .09442 | .12498 | .0007215 | .000420 |
| %RSD | .7027110 | .7313204 | .7968570 | .7170851 | .3353075 | 3.536938 |
| #1 | .4210177 | 176.0121 | 11.94655 | 17.57042 | .2145768 | -.012050 |
| #2 | .4267747 | 174.7004 | 11.84329 | 17.38335 | .2149569 | -.011389 |
| #3 | .4225895 | 173.4568 | 11.75799 | 17.33331 | .2159724 | -.012169 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4935714 | .1718225 | 1.815906 | 8.643063 | F 15.72253 | .7295395 |
| Stddev | .0195830 | .0024333 | .011079 | .089665 | .03826 | .0060212 |
| %RSD | 3.967611 | 1.416186 | .6100878 | 1.037422 | .2433134 | .8253452 |
| #1 | .5152708 | .1723373 | 1.827443 | 8.738286 | 15.72160 | .7358257 |
| #2 | .4882302 | .1739572 | 1.814925 | 8.630653 | 15.68475 | .7289689 |
| #3 | .4772131 | .1691729 | 1.805351 | 8.560248 | 15.76124 | .7238239 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-14 Acquired: 1/12/2025 8:52:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0088282 | 3.019996 | F 17.34489 | .0676475 | .9824850 | .0860581 |
| Stddev | .0002200 | .008468 | .06247 | .0013228 | .0046975 | .0004519 |
| %RSD | 2.491902 | .2804038 | .3601460 | 1.955461 | .4781251 | .5251149 |
| #1 | .0087177 | 3.017997 | 17.32193 | .0662869 | .9793910 | .0857637 |
| #2 | .0086855 | 3.012706 | 17.41559 | .0677267 | .9878903 | .0865784 |
| #3 | .0090816 | 3.029285 | 17.29715 | .0689290 | .9801735 | .0858323 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1621656 |
| Stddev | .0012229 |
| %RSD | .7541104 |
| #1 | .1633892 |
| #2 | .1621641 |
| #3 | .1609434 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3202.806 | 74354.78 | 10683.23 | 3513.206 | 3339.180 |
| Stddev | 5.904 | 343.83 | 51.14 | 21.114 | 1.295 |
| %RSD | .1843439 | .4624193 | .4787373 | .6010001 | .0387750 |
| #1 | 3196.010 | 73966.96 | 10742.11 | 3488.939 | 3337.711 |
| #2 | 3206.677 | 74475.10 | 10649.78 | 3523.295 | 3339.672 |
| #3 | 3205.731 | 74622.29 | 10657.82 | 3527.383 | 3340.157 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-15 Acquired: 1/12/2025 8:56:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1111654** | **-.007606** | **.6315860** | **.0340262** | **-.003992** | **63.05279** |
| Stddev | .0015256 | .001137 | .0021841 | .0006305 | .001778 | .02633 |
| %RSD | 1.372365 | 14.94152 | .3458112 | 1.853054 | 44.52914 | .0417569 |
| #1 | .1103797 | -.007970 | .6300128 | .0347354 | -.004803 | 63.07804 |
| #2 | .1129237 | -.006332 | .6306655 | .0335290 | -.001953 | 63.02550 |
| #3 | .1101929 | -.008516 | .6340796 | .0338141 | -.005219 | 63.05484 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8904893** | **.0050818** | **.0106536** | **20.77262** | **.1291649** | **.1192775** |
| Stddev | .0028773 | .0000904 | .0001730 | .02683 | .0002456 | .0007411 |
| %RSD | .3231175 | 1.779492 | 1.624214 | .1291465 | .1901273 | .6213034 |
| #1 | .8937080 | .0050899 | .0106308 | 20.80153 | .1289220 | .1189040 |
| #2 | .8895931 | .0051680 | .0104930 | 20.76781 | .1294131 | .1187976 |
| #3 | .8881667 | .0049876 | .0108369 | 20.74853 | .1291595 | .1201311 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3063317** | **176.9929** | **14.18427** | **20.42573** | **.2108110** | **-.014499** |
| Stddev | .0013854 | .1534 | .02663 | .01543 | .0012265 | .000222 |
| %RSD | .4522455 | .0866966 | .1877630 | .0755227 | .5817865 | 1.534100 |
| #1 | .3049393 | 177.0969 | 14.21502 | 20.42550 | .2100969 | -.014251 |
| #2 | .3063459 | 176.8167 | 14.16918 | 20.41042 | .2101089 | -.014681 |
| #3 | .3077099 | 177.0652 | 14.16861 | 20.44126 | .2122272 | -.014565 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5700897** | **.1594641** | **.9104721** | **6.620822** | **8.334780** | **.7320988** |
| Stddev | .0731776 | .0022284 | .0021320 | .033973 | .021843 | .0015344 |
| %RSD | 12.83615 | 1.397415 | .2341600 | .5131222 | .2620709 | .2095862 |
| #1 | .6498086 | .1620359 | .9083263 | 6.657642 | 8.322124 | .7337501 |
| #2 | .5544923 | .1581064 | .9125899 | 6.614133 | 8.322215 | .7307171 |
| #3 | .5059684 | .1582501 | .9105002 | 6.590692 | 8.360003 | .7318292 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-15 Acquired: 1/12/2025 8:56:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0067271 | 1.127677 | F 15.92339 | .0222628 | .8118936 | .0834185 |
| Stddev | .0002859 | .006398 | .01256 | .0001836 | .0030531 | .0009728 |
| %RSD | 4.250675 | .5673915 | .0788860 | .8245935 | .3760474 | 1.166208 |
| #1 | .0070112 | 1.127161 | 15.93712 | .0221053 | .8153940 | .0841072 |
| #2 | .0064394 | 1.121552 | 15.91247 | .0224644 | .8105064 | .0823056 |
| #3 | .0067307 | 1.134317 | 15.92059 | .0222187 | .8097803 | .0838426 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0871474 |
| Stddev | .0000627 |
| %RSD | .0719563 |
| #1 | .0871010 |
| #2 | .0872187 |
| #3 | .0871224 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3427.353 | 80999.01 | 11363.13 | 3826.858 | 3313.608 |
| Stddev | 8.205 | 113.32 | 8.82 | 1.177 | 7.192 |
| %RSD | .2393859 | .1399069 | .0775879 | .0307474 | .2170496 |
| #1 | 3423.859 | 80868.71 | 11361.27 | 3825.503 | 3317.831 |
| #2 | 3436.726 | 81053.75 | 11355.39 | 3827.628 | 3317.690 |
| #3 | 3421.473 | 81074.57 | 11372.73 | 3827.441 | 3305.304 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-16 Acquired: 1/12/2025 9:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1431378** | **-.009017** | **.3576234** | **.0217889** | **-.004599** | **50.17681** |
| Stddev | .0004233 | .001354 | .0025659 | .0009112 | .001824 | .44743 |
| %RSD | .2957113 | 15.01519 | .7174774 | 4.181951 | 39.66242 | .8917149 |
| #1 | .1435904 | -.007914 | .3586636 | .0209260 | -.003769 | 50.29991 |
| #2 | .1430713 | -.008608 | .3595058 | .0227418 | -.003337 | 50.54980 |
| #3 | .1427517 | -.010528 | .3547007 | .0216990 | -.006690 | 49.68071 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6916910** | **.0046460** | **.0096068** | **238.2216** | **.1109453** | **.1026040** |
| Stddev | .0075423 | .0000910 | .0002306 | 2.0938 | .0005189 | .0006068 |
| %RSD | 1.090414 | 1.958585 | 2.399995 | .8789295 | .4676715 | .5913990 |
| #1 | .6937471 | .0045965 | .0093630 | 238.3971 | .1114208 | .1025031 |
| #2 | .6979921 | .0047510 | .0096361 | 240.2222 | .1103919 | .1020540 |
| #3 | .6833339 | .0045905 | .0098213 | 236.0456 | .1110232 | .1032550 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1745507** | **137.0172** | **18.31922** | **21.79875** | **.1824995** | **-.010840** |
| Stddev | .0009340 | 1.3427 | .16846 | .22284 | .0006736 | .000560 |
| %RSD | .5351175 | .9799683 | .9195706 | 1.022268 | .3690778 | 5.165451 |
| #1 | .1756162 | 137.2393 | 18.33431 | 21.75892 | .1819292 | -.010195 |
| #2 | .1738729 | 138.2350 | 18.47962 | 22.03882 | .1823265 | -.011127 |
| #3 | .1741631 | 135.5772 | 18.14372 | 21.59851 | .1832426 | -.011198 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3158117** | **.1042947** | **.6324178** | **8.567433** | **6.284347** | **.5912953** |
| Stddev | .1830940 | .0018225 | .0006452 | .078682 | .009635 | .0074519 |
| %RSD | 57.97567 | 1.747487 | .1020213 | .9183836 | .1533173 | 1.260259 |
| #1 | .2245500 | .1061679 | .6331355 | 8.581944 | 6.292409 | .5923651 |
| #2 | .1962854 | .1025275 | .6322317 | 8.637849 | 6.273676 | .5981545 |
| #3 | .5265997 | .1041885 | .6318860 | 8.482505 | 6.286955 | .5833664 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-16 Acquired: 1/12/2025 9:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0143125 | .7346265 | F 15.05347 | .0072543 | .5940825 | .0858376 |
| Stddev | .0001824 | .0068024 | .03957 | .0010645 | .0017293 | .0007007 |
| %RSD | 1.274357 | .9259666 | .2628728 | 14.67392 | .2910951 | .8163215 |
| #1 | .0141711 | .7417605 | 15.00782 | .0065021 | .5939552 | .0864923 |
| #2 | .0145184 | .7339060 | 15.07461 | .0084723 | .5958719 | .0850985 |
| #3 | .0142480 | .7282130 | 15.07798 | .0067886 | .5924202 | .0859220 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1791193 |
| Stddev | .0020901 |
| %RSD | 1.166882 |
| #1 | .1794935 |
| #2 | .1809971 |
| #3 | .1768674 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3032.904 | 70294.85 | 10297.99 | 3334.706 | 3172.122 |
| Stddev | 5.219 | 338.51 | 57.94 | 6.118 | 6.994 |
| %RSD | .1720654 | .4815504 | .5626126 | .1834677 | .2204722 |
| #1 | 3027.017 | 70384.37 | 10348.17 | 3335.214 | 3165.712 |
| #2 | 3036.962 | 69920.59 | 10311.21 | 3328.349 | 3179.581 |
| #3 | 3034.733 | 70579.60 | 10234.58 | 3340.554 | 3171.075 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-17 Acquired: 1/12/2025 9:04:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0887245** | **-.014481** | **.2762101** | **.0167631** | **-.003450** | **50.27045** |
| Stddev | .0032492 | .002310 | .0037104 | .0037045 | .001028 | .29682 |
| %RSD | 3.662085 | 15.95338 | 1.343316 | 22.09903 | 29.78781 | .5904453 |
| #1 | .0894626 | -.016435 | .2719344 | .0163117 | -.003879 | 50.60754 |
| #2 | .0851698 | -.011931 | .2785840 | .0206725 | -.002278 | 50.15559 |
| #3 | .0915412 | -.015078 | .2781119 | .0133049 | -.004195 | 50.04823 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9371294** | **.0045878** | **.0106005** | **740.7745** | **.0994095** | **.1066970** |
| Stddev | .0083450 | .0000584 | .0000666 | 3.2431 | .0003556 | .0002108 |
| %RSD | .8904906 | 1.273050 | .6277980 | .4377939 | .3577463 | .1975500 |
| #1 | .9466265 | .0046343 | .0105244 | 743.8860 | .0989997 | .1066172 |
| #2 | .9337930 | .0046069 | .0106480 | 737.4142 | .0996373 | .1065378 |
| #3 | .9309688 | .0045223 | .0106291 | 741.0231 | .0995916 | .1069360 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4195770** | **148.1940** | **22.84766** | **51.06612** | **.2002800** | **-.010858** |
| Stddev | .0041689 | .6941 | .03872 | .28324 | .0006789 | .000431 |
| %RSD | .9935940 | .4683655 | .1694883 | .5546571 | .3389640 | 3.966010 |
| #1 | .4163887 | 148.9621 | 22.88318 | 51.35486 | .1997568 | -.010862 |
| #2 | .4180478 | 148.0079 | 22.85343 | 51.05479 | .2000362 | -.010425 |
| #3 | .4242946 | 147.6119 | 22.80638 | 50.78871 | .2010472 | -.011286 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6889798** | **.1049026** | **.7656848** | **7.793097** | **6.739489** | **.6407801** |
| Stddev | .0864352 | .0015834 | .0021694 | .117931 | .024639 | .0027423 |
| %RSD | 12.54539 | 1.509419 | .2833323 | 1.513280 | .3655972 | .4279628 |
| #1 | .5917071 | .1067000 | .7644713 | 7.928016 | 6.765242 | .6438700 |
| #2 | .7182628 | .1037134 | .7643935 | 7.741616 | 6.716140 | .6398348 |
| #3 | .7569696 | .1042946 | .7681894 | 7.709658 | 6.737083 | .6386355 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-17 Acquired: 1/12/2025 9:04:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0045294 | 1.506558 | F 14.21728 | .0031759 | .5360568 | .0976899 |
| Stddev | .0004000 | .007806 | .02989 | .0004771 | .0037060 | .0005965 |
| %RSD | 8.831048 | .5181591 | .2102267 | 15.02256 | .6913536 | .6105902 |
| #1 | .0043681 | 1.497959 | 14.19379 | .0029006 | .5332241 | .0983786 |
| #2 | .0049848 | 1.508518 | 14.25092 | .0029003 | .5346953 | .0973399 |
| #3 | .0042352 | 1.513199 | 14.20714 | .0037268 | .5402511 | .0973512 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5087346 |
| Stddev | .0025296 |
| %RSD | .4972381 |
| #1 | .5116522 |
| #2 | .5073959 |
| #3 | .5071556 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2888.472 | 67595.07 | 10261.09 | 3203.932 | 2874.277 |
| Stddev | 3.871 | 83.10 | 61.49 | 5.216 | 4.874 |
| %RSD | .1340266 | .1229371 | .5992266 | .1628083 | .1695875 |
| #1 | 2885.460 | 67499.16 | 10326.60 | 3209.577 | 2872.125 |
| #2 | 2887.117 | 67645.75 | 10252.05 | 3199.291 | 2879.857 |
| #3 | 2892.839 | 67640.29 | 10204.63 | 3202.926 | 2870.849 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-18 Acquired: 1/12/2025 9:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0712041** | **-.004434** | **.2842548** | **.0274823** | **-.002914** | **54.37287** |
| Stddev | .0007453 | .001887 | .0015086 | .0023956 | .001872 | .19600 |
| %RSD | 1.046779 | 42.55527 | .5307104 | 8.716989 | 64.25477 | .3604721 |
| #1 | .0703793 | -.006352 | .2839146 | .0289882 | -.001556 | 54.21539 |
| #2 | .0714036 | -.002579 | .2859044 | .0287389 | -.002137 | 54.59238 |
| #3 | .0718294 | -.004371 | .2829453 | .0247198 | -.005050 | 54.31084 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9032155** | **.0037084** | **.0093141** | **82.93243** | **.1201995** | **.0960061** |
| Stddev | .0020724 | .0000223 | .0000614 | .26511 | .0000836 | .0000921 |
| %RSD | .2294503 | .6014838 | .6587948 | .3196736 | .0695311 | .0958798 |
| #1 | .9011218 | .0037196 | .0093104 | 82.83082 | .1201215 | .0959372 |
| #2 | .9052659 | .0036827 | .0093772 | 83.23332 | .1201894 | .0959704 |
| #3 | .9032589 | .0037229 | .0092546 | 82.73315 | .1202877 | .0961106 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3478637** | **154.9346** | **10.48016** | **37.23071** | **.2268156** | **-.012336** |
| Stddev | .0013744 | .5656 | .02542 | .13333 | .0005465 | .000493 |
| %RSD | .3950845 | .3650892 | .2425511 | .3581052 | .2409641 | 3.998235 |
| #1 | .3476300 | 154.4907 | 10.46325 | 37.17417 | .2262000 | -.012538 |
| #2 | .3466212 | 155.5715 | 10.50939 | 37.38299 | .2272439 | -.012695 |
| #3 | .3493399 | 154.7415 | 10.46783 | 37.13498 | .2270028 | -.011773 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.049571** | **.1255653** | **1.238212** | **6.745965** | F **11.17656** | **.6606888** |
| Stddev | .094332 | .0008181 | .004267 | .045617 | .01418 | .0040655 |
| %RSD | 8.987721 | .6515579 | .3446000 | .6762142 | .1268899 | .6153435 |
| #1 | 1.044849 | .1247853 | 1.239226 | 6.769979 | 11.18783 | .6570194 |
| #2 | 1.146175 | .1254937 | 1.241880 | 6.774558 | 11.16063 | .6650593 |
| #3 | .957688 | .1264169 | 1.233529 | 6.693357 | 11.18121 | .6599878 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-18 Acquired: 1/12/2025 9:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024483 | 1.507845 | F 15.53362 | .0070292 | .7500059 | .0803905 |
| Stddev | .0000976 | .006953 | .07988 | .0010438 | .0015709 | .0011290 |
| %RSD | 3.986133 | .4610955 | .5142636 | 14.84967 | .2094518 | 1.404456 |
| #1 | .0025415 | 1.506057 | 15.60617 | .0071511 | .7507364 | .0798641 |
| #2 | .0024565 | 1.501962 | 15.44801 | .0059298 | .7482027 | .0796208 |
| #3 | .0023468 | 1.515518 | 15.54667 | .0080068 | .7510785 | .0816866 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1565996 |
| Stddev | .0006831 |
| %RSD | .4362339 |
| #1 | .1559055 |
| #2 | .1572712 |
| #3 | .1566221 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3280.623 | 76075.78 | 11017.34 | 3584.003 | 3250.854 |
| Stddev | 6.767 | 208.12 | 50.22 | 7.757 | 5.287 |
| %RSD | .2062786 | .2735714 | .4558506 | .2164410 | .1626273 |
| #1 | 3277.098 | 76018.76 | 10966.66 | 3580.685 | 3252.988 |
| #2 | 3288.425 | 75902.11 | 11067.09 | 3578.456 | 3254.741 |
| #3 | 3276.347 | 76306.46 | 11018.27 | 3592.867 | 3244.834 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-19 Acquired: 1/12/2025 9:12:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1317132 | -.004066 | 2.217426 | .0295680 | .0047256 | 50.33985 |
| Stddev | .0013164 | .000663 | .001042 | .0023448 | .0012018 | .20090 |
| %RSD | .9994194 | 16.30560 | .0469755 | 7.930314 | 25.43077 | .3990965 |
| #1 | .1330019 | -.004497 | 2.217294 | .0270274 | .0035444 | 50.34865 |
| #2 | .1317668 | -.003303 | 2.216457 | .0300277 | .0059470 | 50.13468 |
| #3 | .1303708 | -.004398 | 2.218527 | .0316490 | .0046856 | 50.53620 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.170256 | .0045060 | .0102714 | 34.74668 | .2254136 | .0969330 |
| Stddev | .001689 | .0001586 | .0000581 | .07076 | .0005932 | .0001052 |
| %RSD | .1442930 | 3.520463 | .5658785 | .2036461 | .2631558 | .1085476 |
| #1 | 1.170182 | .0044881 | .0103027 | 34.71609 | .2247542 | .0969576 |
| #2 | 1.171980 | .0046729 | .0102043 | 34.69635 | .2255830 | .0968177 |
| #3 | 1.168605 | .0043571 | .0103071 | 34.82758 | .2259037 | .0970238 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3692399 | 137.5743 | 8.895573 | 13.96641 | .1820833 | -.009792 |
| Stddev | .0014028 | .5330 | .011379 | .04215 | .0000705 | .000250 |
| %RSD | .3799160 | .3874063 | .1279143 | .3018047 | .0386900 | 2.554726 |
| #1 | .3701212 | 137.5138 | 8.895814 | 13.97650 | .1820191 | -.009744 |
| #2 | .3676222 | 137.0741 | 8.906829 | 13.92013 | .1821587 | -.010063 |
| #3 | .3699763 | 138.1349 | 8.884075 | 14.00260 | .1820720 | -.009570 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.015819 | .1375906 | 1.907387 | 8.055239 | F 13.16492 | .6970617 |
| Stddev | .105204 | .0013466 | .006271 | .044977 | .04739 | .0031722 |
| %RSD | 10.35653 | .9786693 | .3287824 | .5583625 | .3599470 | .4550802 |
| #1 | 1.059044 | .1389764 | 1.913737 | 8.094600 | 13.14284 | .6954735 |
| #2 | 1.092524 | .1362871 | 1.907226 | 8.006215 | 13.13261 | .6949973 |
| #3 | .895888 | .1375084 | 1.901198 | 8.064901 | 13.21932 | .7007143 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-19 Acquired: 1/12/2025 9:12:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0129287 | 3.716918 | F 15.91776 | .1285801 | .8761574 | .0604651 |
| Stddev | .0002290 | .016629 | .08318 | .0009836 | .0037007 | .0006156 |
| %RSD | 1.771233 | .4473832 | .5225705 | .7649724 | .4223757 | 1.018162 |
| #1 | .0128111 | 3.711393 | 15.98476 | .1284548 | .8755060 | .0611221 |
| #2 | .0127823 | 3.703755 | 15.94386 | .1296203 | .8801406 | .0599015 |
| #3 | .0131925 | 3.735606 | 15.82466 | .1276651 | .8728257 | .0603716 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1444378 |
| Stddev | .0007910 |
| %RSD | .5476703 |
| #1 | .1444040 |
| #2 | .1436641 |
| #3 | .1452451 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2997.679 | 70468.18 | 10056.08 | 3313.312 | 3376.967 |
| Stddev | 3.213 | 405.55 | 22.50 | 4.310 | 2.583 |
| %RSD | .1071801 | .5755023 | .2237489 | .1300927 | .0764768 |
| #1 | 2994.231 | 70768.84 | 10081.98 | 3314.235 | 3374.186 |
| #2 | 3000.589 | 70628.76 | 10041.35 | 3317.086 | 3379.291 |
| #3 | 2998.215 | 70006.93 | 10044.91 | 3308.615 | 3377.423 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-01 Acquired: 1/12/2025 9:16:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0574421** | **-.002464** | **.5484851** | **.0320074** | **-.001683** | **72.58691** |
| Stddev | .0018705 | .000749 | .0029572 | .0016492 | .001034 | .41988 |
| %RSD | 3.256328 | 30.39999 | .5391487 | 5.152400 | 61.45448 | .5784504 |
| #1 | .0595737 | -.003326 | .5514904 | .0334461 | -.002674 | 73.07174 |
| #2 | .0566781 | -.002099 | .5483865 | .0323685 | -.000610 | 72.34528 |
| #3 | .0560745 | -.001968 | .5455786 | .0302076 | -.001764 | 72.34369 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5344200** | **.0039343** | **.0056895** | **27.10885** | **.1347851** | **.0755133** |
| Stddev | .0037140 | .0001313 | .0001469 | .19035 | .0009790 | .0002914 |
| %RSD | .6949658 | 3.336319 | 2.582926 | .7021702 | .7263342 | .3858606 |
| #1 | .5387059 | .0040859 | .0055829 | 27.32689 | .1355413 | .0751769 |
| #2 | .5324084 | .0038609 | .0058571 | 27.02390 | .1351348 | .0756781 |
| #3 | .5321457 | .0038562 | .0056284 | 26.97577 | .1336793 | .0756850 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1543314** | **145.7887** | **5.853982** | **18.94895** | **.1881343** | **-.013866** |
| Stddev | .0012589 | .9510 | .053490 | .10424 | .0003194 | .000280 |
| %RSD | .8157009 | .6523062 | .9137414 | .5500858 | .1697901 | 2.018489 |
| #1 | .1557005 | 146.8589 | 5.915675 | 19.05688 | .1878245 | -.013910 |
| #2 | .1532239 | 145.4669 | 5.825712 | 18.94111 | .1884626 | -.013566 |
| #3 | .1540699 | 145.0404 | 5.820558 | 18.84885 | .1881158 | -.014121 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4340035** | **.1590813** | **.5840541** | **3.821904** | **9.533777** | **.5981538** |
| Stddev | .1558352 | .0010562 | .0023845 | .050652 | .025858 | .0062523 |
| %RSD | 35.90644 | .6639613 | .4082620 | 1.325320 | .2712288 | 1.045259 |
| #1 | .2713720 | .1579326 | .5843874 | 3.877938 | 9.506511 | .6050497 |
| #2 | .5820115 | .1593006 | .5862545 | 3.779368 | 9.557949 | .5965566 |
| #3 | .4486269 | .1600107 | .5815206 | 3.808404 | 9.536870 | .5928550 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-01 Acquired: 1/12/2025 9:16:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0055631 | 1.321815 | F 17.38408 | .0226769 | .9256767 | .0755172 |
| Stddev | .0004082 | .009244 | .08115 | .0004362 | .0047479 | .0012854 |
| %RSD | 7.338017 | .6993291 | .4668316 | 1.923394 | .5129107 | 1.702160 |
| #1 | .0053747 | 1.313148 | 17.47715 | .0225934 | .9307939 | .0769793 |
| #2 | .0052831 | 1.320754 | 17.34697 | .0222886 | .9248221 | .0750078 |
| #3 | .0060315 | 1.331544 | 17.32812 | .0231488 | .9214142 | .0745646 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0681313 |
| Stddev | .0004825 |
| %RSD | .7081314 |
| #1 | .0686773 |
| #2 | .0679540 |
| #3 | .0677626 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2751.780 | 68167.80 | 9306.762 | 3171.175 | 3302.458 |
| Stddev | .357 | 266.07 | 29.917 | 15.624 | 4.530 |
| %RSD | .0129620 | .3903225 | .3214545 | .4926899 | .1371777 |
| #1 | 2751.558 | 67937.92 | 9296.810 | 3162.410 | 3307.517 |
| #2 | 2752.192 | 68106.20 | 9283.090 | 3161.901 | 3301.081 |
| #3 | 2751.591 | 68459.27 | 9340.387 | 3189.214 | 3298.776 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-02 Acquired: 1/12/2025 9:20:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1007516** | **-.003764** | **.7034413** | **.0330652** | **-.002560** | **78.23887** |
| Stddev | .0030625 | .000719 | .0027606 | .0006885 | .000494 | .38233 |
| %RSD | 3.039697 | 19.09541 | .3924429 | 2.082119 | 19.30795 | .4886649 |
| #1 | .1042780 | -.004075 | .7009374 | .0331926 | -.002972 | 77.98906 |
| #2 | .0992182 | -.002942 | .7064017 | .0336811 | -.002696 | 78.04855 |
| #3 | .0987587 | -.004274 | .7029846 | .0323220 | -.002012 | 78.67901 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8046367** | **.0047223** | **.0071957** | **115.2551** | **.1467352** | **.0902238** |
| Stddev | .0034199 | .0000964 | .0000785 | .4843 | .0002050 | .0001767 |
| %RSD | .4250203 | 2.040800 | 1.090846 | .4202049 | .1396806 | .1958786 |
| #1 | .8015333 | .0048331 | .0072824 | 114.9518 | .1467895 | .0900748 |
| #2 | .8040737 | .0046750 | .0071295 | 114.9998 | .1465085 | .0904191 |
| #3 | .8083032 | .0046587 | .0071751 | 115.8136 | .1469075 | .0901775 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2889573** | **171.5977** | **8.222101** | **30.16688** | **.1900188** | **-.014893** |
| Stddev | .0020665 | .6188 | .027259 | .11590 | .0002509 | .000150 |
| %RSD | .7151756 | .3606207 | .3315278 | .3841950 | .1320350 | 1.005095 |
| #1 | .2900638 | 171.2099 | 8.198710 | 30.05813 | .1898072 | -.014740 |
| #2 | .2902349 | 171.2718 | 8.215558 | 30.15371 | .1899531 | -.014900 |
| #3 | .2865731 | 172.3113 | 8.252036 | 30.28881 | .1902959 | -.015039 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4652022** | **.1665153** | **.7687144** | **5.564693** | **6.816893** | **.7153041** |
| Stddev | .2873455 | .0008140 | .0011147 | .013410 | .019508 | .0033913 |
| %RSD | 61.76788 | .4888314 | .1450015 | .2409760 | .2861749 | .4741096 |
| #1 | .7434781 | .1667812 | .7696909 | 5.559942 | 6.800227 | .7121658 |
| #2 | .4825549 | .1656016 | .7675000 | 5.554306 | 6.812102 | .7148449 |
| #3 | .1695735 | .1671630 | .7689523 | 5.579832 | 6.838351 | .7189017 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-02 Acquired: 1/12/2025 9:20:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0053114 | 1.486815 | F 17.29640 | .0431082 | .8162173 | .0912499 |
| Stddev | .0006321 | .005678 | .09087 | .0018207 | .0015896 | .0004011 |
| %RSD | 11.90013 | .3819088 | .5253815 | 4.223614 | .1947508 | .4395693 |
| #1 | .0059155 | 1.481930 | 17.33885 | .0450103 | .8143853 | .0916322 |
| #2 | .0053641 | 1.493045 | 17.35827 | .0413816 | .8172318 | .0908323 |
| #3 | .0046547 | 1.485469 | 17.19206 | .0429326 | .8170347 | .0912852 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1448354 |
| Stddev | .0005448 |
| %RSD | .3761651 |
| #1 | .1443665 |
| #2 | .1447066 |
| #3 | .1454331 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2908.856 | 69741.37 | 9926.048 | 3244.836 | 3269.811 |
| Stddev | 1.333 | 85.26 | 53.111 | 8.000 | 10.431 |
| %RSD | .0458332 | .1222484 | .5350633 | .2465568 | .3190026 |
| #1 | 2907.411 | 69792.77 | 9906.294 | 3243.058 | 3281.379 |
| #2 | 2910.037 | 69788.38 | 9885.646 | 3237.873 | 3261.122 |
| #3 | 2909.121 | 69642.96 | 9986.205 | 3253.575 | 3266.931 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-03 Acquired: 1/12/2025 9:24:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0530135** | **-.003101** | **.1913164** | **.0174188** | **-.000385** | **51.59741** |
| Stddev | .0012909 | .003281 | .0024415 | .0020438 | .000731 | .10896 |
| %RSD | 2.435056 | 105.8122 | 1.276166 | 11.73317 | 189.8498 | .2111747 |
| #1 | .0545038 | -.005100 | .1929826 | .0163283 | -.000308 | 51.69699 |
| #2 | .0522946 | .000686 | .1885139 | .0197765 | .000304 | 51.48102 |
| #3 | .0522422 | -.004888 | .1924528 | .0161516 | -.001151 | 51.61421 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5856711** | **.0034855** | **.0051472** | **447.5247** | **.0971462** | **.0734813** |
| Stddev | .0010142 | .0000620 | .0000807 | 1.0877 | .0003669 | .0002374 |
| %RSD | .1731689 | 1.778111 | 1.568121 | .2430475 | .3776533 | .3230349 |
| #1 | .5857857 | .0034428 | .0051198 | 447.9554 | .0968988 | .0735449 |
| #2 | .5866232 | .0035565 | .0050837 | 448.3311 | .0975677 | .0736805 |
| #3 | .5846045 | .0034570 | .0052380 | 446.2876 | .0969722 | .0732187 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2551018** | **135.5664** | **7.196760** | **161.4976** | **.1463770** | **-.012492** |
| Stddev | .0019260 | .2092 | .006635 | .1971 | .0007211 | .000411 |
| %RSD | .7549790 | .1543335 | .0922004 | .1220537 | .4926254 | 3.292065 |
| #1 | .2568952 | 135.7995 | 7.202100 | 161.4591 | .1471794 | -.012096 |
| #2 | .2530662 | 135.3949 | 7.198849 | 161.3226 | .1457832 | -.012917 |
| #3 | .2553441 | 135.5048 | 7.189332 | 161.7111 | .1461685 | -.012462 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6762225** | **.1169116** | **.4635111** | **6.379572** | **5.153587** | **.5826890** |
| Stddev | .0735724 | .0011558 | .0021977 | .057572 | .006621 | .0005510 |
| %RSD | 10.87991 | .9885942 | .4741364 | .9024402 | .1284782 | .0945645 |
| #1 | .6115756 | .1155774 | .4653429 | 6.390917 | 5.152395 | .5833106 |
| #2 | .6608126 | .1176060 | .4641162 | 6.317173 | 5.147643 | .5822606 |
| #3 | .7562794 | .1175515 | .4610743 | 6.430627 | 5.160724 | .5824957 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-03 Acquired: 1/12/2025 9:24:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0032879 | 1.069743 | F 13.53114 | .0063866 | .7597691 | .0969329 |
| Stddev | .0002458 | .003368 | .01672 | .0010913 | .0005829 | .0011051 |
| %RSD | 7.474991 | .3148607 | .1235776 | 17.08704 | .0767194 | 1.140096 |
| #1 | .0030042 | 1.067859 | 13.51190 | .0051305 | .7592037 | .0981635 |
| #2 | .0034350 | 1.067739 | 13.54218 | .0071012 | .7597355 | .0966098 |
| #3 | .0034246 | 1.073632 | 13.53934 | .0069281 | .7603680 | .0960252 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3568422 |
| Stddev | .0013272 |
| %RSD | .3719205 |
| #1 | .3580531 |
| #2 | .3554233 |
| #3 | .3570500 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2742.351 | 64557.25 | 9699.965 | 3026.085 | 2917.237 |
| Stddev | 3.962 | 97.92 | 41.510 | 10.987 | 5.489 |
| %RSD | .1444585 | .1516806 | .4279447 | .3630662 | .1881445 |
| #1 | 2738.859 | 64669.75 | 9745.658 | 3016.574 | 2913.551 |
| #2 | 2741.540 | 64510.85 | 9689.659 | 3023.569 | 2914.616 |
| #3 | 2746.656 | 64491.15 | 9664.579 | 3038.111 | 2923.545 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-04 Acquired: 1/12/2025 9:28:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0520319 | -.005939 | .2398780 | .0195982 | -.000115 | 56.96949 |
| Stddev | .0005628 | .000692 | .0012733 | .0002308 | .000442 | .15195 |
| %RSD | 1.081692 | 11.65163 | .5308192 | 1.177855 | 383.7894 | .2667218 |
| #1 | .0516739 | -.005585 | .2396882 | .0194674 | .000392 | 57.00199 |
| #2 | .0517412 | -.006736 | .2387102 | .0194625 | -.000327 | 56.80392 |
| #3 | .0526807 | -.005495 | .2412355 | .0198648 | -.000411 | 57.10256 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7391994 | .0036749 | .0061143 | 321.8331 | .1188277 | .0815686 |
| Stddev | .0032420 | .0001688 | .0001146 | 2.7882 | .0001686 | .0003390 |
| %RSD | .4385896 | 4.592363 | 1.873664 | .8663496 | .1419045 | .4156438 |
| #1 | .7409113 | .0038697 | .0059869 | 323.9199 | .1190019 | .0813906 |
| #2 | .7354602 | .0035736 | .0062089 | 322.9129 | .1188162 | .0813556 |
| #3 | .7412266 | .0035813 | .0061472 | 318.6665 | .1186652 | .0819596 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2577990 | 143.4021 | 7.961415 | 52.14850 | .1608054 | -.012752 |
| Stddev | .0008582 | .2760 | .020505 | .08790 | .0007652 | .000271 |
| %RSD | .3328983 | .1924318 | .2575546 | .1685638 | .4758484 | 2.122538 |
| #1 | .2568331 | 143.4980 | 7.968676 | 52.18030 | .1611209 | -.012952 |
| #2 | .2580903 | 143.0910 | 7.938267 | 52.04912 | .1599329 | -.012860 |
| #3 | .2584737 | 143.6173 | 7.977301 | 52.21607 | .1613624 | -.012444 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4703305 | .1205431 | .5397756 | 6.249670 | 5.526151 | .6117212 |
| Stddev | .1352740 | .0003684 | .0017242 | .081025 | .016058 | .0006626 |
| %RSD | 28.76148 | .3056119 | .3194348 | 1.296463 | .2905849 | .1083196 |
| #1 | .5707752 | .1208619 | .5409394 | 6.297418 | 5.530317 | .6124135 |
| #2 | .5237044 | .1201398 | .5405927 | 6.156117 | 5.508421 | .6116571 |
| #3 | .3165118 | .1206277 | .5377947 | 6.295474 | 5.539716 | .6110929 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-04 Acquired: 1/12/2025 9:28:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMP9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0040331 | .7008813 | F 13.68474 | .0089381 | .7398887 | .0996044 |
| Stddev | .0002907 | .0094009 | .01276 | .0001587 | .0005656 | .0004525 |
| %RSD | 7.208395 | 1.341290 | .0932365 | 1.775851 | .0764470 | .4542931 |
| #1 | .0038376 | .7057381 | 13.68394 | .0087644 | .7398210 | .0996242 |
| #2 | .0043672 | .6900455 | 13.67239 | .0089745 | .7393599 | .0991424 |
| #3 | .0038945 | .7068604 | 13.69788 | .0090755 | .7404851 | .1000467 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3209351 |
| Stddev | .0010009 |
| %RSD | .3118592 |
| #1 | .3211134 |
| #2 | .3198570 |
| #3 | .3218348 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2832.763 | 68347.38 | 9990.809 | 3195.079 | 2996.035 |
| Stddev | 3.126 | 143.30 | 26.499 | 5.059 | 9.848 |
| %RSD | .1103615 | .2096647 | .2652361 | .1583277 | .3286961 |
| #1 | 2829.729 | 68196.21 | 9979.904 | 3198.268 | 2991.587 |
| #2 | 2835.974 | 68481.23 | 9971.501 | 3189.246 | 3007.322 |
| #3 | 2832.585 | 68364.71 | 10021.02 | 3197.722 | 2989.196 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV005 Acquired: 1/12/2025 9:32:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.662851** | **4.749611** | **24.19990** | **4.724651** | **4.640977** | **387.0872** |
| Stddev | .015507 | .022147 | .03901 | .018258 | .015789 | 2.9512 |
| %RSD | .3325744 | .4662932 | .1611870 | .3864458 | .3402044 | .7624232 |
| #1 | 4.655195 | 4.746053 | 24.15945 | 4.713846 | 4.625890 | 384.9864 |
| #2 | 4.680698 | 4.773321 | 24.23729 | 4.745732 | 4.657385 | 385.8139 |
| #3 | 4.652660 | 4.729458 | 24.20297 | 4.714376 | 4.639656 | 390.4614 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.837464** | **.4964458** | **2.439759** | **389.2133** | **15.30580** | **2.455370** |
| Stddev | .033208 | .0025852 | .002468 | 3.3470 | .02255 | .004187 |
| %RSD | .3375704 | .5207459 | .1011767 | .8599520 | .1473181 | .1705065 |
| #1 | 9.870384 | .4969088 | 2.438988 | 386.6591 | 15.33177 | 2.450553 |
| #2 | 9.803975 | .4987683 | 2.442520 | 387.9785 | 15.29451 | 2.458131 |
| #3 | 9.838034 | .4936604 | 2.437767 | 393.0023 | 15.29113 | 2.457426 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.62146** | **385.7824** | **14.76869** | **241.5183** | **2.448023** | **1.232674** |
| Stddev | .03435 | 1.7975 | .08620 | 1.3112 | .003506 | .001131 |
| %RSD | .2349366 | .4659259 | .5836973 | .5429076 | .1432260 | .0917725 |
| #1 | 14.58448 | 384.6412 | 14.68438 | 240.4240 | 2.444037 | 1.233320 |
| #2 | 14.62752 | 384.8518 | 14.76500 | 241.1594 | 2.450631 | 1.233335 |
| #3 | 14.65238 | 387.8544 | 14.85668 | 242.9717 | 2.449402 | 1.231368 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **393.4649** | **2.386367** | **15.84227** | **148.0644** | **4.842117** | F **5.864249** |
| Stddev | 1.9157 | .002927 | .04442 | .8849 | .013196 | .018039 |
| %RSD | .4868675 | .1226626 | .2803575 | .5976491 | .2725171 | .3076084 |
| #1 | 391.2667 | 2.383012 | 15.88571 | 147.4145 | 4.830458 | 5.863734 |
| #2 | 394.7773 | 2.387691 | 15.84417 | 147.7065 | 4.856442 | 5.882540 |
| #3 | 394.3508 | 2.388398 | 15.79694 | 149.0722 | 4.839451 | 5.846473 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV005 Acquired: 1/12/2025 9:32:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.678524** | **4.848580** | **4.818000** | **4.831707** | **4.826068** | **4.726515** |
| Stddev | .012325 | .026569 | .032245 | .005482 | .021043 | .033494 |
| %RSD | .2634330 | .5479651 | .6692517 | .1134495 | .4360281 | .7086461 |
| #1 | 4.668784 | 4.828300 | 4.781296 | 4.826879 | 4.801796 | 4.694250 |
| #2 | 4.692380 | 4.878656 | 4.841769 | 4.837665 | 4.839173 | 4.724180 |
| #3 | 4.674408 | 4.838786 | 4.830934 | 4.830575 | 4.837237 | 4.761116 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.995455** |
| Stddev | .039094 |
| %RSD | .7825878 |
| #1 | 4.960464 |
| #2 | 5.037650 |
| #3 | 4.988252 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2012.260** | **50208.59** | **7694.098** | **2333.296** | **2713.954** |
| Stddev | 5.177 | 61.43 | 28.450 | 3.843 | 1.957 |
| %RSD | .2572781 | .1223558 | .3697670 | .1646966 | .0721165 |
| #1 | 2013.275 | 50200.74 | 7686.738 | 2330.061 | 2713.597 |
| #2 | 2006.651 | 50273.57 | 7670.051 | 2332.282 | 2712.200 |
| #3 | 2016.854 | 50151.46 | 7725.505 | 2337.544 | 2716.065 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB005 Acquired: 1/12/2025 9:36:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000561** | **.0006543** | **.0006830** | **.0009270** | **-.001715** | **.0084538** | **-.002348** |
| Stddev | .000467 | .0004316 | .0003808 | .0024757 | .000311 | .0147269 | .000865 |
| %RSD | 83.11335 | 65.95830 | 55.75661 | 267.0661 | 18.11272 | 174.2033 | 36.85072 |
| #1 | -.000207 | .0011523 | .0002572 | -.000602 | -.001804 | .0162088 | -.002987 |
| #2 | -.001090 | .0003895 | .0009911 | -.000400 | -.001370 | .0176827 | -.002694 |
| #3 | -.000387 | .0004211 | .0008005 | .003783 | -.001972 | -.008530 | -.001363 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000116** | **.0001182** | **.0261370** | **.0003484** | **-.000002** | **-.000695** | **.0266423** |
| Stddev | .0001000 | .0000359 | .0030063 | .0003938 | .000201 | .001586 | .0065677 |
| %RSD | 859.9751 | 30.38711 | 11.50222 | 113.0254 | 10600.34 | 228.2643 | 24.65148 |
| #1 | .0001216 | .0000971 | .0275437 | .0006304 | .000087 | -.001759 | .0210894 |
| #2 | -.000013 | .0001597 | .0226852 | -.000102 | -.000232 | .001128 | .0249456 |
| #3 | -.000074 | .0000979 | .0281821 | .000516 | .000139 | -.001453 | .0338919 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006562** | **.0135835** | **-.000126** | **.0004103** | **-.030469** | **-.001923** | **.0006937** |
| Stddev | .0004038 | .0181294 | .000399 | .0004256 | .060753 | .002170 | .0002829 |
| %RSD | 61.54271 | 133.4663 | 317.1586 | 103.7461 | 199.3923 | 112.8394 | 40.77616 |
| #1 | .0011054 | .0102334 | .000324 | .0006690 | -.096821 | -.004426 | .0004316 |
| #2 | .0003232 | .0331543 | -.000438 | -.000081 | .022432 | -.000563 | .0009935 |
| #3 | .0005401 | -.002637 | -.000263 | .000643 | -.017018 | -.000781 | .0006559 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2071601** | **-.000936** | **.0016036** | **.0003847** | **-.001543** | **.0110889** | **-.000193** |
| Stddev | .0147878 | .002252 | .0014418 | .0002454 | .002334 | .0088186 | .000617 |
| %RSD | 7.138337 | 240.4977 | 89.91014 | 63.78665 | 151.2084 | 79.52675 | 318.8617 |
| #1 | .2118262 | .000485 | .0032265 | .0004862 | -.001450 | .0009447 | -.000024 |
| #2 | .2190520 | .000238 | .0011138 | .0005631 | -.003922 | .0169290 | -.000878 |
| #3 | .1906021 | -.003532 | .0004705 | .0001049 | .000742 | .0153929 | .000321 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB005 Acquired: 1/12/2025 9:36:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB005 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.000038** | **.0002000** | **.0001673** |
| Stddev | .000491 | .0008103 | .0000235 |
| %RSD | 1306.465 | 405.1621 | 14.06665 |
| #1 | -.000514 | .0009634 | .0001678 |
| #2 | -.000066 | .0002869 | .0001435 |
| #3 | .000467 | -.000650 | .0001905 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2516.869** | **59479.52** | **7938.621** | **2770.052** | **3583.788** |
| Stddev | 3.753 | 375.73 | 24.028 | 21.477 | 7.948 |
| %RSD | .1491047 | .6316910 | .3026769 | .7753251 | .2217798 |
| #1 | 2515.449 | 59773.22 | 7941.511 | 2782.901 | 3574.879 |
| #2 | 2521.124 | 59056.13 | 7961.075 | 2745.258 | 3590.151 |
| #3 | 2514.033 | 59609.22 | 7913.279 | 2781.998 | 3586.333 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-05 Acquired: 1/12/2025 9:41:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1078922** | **-.000527** | **3.144226** | **.0339150** | **.0013058** | **61.27281** |
| Stddev | .0008663 | .003969 | .001271 | .0009700 | .0013712 | .12041 |
| %RSD | .8029073 | 753.2332 | .0404237 | 2.860154 | 105.0057 | .1965130 |
| #1 | .1079226 | -.001796 | 3.143272 | .0339337 | .0028117 | 61.35590 |
| #2 | .1070111 | -.003707 | 3.143738 | .0329357 | .0009765 | 61.32781 |
| #3 | .1087429 | .003921 | 3.145669 | .0348755 | .0001293 | 61.13473 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.458930** | **.0052163** | **.0188279** | **50.27793** | **.1589431** | **.0844800** |
| Stddev | .006039 | .0001190 | .0001287 | .11335 | .0004871 | .0004175 |
| %RSD | .4139112 | 2.280773 | .6836654 | .2254434 | .3064793 | .4942487 |
| #1 | 1.465274 | .0053535 | .0187531 | 50.39824 | .1592895 | .0840109 |
| #2 | 1.453251 | .0051549 | .0187540 | 50.26239 | .1591537 | .0846184 |
| #3 | 1.458266 | .0051407 | .0189765 | 50.17314 | .1583861 | .0848108 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5299156** | **142.9277** | **4.786946** | **17.19620** | **.2145786** | **-.012355** |
| Stddev | .0034897 | .2439 | .013272 | .04885 | .0005221 | .000829 |
| %RSD | .6585408 | .1706233 | .2772593 | .2840601 | .2433062 | 6.711366 |
| #1 | .5280352 | 143.1368 | 4.801021 | 17.25185 | .2148203 | -.011425 |
| #2 | .5277695 | 142.9866 | 4.774657 | 17.16040 | .2139795 | -.013015 |
| #3 | .5339423 | 142.6598 | 4.785162 | 17.17637 | .2149361 | -.012626 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5514885** | **.2138128** | **3.635867** | **9.315670** | **9.530117** | **.6145846** |
| Stddev | .1983180 | .0015054 | .003131 | .016683 | .012468 | .0016434 |
| %RSD | 35.96050 | .7040934 | .0861043 | .1790824 | .1308310 | .2673942 |
| #1 | .6912780 | .2128855 | 3.638736 | 9.329486 | 9.529240 | .6158633 |
| #2 | .6386740 | .2130031 | 3.636336 | 9.320388 | 9.518110 | .6151596 |
| #3 | .3245135 | .2155498 | 3.632528 | 9.297137 | 9.543001 | .6127310 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-05 Acquired: 1/12/2025 9:41:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0100156 | 4.392220 | F 14.74518 | .1488250 | .9014612 | .0875295 |
| Stddev | .0002114 | .014594 | .05966 | .0013456 | .0010734 | .0006145 |
| %RSD | 2.110668 | .3322756 | .4046369 | .9041603 | .1190712 | .7020194 |
| #1 | .0101473 | 4.376916 | 14.81193 | .1489086 | .9016866 | .0880510 |
| #2 | .0097717 | 4.393761 | 14.69703 | .1501269 | .9002930 | .0876854 |
| #3 | .0101277 | 4.405982 | 14.72659 | .1474395 | .9024040 | .0868521 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1898913 |
| Stddev | .0005451 |
| %RSD | .2870666 |
| #1 | .1902662 |
| #2 | .1901417 |
| #3 | .1892660 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2874.668 | 69390.09 | 9602.937 | 3179.574 | 3310.198 |
| Stddev | 3.010 | 118.33 | 1.154 | 3.958 | 3.208 |
| %RSD | .1047228 | .1705333 | .0120223 | .1244972 | .0969272 |
| #1 | 2877.370 | 69326.29 | 9604.000 | 3180.222 | 3313.747 |
| #2 | 2875.211 | 69317.34 | 9603.103 | 3183.169 | 3309.344 |
| #3 | 2871.423 | 69526.63 | 9601.709 | 3175.332 | 3307.502 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-06 Acquired: 1/12/2025 9:44:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1064055** | **-.000504** | **3.124103** | **.0402000** | **.0032809** | **52.89893** |
| Stddev | .0033601 | .002396 | .007295 | .0032038 | .0010505 | .31557 |
| %RSD | 3.157855 | 475.5337 | .2335095 | 7.969764 | 32.01724 | .5965494 |
| #1 | .1025256 | .002255 | 3.127780 | .0381160 | .0022750 | 52.58601 |
| #2 | .1083597 | -.002060 | 3.115701 | .0385947 | .0031970 | 53.21708 |
| #3 | .1083313 | -.001707 | 3.128829 | .0438891 | .0043709 | 52.89369 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.419679** | **.0042428** | **.0192058** | **47.02665** | **.1540379** | **.0694393** |
| Stddev | .005271 | .0002087 | .0001292 | .19864 | .0005897 | .0001574 |
| %RSD | .3712583 | 4.919005 | .6726500 | .4223894 | .3828391 | .2267039 |
| #1 | 1.415610 | .0042102 | .0192975 | 46.88948 | .1547154 | .0693208 |
| #2 | 1.425633 | .0040522 | .0190581 | 47.25444 | .1537589 | .0696179 |
| #3 | 1.417793 | .0044658 | .0192618 | 46.93603 | .1536394 | .0693793 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6008528** | **176.2553** | **4.583189** | **15.33011** | **.1936629** | **-.014163** |
| Stddev | .0015802 | 1.1754 | .012759 | .09470 | .0003213 | .000666 |
| %RSD | .2629870 | .6668637 | .2783874 | .6177270 | .1659094 | 4.704897 |
| #1 | .5990326 | 175.1611 | 4.576898 | 15.25941 | .1939838 | -.014785 |
| #2 | .6018719 | 177.4978 | 4.597871 | 15.43770 | .1933412 | -.014243 |
| #3 | .6016541 | 176.1071 | 4.574796 | 15.29321 | .1936638 | -.013460 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4195252** | **.1959486** | **3.738504** | **6.547191** | **8.799607** | **.7407606** |
| Stddev | .3227557 | .0016351 | .003492 | .059970 | .039540 | .0080288 |
| %RSD | 76.93358 | .8344297 | .0933989 | .9159655 | .4493389 | 1.083853 |
| #1 | .4259145 | .1950578 | 3.735747 | 6.481031 | 8.831298 | .7329117 |
| #2 | .7390388 | .1978357 | 3.742430 | 6.597977 | 8.755298 | .7489578 |
| #3 | .0936222 | .1949525 | 3.737336 | 6.562567 | 8.812225 | .7404122 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-06 Acquired: 1/12/2025 9:44:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0094734 | 3.303799 | F 14.66070 | .1738472 | .8266819 | .0711335 |
| Stddev | .0003948 | .005219 | .04856 | .0004902 | .0016369 | .0003664 |
| %RSD | 4.167242 | .1579652 | .3312422 | .2819613 | .1980068 | .5151516 |
| #1 | .0098292 | 3.299187 | 14.70020 | .1741089 | .8282530 | .0715560 |
| #2 | .0095423 | 3.302745 | 14.60648 | .1741511 | .8249863 | .0709035 |
| #3 | .0090487 | 3.309464 | 14.67541 | .1732818 | .8268064 | .0709409 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1719513 |
| Stddev | .0014568 |
| %RSD | .8471930 |
| #1 | .1704908 |
| #2 | .1734043 |
| #3 | .1719586 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2802.159 | 65764.95 | 9233.574 | 3070.471 | 3405.615 |
| Stddev | 10.063 | 150.62 | 51.885 | .355 | 13.736 |
| %RSD | .3591228 | .2290332 | .5619188 | .0115645 | .4033426 |
| #1 | 2794.517 | 65751.66 | 9177.814 | 3070.783 | 3395.987 |
| #2 | 2813.561 | 65621.41 | 9280.434 | 3070.546 | 3421.345 |
| #3 | 2798.398 | 65921.78 | 9242.473 | 3070.084 | 3399.514 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07 Acquired: 1/12/2025 9:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1228936** | **.0001050** | **6.637996** | **.0380718** | **-.000018** | **60.68898** |
| Stddev | .0022158 | .0014985 | .041070 | .0012237 | .000873 | .28459 |
| %RSD | 1.802991 | 1426.863 | .6187036 | 3.214280 | 4804.675 | .4689381 |
| #1 | .1254058 | .0006520 | 6.620127 | .0389804 | -.000571 | 60.95036 |
| #2 | .1212176 | .0012532 | 6.608888 | .0366803 | -.000471 | 60.38579 |
| #3 | .1220574 | -.001590 | 6.684973 | .0385546 | .000988 | 60.73079 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.503317** | **.0046221** | **.0199375** | **36.34821** | **.1519136** | **.0780980** |
| Stddev | .008346 | .0000876 | .0002050 | .09167 | .0012732 | .0007026 |
| %RSD | .5552032 | 1.895989 | 1.028382 | .2521930 | .8380886 | .8996329 |
| #1 | 1.512170 | .0045497 | .0199584 | 36.43339 | .1504656 | .0775824 |
| #2 | 1.495592 | .0047195 | .0197228 | 36.25120 | .1524172 | .0778133 |
| #3 | 1.502189 | .0045972 | .0201312 | 36.36002 | .1528578 | .0788983 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5583308** | **153.0915** | **5.571929** | **15.39215** | **.1873002** | **-.010950** |
| Stddev | .0003403 | .4893 | .016818 | .07602 | .0009562 | .000070 |
| %RSD | .0609502 | .3196018 | .3018324 | .4939169 | .5104990 | .6423790 |
| #1 | .5583294 | 153.5548 | 5.583121 | 15.46052 | .1874473 | -.010965 |
| #2 | .5586718 | 152.5798 | 5.552589 | 15.31028 | .1862790 | -.010873 |
| #3 | .5579912 | 153.1399 | 5.580077 | 15.40566 | .1881743 | -.011011 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4663771** | **.2003037** | **3.308819** | **7.440567** | **8.486351** | **.6479221** |
| Stddev | .1434746 | .0014363 | .005329 | .052947 | .057070 | .0033817 |
| %RSD | 30.76364 | .7170596 | .1610603 | .7116056 | .6724866 | .5219337 |
| #1 | .4385023 | .2001673 | 3.312174 | 7.482200 | 8.484145 | .6512106 |
| #2 | .6217436 | .2018034 | 3.302674 | 7.380976 | 8.430416 | .6444543 |
| #3 | .3388853 | .1989405 | 3.311609 | 7.458525 | 8.544491 | .6481016 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07 Acquired: 1/12/2025 9:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0082062 | 2.770287 | F 14.25248 | .1707618 | .8597753 | .0823427 |
| Stddev | .0004605 | .016925 | .10553 | .0009355 | .0027175 | .0002207 |
| %RSD | 5.611429 | .6109577 | .7404104 | .5478574 | .3160683 | .2680765 |
| #1 | .0083870 | 2.759442 | 14.13148 | .1696837 | .8566698 | .0824640 |
| #2 | .0076828 | 2.761630 | 14.30058 | .1713597 | .8617175 | .0824762 |
| #3 | .0085489 | 2.789790 | 14.32540 | .1712421 | .8609385 | .0820879 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1671526 |
| Stddev | .0011145 |
| %RSD | .6667701 |
| #1 | .1682228 |
| #2 | .1659985 |
| #3 | .1672364 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2823.030 | 67135.44 | 9601.874 | 3175.588 | 3318.847 |
| Stddev | 7.070 | 231.06 | 102.757 | 6.051 | 16.568 |
| %RSD | .2504514 | .3441660 | 1.070174 | .1905365 | .4991989 |
| #1 | 2824.221 | 67352.65 | 9720.481 | 3169.413 | 3328.757 |
| #2 | 2829.429 | 67161.01 | 9539.710 | 3175.845 | 3328.063 |
| #3 | 2815.440 | 66892.66 | 9545.430 | 3181.506 | 3299.721 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-08 Acquired: 1/12/2025 9:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1180950** | **-.000467** | **6.443665** | **.0342831** | **-.000211** | **59.89709** |
| Stddev | .0010063 | .002123 | .009525 | .0023179 | .002761 | .36850 |
| %RSD | .8521101 | 455.1100 | .1478119 | 6.760908 | 1310.936 | .6152148 |
| #1 | .1192153 | -.002552 | 6.437283 | .0335604 | .001702 | 59.49342 |
| #2 | .1172676 | .001692 | 6.454612 | .0368762 | .001042 | 59.98239 |
| #3 | .1178022 | -.000540 | 6.439098 | .0324127 | -.003376 | 60.21545 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.477807** | **.0046363** | **.0193010** | **35.88248** | **.1497622** | **.0760826** |
| Stddev | .007196 | .0000317 | .0000892 | .17004 | .0002249 | .0002819 |
| %RSD | .4869109 | .6843492 | .4619999 | .4738913 | .1501647 | .3704958 |
| #1 | 1.469502 | .0046308 | .0193196 | 35.68759 | .1497413 | .0758378 |
| #2 | 1.481762 | .0046704 | .0193794 | 35.95930 | .1499968 | .0760192 |
| #3 | 1.482158 | .0046076 | .0192040 | 36.00057 | .1495485 | .0763908 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5520821** | **151.1698** | **5.464185** | **15.12973** | **.1817090** | **-.010773** |
| Stddev | .0014035 | 1.0003 | .025826 | .05882 | .0006422 | .000187 |
| %RSD | .2542248 | .6616886 | .4726486 | .3887826 | .3534054 | 1.739516 |
| #1 | .5504615 | 150.0842 | 5.434762 | 15.06182 | .1812242 | -.010810 |
| #2 | .5529053 | 151.3711 | 5.474691 | 15.16486 | .1814656 | -.010939 |
| #3 | .5528795 | 152.0541 | 5.483103 | 15.16250 | .1824373 | -.010569 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5386651** | **.1984908** | **3.283502** | **7.310928** | **8.100015** | **.6390123** |
| Stddev | .2542901 | .0009298 | .001248 | .093221 | .008929 | .0039334 |
| %RSD | 47.20745 | .4684285 | .0380205 | 1.275090 | .1102287 | .6155443 |
| #1 | .5714217 | .1990226 | 3.282113 | 7.206119 | 8.107564 | .6346224 |
| #2 | .2695840 | .1990326 | 3.283859 | 7.384582 | 8.102322 | .6401981 |
| #3 | .7749896 | .1974172 | 3.284532 | 7.342081 | 8.090160 | .6422164 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-08 Acquired: 1/12/2025 9:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0082612 | 2.629925 | F 13.97453 | .1647383 | .8462674 | .0795678 |
| Stddev | .0002329 | .004128 | .02369 | .0008900 | .0019303 | .0010565 |
| %RSD | 2.819035 | .1569507 | .1695395 | .5402293 | .2280927 | 1.327814 |
| #1 | .0082638 | 2.625572 | 13.94801 | .1653377 | .8441077 | .0787387 |
| #2 | .0080271 | 2.633782 | 13.99361 | .1637157 | .8468702 | .0792075 |
| #3 | .0084928 | 2.630421 | 13.98196 | .1651615 | .8478244 | .0807574 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1669707 |
| Stddev | .0011203 |
| %RSD | .6709712 |
| #1 | .1657978 |
| #2 | .1670845 |
| #3 | .1680298 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2892.500 | 67328.07 | 9605.141 | 3182.515 | 3427.969 |
| Stddev | 2.738 | 98.26 | 37.259 | 5.271 | 3.342 |
| %RSD | .0946449 | .1459382 | .3879079 | .1656255 | .0975015 |
| #1 | 2895.547 | 67409.14 | 9563.774 | 3180.040 | 3424.616 |
| #2 | 2891.704 | 67356.27 | 9615.584 | 3178.936 | 3431.301 |
| #3 | 2890.248 | 67218.79 | 9636.064 | 3188.568 | 3427.991 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07LX5 Acquired: 1/12/2025 9:56:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0238064 | .0004161 | 1.323620 | .0083241 | .0014610 | 13.14498 | .3170880 |
| Stddev | .0012986 | .0007690 | .008065 | .0012511 | .0017607 | .02993 | .0026212 |
| %RSD | 5.454997 | 184.8231 | .6093490 | 15.02967 | 120.5166 | .2276697 | .8266484 |
| #1 | .0242496 | -.000310 | 1.314319 | .0069657 | .0034941 | 13.16639 | .3173022 |
| #2 | .0248254 | .000336 | 1.328681 | .0094290 | .0004477 | 13.11078 | .3143663 |
| #3 | .0223442 | .001222 | 1.327860 | .0085776 | .0004412 | 13.15776 | .3195956 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0011406 | .0036655 | 7.988625 | .0333043 | .0150818 | .1257584 | 33.80461 |
| Stddev | .0000358 | .0000522 | .025983 | .0000700 | .0001989 | .0019956 | .06303 |
| %RSD | 3.134364 | 1.423578 | .3252556 | .2102991 | 1.319036 | 1.586851 | .1864631 |
| #1 | .0011059 | .0036784 | 7.983997 | .0332901 | .0148710 | .1280164 | 33.78531 |
| #2 | .0011773 | .0037100 | 7.965266 | .0333804 | .0151080 | .1242312 | 33.75348 |
| #3 | .0011387 | .0036081 | 8.016611 | .0332425 | .0152663 | .1250276 | 33.87504 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.224208 | 3.365750 | .0362060 | -.002434 | .1618173 | .0438024 | .7551463 |
| Stddev | .001760 | .006328 | .0003963 | .000161 | .2707871 | .0039493 | .0026436 |
| %RSD | .1437879 | .1880094 | 1.094526 | 6.601111 | 167.3413 | 9.016087 | .3500807 |
| #1 | 1.225981 | 3.360471 | .0357594 | -.002262 | -.055106 | .0463846 | .7578149 |
| #2 | 1.224183 | 3.372765 | .0363426 | -.002581 | .075256 | .0392562 | .7550959 |
| #3 | 1.222461 | 3.364016 | .0365158 | -.002458 | .465302 | .0457665 | .7525283 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.764935 | 1.618993 | .1403198 | .0018930 | .5173568 | 3.173908 | .0320682 |
| Stddev | .040496 | .008906 | .0003466 | .0004245 | .0035516 | .007107 | .0006603 |
| %RSD | 2.294461 | .5501078 | .2469786 | 22.42644 | .6864907 | .2239052 | 2.059003 |
| #1 | 1.770790 | 1.609989 | .1399638 | .0015225 | .5135658 | 3.179194 | .0319503 |
| #2 | 1.721831 | 1.627798 | .1406561 | .0018002 | .5206070 | 3.165829 | .0327795 |
| #3 | 1.802185 | 1.619191 | .1403393 | .0023562 | .5178976 | 3.176701 | .0314748 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07LX5 Acquired: 1/12/2025 9:56:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1910214 | .0174516 | .0368480 |
| Stddev | .0011877 | .0006244 | .0001682 |
| %RSD | .6217854 | 3.578065 | .4564418 |
| #1 | .1910201 | .0167482 | .0368864 |
| #2 | .1922098 | .0176661 | .0366639 |
| #3 | .1898343 | .0179405 | .0369936 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2610.237 | 60103.12 | 8410.628 | 2865.282 | 3532.718 |
| Stddev | 17.064 | 197.58 | 67.496 | 15.705 | 21.475 |
| %RSD | .6537163 | .3287408 | .8025122 | .5481306 | .6078983 |
| #1 | 2624.172 | 59887.24 | 8352.137 | 2852.143 | 3552.299 |
| #2 | 2591.206 | 60147.15 | 8395.267 | 2861.026 | 3509.751 |
| #3 | 2615.333 | 60274.98 | 8484.481 | 2882.677 | 3536.105 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-09 Acquired: 1/12/2025 10:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1810301** | **.0993652** | **6.474095** | **.1806235** | **.1459430** | **62.77091** |
| Stddev | .0030855 | .0024398 | .004454 | .0039600 | .0009022 | .11945 |
| %RSD | 1.704427 | 2.455378 | .0687937 | 2.192386 | .6181516 | .1902993 |
| #1 | .1819943 | .1021705 | 6.470182 | .1845956 | .1461968 | 62.90088 |
| #2 | .1775777 | .0977385 | 6.478942 | .1805990 | .1449412 | 62.74590 |
| #3 | .1835185 | .0981866 | 6.473161 | .1766758 | .1466911 | 62.66594 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.697438** | **.0903521** | **.1156782** | **35.87327** | **.5197549** | **1.046567** |
| Stddev | .060829 | .0007808 | .0002792 | .16643 | .0003449 | .001325 |
| %RSD | 1.294947 | .8641902 | .2413365 | .4639418 | .0663628 | .1265850 |
| #1 | 4.767266 | .0903182 | .1156475 | 36.05963 | .5196734 | 1.045136 |
| #2 | 4.655945 | .0895888 | .1159714 | 35.82073 | .5194580 | 1.047751 |
| #3 | 4.669104 | .0911493 | .1154156 | 35.73945 | .5201333 | 1.046814 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9643542** | **152.6060** | **6.299122** | **15.14014** | **1.156088** | **.0535908** |
| Stddev | .0069640 | .3931 | .034800 | .02297 | .001435 | .0006066 |
| %RSD | .7221430 | .2575835 | .5524627 | .1517300 | .1241178 | 1.131974 |
| #1 | .9662633 | 153.0567 | 6.339305 | 15.12553 | 1.155038 | .0531970 |
| #2 | .9566348 | 152.4276 | 6.278944 | 15.12827 | 1.157723 | .0532861 |
| #3 | .9701646 | 152.3338 | 6.279115 | 15.16662 | 1.155502 | .0542894 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4453490** | **1.063768** | **4.168007** | **7.330297** | **8.157977** | **.6478323** |
| Stddev | .0192081 | .008955 | .008636 | .038585 | .013841 | .0025973 |
| %RSD | 4.313052 | .8417952 | .2071988 | .5263830 | .1696580 | .4009195 |
| #1 | .4327575 | 1.064323 | 4.168006 | 7.332347 | 8.146284 | .6506607 |
| #2 | .4358320 | 1.054550 | 4.159371 | 7.290728 | 8.173258 | .6472820 |
| #3 | .4674575 | 1.072433 | 4.176643 | 7.367817 | 8.154390 | .6455544 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-09 Acquired: 1/12/2025 10:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0078316 | 2.652685 | F 13.99205 | .1648143 | .8445050 | .0804775 |
| Stddev | .0003766 | .001008 | .15628 | .0005865 | .0076771 | .0010197 |
| %RSD | 4.808364 | .0380071 | 1.116889 | .3558552 | .9090639 | 1.267075 |
| #1 | .0077684 | 2.651713 | 14.03770 | .1650392 | .8490308 | .0794290 |
| #2 | .0082358 | 2.653726 | 13.81803 | .1652551 | .8356409 | .0805379 |
| #3 | .0074906 | 2.652615 | 14.12041 | .1641487 | .8488433 | .0814657 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1649962 |
| Stddev | .0002065 |
| %RSD | .1251686 |
| #1 | .1652136 |
| #2 | .1649724 |
| #3 | .1648026 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2866.825 | 67226.06 | 9658.428 | 3185.042 | 3390.322 |
| Stddev | 6.879 | 64.52 | 90.898 | 8.479 | 7.226 |
| %RSD | .2399533 | .0959698 | .9411221 | .2662280 | .2131292 |
| #1 | 2868.007 | 67280.16 | 9676.102 | 3192.945 | 3393.961 |
| #2 | 2859.432 | 67154.65 | 9739.190 | 3186.095 | 3382.000 |
| #3 | 2873.037 | 67243.36 | 9559.991 | 3176.085 | 3395.004 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-10 Acquired: 1/12/2025 10:04:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0883065** | **-.000342** | **1.927181** | **.0307273** | **-.001803** | **57.32016** |
| Stddev | .0018614 | .001700 | .009712 | .0033765 | .001464 | .15494 |
| %RSD | 2.107906 | 497.5422 | .5039676 | 10.98857 | 81.20835 | .2702998 |
| #1 | .0884928 | -.000224 | 1.919550 | .0297116 | -.003493 | 57.29330 |
| #2 | .0900678 | .001296 | 1.923879 | .0344951 | -.000919 | 57.18041 |
| #3 | .0863590 | -.002097 | 1.938114 | .0279753 | -.000997 | 57.48677 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.071444** | **.0041190** | **.0150220** | **38.52075** | **.1219444** | **.0746359** |
| Stddev | .002244 | .0000786 | .0000649 | .16466 | .0007770 | .0003622 |
| %RSD | .2093967 | 1.907437 | .4321217 | .4274575 | .6371746 | .4852397 |
| #1 | 1.071920 | .0041488 | .0150871 | 38.57501 | .1226440 | .0744311 |
| #2 | 1.069000 | .0040298 | .0149573 | 38.33580 | .1220811 | .0750540 |
| #3 | 1.073411 | .0041782 | .0150216 | 38.65143 | .1211081 | .0744225 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3655607** | **129.6060** | **5.544762** | **15.21294** | **.1504544** | **-.008770** |
| Stddev | .0016726 | .3500 | .009423 | .05409 | .0006577 | .000467 |
| %RSD | .4575407 | .2700363 | .1699487 | .3555405 | .4371703 | 5.323422 |
| #1 | .3642060 | 129.6071 | 5.544524 | 15.20909 | .1498442 | -.008747 |
| #2 | .3650459 | 129.2554 | 5.535460 | 15.16088 | .1503679 | -.008315 |
| #3 | .3674302 | 129.9554 | 5.554302 | 15.26885 | .1511511 | -.009248 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4049080** | **.1522255** | **1.883382** | **7.830561** | **6.873986** | **.5520362** |
| Stddev | .0518899 | .0003249 | .007666 | .039445 | .012923 | .0019360 |
| %RSD | 12.81524 | .2134563 | .4070374 | .5037310 | .1879992 | .3506935 |
| #1 | .4215673 | .1523827 | 1.889276 | 7.845890 | 6.882260 | .5510523 |
| #2 | .3467344 | .1518519 | 1.886154 | 7.785752 | 6.859094 | .5507898 |
| #3 | .4464223 | .1524419 | 1.874715 | 7.860040 | 6.880603 | .5542665 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-10 Acquired: 1/12/2025 10:04:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071035 | 2.237787 | F 13.80031 | .1692186 | .8265828 | .0691464 |
| Stddev | .0002385 | .013793 | .00335 | .0006362 | .0010062 | .0002856 |
| %RSD | 3.356888 | .6163874 | .0242666 | .3759728 | .1217251 | .4129926 |
| #1 | .0069340 | 2.249434 | 13.80348 | .1697108 | .8260147 | .0694745 |
| #2 | .0073761 | 2.222555 | 13.80066 | .1685002 | .8277445 | .0690108 |
| #3 | .0070003 | 2.241371 | 13.79681 | .1694448 | .8259892 | .0689539 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1431060 |
| Stddev | .0003835 |
| %RSD | .2679995 |
| #1 | .1428399 |
| #2 | .1429326 |
| #3 | .1435456 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2864.175 | 66614.70 | 9630.782 | 3160.412 | 3398.978 |
| Stddev | 5.311 | 275.72 | 24.678 | 11.817 | 10.192 |
| %RSD | .1854221 | .4139100 | .2562401 | .3739081 | .2998451 |
| #1 | 2868.315 | 66452.08 | 9606.719 | 3146.946 | 3402.574 |
| #2 | 2866.021 | 66933.06 | 9656.032 | 3165.241 | 3406.884 |
| #3 | 2858.187 | 66458.97 | 9629.595 | 3169.050 | 3387.476 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-11 Acquired: 1/12/2025 10:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0652100** | **-.002140** | **.9348173** | **.0294708** | **-.001836** | **57.45294** |
| Stddev | .0001862 | .000372 | .0017409 | .0011994 | .002187 | .06996 |
| %RSD | .2855267 | 17.35996 | .1862246 | 4.069613 | 119.1298 | .1217628 |
| #1 | .0649950 | -.002429 | .9365412 | .0289288 | .000489 | 57.38430 |
| #2 | .0653186 | -.001721 | .9330599 | .0286382 | -.003852 | 57.45038 |
| #3 | .0653164 | -.002270 | .9348509 | .0308455 | -.002144 | 57.52414 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7204968** | **.0038987** | **.0088061** | **22.54629** | **.1066596** | **.0665828** |
| Stddev | .0010651 | .0000133 | .0000487 | .00582 | .0007637 | .0002666 |
| %RSD | .1478282 | .3412410 | .5529584 | .0258194 | .7160101 | .4003766 |
| #1 | .7208494 | .0039099 | .0088180 | 22.54522 | .1075357 | .0667029 |
| #2 | .7213408 | .0038840 | .0087525 | 22.55258 | .1061347 | .0662773 |
| #3 | .7193001 | .0039022 | .0088477 | 22.54108 | .1063084 | .0667683 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2218291** | **131.8715** | **5.131508** | **16.95646** | **.1253722** | **-.010522** |
| Stddev | .0014054 | .1149 | .016738 | .03168 | .0005203 | .000267 |
| %RSD | .6335311 | .0871027 | .3261862 | .1868056 | .4149847 | 2.539959 |
| #1 | .2230563 | 131.7429 | 5.127070 | 16.99064 | .1258888 | -.010800 |
| #2 | .2202960 | 131.9075 | 5.150018 | 16.95064 | .1248484 | -.010267 |
| #3 | .2221351 | 131.9640 | 5.117436 | 16.92809 | .1253793 | -.010499 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3617166** | **.1399822** | **1.103801** | **5.533727** | **5.145024** | **.5502706** |
| Stddev | .2623064 | .0011595 | .001456 | .006391 | .018571 | .0013294 |
| %RSD | 72.51710 | .8282955 | .1318707 | .1154849 | .3609592 | .2415807 |
| #1 | .0826337 | .1403615 | 1.105359 | 5.540808 | 5.146786 | .5489809 |
| #2 | .3993307 | .1409045 | 1.102476 | 5.531983 | 5.125634 | .5516363 |
| #3 | .6031855 | .1386806 | 1.103567 | 5.528389 | 5.162651 | .5501946 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-11 Acquired: 1/12/2025 10:08:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0054164 | 1.192556 | F 13.62041 | .0708837 | .7452394 | .0636990 |
| Stddev | .0002788 | .002225 | .05075 | .0012923 | .0010519 | .0006172 |
| %RSD | 5.148250 | .1865869 | .3726057 | 1.823149 | .1411444 | .9689950 |
| #1 | .0056576 | 1.194744 | 13.56246 | .0708553 | .7442576 | .0638200 |
| #2 | .0054807 | 1.190296 | 13.64183 | .0696057 | .7463495 | .0642467 |
| #3 | .0051111 | 1.192628 | 13.65693 | .0721899 | .7451112 | .0630302 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0953793 |
| Stddev | .0000739 |
| %RSD | .0774317 |
| #1 | .0953626 |
| #2 | .0953152 |
| #3 | .0954601 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3007.663 | 70507.56 | 10035.28 | 3329.143 | 3460.387 |
| Stddev | 7.592 | 64.30 | 14.75 | 4.274 | 6.919 |
| %RSD | .2524312 | .0911919 | .1469654 | .1283945 | .1999583 |
| #1 | 3010.066 | 70560.67 | 10038.09 | 3329.687 | 3457.831 |
| #2 | 3013.764 | 70525.94 | 10048.42 | 3324.622 | 3468.221 |
| #3 | 2999.160 | 70436.08 | 10019.33 | 3333.119 | 3455.109 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-12 Acquired: 1/12/2025 10:12:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0510607** | **-.005940** | **.1384324** | **.0357234** | **.0041507** | **86.12012** |
| Stddev | .0005267 | .000432 | .0005748 | .0018881 | .0012165 | .21015 |
| %RSD | 1.031489 | 7.276575 | .4152047 | 5.285277 | 29.30892 | .2440219 |
| #1 | .0516542 | -.005863 | .1384126 | .0355929 | .0047328 | 85.87796 |
| #2 | .0506488 | -.005552 | .1390168 | .0376734 | .0049668 | 86.25477 |
| #3 | .0508791 | -.006406 | .1378678 | .0339040 | .0027525 | 86.22762 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8758273** | **.0041525** | **.0080159** | **17.02281** | **.1473464** | **.1010318** |
| Stddev | .0031679 | .0000407 | .0000672 | .01594 | .0004088 | .0006191 |
| %RSD | .3617052 | .9805486 | .8378635 | .0936682 | .2774393 | .6127498 |
| #1 | .8737766 | .0041371 | .0079427 | 17.00653 | .1477921 | .1004290 |
| #2 | .8742294 | .0041217 | .0080306 | 17.03840 | .1472582 | .1010004 |
| #3 | .8794760 | .0041987 | .0080746 | 17.02350 | .1469889 | .1016660 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1775620** | **199.0737** | **9.467278** | **38.37029** | **.1821694** | **-.017674** |
| Stddev | .0006950 | .1952 | .020190 | .03336 | .0010936 | .000389 |
| %RSD | .3913982 | .0980497 | .2132656 | .0869425 | .6003353 | 2.200833 |
| #1 | .1767616 | 198.8516 | 9.461011 | 38.34708 | .1810712 | -.017623 |
| #2 | .1779120 | 199.1519 | 9.450964 | 38.35527 | .1821786 | -.017313 |
| #3 | .1780124 | 199.2177 | 9.489859 | 38.40852 | .1832584 | -.018086 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5616840** | **.2325275** | **.6209989** | **28.20171** | **4.321632** | **.8182132** |
| Stddev | .0828323 | .0016390 | .0010128 | .06574 | .031566 | .0012752 |
| %RSD | 14.74713 | .7048663 | .1630926 | .2330976 | .7304238 | .1558533 |
| #1 | .5311603 | .2316059 | .6214634 | 28.12597 | 4.304392 | .8183396 |
| #2 | .4984448 | .2344198 | .6216962 | 28.24388 | 4.302440 | .8194205 |
| #3 | .6554469 | .2315567 | .6198372 | 28.23529 | 4.358064 | .8168795 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-12 Acquired: 1/12/2025 10:12:32 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0023643 | .6887896 | F 14.94134 | .0370548 | 7.842416 | .1123136 |
| Stddev | .0002980 | .0102757 | .04283 | .0010822 | .014139 | .0007420 |
| %RSD | 12.60435 | 1.491853 | .2866756 | 2.920479 | .1802869 | .6606138 |
| #1 | .0027066 | .6896760 | 14.95545 | .0363588 | 7.840132 | .1117596 |
| #2 | .0021626 | .6780994 | 14.89324 | .0383016 | 7.829558 | .1120248 |
| #3 | .0022237 | .6985934 | 14.97535 | .0365040 | 7.857557 | .1131566 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0604024 |
| Stddev | .0001357 |
| %RSD | .2246115 |
| #1 | .0602951 |
| #2 | .0605549 |
| #3 | .0603572 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3341.183 | 78749.87 | 11271.36 | 3734.771 | 3212.140 |
| Stddev | 13.014 | 176.12 | 31.28 | 3.709 | 15.778 |
| %RSD | .3894880 | .2236469 | .2775510 | .0992995 | .4911903 |
| #1 | 3347.981 | 78624.78 | 11238.00 | 3738.264 | 3219.649 |
| #2 | 3349.391 | 78673.55 | 11276.04 | 3735.170 | 3222.760 |
| #3 | 3326.179 | 78951.28 | 11300.04 | 3730.879 | 3194.010 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-13 Acquired: 1/12/2025 10:16:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0453332** | **-.006902** | **.1994777** | **.0276869** | **-.004379** | **63.54127** |
| Stddev | .0009914 | .000728 | .0014516 | .0014760 | .001117 | .21111 |
| %RSD | 2.186816 | 10.54239 | .7277069 | 5.331196 | 25.50014 | .3322342 |
| #1 | .0456049 | -.007619 | .1999079 | .0260067 | -.005663 | 63.41741 |
| #2 | .0461603 | -.006923 | .1978597 | .0282796 | -.003840 | 63.78503 |
| #3 | .0442343 | -.006165 | .2006656 | .0287745 | -.003634 | 63.42138 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7897110** | **.0045871** | **.0090970** | **27.31437** | **.1287538** | **.0904412** |
| Stddev | .0023508 | .0001360 | .0002057 | .07684 | .0005321 | .0007192 |
| %RSD | .2976747 | 2.964558 | 2.261584 | .2813034 | .4132902 | .7952155 |
| #1 | .7891032 | .0047227 | .0092783 | 27.27629 | .1291616 | .0912241 |
| #2 | .7923059 | .0045879 | .0088734 | 27.40281 | .1289479 | .0898098 |
| #3 | .7877237 | .0044507 | .0091393 | 27.26402 | .1281519 | .0902897 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1767685** | **159.5666** | **7.542789** | **23.74081** | **.1993766** | **-.014149** |
| Stddev | .0009137 | .5611 | .016012 | .06588 | .0006085 | .000400 |
| %RSD | .5169099 | .3516305 | .2122797 | .2774764 | .3052029 | 2.829708 |
| #1 | .1771674 | 159.1181 | 7.551988 | 23.71616 | .2000204 | -.014478 |
| #2 | .1774150 | 160.1958 | 7.552080 | 23.81546 | .1988109 | -.014265 |
| #3 | .1757232 | 159.3859 | 7.524301 | 23.69082 | .1992984 | -.013703 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6005316** | **.1459206** | **.4781206** | **8.598947** | **9.456821** | **.6674381** |
| Stddev | .1918523 | .0016497 | .0016294 | .064560 | .063698 | .0032703 |
| %RSD | 31.94707 | 1.130539 | .3407900 | .7507885 | .6735707 | .4899731 |
| #1 | .5081469 | .1442543 | .4793156 | 8.551906 | 9.511586 | .6644801 |
| #2 | .4723505 | .1475531 | .4787817 | 8.672550 | 9.386917 | .6709499 |
| #3 | .8210973 | .1459544 | .4762646 | 8.572383 | 9.471960 | .6668843 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-13 Acquired: 1/12/2025 10:16:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0020744 | .7368586 | F 15.41526 | .0137742 | 1.214128 | .1054614 |
| Stddev | .0001212 | .0054439 | .10506 | .0008426 | .004066 | .0008323 |
| %RSD | 5.840487 | .7387911 | .6815083 | 6.117538 | .3349079 | .7892311 |
| #1 | .0021826 | .7430003 | 15.53593 | .0147024 | 1.218762 | .1049765 |
| #2 | .0020970 | .7326278 | 15.34418 | .0130572 | 1.211156 | .1064225 |
| #3 | .0019435 | .7349478 | 15.36566 | .0135630 | 1.212465 | .1049852 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0949446 |
| Stddev | .0003604 |
| %RSD | .3796138 |
| #1 | .0946301 |
| #2 | .0953379 |
| #3 | .0948657 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3683.883 | 86251.47 | 12058.04 | 4019.436 | 3359.510 |
| Stddev | 6.553 | 435.42 | 102.90 | 9.761 | 9.975 |
| %RSD | .1778765 | .5048236 | .8533538 | .2428447 | .2969227 |
| #1 | 3676.790 | 85819.95 | 11940.09 | 4009.924 | 3350.890 |
| #2 | 3689.712 | 86243.76 | 12104.57 | 4018.958 | 3370.436 |
| #3 | 3685.148 | 86690.69 | 12129.45 | 4029.428 | 3357.203 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-14 Acquired: 1/12/2025 10:20:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0861509** | **-.001568** | **2.285662** | **.0291030** | **.0005469** | **54.28896** |
| Stddev | .0014173 | .002650 | .000455 | .0004680 | .0014231 | .25015 |
| %RSD | 1.645197 | 169.0630 | .0199134 | 1.608083 | 260.1907 | .4607744 |
| #1 | .0846177 | .001322 | 2.286164 | .0285828 | -.001000 | 54.00037 |
| #2 | .0864216 | -.002141 | 2.285546 | .0294898 | .000840 | 54.44397 |
| #3 | .0874133 | -.003884 | 2.285277 | .0292365 | .001800 | 54.42253 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.035244** | **.0041934** | **.0091612** | **28.47889** | **.1526296** | **.0703576** |
| Stddev | .003016 | .0001144 | .0000492 | .11922 | .0011522 | .0004684 |
| %RSD | .2913702 | 2.726894 | .5373169 | .4186381 | .7548670 | .6657334 |
| #1 | 1.032906 | .0043135 | .0091645 | 28.34123 | .1519501 | .0702302 |
| #2 | 1.038648 | .0041806 | .0092087 | 28.54929 | .1519788 | .0699662 |
| #3 | 1.034177 | .0040859 | .0091104 | 28.54614 | .1539599 | .0708766 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4029246** | **125.2023** | **4.855322** | **12.86775** | **.1386298** | **-.009527** |
| Stddev | .0029060 | .7036 | .019389 | .08103 | .0011930 | .000325 |
| %RSD | .7212377 | .5619670 | .3993390 | .6297476 | .8605755 | 3.406195 |
| #1 | .3996301 | 124.3918 | 4.832961 | 12.79729 | .1372798 | -.009894 |
| #2 | .4040198 | 125.5590 | 4.867462 | 12.84967 | .1390674 | -.009277 |
| #3 | .4051239 | 125.6561 | 4.865544 | 12.95630 | .1395422 | -.009410 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3608392** | **.1488538** | **1.663582** | **8.498271** | **7.609637** | **.5239440** |
| Stddev | .1486904 | .0011188 | .006722 | .061996 | .011085 | .0040396 |
| %RSD | 41.20684 | .7515977 | .4040670 | .7295083 | .1456751 | .7710068 |
| #1 | .2513090 | .1490679 | 1.661236 | 8.429875 | 7.613729 | .5192810 |
| #2 | .5301084 | .1498500 | 1.658346 | 8.550771 | 7.618094 | .5261703 |
| #3 | .3011001 | .1476434 | 1.671162 | 8.514169 | 7.597087 | .5263807 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-14 Acquired: 1/12/2025 10:20:26 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0083338 | 3.364880 | F 15.06136 | .0958511 | .6738394 | .0539224 |
| Stddev | .0001232 | .009834 | .04017 | .0011778 | .0017482 | .0016529 |
| %RSD | 1.477843 | .2922575 | .2666992 | 1.228730 | .2594418 | 3.065282 |
| #1 | .0083521 | 3.363825 | 15.09985 | .0952502 | .6726297 | .0541492 |
| #2 | .0084467 | 3.375199 | 15.06452 | .0950949 | .6758438 | .0521679 |
| #3 | .0082025 | 3.355616 | 15.01970 | .0972081 | .6730447 | .0554502 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0968650 |
| Stddev | .0007066 |
| %RSD | .7294742 |
| #1 | .0960499 |
| #2 | .0972395 |
| #3 | .0973054 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2834.943 | 69783.06 | 9321.879 | 3239.139 | 3407.401 |
| Stddev | 4.825 | 260.52 | 33.979 | 7.255 | 5.867 |
| %RSD | .1702133 | .3733310 | .3645077 | .2239803 | .1721963 |
| #1 | 2839.511 | 69950.30 | 9290.553 | 3242.379 | 3413.368 |
| #2 | 2829.896 | 69915.99 | 9358.001 | 3244.210 | 3407.199 |
| #3 | 2835.421 | 69482.89 | 9317.083 | 3230.829 | 3401.638 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-15 Acquired: 1/12/2025 10:24:22 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0930236** | **-.001369** | **5.283892** | **.0302658** | **.0002608** | **62.63182** |
| Stddev | .0004601 | .001011 | .006509 | .0017486 | .0017820 | .17386 |
| %RSD | .4946446 | 73.81427 | .1231829 | 5.777410 | 683.4175 | .2775893 |
| #1 | .0931473 | -.001221 | 5.289435 | .0283177 | .0014252 | 62.80977 |
| #2 | .0925143 | -.002445 | 5.276725 | .0307804 | -.001791 | 62.62334 |
| #3 | .0934092 | -.000441 | 5.285517 | .0316994 | .001148 | 62.46236 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.337489** | **.0046197** | **.0106528** | **36.93581** | **.1585026** | **.0769172** |
| Stddev | .011265 | .0000581 | .0001034 | .12983 | .0009038 | .0002657 |
| %RSD | .4819407 | 1.257548 | .9704011 | .3515014 | .5701881 | .3454043 |
| #1 | 2.350382 | .0045527 | .0106506 | 37.03731 | .1574725 | .0771127 |
| #2 | 2.332536 | .0046534 | .0105506 | 36.98061 | .1591627 | .0770241 |
| #3 | 2.329548 | .0046532 | .0107573 | 36.78951 | .1588725 | .0766147 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4134178** | **146.6073** | **5.799491** | **17.47605** | **.1594090** | **-.010489** |
| Stddev | .0034411 | .4316 | .017455 | .03143 | .0002041 | .000025 |
| %RSD | .8323582 | .2944198 | .3009696 | .1798438 | .1280161 | .2369227 |
| #1 | .4156188 | 146.9321 | 5.816804 | 17.45277 | .1596182 | -.010501 |
| #2 | .4094523 | 146.7723 | 5.799772 | 17.51180 | .1593984 | -.010461 |
| #3 | .4151822 | 146.1175 | 5.781898 | 17.46359 | .1592105 | -.010507 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3226487** | **.1673854** | **2.237585** | **8.329525** | **8.030625** | **.6222300** |
| Stddev | .1440921 | .0010880 | .006215 | .103281 | .020549 | .0017265 |
| %RSD | 44.65913 | .6500183 | .2777363 | 1.239934 | .2558878 | .2774693 |
| #1 | .4711099 | .1686417 | 2.244740 | 8.346278 | 8.053991 | .6233269 |
| #2 | .3134719 | .1667456 | 2.234480 | 8.423405 | 8.015367 | .6231233 |
| #3 | .1833644 | .1667690 | 2.233534 | 8.218892 | 8.022516 | .6202399 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-15 Acquired: 1/12/2025 10:24:22 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0059276 | 3.087821 | F 14.95568 | .0794660 | .7455505 | .0624977 |
| Stddev | .0002639 | .010520 | .01511 | .0011302 | .0014696 | .0010520 |
| %RSD | 4.452515 | .3406916 | .1010148 | 1.422268 | .1971123 | 1.683260 |
| #1 | .0056268 | 3.086985 | 14.94979 | .0804658 | .7471398 | .0624708 |
| #2 | .0060351 | 3.077743 | 14.94441 | .0782397 | .7442409 | .0635629 |
| #3 | .0061208 | 3.098734 | 14.97285 | .0796925 | .7452707 | .0614594 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1353124 |
| Stddev | .0004847 |
| %RSD | .3582445 |
| #1 | .1356277 |
| #2 | .1355553 |
| #3 | .1347542 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2877.490 | 66485.49 | 9463.697 | 3160.653 | 3440.323 |
| Stddev | 4.388 | 213.59 | 8.387 | 11.364 | 4.092 |
| %RSD | .1524839 | .3212546 | .0886178 | .3595421 | .1189490 |
| #1 | 2882.314 | 66381.68 | 9473.246 | 3147.664 | 3444.944 |
| #2 | 2876.420 | 66343.66 | 9460.318 | 3165.535 | 3437.157 |
| #3 | 2873.737 | 66731.14 | 9457.528 | 3168.760 | 3438.868 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-16 Acquired: 1/12/2025 10:28:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0809102** | **-.000942** | **1.287517** | **.0298990** | **.0001021** | **64.66066** |
| Stddev | .0017422 | .001707 | .003938 | .0027219 | .0025334 | .15483 |
| %RSD | 2.153247 | 181.0746 | .3058404 | 9.103649 | 2480.413 | .2394517 |
| #1 | .0789354 | .001028 | 1.283952 | .0324060 | -.000809 | 64.53491 |
| #2 | .0822298 | -.001931 | 1.291743 | .0302872 | -.001850 | 64.83359 |
| #3 | .0815655 | -.001924 | 1.286854 | .0270039 | .002965 | 64.61348 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9098086** | **.0042251** | **.0082815** | **25.49668** | **.1299882** | **.0757049** |
| Stddev | .0038231 | .0000227 | .0000512 | .04076 | .0008425 | .0002752 |
| %RSD | .4202100 | .5375456 | .6177896 | .1598715 | .6481231 | .3635513 |
| #1 | .9101092 | .0042480 | .0083373 | 25.47409 | .1297977 | .0757995 |
| #2 | .9134726 | .0042246 | .0082368 | 25.54373 | .1309096 | .0753948 |
| #3 | .9058441 | .0042026 | .0082703 | 25.47221 | .1292572 | .0759204 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2668497** | **137.9338** | **5.433793** | **14.93966** | **.1202803** | **-.010174** |
| Stddev | .0014949 | .3467 | .012571 | .02195 | .0002890 | .000029 |
| %RSD | .5602036 | .2513780 | .2313505 | .1469327 | .2402296 | .2809327 |
| #1 | .2658855 | 137.6701 | 5.431839 | 14.95369 | .1199684 | -.010206 |
| #2 | .2685717 | 138.3265 | 5.447227 | 14.95093 | .1203340 | -.010165 |
| #3 | .2660919 | 137.8047 | 5.422313 | 14.91437 | .1205387 | -.010151 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2523663** | **.1471375** | **1.135192** | **6.599892** | **6.541726** | **.5791236** |
| Stddev | .0689877 | .0008338 | .001015 | .061874 | .029402 | .0021191 |
| %RSD | 27.33632 | .5666549 | .0894285 | .9375026 | .4494546 | .3659163 |
| #1 | .2591795 | .1479240 | 1.134721 | 6.539026 | 6.559886 | .5789415 |
| #2 | .3176945 | .1472251 | 1.136357 | 6.597924 | 6.557487 | .5813279 |
| #3 | .1802248 | .1462634 | 1.134498 | 6.662727 | 6.507803 | .5771014 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-16 Acquired: 1/12/2025 10:28:17 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0037855 | 1.377457 | F 13.90852 | .0466262 | .5849514 | .0584291 |
| Stddev | .0001143 | .014559 | .05003 | .0004807 | .0015398 | .0006431 |
| %RSD | 3.019246 | 1.056983 | .3597341 | 1.030907 | .2632373 | 1.100696 |
| #1 | .0038729 | 1.383531 | 13.85419 | .0460767 | .5834725 | .0576870 |
| #2 | .0036562 | 1.387995 | 13.95271 | .0469684 | .5865456 | .0587743 |
| #3 | .0038275 | 1.360843 | 13.91865 | .0468336 | .5848361 | .0588258 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0949992 |
| Stddev | .0002281 |
| %RSD | .2401236 |
| #1 | .0947917 |
| #2 | .0952434 |
| #3 | .0949624 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2761.275 | 65142.76 | 9286.760 | 3106.926 | 3358.918 |
| Stddev | 8.521 | 164.28 | 34.773 | 8.148 | 4.027 |
| %RSD | .3085869 | .2521826 | .3744336 | .2622467 | .1198947 |
| #1 | 2767.510 | 65305.12 | 9322.729 | 3109.212 | 3361.055 |
| #2 | 2751.566 | 64976.63 | 9284.229 | 3097.879 | 3354.273 |
| #3 | 2764.749 | 65146.54 | 9253.322 | 3113.686 | 3361.426 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-17 Acquired: 1/12/2025 10:32:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0895760** | **-.005538** | **.5251334** | **.0332797** | **-.004172** | **68.84333** |
| Stddev | .0006694 | .001496 | .0016410 | .0005562 | .001350 | .08798 |
| %RSD | .7472917 | 27.02270 | .3124933 | 1.671243 | 32.36395 | .1278012 |
| #1 | .0889336 | -.007172 | .5265607 | .0338580 | -.004065 | 68.77145 |
| #2 | .0902695 | -.005206 | .5254989 | .0332324 | -.002878 | 68.81709 |
| #3 | .0895250 | -.004235 | .5233404 | .0327486 | -.005572 | 68.94144 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7023147** | **.0046949** | **.0077524** | **35.80101** | **.1189185** | **.0944251** |
| Stddev | .0016501 | .0001088 | .0001076 | .08288 | .0000916 | .0002642 |
| %RSD | .2349554 | 2.317486 | 1.387282 | .2314925 | .0769819 | .2798146 |
| #1 | .7041198 | .0046209 | .0077969 | 35.79874 | .1188177 | .0942897 |
| #2 | .7019403 | .0046441 | .0076297 | 35.71929 | .1189414 | .0942561 |
| #3 | .7008839 | .0048198 | .0078305 | 35.88500 | .1189965 | .0947296 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2802920** | **173.1635** | **6.923687** | **23.04325** | **.1569516** | **-.013661** |
| Stddev | .0004791 | .3911 | .016479 | .06167 | .0005654 | .000291 |
| %RSD | .1709101 | .2258330 | .2380035 | .2676228 | .3602268 | 2.132179 |
| #1 | .2804785 | 172.9474 | 6.936530 | 23.00443 | .1563791 | -.013953 |
| #2 | .2797478 | 172.9281 | 6.905107 | 23.01096 | .1575096 | -.013659 |
| #3 | .2806498 | 173.6149 | 6.929425 | 23.11436 | .1569660 | -.013371 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3893869** | **.1498588** | **.7328128** | **6.246744** | **5.847447** | **.7238026** |
| Stddev | .1613315 | .0010804 | .0031010 | .033543 | .015043 | .0023651 |
| %RSD | 41.43219 | .7209447 | .4231691 | .5369731 | .2572490 | .3267546 |
| #1 | .3176160 | .1503122 | .7295154 | 6.267373 | 5.859989 | .7228043 |
| #2 | .5741500 | .1486255 | .7356705 | 6.208040 | 5.851583 | .7221005 |
| #3 | .2763946 | .1506386 | .7332524 | 6.264820 | 5.830769 | .7265032 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-17 Acquired: 1/12/2025 10:32:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0039503 | 1.043285 | F 13.99289 | .0464728 | .4955834 | .0723152 |
| Stddev | .0002414 | .004290 | .07587 | .0007710 | .0010225 | .0004776 |
| %RSD | 6.109763 | .4111841 | .5421774 | 1.659039 | .2063165 | .6604372 |
| #1 | .0037955 | 1.047663 | 14.07937 | .0456975 | .4967401 | .0728392 |
| #2 | .0038271 | 1.043102 | 13.93753 | .0472395 | .4948003 | .0722023 |
| #3 | .0042284 | 1.039090 | 13.96178 | .0464815 | .4952097 | .0719042 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0938380 |
| Stddev | .0003582 |
| %RSD | .3817009 |
| #1 | .0934787 |
| #2 | .0938403 |
| #3 | .0941950 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3247.531 | 74853.43 | 10783.73 | 3572.174 | 3400.379 |
| Stddev | 4.222 | 31.42 | 33.31 | 6.505 | 5.065 |
| %RSD | .1300144 | .0419700 | .3089241 | .1821059 | .1489529 |
| #1 | 3243.036 | 74858.04 | 10747.05 | 3576.408 | 3394.549 |
| #2 | 3251.413 | 74819.97 | 10792.02 | 3564.684 | 3403.700 |
| #3 | 3248.144 | 74882.29 | 10812.11 | 3575.431 | 3402.887 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-18 Acquired: 1/12/2025 10:36:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0813049** | **-.007368** | **.1877685** | **.0305738** | **-.003298** | **61.72631** |
| Stddev | .0008381 | .001813 | .0005739 | .0001840 | .001450 | .42850 |
| %RSD | 1.030811 | 24.60389 | .3056398 | .6016868 | 43.97711 | .6941886 |
| #1 | .0822685 | -.009144 | .1876436 | .0304755 | -.004870 | 61.81376 |
| #2 | .0809004 | -.005521 | .1883945 | .0307860 | -.003011 | 61.26084 |
| #3 | .0807457 | -.007438 | .1872673 | .0304599 | -.002012 | 62.10434 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.122822** | **.0054482** | **.0098586** | **43.18487** | **.1120775** | **.1184678** |
| Stddev | .013783 | .0000370 | .0001277 | .35047 | .0005191 | .0002381 |
| %RSD | 1.227542 | .6789020 | 1.295060 | .8115530 | .4631964 | .2009957 |
| #1 | 1.122834 | .0054139 | .0097518 | 43.24038 | .1125548 | .1184699 |
| #2 | 1.109033 | .0054874 | .0098240 | 42.80996 | .1121529 | .1182287 |
| #3 | 1.136599 | .0054433 | .0100000 | 43.50427 | .1115247 | .1187049 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2113384** | **164.7329** | **16.89171** | **20.55411** | **.2140212** | **-.011691** |
| Stddev | .0014974 | 1.1097 | .08681 | .10139 | .0001659 | .000451 |
| %RSD | .7085497 | .6736069 | .5139449 | .4932883 | .0774967 | 3.860500 |
| #1 | .2101811 | 164.9795 | 16.91055 | 20.54702 | .2141834 | -.011409 |
| #2 | .2130296 | 163.5207 | 16.79702 | 20.45645 | .2138519 | -.012211 |
| #3 | .2108044 | 165.6985 | 16.96756 | 20.65886 | .2140284 | -.011452 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4666898** | **.1247007** | **.4752701** | **6.376894** | **5.015360** | **.6897511** |
| Stddev | .0924526 | .0022992 | .0004232 | .086476 | .005547 | .0066660 |
| %RSD | 19.81028 | 1.843742 | .0890500 | 1.356082 | .1106023 | .9664396 |
| #1 | .3600326 | .1224221 | .4752393 | 6.335097 | 5.010595 | .6908025 |
| #2 | .5160624 | .1270199 | .4757079 | 6.319258 | 5.014035 | .6826219 |
| #3 | .5239745 | .1246599 | .4748631 | 6.476328 | 5.021449 | .6958290 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-18 Acquired: 1/12/2025 10:36:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0029828 | .9833814 | F 13.31874 | .0049728 | .4516129 | .0714279 |
| Stddev | .0001323 | .0048182 | .04070 | .0017184 | .0018678 | .0011917 |
| %RSD | 4.434704 | .4899672 | .3055494 | 34.55593 | .4135896 | 1.668425 |
| #1 | .0031264 | .9783322 | 13.28565 | .0042357 | .4494611 | .0713798 |
| #2 | .0029559 | .9838826 | 13.30637 | .0037460 | .4525621 | .0702610 |
| #3 | .0028660 | .9879295 | 13.36418 | .0069368 | .4528154 | .0726430 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0879764 |
| Stddev | .0006713 |
| %RSD | .7630543 |
| #1 | .0882745 |
| #2 | .0872077 |
| #3 | .0884470 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3466.643 | 80981.82 | 11644.08 | 3843.869 | 3331.758 |
| Stddev | .820 | 294.82 | 100.17 | 4.413 | 3.584 |
| %RSD | .0236582 | .3640525 | .8602946 | .1148075 | .1075792 |
| #1 | 3465.699 | 80654.42 | 11604.30 | 3846.909 | 3335.704 |
| #2 | 3467.050 | 81226.29 | 11569.91 | 3838.807 | 3330.867 |
| #3 | 3467.180 | 81064.75 | 11758.04 | 3845.891 | 3328.704 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-19 Acquired: 1/12/2025 10:40:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1006570** | **-.008992** | **.2009472** | **.0378226** | **-.004460** | **59.14204** |
| Stddev | .0020582 | .000574 | .0015761 | .0010090 | .001875 | .28924 |
| %RSD | 2.044792 | 6.379977 | .7843368 | 2.667670 | 42.05348 | .4890617 |
| #1 | .0985373 | -.009538 | .2023902 | .0381811 | -.006611 | 59.04629 |
| #2 | .1007862 | -.008394 | .2011862 | .0386034 | -.003601 | 58.91282 |
| #3 | .1026476 | -.009044 | .1992653 | .0366833 | -.003167 | 59.46702 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.297757** | **.0050403** | **.0093702** | **40.60271** | **.1259685** | **.1478745** |
| Stddev | .004083 | .0001005 | .0000461 | .15092 | .0004043 | .0003589 |
| %RSD | .3146303 | 1.993463 | .4922122 | .3717095 | .3209353 | .2426802 |
| #1 | 1.299187 | .0050870 | .0094219 | 40.47825 | .1261899 | .1479110 |
| #2 | 1.293152 | .0051090 | .0093551 | 40.55929 | .1262137 | .1474988 |
| #3 | 1.300933 | .0049250 | .0093335 | 40.77058 | .1255019 | .1482137 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2436238** | **201.0580** | **12.68800** | **22.00112** | **.2144438** | **-.014292** |
| Stddev | .0029957 | 1.0718 | .03556 | .16212 | .0003681 | .000284 |
| %RSD | 1.229634 | .5330997 | .2802738 | .7368853 | .1716362 | 1.987684 |
| #1 | .2449893 | 200.4236 | 12.68427 | 21.86319 | .2146128 | -.014603 |
| #2 | .2401886 | 200.4548 | 12.65446 | 21.96046 | .2140216 | -.014228 |
| #3 | .2456933 | 202.2955 | 12.72529 | 22.17970 | .2146971 | -.014046 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5083800** | **.1317252** | **.5253992** | **6.545035** | **7.432861** | **.8370033** |
| Stddev | .0463784 | .0017759 | .0019059 | .036820 | .006783 | .0054684 |
| %RSD | 9.122779 | 1.348182 | .3627513 | .5625603 | .0912558 | .6533353 |
| #1 | .5506640 | .1330881 | .5250660 | 6.544800 | 7.430971 | .8344926 |
| #2 | .4587774 | .1297169 | .5274498 | 6.581972 | 7.427223 | .8332410 |
| #3 | .5156986 | .1323707 | .5236819 | 6.508334 | 7.440388 | .8432762 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-19 Acquired: 1/12/2025 10:40:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014861 | .7006321 | F 14.66625 | .0058366 | .6916698 | .0698099 |
| Stddev | .0002409 | .0024255 | .00786 | .0015750 | .0003873 | .0003280 |
| %RSD | 16.20947 | .3461940 | .0535604 | 26.98389 | .0559979 | .4698767 |
| #1 | .0015934 | .6983538 | 14.67489 | .0075823 | .6919595 | .0696618 |
| #2 | .0012102 | .7003605 | 14.66431 | .0054054 | .6918200 | .0695821 |
| #3 | .0016547 | .7031821 | 14.65954 | .0045222 | .6912298 | .0701859 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1098419 |
| Stddev | .0007220 |
| %RSD | .6573468 |
| #1 | .1095822 |
| #2 | .1092856 |
| #3 | .1106579 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3548.750 | 84706.56 | 12071.93 | 3982.799 | 3272.752 |
| Stddev | 5.237 | 84.33 | 27.40 | 6.243 | 2.918 |
| %RSD | .1475712 | .0995529 | .2269335 | .1567548 | .0891568 |
| #1 | 3550.326 | 84677.15 | 12054.79 | 3980.501 | 3272.854 |
| #2 | 3553.018 | 84801.66 | 12057.49 | 3978.031 | 3275.618 |
| #3 | 3542.906 | 84640.88 | 12103.53 | 3989.866 | 3269.785 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20 Acquired: 1/12/2025 10:44:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0304407** | **-.007765** | **.0763459** | **-.004457** | **.0043977** | **24.67833** |
| Stddev | .0030332 | .001554 | .0015646 | .000779 | .0007853 | .10153 |
| %RSD | 9.964403 | 20.01433 | 2.049371 | 17.48879 | 17.85578 | .4114329 |
| #1 | .0328742 | -.008120 | .0760941 | -.005343 | .0047256 | 24.78976 |
| #2 | .0314055 | -.009110 | .0749224 | -.004151 | .0035017 | 24.59105 |
| #3 | .0270424 | -.006064 | .0780211 | -.003877 | .0049659 | 24.65418 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2423988** | **.0019093** | **.0024347** | F **2049.570** | **.0503271** | **.0248265** |
| Stddev | .0011449 | .0000906 | .0000277 | 3.882 | .0005537 | .0007599 |
| %RSD | .4723327 | 4.745413 | 1.135490 | .1894264 | 1.100265 | 3.060995 |
| #1 | .2436125 | .0018189 | .0024595 | 2051.516 | .0500299 | .0256939 |
| #2 | .2413380 | .0019090 | .0024398 | 2045.099 | .0509660 | .0245074 |
| #3 | .2422459 | .0020001 | .0024049 | 2052.094 | .0499854 | .0242781 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1148797** | **78.40214** | **5.412680** | **424.6541** | **.0576441** | **-.008029** |
| Stddev | .0017842 | .30782 | .016259 | 1.2608 | .0006098 | .000248 |
| %RSD | 1.553077 | .3926118 | .3003796 | .2969050 | 1.057874 | 3.083088 |
| #1 | .1169377 | 78.71878 | 5.430700 | 425.6938 | .0578524 | -.008000 |
| #2 | .1137689 | 78.10398 | 5.399109 | 423.2517 | .0581224 | -.007796 |
| #3 | .1139325 | 78.38365 | 5.408231 | 425.0167 | .0569574 | -.008289 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5381554** | **.0641177** | **.2422254** | **5.052435** | **3.376998** | **.3579370** |
| Stddev | .0724741 | .0019679 | .0005441 | .028869 | .012618 | .0005857 |
| %RSD | 13.46714 | 3.069189 | .2246263 | .5713851 | .3736390 | .1636394 |
| #1 | .5720139 | .0647026 | .2426022 | 5.083505 | 3.388880 | .3579936 |
| #2 | .5875035 | .0657268 | .2416016 | 5.026441 | 3.363755 | .3573251 |
| #3 | .4549487 | .0619236 | .2424723 | 5.047359 | 3.378360 | .3584924 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20 Acquired: 1/12/2025 10:44:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0019077 | .9444111 | 9.040034 | -.001855 | .2156369 | .0823775 |
| Stddev | .0001323 | .0039531 | .017019 | .001008 | .0017092 | .0003015 |
| %RSD | 6.935281 | .4185738 | .1882619 | 54.33421 | .7926351 | .3660097 |
| #1 | .0019266 | .9473202 | 9.043831 | -.001709 | .2176045 | .0823886 |
| #2 | .0017669 | .9460028 | 9.054834 | -.000928 | .2145198 | .0826734 |
| #3 | .0020295 | .9399103 | 9.021438 | -.002928 | .2147863 | .0820707 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .9474904 |
| Stddev | .0050145 |
| %RSD | .5292371 |
| #1 | .9532691 |
| #2 | .9442849 |
| #3 | .9449171 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2321.416 | 54266.60 | 8458.147 | 2518.335 | 2576.704 |
| Stddev | 1.068 | 94.73 | 33.551 | 8.388 | 3.206 |
| %RSD | .0460195 | .1745722 | .3966650 | .3330758 | .1244234 |
| #1 | 2321.004 | 54298.47 | 8495.140 | 2516.472 | 2574.251 |
| #2 | 2322.629 | 54341.28 | 8429.686 | 2527.498 | 2580.332 |
| #3 | 2320.615 | 54160.04 | 8449.615 | 2511.036 | 2575.530 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-21 Acquired: 1/12/2025 10:48:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0597357** | **-.002948** | **.6905385** | **.0185016** | **-.000574** | **38.96902** |
| Stddev | .0018988 | .000797 | .0004762 | .0014245 | .002545 | .17500 |
| %RSD | 3.178739 | 27.02622 | .0689573 | 7.699212 | 443.5968 | .4490680 |
| #1 | .0611083 | -.003501 | .6901812 | .0170710 | -.003450 | 38.97284 |
| #2 | .0575686 | -.002035 | .6910791 | .0199198 | .001387 | 39.14208 |
| #3 | .0605300 | -.003309 | .6903553 | .0185140 | .000342 | 38.79214 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4296928** | **.0028131** | **.0051392** | **53.45223** | **.0960064** | **.0482091** |
| Stddev | .0027546 | .0001119 | .0000537 | .33692 | .0004090 | .0000954 |
| %RSD | .6410514 | 3.978077 | 1.044718 | .6303107 | .4260299 | .1978526 |
| #1 | .4309036 | .0026995 | .0051779 | 53.54946 | .0964015 | .0482070 |
| #2 | .4316346 | .0028166 | .0051618 | 53.72984 | .0960330 | .0481149 |
| #3 | .4265403 | .0029232 | .0050779 | 53.07739 | .0955848 | .0483056 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1618850** | **90.57428** | **5.739983** | **15.59535** | **.1168100** | **-.006945** |
| Stddev | .0012558 | .49931 | .033386 | .07425 | .0003451 | .000571 |
| %RSD | .7757383 | .5512703 | .5816410 | .4761112 | .2954613 | 8.228340 |
| #1 | .1604821 | 90.52926 | 5.749028 | 15.58762 | .1168055 | -.006868 |
| #2 | .1622690 | 91.09458 | 5.767915 | 15.67317 | .1171573 | -.006415 |
| #3 | .1629040 | 90.09901 | 5.703006 | 15.52527 | .1164671 | -.007551 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4065087** | **.1015286** | **.8786103** | **5.829291** | **6.819332** | **.3941472** |
| Stddev | .0652071 | .0018110 | .0029516 | .089714 | .008958 | .0030578 |
| %RSD | 16.04076 | 1.783718 | .3359367 | 1.539025 | .1313548 | .7757970 |
| #1 | .4740682 | .0994386 | .8759217 | 5.753674 | 6.829188 | .3947115 |
| #2 | .4015169 | .1025126 | .8817685 | 5.928420 | 6.811686 | .3968836 |
| #3 | .3439409 | .1026345 | .8781406 | 5.805778 | 6.817123 | .3908466 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-21 Acquired: 1/12/2025 10:48:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0061991 | 3.814952 | F 12.24750 | .0194834 | .6677561 | .0361038 |
| Stddev | .0002716 | .014353 | .04114 | .0002302 | .0025423 | .0010310 |
| %RSD | 4.381357 | .3762255 | .3358890 | 1.181664 | .3807244 | 2.855656 |
| #1 | .0060724 | 3.824954 | 12.29484 | .0192214 | .6694294 | .0350214 |
| #2 | .0065109 | 3.821396 | 12.22718 | .0196533 | .6690083 | .0362157 |
| #3 | .0060140 | 3.798507 | 12.22046 | .0195756 | .6648306 | .0370743 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1020269 |
| Stddev | .0005451 |
| %RSD | .5342272 |
| #1 | .1020000 |
| #2 | .1025849 |
| #3 | .1014958 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2794.607 | 66442.55 | 9352.798 | 3098.458 | 3376.660 |
| Stddev | 4.993 | 141.69 | 29.207 | 13.184 | 1.586 |
| %RSD | .1786814 | .2132466 | .3122846 | .4254952 | .0469642 |
| #1 | 2800.126 | 66481.10 | 9345.312 | 3107.051 | 3378.380 |
| #2 | 2790.403 | 66285.57 | 9385.020 | 3083.279 | 3375.256 |
| #3 | 2793.293 | 66560.97 | 9328.063 | 3105.044 | 3376.344 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-22 Acquired: 1/12/2025 10:52:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0685742** | **-.002460** | **.7978499** | **.0250950** | **.0003112** | **43.60162** |
| Stddev | .0021995 | .000716 | .0030479 | .0021807 | .0007034 | .17038 |
| %RSD | 3.207479 | 29.10416 | .3820088 | 8.689600 | 226.0516 | .3907583 |
| #1 | .0662188 | -.003017 | .7945971 | .0225806 | .0002215 | 43.40538 |
| #2 | .0689291 | -.001652 | .7983126 | .0262356 | .0010550 | 43.68763 |
| #3 | .0705746 | -.002712 | .8006399 | .0264687 | -.000343 | 43.71185 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4504688** | **.0030346** | **.0055788** | **36.19708** | **.0894214** | **.0533666** |
| Stddev | .0014655 | .0000539 | .0000645 | .09585 | .0001561 | .0003963 |
| %RSD | .3253252 | 1.774924 | 1.157009 | .2648038 | .1745134 | .7425256 |
| #1 | .4487804 | .0029775 | .0055900 | 36.08817 | .0894656 | .0531655 |
| #2 | .4512154 | .0030416 | .0055094 | 36.23445 | .0895506 | .0531111 |
| #3 | .4514106 | .0030845 | .0056371 | 36.26862 | .0892480 | .0538230 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1722637** | **99.83871** | **6.190941** | **13.95167** | **.1277554** | **-.007572** |
| Stddev | .0006312 | .37867 | .010117 | .03823 | .0004623 | .000198 |
| %RSD | .3664062 | .3792798 | .1634161 | .2740074 | .3618888 | 2.616101 |
| #1 | .1719976 | 99.41298 | 6.180415 | 13.91735 | .1281286 | -.007353 |
| #2 | .1729844 | 99.96522 | 6.191817 | 13.94478 | .1272382 | -.007738 |
| #3 | .1718092 | 100.1379 | 6.200592 | 13.99287 | .1278993 | -.007626 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4702532** | **.1119718** | **.7970688** | **5.091473** | **6.333236** | **.4274266** |
| Stddev | .1359278 | .0012808 | .0021334 | .067548 | .005745 | .0019123 |
| %RSD | 28.90523 | 1.143862 | .2676624 | 1.326690 | .0907126 | .4473953 |
| #1 | .3910411 | .1128425 | .7967719 | 5.013562 | 6.339513 | .4254650 |
| #2 | .6272067 | .1125718 | .7950993 | 5.133607 | 6.331958 | .4275294 |
| #3 | .3925117 | .1105012 | .7993351 | 5.127251 | 6.328238 | .4292854 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-22 Acquired: 1/12/2025 10:52:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMT9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0056869 | 3.113010 | F 12.40913 | .0243972 | .7136069 | .0398992 |
| Stddev | .0004634 | .016478 | .03780 | .0001817 | .0016508 | .0012171 |
| %RSD | 8.148921 | .5293184 | .3045870 | .7445467 | .2313306 | 3.050327 |
| #1 | .0052947 | 3.099597 | 12.45185 | .0242452 | .7138499 | .0397220 |
| #2 | .0055677 | 3.108031 | 12.39550 | .0243479 | .7151227 | .0387805 |
| #3 | .0061982 | 3.131403 | 12.38004 | .0245984 | .7118481 | .0411952 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0805561 |
| Stddev | .0004942 |
| %RSD | .6134999 |
| #1 | .0799961 |
| #2 | .0807411 |
| #3 | .0809311 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2838.616 | 67839.42 | 9493.086 | 3178.783 | 3374.054 |
| Stddev | 3.531 | 78.19 | 64.915 | 9.654 | 8.751 |
| %RSD | .1243859 | .1152543 | .6838121 | .3036874 | .2593601 |
| #1 | 2835.683 | 67754.32 | 9422.031 | 3167.751 | 3372.695 |
| #2 | 2842.535 | 67908.09 | 9507.942 | 3182.915 | 3383.406 |
| #3 | 2837.630 | 67855.86 | 9549.286 | 3185.683 | 3366.063 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV006 Acquired: 1/12/2025 10:56:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.530411** | **4.727371** | **23.68022** | **4.590786** | **4.512595** | **379.9348** |
| Stddev | .015790 | .031667 | .06843 | .018697 | .021061 | 1.1195 |
| %RSD | .3485403 | .6698709 | .2889723 | .4072757 | .4667097 | .2946638 |
| #1 | 4.529518 | 4.697713 | 23.60779 | 4.585292 | 4.496756 | 378.6600 |
| #2 | 4.515087 | 4.723677 | 23.68908 | 4.575451 | 4.504534 | 380.3861 |
| #3 | 4.546629 | 4.760723 | 23.74378 | 4.611614 | 4.536496 | 380.7581 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.539759** | **.4921551** | **2.393837** | **380.3536** | **15.10481** | **2.397533** |
| Stddev | .074691 | .0013559 | .008970 | 2.3711 | .04205 | .006974 |
| %RSD | .7829392 | .2754917 | .3747310 | .6233963 | .2783678 | .2908969 |
| #1 | 9.623824 | .4930018 | 2.384429 | 381.0460 | 15.05669 | 2.390899 |
| #2 | 9.514416 | .4905913 | 2.394788 | 382.3015 | 15.12328 | 2.396896 |
| #3 | 9.481038 | .4928722 | 2.402294 | 377.7134 | 15.13446 | 2.404804 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.54295** | **382.0536** | **14.42917** | **239.5334** | **2.391270** | **1.207386** |
| Stddev | .01142 | 1.0409 | .06468 | .4115 | .007470 | .000921 |
| %RSD | .0785025 | .2724360 | .4482585 | .1717894 | .3123808 | .0762780 |
| #1 | 14.55593 | 381.4847 | 14.38177 | 239.2467 | 2.383542 | 1.207986 |
| #2 | 14.53448 | 383.2549 | 14.50286 | 240.0049 | 2.391815 | 1.207847 |
| #3 | 14.53844 | 381.4211 | 14.40289 | 239.3487 | 2.398452 | 1.206326 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **389.3550** | **2.370167** | **15.41846** | **142.3139** | **4.773671** | F **5.770419** |
| Stddev | .4070 | .001574 | .03156 | .5421 | .030282 | .005022 |
| %RSD | .1045377 | .0664080 | .2046680 | .3808962 | .6343519 | .0870260 |
| #1 | 388.9863 | 2.370985 | 15.42312 | 141.9717 | 4.739204 | 5.774144 |
| #2 | 389.2869 | 2.371163 | 15.44743 | 142.9389 | 4.785806 | 5.764708 |
| #3 | 389.7917 | 2.368352 | 15.38483 | 142.0311 | 4.796004 | 5.772405 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV006 Acquired: 1/12/2025 10:56:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.547886** | **4.750900** | **4.786930** | **4.726171** | **4.770085** | **4.608380** |
| Stddev | .014031 | .020940 | .001369 | .013629 | .005268 | .024545 |
| %RSD | .3085272 | .4407531 | .0286023 | .2883665 | .1104464 | .5326093 |
| #1 | 4.544111 | 4.727975 | 4.785355 | 4.711793 | 4.768146 | 4.597442 |
| #2 | 4.536128 | 4.755706 | 4.787599 | 4.727819 | 4.776048 | 4.636492 |
| #3 | 4.563419 | 4.769019 | 4.787836 | 4.738900 | 4.766061 | 4.591205 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.857709** |
| Stddev | .027350 |
| %RSD | .5630265 |
| #1 | 4.827034 |
| #2 | 4.879551 |
| #3 | 4.866541 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2048.316** | **50719.25** | **7697.616** | **2407.971** | **2745.383** |
| Stddev | 6.443 | 128.06 | 13.807 | 7.486 | 6.837 |
| %RSD | .3145342 | .2524921 | .1793663 | .3108959 | .2490311 |
| #1 | 2049.058 | 50862.19 | 7697.445 | 2402.994 | 2751.748 |
| #2 | 2054.356 | 50614.97 | 7711.508 | 2404.338 | 2746.244 |
| #3 | 2041.535 | 50680.59 | 7683.895 | 2416.580 | 2738.156 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB006 Acquired: 1/12/2025 11:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001170** | **.0002614** | **.0016756** | **.0028800** | **-.000225** | **.0137343** | **-.002330** |
| Stddev | .000168 | .0007339 | .0015129 | .0009248 | .002202 | .0075892 | .001081 |
| %RSD | 14.36541 | 280.7916 | 90.29094 | 32.11288 | 977.3452 | 55.25697 | 46.41824 |
| #1 | -.000989 | .0009051 | .0024754 | .0032286 | -.002520 | .0068056 | -.001102 |
| #2 | -.001200 | .0004169 | .0026207 | .0035798 | -.000027 | .0125521 | -.002744 |
| #3 | -.001321 | -.000538 | -.000069 | .0018315 | .001871 | .0218452 | -.003143 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000162** | **.0000526** | **.0196650** | **.0002572** | **-.000069** | **.0002280** | **.0249659** |
| Stddev | .0000826 | .0000403 | .0046450 | .0004068 | .000249 | .0014441 | .0014075 |
| %RSD | 509.3018 | 76.64485 | 23.62078 | 158.1305 | 360.0428 | 633.4777 | 5.637647 |
| #1 | .0000795 | .0000800 | .0219018 | .0007005 | .000081 | .0018823 | .0241817 |
| #2 | -.000077 | .0000063 | .0227685 | .0001704 | .000069 | -.000780 | .0265908 |
| #3 | .000046 | .0000715 | .0143248 | -.000099 | -.000357 | -.000418 | .0241251 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003431** | **.0160082** | **-.000249** | **.0005386** | **.0957966** | **-.000829** | **.0004747** |
| Stddev | .0003711 | .0147076 | .000309 | .0002502 | .1055408 | .000509 | .0001962 |
| %RSD | 108.1414 | 91.87503 | 124.2522 | 46.45454 | 110.1717 | 61.47695 | 41.33812 |
| #1 | .0001001 | -.000369 | -.000469 | .0007975 | .0117800 | -.000347 | .0003867 |
| #2 | .0007703 | .020303 | -.000383 | .0002981 | .0613539 | -.001362 | .0003378 |
| #3 | .0001591 | .028090 | .000105 | .0005201 | .2142560 | -.000778 | .0006995 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1088452** | **-.001336** | **.0010440** | **.0003873** | **-.001450** | **.0035350** | **-.000393** |
| Stddev | .0169569 | .001166 | .0007411 | .0005575 | .001573 | .0029967 | .000819 |
| %RSD | 15.57889 | 87.32241 | 70.98333 | 143.9608 | 108.4747 | 84.77254 | 208.4854 |
| #1 | .0953198 | -.002393 | .0018995 | .0007543 | -.000574 | .0057864 | .000322 |
| #2 | .1278690 | -.000084 | .0005981 | .0006617 | -.003266 | .0001336 | -.001287 |
| #3 | .1033469 | -.001530 | .0006345 | -.000254 | -.000510 | .0046850 | -.000214 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB006 Acquired: 1/12/2025 11:00:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB006 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000226 | -.001162 | .0001330 |
| Stddev | .000602 | .000799 | .0000831 |
| %RSD | 266.4340 | 68.75488 | 62.46935 |
| | | | |
| #1 | -.000293 | -.000886 | .0001648 |
| #2 | .000407 | -.002063 | .0000387 |
| #3 | -.000792 | -.000538 | .0001955 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2527.992 | 60560.42 | 8073.987 | 2852.660 | 3553.303 |
| Stddev | .903 | 171.48 | 51.630 | 2.754 | 5.322 |
| %RSD | .0357366 | .2831618 | .6394577 | .0965426 | .1497623 |
| | | | | | |
| #1 | 2529.032 | 60364.72 | 8014.676 | 2855.777 | 3555.357 |
| #2 | 2527.543 | 60684.42 | 8098.415 | 2851.652 | 3557.291 |
| #3 | 2527.401 | 60632.12 | 8108.869 | 2850.553 | 3547.260 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-01 Acquired: 1/12/2025 11:04:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D26 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1575989 | -.069352 | 24.91403 | .0451489 | .0219795 | 54.96652 |
| Stddev | .0025768 | .002015 | .04262 | .0028408 | .0018369 | .06165 |
| %RSD | 1.635013 | 2.905215 | .1710553 | 6.292050 | 8.357168 | .1121541 |
| #1 | .1596728 | -.067254 | 24.87356 | .0423881 | .0240829 | 54.91263 |
| #2 | .1584097 | -.069531 | 24.95851 | .0449953 | .0206920 | 55.03374 |
| #3 | .1547143 | -.071272 | 24.91003 | .0480634 | .0211634 | 54.95318 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2738793 | .0153027 | .1166943 | 17.38125 | .0551153 | .1189937 |
| Stddev | .0008130 | .0000522 | .0004217 | .06327 | .0001827 | .0004644 |
| %RSD | .2968568 | .3413573 | .3613830 | .3640248 | .3314577 | .3902806 |
| #1 | .2731058 | .0152485 | .1162086 | 17.32022 | .0549839 | .1184575 |
| #2 | .2738053 | .0153528 | .1169068 | 17.44655 | .0550381 | .1192630 |
| #3 | .2747268 | .0153067 | .1169675 | 17.37696 | .0553239 | .1192607 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.902406 | 200.2038 | F 129.9618 | 29.21538 | .0596442 | .1526028 |
| Stddev | .014692 | .3412 | .7435 | .08791 | .0000629 | .0005074 |
| %RSD | .2128482 | .1704089 | .5721169 | .3009024 | .1054767 | .3324646 |
| #1 | 6.915454 | 199.8509 | 129.3804 | 29.16237 | .0596889 | .1531144 |
| #2 | 6.886493 | 200.5319 | 130.7996 | 29.31686 | .0596714 | .1525944 |
| #3 | 6.905271 | 200.2287 | 129.7054 | 29.16693 | .0595722 | .1520998 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0668426 | .0940663 | F 31.59575 | 7.230419 | 6.627630 | .8053950 |
| Stddev | .1773237 | .0011023 | .13862 | .049070 | .016844 | .0018926 |
| %RSD | 265.2855 | 1.171819 | .4387325 | .6786666 | .2541476 | .2349869 |
| #1 | .2714748 | .0944067 | 31.59152 | 7.179730 | 6.608871 | .8058203 |
| #2 | -.041632 | .0949582 | 31.45929 | 7.233833 | 6.632561 | .8070387 |
| #3 | -.029315 | .0928340 | 31.73644 | 7.277693 | 6.641459 | .8033260 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-01 Acquired: 1/12/2025 11:04:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D26 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8810677 | 8.150357 | F 16.84073 | .0041552 | .2137070 | .1556023 |
| Stddev | .0019427 | .030235 | .00775 | .0003219 | .0011077 | .0010186 |
| %RSD | .2204922 | .3709673 | .0460132 | 7.746518 | .5183144 | .6546343 |
| #1 | .8829590 | 8.115879 | 16.84838 | .0044030 | .2139868 | .1546460 |
| #2 | .8790774 | 8.162840 | 16.84092 | .0042713 | .2146479 | .1566735 |
| #3 | .8811667 | 8.172352 | 16.83289 | .0037914 | .2124862 | .1554874 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1163737 |
| Stddev | .0001478 |
| %RSD | .1270011 |
| #1 | .1163998 |
| #2 | .1162146 |
| #3 | .1165068 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2665.646 | 63034.09 | 8904.543 | 3017.921 | 3276.549 |
| Stddev | 6.174 | 124.85 | 9.610 | .680 | 3.437 |
| %RSD | .2316289 | .1980728 | .1079270 | .0225255 | .1049011 |
| #1 | 2658.552 | 63134.83 | 8912.850 | 3018.406 | 3272.972 |
| #2 | 2669.816 | 62894.40 | 8894.017 | 3018.213 | 3276.851 |
| #3 | 2668.568 | 63073.03 | 8906.762 | 3017.144 | 3279.826 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-02 Acquired: 1/12/2025 11:08:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D29 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.096494** | **-.106804** | F **139.1770** | **.1495699** | **.2359831** | **19.80269** |
| Stddev | .000780 | .002633 | .2203 | .0042645 | .0005740 | .04757 |
| %RSD | .0711771 | 2.465531 | .1583218 | 2.851190 | .2432319 | .2402379 |
| #1 | 1.096130 | -.103763 | 139.0784 | .1538297 | .2355842 | 19.75015 |
| #2 | 1.095963 | -.108298 | 139.0232 | .1453006 | .2357241 | 19.84284 |
| #3 | 1.097390 | -.108350 | 139.4294 | .1495793 | .2366409 | 19.81510 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6910362** | **.0149642** | **.2441462** | **67.95831** | **.0310426** | **.0332397** |
| Stddev | .0026585 | .0001659 | .0003054 | .08023 | .0005282 | .0005264 |
| %RSD | .3847075 | 1.108782 | .1250905 | .1180519 | 1.701510 | 1.583611 |
| #1 | .6890126 | .0149826 | .2444910 | 67.88200 | .0311035 | .0338324 |
| #2 | .6940471 | .0147899 | .2439096 | 68.04195 | .0315377 | .0328267 |
| #3 | .6900490 | .0151202 | .2440382 | 67.95100 | .0304866 | .0330599 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.727512** | **581.6599** | F **143.7773** | **4.582916** | **.0447017** | **.8547167** |
| Stddev | .025185 | 1.5830 | 1.0584 | .041309 | .0009394 | .0009207 |
| %RSD | .2885681 | .2721460 | .7361046 | .9013792 | 2.101598 | .1077239 |
| #1 | 8.728693 | 581.0326 | 143.2260 | 4.536728 | .0439376 | .8554458 |
| #2 | 8.701757 | 580.4867 | 143.1083 | 4.595694 | .0444170 | .8536820 |
| #3 | 8.752085 | 583.4603 | 144.9975 | 4.616328 | .0457506 | .8550223 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.029067** | **.0003749** | F **39.43598** | **6.376732** | **4.451151** | **2.338504** |
| Stddev | .084074 | .0021330 | .22605 | .118677 | .009447 | .007955 |
| %RSD | 8.169966 | 568.9690 | .5732101 | 1.861094 | .2122284 | .3401638 |
| #1 | .954488 | .0011182 | 39.63874 | 6.268603 | 4.459727 | 2.330438 |
| #2 | 1.012532 | .0020369 | 39.47696 | 6.503703 | 4.441026 | 2.338730 |
| #3 | 1.120180 | -.002030 | 39.19224 | 6.357892 | 4.452701 | 2.346343 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-02 Acquired: 1/12/2025 11:08:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D29 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2346333 | F 258.4689 | F 21.16996 | .0218669 | .3819521 | .0144189 |
| Stddev | .0003709 | .3201 | .06639 | .0012700 | .0025551 | .0018515 |
| %RSD | .1580758 | .1238544 | .3136141 | 5.807766 | .6689535 | 12.84099 |
| #1 | .2342610 | 258.8212 | 21.24555 | .0220938 | .3847433 | .0130719 |
| #2 | .2350028 | 258.3898 | 21.14324 | .0204988 | .3797286 | .0165303 |
| #3 | .2346362 | 258.1957 | 21.12109 | .0230082 | .3813845 | .0136546 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1780792 |
| Stddev | .0006623 |
| %RSD | .3719152 |
| #1 | .1773146 |
| #2 | .1784721 |
| #3 | .1784510 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2468.698 | 58783.02 | 8453.976 | 2792.627 | 3321.653 |
| Stddev | 4.389 | 53.20 | 49.978 | 2.305 | 3.622 |
| %RSD | .1777966 | .0905010 | .5911818 | .0825517 | .1090431 |
| #1 | 2470.551 | 58782.28 | 8416.658 | 2791.366 | 3324.751 |
| #2 | 2463.686 | 58836.58 | 8510.758 | 2795.288 | 3322.535 |
| #3 | 2471.856 | 58730.20 | 8434.511 | 2791.228 | 3317.671 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-03 Acquired: 1/12/2025 11:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D32 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5078057 | -.010909 | F 51.42044 | .0925024 | .0583371 | 44.20608 |
| Stddev | .0018111 | .000513 | .03584 | .0029172 | .0010172 | .08540 |
| %RSD | .3566572 | 4.702270 | .0696935 | 3.153681 | 1.743670 | .1931775 |
| #1 | .5058594 | -.011408 | 51.46138 | .0893597 | .0593296 | 44.29094 |
| #2 | .5094416 | -.010937 | 51.39475 | .0930238 | .0583847 | 44.20714 |
| #3 | .5081161 | -.010383 | 51.40520 | .0951239 | .0572969 | 44.12016 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.087865 | .0040890 | .0607838 | 13.61828 | .0915765 | .0498625 |
| Stddev | .007737 | .0002479 | .0002051 | .01891 | .0004034 | .0003481 |
| %RSD | .3705914 | 6.062819 | .3373778 | .1388888 | .4404661 | .6981321 |
| #1 | 2.096782 | .0039621 | .0605864 | 13.60824 | .0916016 | .0499389 |
| #2 | 2.083898 | .0043746 | .0609958 | 13.60650 | .0919668 | .0501660 |
| #3 | 2.082917 | .0039302 | .0607692 | 13.64010 | .0911612 | .0494825 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.657885 | 420.9880 | 18.51232 | 25.91586 | .0648558 | .1648289 |
| Stddev | .013261 | 1.4633 | .05724 | .03308 | .0005832 | .0005419 |
| %RSD | .3625185 | .3475894 | .3091797 | .1276288 | .8992024 | .3287576 |
| #1 | 3.665696 | 422.3978 | 18.57633 | 25.94285 | .0643582 | .1643573 |
| #2 | 3.642575 | 421.0898 | 18.46608 | 25.87896 | .0647115 | .1654208 |
| #3 | 3.665386 | 419.4765 | 18.49455 | 25.92577 | .0654975 | .1647086 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.318682 | .1232076 | 14.72698 | 12.78808 | 9.468228 | 1.717506 |
| Stddev | .199022 | .0005263 | .01029 | .03299 | .012524 | .009855 |
| %RSD | 15.09248 | .4271702 | .0699003 | .2579722 | .1322772 | .5738114 |
| #1 | 1.530372 | .1237830 | 14.72645 | 12.82528 | 9.457057 | 1.726467 |
| #2 | 1.290298 | .1227505 | 14.73752 | 12.76237 | 9.465860 | 1.719100 |
| #3 | 1.135376 | .1230893 | 14.71696 | 12.77659 | 9.481768 | 1.706950 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-03 Acquired: 1/12/2025 11:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D32 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3245286 | F 59.54011 | F 12.50024 | .0430120 | 1.871142 | .0773099 |
| Stddev | .0006561 | .05148 | .06270 | .0011376 | .004633 | .0013315 |
| %RSD | .2021611 | .0864674 | .5015805 | 2.644782 | .2475778 | 1.722333 |
| #1 | .3244688 | 59.52967 | 12.47912 | .0437535 | 1.874186 | .0778221 |
| #2 | .3252125 | 59.49465 | 12.45082 | .0417023 | 1.865811 | .0757983 |
| #3 | .3239044 | 59.59601 | 12.57077 | .0435803 | 1.873430 | .0783093 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2264551 |
| Stddev | .0008297 |
| %RSD | .3663855 |
| #1 | .2271890 |
| #2 | .2266214 |
| #3 | .2255548 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2621.264 | 62828.17 | 9175.388 | 2955.828 | 3364.084 |
| Stddev | 3.348 | 42.40 | 40.729 | 4.594 | 1.576 |
| %RSD | .1277321 | .0674899 | .4438956 | .1554166 | .0468450 |
| #1 | 2621.901 | 62826.88 | 9200.969 | 2960.083 | 3362.622 |
| #2 | 2617.644 | 62871.20 | 9196.774 | 2950.958 | 3363.877 |
| #3 | 2624.249 | 62786.43 | 9128.420 | 2956.442 | 3365.754 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-04 Acquired: 1/12/2025 11:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D35 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4287219 | -.052351 | F 131.7166 | .1222020 | .1655776 | 58.77583 |
| Stddev | .0031038 | .003326 | .7296 | .0051510 | .0037684 | .39606 |
| %RSD | .7239721 | 6.353121 | .5539144 | 4.215195 | 2.275903 | .6738417 |
| #1 | .4261455 | -.048971 | 131.3106 | .1164512 | .1617233 | 58.49452 |
| #2 | .4278525 | -.055620 | 131.2803 | .1237621 | .1657559 | 59.22875 |
| #3 | .4321677 | -.052463 | 132.5589 | .1263926 | .1692537 | 58.60422 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.035522 | .0104974 | .5416572 | 22.49788 | .0473216 | .1488701 |
| Stddev | .015863 | .0001151 | .0038130 | .20655 | .0007952 | .0012705 |
| %RSD | .7792962 | 1.096346 | .7039563 | .9180864 | 1.680395 | .8534199 |
| #1 | 2.024755 | .0103708 | .5394088 | 22.36020 | .0464625 | .1485943 |
| #2 | 2.053738 | .0105256 | .5395030 | 22.73538 | .0480319 | .1477602 |
| #3 | 2.028073 | .0105957 | .5460598 | 22.39805 | .0474703 | .1502559 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 86.09302 | 389.0665 | F 84.23075 | 28.73081 | .0632305 | .9786888 |
| Stddev | 1.17496 | 1.0327 | .54244 | .18215 | .0013014 | .0039743 |
| %RSD | 1.364760 | .2654392 | .6439915 | .6339779 | 2.058131 | .4060863 |
| #1 | 85.35523 | 388.2055 | 84.03441 | 28.58774 | .0617870 | .9749699 |
| #2 | 85.47586 | 390.2115 | 84.84401 | 28.93586 | .0635908 | .9828769 |
| #3 | 87.44796 | 388.7825 | 83.81382 | 28.66882 | .0643138 | .9782196 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9235701 | .1107109 | F 44.34504 | 7.230848 | 6.054949 | 1.572383 |
| Stddev | .0374646 | .0020164 | .18396 | .090403 | .042354 | .007949 |
| %RSD | 4.056501 | 1.821348 | .4148342 | 1.250238 | .6994992 | .5055586 |
| #1 | .9668166 | .1130380 | 44.48035 | 7.180649 | 6.025664 | 1.566471 |
| #2 | .9009976 | .1096160 | 44.13558 | 7.335211 | 6.035670 | 1.581420 |
| #3 | .9028960 | .1094788 | 44.41918 | 7.176684 | 6.103514 | 1.569257 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-04 Acquired: 1/12/2025 11:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D35 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5844609 | F 122.1156 | F 17.79551 | .2718589 | .7754347 | .1482912 |
| Stddev | .0030808 | .4860 | .07320 | .0018490 | .0055219 | .0027762 |
| %RSD | .5271225 | .3979643 | .4113368 | .6801363 | .7121075 | 1.872133 |
| #1 | .5824286 | 121.8035 | 17.85375 | .2707633 | .7809261 | .1460980 |
| #2 | .5829485 | 121.8678 | 17.71334 | .2708198 | .7698827 | .1514126 |
| #3 | .5880057 | 122.6756 | 17.81945 | .2739937 | .7754952 | .1473631 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2008394 |
| Stddev | .0014665 |
| %RSD | .7301632 |
| #1 | .1998487 |
| #2 | .2025241 |
| #3 | .2001455 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2602.595 | 65282.63 | 9338.805 | 3016.396 | 3455.787 |
| Stddev | 12.169 | 365.68 | 53.146 | 17.071 | 16.434 |
| %RSD | .4675765 | .5601540 | .5690900 | .5659553 | .4755622 |
| #1 | 2605.807 | 65529.16 | 9301.220 | 3028.204 | 3464.237 |
| #2 | 2612.835 | 64862.48 | 9399.610 | 2996.822 | 3466.278 |
| #3 | 2589.142 | 65456.24 | 9315.586 | 3024.163 | 3436.847 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-05 Acquired: 1/12/2025 11:21:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D38 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 11.76404 | .0059717 | F 57.79784 | .0504141 | .2968879 | 20.07593 |
| Stddev | .02582 | .0024092 | .06385 | .0035995 | .0026441 | .14664 |
| %RSD | .2195246 | 40.34372 | .1104758 | 7.139896 | .8906093 | .7304353 |
| #1 | 11.79384 | .0046637 | 57.86608 | .0545705 | .2997500 | 20.13763 |
| #2 | 11.74817 | .0087520 | 57.73954 | .0483209 | .2945363 | 19.90852 |
| #3 | 11.75011 | .0044995 | 57.78790 | .0483511 | .2963773 | 20.18163 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.122027 | .0027755 | .0675725 | 774.8662 | .0322211 | .0475070 |
| Stddev | .010478 | .0000814 | .0002523 | 4.4752 | .0002234 | .0005340 |
| %RSD | .9338239 | 2.934259 | .3734277 | .5775405 | .6934284 | 1.124119 |
| #1 | 1.123613 | .0028516 | .0676189 | 771.8348 | .0322735 | .0469293 |
| #2 | 1.110846 | .0026896 | .0673003 | 772.7578 | .0319762 | .0476091 |
| #3 | 1.131621 | .0027855 | .0677985 | 780.0061 | .0324137 | .0479827 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 23.21467 | 181.8971 | 10.58065 | 9.112780 | .0441036 | .4798371 |
| Stddev | .08259 | .9701 | .08020 | .026913 | .0006299 | .0015943 |
| %RSD | .3557569 | .5333194 | .7579937 | .2953317 | 1.428327 | .3322609 |
| #1 | 23.29111 | 182.3964 | 10.61235 | 9.124082 | .0446479 | .4816475 |
| #2 | 23.12707 | 180.7790 | 10.48944 | 9.082059 | .0442494 | .4792213 |
| #3 | 23.22584 | 182.5158 | 10.64015 | 9.132199 | .0434136 | .4786425 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8194505 | .0425041 | 16.92901 | 6.483289 | 3.149339 | .7456089 |
| Stddev | .1335108 | .0026570 | .01854 | .069512 | .012954 | .0053084 |
| %RSD | 16.29272 | 6.251189 | .1094964 | 1.072171 | .4113257 | .7119608 |
| #1 | .7389666 | .0394826 | 16.94697 | 6.489089 | 3.150758 | .7477253 |
| #2 | .9735647 | .0444760 | 16.93012 | 6.411059 | 3.135734 | .7395687 |
| #3 | .7458204 | .0435536 | 16.90994 | 6.549719 | 3.161525 | .7495326 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-05 Acquired: 1/12/2025 11:21:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D38 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1177614 | F 89.66820 | F 11.72249 | .6881663 | .1587563 | .0367369 |
| Stddev | .0002914 | .19427 | .02058 | .0005959 | .0027866 | .0017736 |
| %RSD | .2474298 | .2166495 | .1755596 | .0865878 | 1.755239 | 4.827799 |
| #1 | .1176709 | 89.85681 | 11.73133 | .6875047 | .1612636 | .0359363 |
| #2 | .1175261 | 89.46873 | 11.69896 | .6886607 | .1557562 | .0387696 |
| #3 | .1180873 | 89.67906 | 11.73717 | .6883335 | .1592490 | .0355047 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3864848 |
| Stddev | .0024027 |
| %RSD | .6216686 |
| #1 | .3876038 |
| #2 | .3837268 |
| #3 | .3881238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2389.356 | 57087.51 | 8358.957 | 2642.461 | 3059.803 |
| Stddev | 2.618 | 145.34 | 27.827 | 2.617 | 3.878 |
| %RSD | .1095514 | .2545935 | .3328961 | .0990253 | .1267559 |
| #1 | 2386.972 | 56960.43 | 8340.764 | 2643.129 | 3060.165 |
| #2 | 2392.157 | 57245.98 | 8345.118 | 2644.679 | 3063.487 |
| #3 | 2388.939 | 57056.12 | 8390.990 | 2639.575 | 3055.756 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-06 Acquired: 1/12/2025 11:25:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D41 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3204521** | **-.024333** | **34.09884** | **.0449277** | **.0296061** | **28.48932** |
| Stddev | .0019110 | .000431 | .03061 | .0000207 | .0017792 | .29196 |
| %RSD | .5963304 | 1.769809 | .0897827 | .0461189 | 6.009563 | 1.024817 |
| #1 | .3217271 | -.024084 | 34.09193 | .0449123 | .0315313 | 28.33838 |
| #2 | .3182549 | -.024830 | 34.07227 | .0449512 | .0280224 | 28.30373 |
| #3 | .3213742 | -.024084 | 34.13232 | .0449195 | .0292648 | 28.82586 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.221833** | **.0106198** | **.0281574** | **15.63700** | **.0550359** | **.0223225** |
| Stddev | .009411 | .0002365 | .0000624 | .17673 | .0003993 | .0000825 |
| %RSD | .7702115 | 2.226645 | .2216162 | 1.130185 | .7255551 | .3694432 |
| #1 | 1.222352 | .0108480 | .0281463 | 15.61064 | .0554736 | .0224163 |
| #2 | 1.212173 | .0106357 | .0282245 | 15.47493 | .0546915 | .0222899 |
| #3 | 1.230973 | .0103759 | .0281012 | 15.82543 | .0549425 | .0222613 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.715796** | **207.4658** | **26.56444** | **13.14485** | **.0217485** | **.1098903** |
| Stddev | .005047 | 1.9079 | .08703 | .09944 | .0007621 | .0003435 |
| %RSD | .2941370 | .9196428 | .3276298 | .7565120 | 3.503907 | .3125864 |
| #1 | 1.721448 | 206.4906 | 26.57515 | 13.07700 | .0211478 | .1095068 |
| #2 | 1.711742 | 206.2426 | 26.64562 | 13.09855 | .0226057 | .1101697 |
| #3 | 1.714197 | 209.6643 | 26.47254 | 13.25900 | .0214919 | .1099944 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3997984** | **.0420553** | **7.325021** | **4.065094** | **7.029757** | **.8305824** |
| Stddev | .1048032 | .0026613 | .032566 | .036631 | .013313 | .0096190 |
| %RSD | 26.21402 | 6.328004 | .4445847 | .9011152 | .1893805 | 1.158100 |
| #1 | .5135615 | .0450101 | 7.316048 | 4.032047 | 7.033785 | .8252265 |
| #2 | .3071793 | .0398469 | 7.297881 | 4.058755 | 7.014896 | .8248335 |
| #3 | .3786542 | .0413091 | 7.361132 | 4.104482 | 7.040591 | .8416871 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-06 Acquired: 1/12/2025 11:25:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D41 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1333479 | F 22.72537 | F 13.32814 | .0089820 | 1.038781 | .0326463 |
| Stddev | .0004997 | .04659 | .03794 | .0007966 | .002553 | .0004441 |
| %RSD | .3747406 | .2050206 | .2846370 | 8.868646 | .2457880 | 1.360490 |
| #1 | .1330967 | 22.69934 | 13.36661 | .0081201 | 1.040085 | .0322070 |
| #2 | .1330237 | 22.69761 | 13.32704 | .0096910 | 1.040418 | .0330951 |
| #3 | .1339234 | 22.77916 | 13.29076 | .0091350 | 1.035839 | .0326367 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3151201 |
| Stddev | .0029524 |
| %RSD | .9369149 |
| #1 | .3133872 |
| #2 | .3134440 |
| #3 | .3185291 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2658.909 | 63327.79 | 8729.790 | 2981.471 | 3504.220 |
| Stddev | 3.920 | 238.94 | 47.168 | 15.315 | 5.548 |
| %RSD | .1474182 | .3773057 | .5403095 | .5136812 | .1583160 |
| #1 | 2656.545 | 63414.44 | 8713.962 | 2990.027 | 3503.259 |
| #2 | 2663.434 | 63511.31 | 8692.573 | 2990.596 | 3510.185 |
| #3 | 2656.749 | 63057.61 | 8782.837 | 2963.789 | 3499.215 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-07 Acquired: 1/12/2025 11:29:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D44 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 10.48601 | .0231372 | F 200.4580 | .1560362 | 1.628582 | 7.343021 |
| Stddev | .03911 | .0015461 | .3765 | .0071335 | .001834 | .038066 |
| %RSD | .3729827 | 6.682502 | .1878003 | 4.571689 | .1126246 | .5184036 |
| #1 | 10.45662 | .0241799 | 200.1127 | .1513506 | 1.627933 | 7.302811 |
| #2 | 10.47100 | .0213608 | 200.4021 | .1642460 | 1.627161 | 7.378502 |
| #3 | 10.53040 | .0238708 | 200.8593 | .1525122 | 1.630653 | 7.347748 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.813187 | -.000974 | .0598135 | 3.042695 | .0133524 | .0101676 |
| Stddev | .045052 | .000139 | .0003753 | .042329 | .0004128 | .0003926 |
| %RSD | .7749957 | 14.31748 | .6274644 | 1.391160 | 3.091428 | 3.861212 |
| #1 | 5.845972 | -.000828 | .0595486 | 3.001339 | .0132086 | .0100833 |
| #2 | 5.831772 | -.001105 | .0596488 | 3.085934 | .0130308 | .0098241 |
| #3 | 5.761815 | -.000988 | .0602430 | 3.040813 | .0138179 | .0105956 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 43.82833 | 548.6042 | 1.691234 | 1.405460 | .0242055 | 1.545902 |
| Stddev | .03652 | 4.6265 | .008027 | .003927 | .0006752 | .004415 |
| %RSD | .0833180 | .8433248 | .4746371 | .2793960 | 2.789557 | .2855641 |
| #1 | 43.83681 | 548.4748 | 1.684155 | 1.405931 | .0238719 | 1.548629 |
| #2 | 43.85986 | 553.2941 | 1.699955 | 1.401318 | .0237620 | 1.548268 |
| #3 | 43.78832 | 544.0438 | 1.689591 | 1.409129 | .0249826 | 1.540809 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6885281 | .0625916 | 15.91469 | 14.69869 | 3.030369 | 2.197931 |
| Stddev | .2380924 | .0013528 | .03629 | .05544 | .008254 | .021376 |
| %RSD | 34.57991 | 2.161369 | .2280135 | .3771611 | .2723754 | .9725621 |
| #1 | .9334726 | .0613519 | 15.89471 | 14.65254 | 3.022638 | 2.194901 |
| #2 | .6741742 | .0623884 | 15.95658 | 14.76018 | 3.029407 | 2.220660 |
| #3 | .4579374 | .0640346 | 15.89278 | 14.68333 | 3.039062 | 2.178231 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-07 Acquired: 1/12/2025 11:29:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D44 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8666060 | F 132.5131 | 7.103602 | .2534045 | .0645422 | .0040174 |
| Stddev | .0025899 | .5623 | .005516 | .0011829 | .0002254 | .0011657 |
| %RSD | .2988587 | .4243476 | .0776520 | .4667898 | .3492881 | 29.01675 |
| #1 | .8639355 | 131.9686 | 7.108807 | .2523304 | .0647318 | .0027996 |
| #2 | .8667754 | 132.4790 | 7.097820 | .2546722 | .0642929 | .0051230 |
| #3 | .8691070 | 133.0917 | 7.104180 | .2532107 | .0646017 | .0041297 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4440843 |
| Stddev | .0023242 |
| %RSD | .5233760 |
| #1 | .4420568 |
| #2 | .4466209 |
| #3 | .4435752 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2421.706 | 60210.18 | 8268.573 | 2799.527 | 3551.466 |
| Stddev | 1.987 | 232.58 | 40.225 | 9.679 | 3.226 |
| %RSD | .0820487 | .3862805 | .4864753 | .3457511 | .0908317 |
| #1 | 2422.892 | 60160.20 | 8223.856 | 2810.536 | 3554.344 |
| #2 | 2419.412 | 60006.65 | 8280.054 | 2792.351 | 3547.979 |
| #3 | 2422.814 | 60463.68 | 8301.809 | 2795.695 | 3552.076 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-08 Acquired: 1/12/2025 11:33:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D47 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.097358** | **.0120960** | F **245.0855** | **.1796865** | **1.036860** | **11.97792** |
| Stddev | .020748 | .0015839 | .3310 | .0030510 | .002784 | .02780 |
| %RSD | .2562314 | 13.09464 | .1350540 | 1.697954 | .2684674 | .2320595 |
| #1 | 8.101264 | .0105815 | 244.7158 | .1762498 | 1.034834 | 12.00754 |
| #2 | 8.074934 | .0137413 | 245.3544 | .1820761 | 1.035712 | 11.95241 |
| #3 | 8.115875 | .0119651 | 245.1862 | .1807334 | 1.040034 | 11.97380 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.426656** | **-.000744** | **.3922202** | **5.272380** | **.0056926** | **.0535867** |
| Stddev | .002075 | .000174 | .0005323 | .063232 | .0002847 | .0002321 |
| %RSD | .1454773 | 23.40811 | .1357100 | 1.199299 | 5.001240 | .4330378 |
| #1 | 1.424679 | -.000842 | .3917062 | 5.200099 | .0060097 | .0536783 |
| #2 | 1.426471 | -.000543 | .3927690 | 5.317456 | .0054589 | .0537590 |
| #3 | 1.428817 | -.000847 | .3921853 | 5.299584 | .0056091 | .0533228 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F **71.87622** | **672.3564** | **13.62494** | **4.068893** | **.0316303** | **1.425460** |
| Stddev | .26037 | 2.3608 | .02429 | .003948 | .0006371 | .008848 |
| %RSD | .3622482 | .3511301 | .1782458 | .0970291 | 2.014287 | .6206790 |
| #1 | 72.15804 | 672.3927 | 13.60084 | 4.070799 | .0322871 | 1.430235 |
| #2 | 71.64462 | 669.9775 | 13.62458 | 4.071527 | .0315888 | 1.415250 |
| #3 | 71.82601 | 674.6988 | 13.64940 | 4.064354 | .0310149 | 1.430894 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.083390** | **.0511814** | F **44.94419** | **14.42090** | **2.851622** | **2.706647** |
| Stddev | .123414 | .0017267 | .04053 | .07812 | .006502 | .009123 |
| %RSD | 11.39146 | 3.373762 | .0901722 | .5417193 | .2279984 | .3370461 |
| #1 | 1.119319 | .0501780 | 44.98792 | 14.43583 | 2.852148 | 2.702370 |
| #2 | 1.184852 | .0501908 | 44.90790 | 14.33639 | 2.857844 | 2.700448 |
| #3 | .945998 | .0531752 | 44.93675 | 14.49048 | 2.844873 | 2.717122 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-08 Acquired: 1/12/2025 11:33:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D47 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8578191 | F 247.2500 | 8.413572 | .3480783 | .0816369 | .0179228 |
| Stddev | .0028944 | .2366 | .018997 | .0012505 | .0004899 | .0006887 |
| %RSD | .3374194 | .0957026 | .2257921 | .3592548 | .6001062 | 3.842359 |
| #1 | .8595341 | 247.0579 | 8.391971 | .3467269 | .0821993 | .0182998 |
| #2 | .8544772 | 247.5143 | 8.421064 | .3491944 | .0813024 | .0171280 |
| #3 | .8594458 | 247.1777 | 8.427681 | .3483135 | .0814092 | .0183407 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1775936 |
| Stddev | .0003747 |
| %RSD | .2110152 |
| #1 | .1778610 |
| #2 | .1771653 |
| #3 | .1777547 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2377.356 | 59669.72 | 8416.891 | 2774.574 | 3545.234 |
| Stddev | 3.317 | 219.16 | 40.547 | 11.240 | 5.596 |
| %RSD | .1395447 | .3672867 | .4817300 | .4051158 | .1578558 |
| #1 | 2375.012 | 59566.50 | 8385.864 | 2770.522 | 3549.146 |
| #2 | 2381.152 | 59921.43 | 8462.769 | 2787.279 | 3538.824 |
| #3 | 2375.904 | 59521.23 | 8402.039 | 2765.922 | 3547.731 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-09 Acquired: 1/12/2025 11:38:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D50 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.279443** | **.0006993** | F **443.6026** | **.1666459** | **.2688063** | **35.98429** |
| Stddev | .001879 | .0021732 | 2.3610 | .0032923 | .0019871 | .03516 |
| %RSD | .1468812 | 310.7451 | .5322298 | 1.975649 | .7392185 | .0977022 |
| #1 | 1.281367 | -.000755 | 441.0792 | .1690205 | .2688267 | 35.99670 |
| #2 | 1.279349 | -.000344 | 443.9705 | .1628875 | .2668091 | 36.01157 |
| #3 | 1.277612 | .003197 | 445.7580 | .1680298 | .2707831 | 35.94461 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.149605** | **.0011653** | **.1705228** | **15.64500** | **.0997835** | **.0532786** |
| Stddev | .006497 | .0002057 | .0005995 | .04220 | .0001924 | .0005691 |
| %RSD | .2062695 | 17.65426 | .3515661 | .2697639 | .1928707 | 1.068210 |
| #1 | 3.154515 | .0009368 | .1698841 | 15.68565 | .1000035 | .0526795 |
| #2 | 3.152062 | .0012232 | .1706110 | 15.64794 | .0996465 | .0533444 |
| #3 | 3.142238 | .0013359 | .1710733 | 15.60140 | .0997005 | .0538120 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.92977** | **532.1519** | **9.572317** | **18.80270** | **.0888359** | **1.262769** |
| Stddev | .08620 | 1.6067 | .028175 | .00934 | .0013923 | .003125 |
| %RSD | .4325298 | .3019249 | .2943391 | .0496586 | 1.567211 | .2474820 |
| #1 | 19.84587 | 532.5643 | 9.594107 | 18.79596 | .0876391 | 1.264958 |
| #2 | 19.92533 | 530.3792 | 9.582344 | 18.81336 | .0885047 | 1.264159 |
| #3 | 20.01810 | 533.5122 | 9.540500 | 18.79878 | .0903639 | 1.259190 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.148053** | **.1080990** | **28.05404** | **6.936823** | **9.647341** | **2.177995** |
| Stddev | .042646 | .0006419 | .09577 | .050487 | .036604 | .008306 |
| %RSD | 3.714606 | .5938188 | .3413931 | .7278153 | .3794207 | .3813679 |
| #1 | 1.196019 | .1075031 | 28.06898 | 6.989581 | 9.613109 | 2.181158 |
| #2 | 1.114420 | .1080153 | 28.14146 | 6.888964 | 9.642986 | 2.168572 |
| #3 | 1.133720 | .1087787 | 27.95167 | 6.931923 | 9.685927 | 2.184256 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-09 Acquired: 1/12/2025 11:38:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D50 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4687760 | F 119.0387 | F 12.17478 | .3940737 | 1.006559 | .0615050 |
| Stddev | .0016582 | .3930 | .02484 | .0003950 | .003516 | .0002163 |
| %RSD | .3537379 | .3301726 | .2040337 | .1002478 | .3493093 | .3517405 |
| #1 | .4676447 | 118.6995 | 12.14637 | .3941543 | 1.002775 | .0617481 |
| #2 | .4680038 | 118.9472 | 12.19238 | .3936445 | 1.007179 | .0614330 |
| #3 | .4706795 | 119.4694 | 12.18559 | .3944222 | 1.009724 | .0613338 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2222218 |
| Stddev | .0000980 |
| %RSD | .0440914 |
| #1 | .2223307 |
| #2 | .2221940 |
| #3 | .2221407 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2505.861 | 62907.79 | 8849.664 | 2884.246 | 3423.873 |
| Stddev | 4.577 | 174.84 | 29.652 | 5.775 | 5.865 |
| %RSD | .1826512 | .2779254 | .3350687 | .2002316 | .1712834 |
| #1 | 2506.874 | 62714.86 | 8870.639 | 2880.956 | 3429.130 |
| #2 | 2509.847 | 63055.76 | 8862.615 | 2880.868 | 3424.942 |
| #3 | 2500.863 | 62952.74 | 8815.740 | 2890.915 | 3417.548 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-10 Acquired: 1/12/2025 11:42:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D53 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4012915** | **-.009580** | **28.66512** | **.0902459** | **.0450176** | **84.23335** |
| Stddev | .0031627 | .002141 | .01650 | .0005716 | .0014218 | .10956 |
| %RSD | .7881275 | 22.35175 | .0575608 | .6333315 | 3.158223 | .1300690 |
| #1 | .3989844 | -.007144 | 28.64783 | .0897106 | .0454382 | 84.27229 |
| #2 | .4048967 | -.010431 | 28.68070 | .0908478 | .0434330 | 84.10964 |
| #3 | .3999933 | -.011164 | 28.66682 | .0901793 | .0461816 | 84.31813 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.732186** | **.0040699** | **.1637025** | **24.37958** | **.0884517** | **.0939505** |
| Stddev | .002066 | .0002660 | .0000983 | .05890 | .0000164 | .0002484 |
| %RSD | .1192684 | 6.535796 | .0600544 | .2416149 | .0185231 | .2644347 |
| #1 | 1.734571 | .0040904 | .1636990 | 24.43831 | .0884705 | .0937557 |
| #2 | 1.730972 | .0043250 | .1636060 | 24.32050 | .0884406 | .0942302 |
| #3 | 1.731015 | .0037942 | .1638025 | 24.37992 | .0884441 | .0938655 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.500089** | **431.6054** | **14.59023** | **51.32856** | **.0789192** | **.0738066** |
| Stddev | .011820 | 4.1106 | .01351 | .08234 | .0006813 | .0006517 |
| %RSD | .2626561 | .9524088 | .0925667 | .1604139 | .8632667 | .8830433 |
| #1 | 4.501277 | 427.3589 | 14.60500 | 51.37367 | .0784308 | .0734195 |
| #2 | 4.487719 | 431.8920 | 14.57851 | 51.23352 | .0796975 | .0734413 |
| #3 | 4.511269 | 435.5652 | 14.58718 | 51.37848 | .0786292 | .0745591 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.544600** | **.2662718** | **28.82788** | **13.18063** | F **17.15519** | **1.758336** |
| Stddev | .108803 | .0009855 | .35640 | .05765 | .00832 | .019833 |
| %RSD | 7.044066 | .3701076 | 1.236290 | .4373584 | .0485010 | 1.127928 |
| #1 | 1.601675 | .2666607 | 28.42442 | 13.20169 | 17.16468 | 1.737842 |
| #2 | 1.419135 | .2651512 | 29.09985 | 13.11541 | 17.14916 | 1.759733 |
| #3 | 1.612989 | .2670035 | 28.95938 | 13.22478 | 17.15172 | 1.777434 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-10 Acquired: 1/12/2025 11:42:18 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D53 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1070336 | F 60.85307 | F 19.73910 | .0260630 | 2.062677 | .1586710 |
| Stddev | .0006779 | .06781 | .01902 | .0002067 | .001156 | .0010639 |
| %RSD | .6333481 | .1114381 | .0963602 | .7929963 | .0560516 | .6704830 |
| #1 | .1067761 | 60.83643 | 19.75865 | .0260982 | 2.061858 | .1591096 |
| #2 | .1078025 | 60.79513 | 19.72066 | .0258410 | 2.063999 | .1594455 |
| #3 | .1065222 | 60.92766 | 19.73798 | .0262499 | 2.062173 | .1574580 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3467666 |
| Stddev | .0005995 |
| %RSD | .1728799 |
| #1 | .3471108 |
| #2 | .3460744 |
| #3 | .3471146 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2680.559 | 65605.20 | 9482.024 | 3070.356 | 3355.985 |
| Stddev | 3.303 | 70.72 | 12.645 | 3.492 | 2.645 |
| %RSD | .1232119 | .1078015 | .1333582 | .1137221 | .0788120 |
| #1 | 2677.931 | 65642.99 | 9494.826 | 3068.850 | 3352.985 |
| #2 | 2684.266 | 65649.00 | 9481.704 | 3074.349 | 3357.980 |
| #3 | 2679.478 | 65523.61 | 9469.542 | 3067.871 | 3356.990 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-11 Acquired: 1/12/2025 11:46:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D56 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 17.22745 | .0195562 | F 617.8292 | .3230725 | 3.133033 | 23.44653 |
| Stddev | .08300 | .0004664 | 2.9203 | .0016152 | .018395 | .05566 |
| %RSD | .4818182 | 2.384808 | .4726717 | .4999630 | .5871190 | .2374116 |
| #1 | 17.13435 | .0193159 | 614.4681 | .3234669 | 3.113403 | 23.41144 |
| #2 | 17.25427 | .0192591 | 619.2750 | .3244541 | 3.135821 | 23.51071 |
| #3 | 17.29373 | .0200938 | 619.7446 | .3212966 | 3.149874 | 23.41744 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.494115 | .0005710 | .1131108 | 12.76819 | .0508763 | .0292233 |
| Stddev | .038888 | .0005373 | .0007662 | .14708 | .0010710 | .0007745 |
| %RSD | .7078043 | 94.10138 | .6773837 | 1.151899 | 2.105049 | 2.650362 |
| #1 | 5.482780 | .0009400 | .1125401 | 12.64368 | .0497931 | .0284841 |
| #2 | 5.537410 | -.000045 | .1128107 | 12.93047 | .0509013 | .0291571 |
| #3 | 5.462153 | .000818 | .1139816 | 12.73042 | .0519346 | .0300288 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 63.21831 | F 932.4631 | 11.02305 | 5.521495 | .0477433 | 1.914550 |
| Stddev | .09303 | 12.5504 | .02610 | .022786 | .0006367 | .002911 |
| %RSD | .1471500 | 1.345945 | .2367691 | .4126811 | 1.333534 | .1520711 |
| #1 | 63.32104 | 922.7138 | 11.01540 | 5.495216 | .0471984 | 1.911340 |
| #2 | 63.13977 | 946.6236 | 11.05211 | 5.533506 | .0475884 | 1.915289 |
| #3 | 63.19413 | 928.0520 | 11.00162 | 5.535763 | .0484431 | 1.917020 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.674400 | .1338449 | 27.43402 | 12.82792 | 5.629886 | 3.713152 |
| Stddev | .137213 | .0021344 | .17313 | .03664 | .011557 | .063315 |
| %RSD | 8.194743 | 1.594648 | .6310628 | .2856323 | .2052771 | 1.705149 |
| #1 | 1.595198 | .1320378 | 27.54625 | 12.84203 | 5.618728 | 3.666363 |
| #2 | 1.832840 | .1332972 | 27.52118 | 12.85540 | 5.629125 | 3.785197 |
| #3 | 1.595163 | .1361997 | 27.23464 | 12.78632 | 5.641804 | 3.687896 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-11 Acquired: 1/12/2025 11:46:27 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D56 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.353391 | F 178.7205 | F 11.41852 | .4671969 | .4074350 | .0180758 |
| Stddev | .018691 | .7097 | .03373 | .0021137 | .0006955 | .0002806 |
| %RSD | .5573654 | .3971272 | .2953727 | .4524300 | .1707081 | 1.552293 |
| #1 | 3.334476 | 177.9249 | 11.45337 | .4654346 | .4079094 | .0177644 |
| #2 | 3.353847 | 178.9478 | 11.38604 | .4695404 | .4077591 | .0183088 |
| #3 | 3.371849 | 179.2887 | 11.41613 | .4666157 | .4066366 | .0181543 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 2.042402 |
| Stddev | .022740 |
| %RSD | 1.113400 |
| #1 | 2.032783 |
| #2 | 2.068371 |
| #3 | 2.026053 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2326.753 | 61541.02 | 8709.248 | 2766.077 | 3458.090 |
| Stddev | 11.432 | 103.34 | 24.465 | 13.695 | 16.805 |
| %RSD | .4913145 | .1679284 | .2809132 | .4951050 | .4859645 |
| #1 | 2339.436 | 61618.61 | 8689.832 | 2759.553 | 3477.491 |
| #2 | 2323.581 | 61423.70 | 8736.728 | 2756.863 | 3448.713 |
| #3 | 2317.242 | 61580.74 | 8701.185 | 2781.814 | 3448.066 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12 Acquired: 1/12/2025 11:50:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2670411 | -.009577 | 20.90179 | .0530578 | .0377137 | 47.81302 |
| Stddev | .0018866 | .000570 | .00647 | .0019822 | .0021061 | .22529 |
| %RSD | .7065005 | 5.952718 | .0309737 | 3.735850 | 5.584455 | .4711966 |
| #1 | .2692005 | -.008921 | 20.89598 | .0546457 | .0400438 | 47.65798 |
| #2 | .2657125 | -.009945 | 20.90877 | .0536915 | .0371517 | 48.07145 |
| #3 | .2662101 | -.009866 | 20.90063 | .0508363 | .0359456 | 47.70963 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.555072 | .0091778 | .0521962 | 14.67316 | .0563638 | .0546246 |
| Stddev | .007083 | .0001502 | .0000845 | .06676 | .0002069 | .0002712 |
| %RSD | .4554707 | 1.637134 | .1618603 | .4550034 | .3670538 | .4964044 |
| #1 | 1.549841 | .0092784 | .0521353 | 14.65981 | .0562744 | .0548527 |
| #2 | 1.563132 | .0090051 | .0521607 | 14.74559 | .0562167 | .0546963 |
| #3 | 1.552242 | .0092498 | .0522927 | 14.61408 | .0566004 | .0543248 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.516775 | 258.9263 | 18.05646 | 27.07622 | .0467687 | .0717709 |
| Stddev | .006348 | .9593 | .05558 | .13012 | .0003177 | .0005969 |
| %RSD | .2522465 | .3704995 | .3078240 | .4805673 | .6793013 | .8316933 |
| #1 | 2.516333 | 258.2768 | 18.00356 | 26.98873 | .0465258 | .0711099 |
| #2 | 2.523333 | 260.0282 | 18.11438 | 27.22575 | .0471282 | .0722706 |
| #3 | 2.510660 | 258.4739 | 18.05145 | 27.01418 | .0466522 | .0719322 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6212028 | .1205279 | 11.87540 | 7.029438 | 8.129598 | 1.051862 |
| Stddev | .0748156 | .0023425 | .04243 | .045501 | .034637 | .006234 |
| %RSD | 12.04368 | 1.943557 | .3572554 | .6472932 | .4260572 | .5926482 |
| #1 | .5650600 | .1178384 | 11.84964 | 7.078765 | 8.128154 | 1.048378 |
| #2 | .7061369 | .1221224 | 11.92437 | 7.020442 | 8.095705 | 1.059059 |
| #3 | .5924114 | .1216228 | 11.85220 | 6.989106 | 8.164934 | 1.048148 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12 Acquired: 1/12/2025 11:50:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2065734 | F 24.88839 | F 15.63034 | .0203209 | 1.668191 | .0923110 |
| Stddev | .0006349 | .03117 | .02956 | .0009442 | .002735 | .0004997 |
| %RSD | .3073274 | .1252334 | .1891438 | 4.646306 | .1639536 | .5412892 |
| #1 | .2072526 | 24.89227 | 15.65575 | .0207625 | 1.670882 | .0917873 |
| #2 | .2059950 | 24.85546 | 15.59790 | .0209634 | 1.665414 | .0927825 |
| #3 | .2064726 | 24.91743 | 15.63738 | .0192369 | 1.668278 | .0923633 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1519799 |
| Stddev | .0005430 |
| %RSD | .3572777 |
| #1 | .1516791 |
| #2 | .1526067 |
| #3 | .1516539 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2765.475 | 65398.50 | 9271.173 | 3067.685 | 3497.979 |
| Stddev | 4.225 | 70.19 | 28.679 | 16.134 | 4.650 |
| %RSD | .1527733 | .1073238 | .3093329 | .5259312 | .1329376 |
| #1 | 2769.299 | 65463.98 | 9258.057 | 3078.361 | 3503.188 |
| #2 | 2766.187 | 65324.40 | 9304.064 | 3049.125 | 3496.503 |
| #3 | 2760.939 | 65407.10 | 9251.397 | 3075.570 | 3494.246 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-13 Acquired: 1/12/2025 11:54:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D62 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1951188** | **-.003660** | **9.397806** | **.0367183** | **.0164058** | **33.76718** |
| Stddev | .0050777 | .001417 | .011624 | .0032323 | .0011684 | .21553 |
| %RSD | 2.602371 | 38.71574 | .1236885 | 8.802857 | 7.121721 | .6382877 |
| #1 | .2009685 | -.004112 | 9.404619 | .0340697 | .0161180 | 33.96932 |
| #2 | .1925394 | -.002072 | 9.384384 | .0357652 | .0176912 | 33.79185 |
| #3 | .1918486 | -.004796 | 9.404414 | .0403199 | .0154083 | 33.54037 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9402574** | **.0033512** | **.0241284** | **14.05110** | **.0364289** | **.0310793** |
| Stddev | .0061470 | .0001028 | .0001178 | .08487 | .0003255 | .0001349 |
| %RSD | .6537595 | 3.066071 | .4881610 | .6040013 | .8936073 | .4339115 |
| #1 | .9453697 | .0033839 | .0242513 | 14.09841 | .0364183 | .0312271 |
| #2 | .9419656 | .0032361 | .0240165 | 14.10177 | .0367596 | .0309629 |
| #3 | .9334370 | .0034337 | .0241173 | 13.95312 | .0361088 | .0310478 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.509009** | **176.5813** | **7.364594** | **20.85543** | **.0292722** | **.0294984** |
| Stddev | .003413 | 1.0523 | .036101 | .14696 | .0002287 | .0002040 |
| %RSD | .2261567 | .5959241 | .4901963 | .7046558 | .7813285 | .6916283 |
| #1 | 1.512863 | 177.4703 | 7.385074 | 20.98243 | .0291993 | .0293021 |
| #2 | 1.507797 | 176.8541 | 7.385798 | 20.88940 | .0290889 | .0294839 |
| #3 | 1.506368 | 175.4195 | 7.322910 | 20.69446 | .0295285 | .0297093 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2005154** | **.0934956** | **6.869267** | **5.217107** | **6.419168** | **.7083323** |
| Stddev | .0997077 | .0021147 | .037329 | .053360 | .008698 | .0073751 |
| %RSD | 49.72571 | 2.261805 | .5434262 | 1.022797 | .1355016 | 1.041190 |
| #1 | .0942319 | .0949553 | 6.837093 | 5.253088 | 6.422062 | .7145666 |
| #2 | .2153234 | .0944610 | 6.910195 | 5.155799 | 6.409391 | .7102394 |
| #3 | .2919910 | .0910705 | 6.860513 | 5.242434 | 6.426049 | .7001910 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-13 Acquired: 1/12/2025 11:54:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D62 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1237926 | F 12.10174 | F 11.00264 | .0074548 | .9471949 | .0658285 |
| Stddev | .0006626 | .04069 | .01325 | .0016409 | .0028638 | .0012750 |
| %RSD | .5352170 | .3362492 | .1204307 | 22.01105 | .3023419 | 1.936864 |
| #1 | .1234889 | 12.14396 | 10.99405 | .0055882 | .9439212 | .0660516 |
| #2 | .1233363 | 12.06277 | 11.01790 | .0086695 | .9492363 | .0669773 |
| #3 | .1245525 | 12.09848 | 10.99598 | .0081068 | .9484271 | .0644567 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1039066 |
| Stddev | .0008331 |
| %RSD | .8017488 |
| #1 | .1048346 |
| #2 | .1036619 |
| #3 | .1032233 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2604.421 | 63505.92 | 8655.570 | 2941.706 | 3450.449 |
| Stddev | 1.434 | 201.19 | 43.926 | 16.677 | 3.173 |
| %RSD | .0550677 | .3168019 | .5074876 | .5669133 | .0919487 |
| #1 | 2602.774 | 63534.62 | 8706.145 | 2949.009 | 3446.791 |
| #2 | 2605.099 | 63291.92 | 8633.619 | 2922.623 | 3452.097 |
| #3 | 2605.391 | 63691.21 | 8626.947 | 2953.485 | 3452.458 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-14 Acquired: 1/12/2025 11:58:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D65 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2572817** | **-.067454** | **19.31575** | **.0484829** | **.0242513** | **42.28198** |
| Stddev | .0055299 | .002179 | .04274 | .0047637 | .0020911 | .17407 |
| %RSD | 2.149363 | 3.230916 | .2212957 | 9.825523 | 8.622453 | .4116991 |
| #1 | .2520147 | -.067582 | 19.26658 | .0522967 | .0232343 | 42.33021 |
| #2 | .2567889 | -.065213 | 19.33659 | .0431432 | .0228633 | 42.08888 |
| #3 | .2630415 | -.069566 | 19.34408 | .0500089 | .0266563 | 42.42686 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.597941** | **.0130073** | **.1396605** | **80.13340** | **.0717550** | **.0692632** |
| Stddev | .009604 | .0000864 | .0005266 | .28541 | .0001952 | .0004890 |
| %RSD | .6010183 | .6640640 | .3770524 | .3561655 | .2720457 | .7060032 |
| #1 | 1.600805 | .0130414 | .1390547 | 80.26670 | .0716490 | .0689521 |
| #2 | 1.587231 | .0129090 | .1399184 | 79.80573 | .0716357 | .0698268 |
| #3 | 1.605787 | .0130713 | .1400084 | 80.32776 | .0719802 | .0690107 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.409492** | **231.2960** | F **103.4747** | **20.96464** | **.0883886** | **.0996588** |
| Stddev | .004695 | .7929 | .3692 | .08242 | .0004399 | .0002636 |
| %RSD | .1948650 | .3428080 | .3567814 | .3931214 | .4976740 | .2645426 |
| #1 | 2.410984 | 231.5236 | 103.8961 | 21.01117 | .0878818 | .0998986 |
| #2 | 2.404232 | 230.4142 | 103.2082 | 20.86948 | .0886122 | .0993765 |
| #3 | 2.413260 | 231.9503 | 103.3199 | 21.01326 | .0886718 | .0997014 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1968852** | **.0643278** | **22.12246** | **8.923214** | **5.631482** | **.9264348** |
| Stddev | .2841541 | .0024084 | .08545 | .109866 | .014986 | .0028783 |
| %RSD | 144.3248 | 3.743891 | .3862685 | 1.231236 | .2661082 | .3106859 |
| #1 | .1017383 | .0657057 | 22.20899 | 9.046370 | 5.616190 | .9274280 |
| #2 | -.027486 | .0657309 | 22.03813 | 8.835274 | 5.632115 | .9231914 |
| #3 | .516403 | .0615469 | 22.12026 | 8.887998 | 5.646142 | .9286849 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-14 Acquired: 1/12/2025 11:58:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D65 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2662651 | F 132.5508 | F 15.62231 | .0058155 | .7335504 | .0825715 |
| Stddev | .0010434 | .3819 | .06411 | .0004026 | .0024890 | .0003664 |
| %RSD | .3918772 | .2881177 | .4103873 | 6.922915 | .3393090 | .4437803 |
| #1 | .2652268 | 132.1149 | 15.66366 | .0056235 | .7359953 | .0829519 |
| #2 | .2673135 | 132.8265 | 15.54846 | .0062782 | .7310195 | .0825417 |
| #3 | .2662551 | 132.7110 | 15.65482 | .0055449 | .7336362 | .0822208 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1926220 |
| Stddev | .0006716 |
| %RSD | .3486490 |
| #1 | .1927898 |
| #2 | .1918824 |
| #3 | .1931937 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2633.920 | 63432.14 | 8711.372 | 2976.197 | 3386.111 |
| Stddev | 4.122 | 174.92 | 9.556 | 4.531 | 2.063 |
| %RSD | .1565039 | .2757580 | .1096995 | .1522365 | .0609216 |
| #1 | 2635.515 | 63301.35 | 8700.613 | 2971.819 | 3388.493 |
| #2 | 2629.238 | 63630.83 | 8718.875 | 2975.905 | 3384.947 |
| #3 | 2637.006 | 63364.23 | 8714.628 | 2980.866 | 3384.893 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-15 Acquired: 1/12/2025 12:02:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D68 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1448267 | -.044601 | 39.42626 | .0616456 | .0613842 | 68.66032 |
| Stddev | .0010794 | .000549 | .07325 | .0080452 | .0010844 | .20562 |
| %RSD | .7452826 | 1.230008 | .1857843 | 13.05068 | 1.766533 | .2994736 |
| #1 | .1458405 | -.045044 | 39.46036 | .0590207 | .0607388 | 68.72647 |
| #2 | .1436919 | -.043988 | 39.34218 | .0706753 | .0626361 | 68.82472 |
| #3 | .1449475 | -.044773 | 39.47625 | .0552406 | .0607776 | 68.42977 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4495460 | .0603609 | .3874702 | 103.5527 | .0654410 | .2312652 |
| Stddev | .0028872 | .0001104 | .0012239 | .2963 | .0005103 | .0007583 |
| %RSD | .6422402 | .1828704 | .3158700 | .2861390 | .7798264 | .3279124 |
| #1 | .4515735 | .0604703 | .3882988 | 103.6825 | .0659281 | .2309078 |
| #2 | .4508242 | .0603628 | .3860645 | 103.7620 | .0654846 | .2307516 |
| #3 | .4462404 | .0602495 | .3880475 | 103.2137 | .0649102 | .2321362 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.813605 | 338.0205 | F 71.91597 | 52.12029 | .1467528 | .0643327 |
| Stddev | .004015 | .7977 | .42443 | .12846 | .0005878 | .0012311 |
| %RSD | .0513834 | .2359923 | .5901747 | .2464645 | .4005086 | 1.913645 |
| #1 | 7.809561 | 338.1365 | 72.16971 | 52.06047 | .1472764 | .0642623 |
| #2 | 7.813664 | 338.7538 | 71.42598 | 52.26775 | .1461170 | .0655975 |
| #3 | 7.817590 | 337.1711 | 72.15221 | 52.03265 | .1468650 | .0631383 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5976848 | .0957647 | F 41.15702 | 6.297168 | 6.908201 | 1.357916 |
| Stddev | .1177057 | .0018088 | .44936 | .084821 | .023728 | .000581 |
| %RSD | 19.69361 | 1.888785 | 1.091808 | 1.346971 | .3434803 | .0427768 |
| #1 | .4918580 | .0938022 | 40.90961 | 6.338852 | 6.933573 | 1.358245 |
| #2 | .7244572 | .0973649 | 41.67571 | 6.353083 | 6.886558 | 1.358258 |
| #3 | .5767391 | .0961271 | 40.88574 | 6.199571 | 6.904471 | 1.357245 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-15 Acquired: 1/12/2025 12:02:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D68 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0485962 | F 85.46251 | F 27.55187 | .0121851 | 1.191718 | .0967405 |
| Stddev | .0003492 | .16875 | .06214 | .0012877 | .007095 | .0007706 |
| %RSD | .7185483 | .1974579 | .2255539 | 10.56750 | .5953966 | .7965823 |
| #1 | .0482781 | 85.59034 | 27.61732 | .0131099 | 1.196870 | .0973515 |
| #2 | .0489699 | 85.27123 | 27.54463 | .0127311 | 1.194658 | .0969952 |
| #3 | .0485407 | 85.52596 | 27.49367 | .0107145 | 1.183625 | .0958747 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .7592237 |
| Stddev | .0021345 |
| %RSD | .2811481 |
| #1 | .7597540 |
| #2 | .7610430 |
| #3 | .7568739 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2964.735 | 69508.90 | 10016.94 | 3266.869 | 3336.186 |
| Stddev | 10.112 | 92.15 | 10.66 | 15.935 | 11.138 |
| %RSD | .3410883 | .1325769 | .1064224 | .4877661 | .3338627 |
| #1 | 2959.512 | 69560.64 | 10017.01 | 3272.752 | 3328.277 |
| #2 | 2976.391 | 69402.51 | 10027.57 | 3248.829 | 3348.924 |
| #3 | 2958.302 | 69563.56 | 10006.25 | 3279.026 | 3331.358 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-16 Acquired: 1/12/2025 12:07:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D71 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6337564** | **-.022379** | **23.61509** | **.0938240** | **.0500416** | **35.07287** |
| Stddev | .0032122 | .001839 | .00551 | .0030820 | .0003812 | .07806 |
| %RSD | .5068461 | 8.217835 | .0233397 | 3.284927 | .7616808 | .2225526 |
| #1 | .6306544 | -.020690 | 23.61326 | .0973209 | .0504014 | 35.13434 |
| #2 | .6335464 | -.022108 | 23.61072 | .0926480 | .0496422 | 35.09923 |
| #3 | .6370684 | -.024338 | 23.62128 | .0915031 | .0500811 | 34.98505 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.224731** | **.0062501** | **.1120636** | **86.25944** | **.0539423** | **.0800295** |
| Stddev | .001619 | .0001575 | .0001388 | .14841 | .0006565 | .0002295 |
| %RSD | .1321860 | 2.519649 | .1238988 | .1720510 | 1.217011 | .2868034 |
| #1 | 1.225634 | .0061654 | .1122052 | 86.28832 | .0537578 | .0801103 |
| #2 | 1.225697 | .0061531 | .1120579 | 86.39129 | .0546713 | .0797705 |
| #3 | 1.222862 | .0064318 | .1119277 | 86.09872 | .0533978 | .0802077 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.081840** | **444.7530** | F **34.62042** | **16.53600** | **.0732012** | **.1503946** |
| Stddev | .019197 | 6.2461 | .35240 | .00960 | .0008586 | .0012383 |
| %RSD | .2710706 | 1.404391 | 1.017902 | .0580633 | 1.172967 | .8233773 |
| #1 | 7.095809 | 437.5827 | 34.21473 | 16.53242 | .0722251 | .1489724 |
| #2 | 7.059950 | 449.0111 | 34.85057 | 16.54687 | .0738396 | .1512340 |
| #3 | 7.089760 | 447.6653 | 34.79597 | 16.52869 | .0735389 | .1509774 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6201822** | **.0413476** | **23.34234** | **7.583882** | **6.197371** | **1.793157** |
| Stddev | .2350560 | .0011926 | .02246 | .030318 | .009795 | .030180 |
| %RSD | 37.90113 | 2.884365 | .0962269 | .3997676 | .1580473 | 1.683092 |
| #1 | .7316731 | .0424492 | 23.33123 | 7.602867 | 6.186800 | 1.758541 |
| #2 | .3501270 | .0400811 | 23.32760 | 7.599862 | 6.199172 | 1.813949 |
| #3 | .7787465 | .0415125 | 23.36819 | 7.548917 | 6.206140 | 1.806981 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-16 Acquired: 1/12/2025 12:07:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D71 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2529597 | F 297.3196 | F 15.15892 | .0098694 | .6380974 | .0605959 |
| Stddev | .0001452 | .1720 | .02992 | .0003195 | .0006775 | .0016260 |
| %RSD | .0573795 | .0578381 | .1973460 | 3.236858 | .1061676 | 2.683343 |
| #1 | .2528684 | 297.1241 | 15.12667 | .0099936 | .6377345 | .0609815 |
| #2 | .2528837 | 297.3876 | 15.16434 | .0095066 | .6376786 | .0619944 |
| #3 | .2531271 | 297.4472 | 15.18576 | .0101082 | .6388789 | .0588118 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1676912 |
| Stddev | .0007139 |
| %RSD | .4257214 |
| #1 | .1684678 |
| #2 | .1675423 |
| #3 | .1670634 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2655.672 | 62802.88 | 8926.274 | 2955.892 | 3470.505 |
| Stddev | 2.264 | 244.00 | 19.219 | 10.851 | 5.128 |
| %RSD | .0852651 | .3885206 | .2153047 | .3670921 | .1477668 |
| #1 | 2653.092 | 62904.89 | 8948.152 | 2956.333 | 3464.597 |
| #2 | 2657.327 | 62524.43 | 8912.114 | 2944.828 | 3473.806 |
| #3 | 2656.599 | 62979.32 | 8918.556 | 2966.516 | 3473.111 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17 Acquired: 1/12/2025 12:11:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6060685** | **-.019502** | **25.00393** | **.0782695** | **.0588009** | **21.17850** |
| Stddev | .0030906 | .002161 | .03935 | .0038755 | .0007786 | .11153 |
| %RSD | .5099386 | 11.08057 | .1573855 | 4.951463 | 1.324063 | .5266346 |
| #1 | .6044554 | -.021485 | 25.01545 | .0745948 | .0590484 | 21.05765 |
| #2 | .6041182 | -.019822 | 24.96010 | .0778950 | .0579287 | 21.20037 |
| #3 | .6096319 | -.017199 | 25.03624 | .0823186 | .0594257 | 21.27748 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.143240** | **.0060856** | **.0924685** | **86.99135** | **.0429676** | **.0523909** |
| Stddev | .003212 | .0002916 | .0002044 | .27849 | .0001073 | .0002575 |
| %RSD | .2809906 | 4.791802 | .2210018 | .3201405 | .2497728 | .4914500 |
| #1 | 1.139865 | .0063884 | .0926903 | 86.69388 | .0430273 | .0526429 |
| #2 | 1.143597 | .0058067 | .0922878 | 87.03430 | .0430317 | .0524016 |
| #3 | 1.146260 | .0060618 | .0924274 | 87.24589 | .0428437 | .0521282 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.785468** | **373.7609** | **27.73081** | **10.71113** | **.0541733** | **.1591661** |
| Stddev | .006561 | 1.6771 | .04937 | .05964 | .0004930 | .0005334 |
| %RSD | .1370992 | .4487083 | .1780346 | .5568170 | .9100516 | .3351412 |
| #1 | 4.784136 | 372.1061 | 27.68107 | 10.69401 | .0547332 | .1596794 |
| #2 | 4.792592 | 373.7172 | 27.77980 | 10.66192 | .0538040 | .1592043 |
| #3 | 4.779675 | 375.4595 | 27.73158 | 10.77746 | .0539828 | .1586146 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7295100** | **.0379017** | **20.68856** | **7.349074** | **5.764888** | **1.501281** |
| Stddev | .0830219 | .0012380 | .02455 | .048833 | .000626 | .013752 |
| %RSD | 11.38050 | 3.266271 | .1186752 | .6644840 | .0108667 | .9159860 |
| #1 | .6381920 | .0384285 | 20.69334 | 7.292880 | 5.765183 | 1.487168 |
| #2 | .7499026 | .0364874 | 20.66196 | 7.381222 | 5.765312 | 1.502037 |
| #3 | .8004355 | .0387891 | 20.71036 | 7.373119 | 5.764169 | 1.514640 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17 Acquired: 1/12/2025 12:11:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2450170 | F 235.6601 | F 12.95967 | .0079716 | .5779275 | .0346770 |
| Stddev | .0004561 | .4750 | .09167 | .0005983 | .0037469 | .0006365 |
| %RSD | .1861558 | .2015633 | .7073331 | 7.505081 | .6483403 | 1.835469 |
| #1 | .2453264 | 235.8059 | 13.05119 | .0083141 | .5813088 | .0352550 |
| #2 | .2452314 | 235.1292 | 12.95998 | .0083198 | .5785744 | .0339949 |
| #3 | .2444932 | 236.0451 | 12.86785 | .0072807 | .5738991 | .0347811 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1764840 |
| Stddev | .0010452 |
| %RSD | .5922139 |
| #1 | .1753898 |
| #2 | .1765902 |
| #3 | .1774720 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2549.185 | 61862.31 | 8608.637 | 2900.528 | 3412.362 |
| Stddev | 2.804 | 29.22 | 58.906 | 4.584 | 4.638 |
| %RSD | .1099931 | .0472318 | .6842644 | .1580540 | .1359218 |
| #1 | 2548.029 | 61889.23 | 8546.466 | 2895.333 | 3407.063 |
| #2 | 2552.382 | 61866.47 | 8615.827 | 2902.244 | 3415.685 |
| #3 | 2547.144 | 61831.24 | 8663.617 | 2904.006 | 3414.338 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-18 Acquired: 1/12/2025 12:15:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6025531** | **-.016803** | **24.78173** | **.0760972** | **.0613662** | **21.00068** |
| Stddev | .0051732 | .000799 | .04675 | .0021657 | .0006234 | .14289 |
| %RSD | .8585467 | 4.754871 | .1886584 | 2.845932 | 1.015925 | .6804067 |
| #1 | .5991607 | -.017720 | 24.78287 | .0748342 | .0619195 | 20.97803 |
| #2 | .5999913 | -.016429 | 24.73441 | .0785978 | .0614885 | 21.15354 |
| #3 | .6085073 | -.016260 | 24.82790 | .0748595 | .0606908 | 20.87046 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.139422** | **.0058743** | **.0915591** | **86.21568** | **.0424434** | **.0516969** |
| Stddev | .007347 | .0000519 | .0004630 | .39813 | .0002644 | .0000829 |
| %RSD | .6448442 | .8828546 | .5056637 | .4617808 | .6229190 | .1602872 |
| #1 | 1.142532 | .0058264 | .0914301 | 86.31321 | .0421507 | .0517864 |
| #2 | 1.144703 | .0058671 | .0911742 | 86.55599 | .0425147 | .0516229 |
| #3 | 1.131031 | .0059294 | .0920729 | 85.77786 | .0426649 | .0516813 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.748396** | **370.7484** | **27.36382** | **10.56487** | **.0535904** | **.1567042** |
| Stddev | .006085 | 1.9932 | .06089 | .04713 | .0005135 | .0012225 |
| %RSD | .1281573 | .5376079 | .2225132 | .4460629 | .9581452 | .7801121 |
| #1 | 4.746766 | 370.7005 | 27.43362 | 10.57757 | .0535614 | .1571947 |
| #2 | 4.755130 | 372.7652 | 27.33623 | 10.60434 | .0530921 | .1576052 |
| #3 | 4.743291 | 368.7797 | 27.32161 | 10.51269 | .0541178 | .1553126 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5281866** | **.0353600** | **20.64982** | **7.283288** | **5.662027** | **1.498217** |
| Stddev | .1448646 | .0022550 | .07997 | .109971 | .023519 | .009193 |
| %RSD | 27.42678 | 6.377355 | .3872611 | 1.509905 | .4153734 | .6135831 |
| #1 | .5296813 | .0338178 | 20.64244 | 7.349613 | 5.657040 | 1.496726 |
| #2 | .3825804 | .0343140 | 20.73323 | 7.343902 | 5.641403 | 1.508064 |
| #3 | .6722980 | .0379480 | 20.57380 | 7.156347 | 5.687640 | 1.489861 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-18 Acquired: 1/12/2025 12:15:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2451227 | F 230.9329 | F 12.83749 | .0073852 | .5669793 | .0331280 |
| Stddev | .0017842 | 1.2317 | .02025 | .0006431 | .0028973 | .0006384 |
| %RSD | .7278809 | .5333621 | .1577174 | 8.708596 | .5110036 | 1.927025 |
| #1 | .2437039 | 230.7887 | 12.84267 | .0074868 | .5693223 | .0327743 |
| #2 | .2445384 | 229.7796 | 12.85464 | .0079714 | .5678759 | .0327446 |
| #3 | .2471258 | 232.2303 | 12.81516 | .0066972 | .5637397 | .0338649 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1788522 |
| Stddev | .0011490 |
| %RSD | .6424261 |
| #1 | .1785022 |
| #2 | .1801355 |
| #3 | .1779190 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2575.050 | 62330.60 | 8723.201 | 2906.103 | 3462.924 |
| Stddev | 8.063 | 227.54 | 3.280 | 16.904 | 8.118 |
| %RSD | .3131066 | .3650508 | .0376064 | .5816579 | .2344120 |
| #1 | 2581.511 | 62220.82 | 8719.417 | 2903.018 | 3469.139 |
| #2 | 2577.625 | 62178.76 | 8724.930 | 2890.954 | 3465.893 |
| #3 | 2566.015 | 62592.21 | 8725.254 | 2924.336 | 3453.740 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17LX5 Acquired: 1/12/2025 12:19:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1181299** | **-.004773** | **5.077038** | **.0166107** | **.0108941** | **4.254944** |
| Stddev | .0014806 | .000864 | .012074 | .0008670 | .0012936 | .066345 |
| %RSD | 1.253346 | 18.11118 | .2378174 | 5.219453 | 11.87472 | 1.559253 |
| #1 | .1167761 | -.003850 | 5.069243 | .0176030 | .0115148 | 4.181328 |
| #2 | .1179026 | -.004904 | 5.070925 | .0162295 | .0117603 | 4.310115 |
| #3 | .1197110 | -.005564 | 5.090946 | .0159997 | .0094070 | 4.273389 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2260518** | **.0012865** | **.0185855** | **17.73477** | **.0088930** | **.0106211** |
| Stddev | .0040123 | .0000585 | .0000665 | .29787 | .0002216 | .0000191 |
| %RSD | 1.774936 | 4.548149 | .3578684 | 1.679577 | 2.492046 | .1796056 |
| #1 | .2215257 | .0013173 | .0186509 | 17.41007 | .0088374 | .0106255 |
| #2 | .2291716 | .0013232 | .0185179 | 17.99537 | .0091371 | .0106003 |
| #3 | .2274581 | .0012191 | .0185878 | 17.79888 | .0087045 | .0106377 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9845632** | **76.90389** | **5.680701** | **2.195015** | **.0111598** | **.0322923** |
| Stddev | .0105629 | 1.21775 | .089403 | .011150 | .0001588 | .0005110 |
| %RSD | 1.072854 | 1.583473 | 1.573808 | .5079627 | 1.422726 | 1.582460 |
| #1 | .9727714 | 75.51783 | 5.584280 | 2.185689 | .0112896 | .0317045 |
| #2 | .9931593 | 77.80199 | 5.760852 | 2.191991 | .0112070 | .0326304 |
| #3 | .9877587 | 77.39184 | 5.696972 | 2.207365 | .0109828 | .0325421 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3111392** | **.0050510** | **4.858415** | **1.543274** | **1.141192** | **.3054690** |
| Stddev | .2319554 | .0013035 | .093211 | .085706 | .005733 | .0057181 |
| %RSD | 74.55037 | 25.80636 | 1.918550 | 5.553529 | .5023397 | 1.871907 |
| #1 | .0871956 | .0049595 | 4.752332 | 1.444674 | 1.136619 | .2988839 |
| #2 | .2958700 | .0037956 | 4.927212 | 1.585219 | 1.139333 | .3091789 |
| #3 | .5503520 | .0063977 | 4.895699 | 1.599930 | 1.147623 | .3083442 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-17LX5 Acquired: 1/12/2025 12:19:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74L Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0494713 | F 47.30822 | 2.665024 | .0001386 | .1183259 | .0052508 |
| Stddev | .0002317 | .14472 | .008838 | .0007980 | .0003197 | .0016929 |
| %RSD | .4683266 | .3059150 | .3316411 | 575.7635 | .2701852 | 32.24192 |
| #1 | .0492274 | 47.21923 | 2.654833 | -.000565 | .1180271 | .0072004 |
| #2 | .0496884 | 47.23021 | 2.670580 | -.000026 | .1186631 | .0043999 |
| #3 | .0494983 | 47.47521 | 2.669661 | .001006 | .1182875 | .0041520 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0358544 |
| Stddev | .0004405 |
| %RSD | 1.228449 |
| #1 | .0353492 |
| #2 | .0361575 |
| #3 | .0360566 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2620.663 | 61981.46 | 8469.985 | 2929.391 | 3636.659 |
| Stddev | 1.697 | 853.32 | 39.360 | 33.997 | 4.236 |
| %RSD | .0647729 | 1.376734 | .4647011 | 1.160551 | .1164864 |
| #1 | 2622.612 | 62966.66 | 8515.070 | 2968.641 | 3638.585 |
| #2 | 2619.511 | 61475.34 | 8452.413 | 2909.154 | 3639.589 |
| #3 | 2619.865 | 61502.38 | 8442.471 | 2910.377 | 3631.801 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-19 Acquired: 1/12/2025 12:23:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6534412** | **.0783348** | **24.31051** | **.2357976** | **.2126826** | **23.80149** |
| Stddev | .0048312 | .0028226 | .18351 | .0024512 | .0050718 | .08772 |
| %RSD | .7393499 | 3.603215 | .7548409 | 1.039542 | 2.384668 | .3685608 |
| #1 | .6511124 | .0785691 | 24.24263 | .2379844 | .2110181 | 23.70199 |
| #2 | .6502154 | .0754024 | 24.17061 | .2331479 | .2086521 | 23.83480 |
| #3 | .6589957 | .0810329 | 24.51828 | .2362605 | .2183774 | 23.86768 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.585883** | **.0991952** | **.1800447** | **85.22374** | **.4321743** | **.9621546** |
| Stddev | .032865 | .0002539 | .0012841 | .49502 | .0026952 | .0067441 |
| %RSD | .7166491 | .2560000 | .7132087 | .5808443 | .6236313 | .7009371 |
| #1 | 4.552185 | .0989140 | .1795665 | 84.65912 | .4290669 | .9582464 |
| #2 | 4.617846 | .0992638 | .1790683 | 85.58315 | .4338760 | .9582753 |
| #3 | 4.587618 | .0994078 | .1814993 | 85.42895 | .4335800 | .9699420 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.124478** | **366.5397** | **28.02378** | **10.40744** | **.9700648** | **.2238385** |
| Stddev | .007467 | 1.9420 | .18301 | .05079 | .0063192 | .0012579 |
| %RSD | .1457137 | .5298320 | .6530680 | .4880111 | .6514237 | .5619834 |
| #1 | 5.119933 | 364.3073 | 28.01091 | 10.35007 | .9679458 | .2223899 |
| #2 | 5.120406 | 367.4725 | 28.21290 | 10.42559 | .9650773 | .2246556 |
| #3 | 5.133096 | 367.8395 | 27.84755 | 10.44666 | .9771712 | .2244700 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6515945** | **.9805087** | **21.19589** | **7.202171** | **5.617937** | **1.479104** |
| Stddev | .3027189 | .0046460 | .08960 | .046443 | .044376 | .007503 |
| %RSD | 46.45817 | .4738326 | .4227424 | .6448432 | .7899063 | .5072713 |
| #1 | .8104497 | .9751603 | 21.10420 | 7.148658 | 5.600172 | 1.470461 |
| #2 | .8418194 | .9828206 | 21.20021 | 7.225895 | 5.585195 | 1.482907 |
| #3 | .3025144 | .9835451 | 21.28325 | 7.231961 | 5.668443 | 1.483945 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-19 Acquired: 1/12/2025 12:23:16 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D74S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2402392 | F 226.7301 | F 12.88521 | .0076128 | .5665505 | .0336911 |
| Stddev | .0023167 | 1.9373 | .06021 | .0010253 | .0029541 | .0017337 |
| %RSD | .9643484 | .8544694 | .4672927 | 13.46843 | .5214169 | 5.145973 |
| #1 | .2396437 | 226.3569 | 12.82150 | .0064709 | .5632814 | .0318433 |
| #2 | .2382784 | 225.0066 | 12.94117 | .0084545 | .5690284 | .0339477 |
| #3 | .2427956 | 228.8269 | 12.89295 | .0079132 | .5673417 | .0352822 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1733611 |
| Stddev | .0007870 |
| %RSD | .4539835 |
| #1 | .1725762 |
| #2 | .1733569 |
| #3 | .1741503 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2575.808 | 61958.10 | 8589.301 | 2877.446 | 3473.869 |
| Stddev | 20.703 | 424.06 | 32.980 | 16.631 | 24.845 |
| %RSD | .8037338 | .6844377 | .3839664 | .5779711 | .7151840 |
| #1 | 2585.059 | 62446.96 | 8626.149 | 2893.836 | 3484.983 |
| #2 | 2590.271 | 61738.05 | 8579.203 | 2877.917 | 3491.217 |
| #3 | 2552.092 | 61689.29 | 8562.550 | 2860.585 | 3445.408 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5393-01RE Acquired: 1/12/2025 12:27:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D28 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0124737** | **-.025409** | **.6521784** | **.0034406** | **-.002873** | **25.92797** |
| Stddev | .0007481 | .003322 | .0020548 | .0011993 | .001718 | .11106 |
| %RSD | 5.997596 | 13.07448 | .3150730 | 34.85718 | 59.80416 | .4283221 |
| #1 | .0130644 | -.021910 | .6524137 | .0033627 | -.004427 | 26.05575 |
| #2 | .0116325 | -.025798 | .6500161 | .0046769 | -.001028 | 25.87348 |
| #3 | .0127243 | -.028520 | .6541056 | .0022821 | -.003166 | 25.85469 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0621260** | **.0182259** | **.3611262** | **60.69858** | **.0183585** | **.0443928** |
| Stddev | .0009463 | .0000441 | .0003419 | .24413 | .0001566 | .0002385 |
| %RSD | 1.523278 | .2421561 | .0946638 | .4021953 | .8531234 | .5371970 |
| #1 | .0630070 | .0182350 | .3611638 | 60.97707 | .0183496 | .0442382 |
| #2 | .0611256 | .0181779 | .3614477 | 60.59715 | .0185195 | .0442728 |
| #3 | .0622454 | .0182647 | .3607671 | 60.52153 | .0182066 | .0446674 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.80942** | **15.13588** | F **102.4695** | **6.685139** | **.0479468** | **.0401067** |
| Stddev | .01291 | .06449 | .4613 | .022568 | .0004694 | .0000970 |
| %RSD | .0816869 | .4260748 | .4501578 | .3375870 | .9788900 | .2417657 |
| #1 | 15.80188 | 15.20893 | 102.8118 | 6.703231 | .0474267 | .0401384 |
| #2 | 15.82433 | 15.11192 | 101.9450 | 6.659850 | .0480750 | .0399978 |
| #3 | 15.80205 | 15.08681 | 102.6519 | 6.692335 | .0483388 | .0401838 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.996212** | **-.025082** | F **40.27434** | **2.213284** | **6.231244** | **.2708965** |
| Stddev | .190946 | .000629 | .13457 | .005533 | .014642 | .0019305 |
| %RSD | 6.372903 | 2.506213 | .3341235 | .2500011 | .2349695 | .7126305 |
| #1 | 3.216697 | -.024613 | 40.39725 | 2.214753 | 6.244598 | .2707060 |
| #2 | 2.886172 | -.024837 | 40.29521 | 2.217934 | 6.233547 | .2729151 |
| #3 | 2.885767 | -.025797 | 40.13056 | 2.207164 | 6.215588 | .2690683 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5393-01RE Acquired: 1/12/2025 12:27:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D28 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.020496 | F 341.9221 | F 27.56583 | -.002300 | -.001541 | .0319751 |
| Stddev | .000317 | .2820 | .06981 | .000421 | .000434 | .0006799 |
| %RSD | 1.544383 | .0824760 | .2532649 | 18.29728 | 28.18017 | 2.126453 |
| #1 | -.020744 | 341.9354 | 27.62329 | -.002275 | -.001125 | .0313889 |
| #2 | -.020139 | 342.1972 | 27.58606 | -.002732 | -.001506 | .0318158 |
| #3 | -.020605 | 341.6337 | 27.48813 | -.001891 | -.001991 | .0327205 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1680893 |
| Stddev | .0006636 |
| %RSD | .3947971 |
| #1 | .1687806 |
| #2 | .1680299 |
| #3 | .1674573 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3495.585 | 83233.84 | 11171.11 | 3917.431 | 3592.996 |
| Stddev | 11.105 | 199.53 | 19.83 | 17.296 | 12.489 |
| %RSD | .3177005 | .2397216 | .1775148 | .4415096 | .3475921 |
| #1 | 3507.615 | 83009.99 | 11190.39 | 3934.975 | 3606.782 |
| #2 | 3493.415 | 83298.56 | 11150.77 | 3916.924 | 3589.771 |
| #3 | 3485.724 | 83392.98 | 11172.17 | 3900.394 | 3582.437 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV007 Acquired: 1/12/2025 12:37:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.681340** | **4.702981** | **23.62432** | **4.738560** | **4.621397** | **361.8504** |
| Stddev | .014954 | .006928 | .07802 | .010091 | .007705 | 5.3131 |
| %RSD | .3194469 | .1473117 | .3302673 | .2129599 | .1667216 | 1.468302 |
| #1 | 4.664451 | 4.704843 | 23.53574 | 4.727257 | 4.614467 | 365.7581 |
| #2 | 4.686673 | 4.708787 | 23.68286 | 4.741758 | 4.620030 | 363.9924 |
| #3 | 4.692898 | 4.695312 | 23.65436 | 4.746665 | 4.629694 | 355.8007 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.043763** | **.5241594** | **2.429778** | **366.2416** | **14.81949** | **2.387602** |
| Stddev | .057252 | .0028912 | .007242 | 6.1047 | .05149 | .007299 |
| %RSD | .6330598 | .5515847 | .2980682 | 1.666838 | .3474574 | .3056847 |
| #1 | 8.998262 | .5208233 | 2.421422 | 372.8621 | 14.86201 | 2.379428 |
| #2 | 9.108047 | .5259358 | 2.434247 | 365.0276 | 14.83423 | 2.393466 |
| #3 | 9.024979 | .5257191 | 2.433666 | 360.8352 | 14.76224 | 2.389912 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.14966** | **367.9136** | **13.75473** | **229.6221** | **2.388455** | **1.174349** |
| Stddev | .01887 | 2.2698 | .07769 | 1.3591 | .005526 | .003446 |
| %RSD | .1333809 | .6169442 | .5648035 | .5918726 | .2313756 | .2934684 |
| #1 | 14.15754 | 370.5188 | 13.84444 | 231.1778 | 2.382125 | 1.176816 |
| #2 | 14.12813 | 366.3628 | 13.71046 | 228.6659 | 2.390918 | 1.175819 |
| #3 | 14.16332 | 366.8591 | 13.70931 | 229.0226 | 2.392321 | 1.170411 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **372.8523** | **2.280720** | **14.34288** | **138.7214** | **4.790134** | F **5.630257** |
| Stddev | .9232 | .003667 | .04276 | .8975 | .017858 | .008834 |
| %RSD | .2475983 | .1607628 | .2981415 | .6469679 | .3728180 | .1569072 |
| #1 | 372.9263 | 2.282058 | 14.34581 | 139.7355 | 4.770135 | 5.620537 |
| #2 | 371.8944 | 2.276572 | 14.38411 | 138.0297 | 4.804488 | 5.632439 |
| #3 | 373.7363 | 2.283529 | 14.29873 | 138.3989 | 4.795779 | 5.637796 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV007 Acquired: 1/12/2025 12:37:31 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.505594** | **4.864845** | **4.540940** | **4.725981** | **4.557539** | F **4.302113** |
| Stddev | .009979 | .010679 | .013912 | .015035 | .009532 | .029885 |
| %RSD | .2214723 | .2195167 | .3063710 | .3181374 | .2091499 | .6946615 |
| #1 | 4.494073 | 4.852515 | 4.543317 | 4.708881 | 4.552778 | 4.336621 |
| #2 | 4.511230 | 4.870912 | 4.525993 | 4.737127 | 4.551325 | 4.284891 |
| #3 | 4.511480 | 4.871110 | 4.553511 | 4.731934 | 4.568514 | 4.284826 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.807493** |
| Stddev | .019640 |
| %RSD | .4085281 |
| #1 | 4.798019 |
| #2 | 4.794386 |
| #3 | 4.830074 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2056.901** | **52299.92** | **7924.176** | **2478.354** | **2760.056** |
| Stddev | 7.924 | 156.97 | 29.114 | 3.189 | 12.507 |
| %RSD | .3852304 | .3001356 | .3674111 | .1286560 | .4531520 |
| #1 | 2066.019 | 52122.92 | 7956.471 | 2482.029 | 2774.196 |
| #2 | 2051.685 | 52354.60 | 7916.117 | 2476.714 | 2750.440 |
| #3 | 2052.999 | 52422.24 | 7899.940 | 2476.320 | 2755.531 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB007 Acquired: 1/12/2025 12:41:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000412** | **.0003642** | **.0009637** | **.0007206** | **-.000126** | **-.000829** | **-.001800** |
| Stddev | .001383 | .0004362 | .0021567 | .0030346 | .001658 | .003944 | .000277 |
| %RSD | 335.5975 | 119.7592 | 223.7858 | 421.1239 | 1317.993 | 475.9967 | 15.40060 |
| #1 | -.000835 | .0002824 | .0005706 | -.001266 | -.002040 | -.002947 | -.001485 |
| #2 | -.001535 | .0008354 | -.000969 | .004214 | .000856 | -.003261 | -.001904 |
| #3 | .001133 | -.000025 | .003290 | -.000786 | .000807 | .003722 | -.002009 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000112** | **.0000683** | **.0147227** | **.0002196** | **.0001706** | **.0019320** | **.0164638** |
| Stddev | .0000377 | .0000988 | .0038956 | .0001638 | .0002504 | .0007218 | .0050329 |
| %RSD | 336.4660 | 144.4895 | 26.45967 | 74.57360 | 146.7764 | 37.36280 | 30.56925 |
| #1 | -.000004 | .0001519 | .0102246 | .0004087 | -.000001 | .0011011 | .0193919 |
| #2 | .000054 | .0000938 | .0169442 | .0001266 | .000055 | .0022903 | .0106524 |
| #3 | -.000016 | -.000041 | .0169994 | .0001236 | .000458 | .0024045 | .0193470 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0019563** | **.0195505** | **-.000459** | **.0003932** | **.0636548** | **-.002874** | **.0018697** |
| Stddev | .0003508 | .0112843 | .000406 | .0001777 | .1784827 | .001072 | .0003238 |
| %RSD | 17.92979 | 57.71893 | 88.40554 | 45.20182 | 280.3914 | 37.29006 | 17.31939 |
| #1 | .0019134 | .0206175 | -.000540 | .0003683 | .2690926 | -.001990 | .0022348 |
| #2 | .0016290 | .0077705 | -.000019 | .0002292 | -.053297 | -.004066 | .0016173 |
| #3 | .0023265 | .0302634 | -.000817 | .0005820 | -.024832 | -.002566 | .0017569 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1241053** | **-.001930** | **.0030312** | **.0004274** | **.0161051** | **.0075308** | **-.000585** |
| Stddev | .0562832 | .001235 | .0006723 | .0000711 | .0015753 | .0148823 | .000121 |
| %RSD | 45.35118 | 64.01572 | 22.18061 | 16.64383 | 9.781513 | 197.6180 | 20.65114 |
| #1 | .0647354 | -.000677 | .0037310 | .0003604 | .0178935 | .0186883 | -.000605 |
| #2 | .1308946 | -.003147 | .0029725 | .0004197 | .0154986 | -.009367 | -.000695 |
| #3 | .1766859 | -.001965 | .0023902 | .0005020 | .0149231 | .013271 | -.000456 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB007 Acquired: 1/12/2025 12:41:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB007 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0005082 | .0007651 | .0001078 |
| Stddev | .0004867 | .0012012 | .0000654 |
| %RSD | 95.76775 | 156.9973 | 60.61699 |
| | | | |
| #1 | .0001029 | .0011096 | .0001702 |
| #2 | .0003737 | -.000571 | .0000398 |
| #3 | .0010480 | .001756 | .0001135 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2588.279 | 61524.99 | 8207.262 | 2918.164 | 3620.339 |
| Stddev | 4.519 | 243.00 | 64.471 | 5.255 | 1.213 |
| %RSD | .1745912 | .3949601 | .7855409 | .1800726 | .0335035 |
| | | | | | |
| #1 | 2593.494 | 61648.22 | 8146.996 | 2919.852 | 3620.986 |
| #2 | 2585.523 | 61245.06 | 8199.547 | 2912.273 | 3621.091 |
| #3 | 2585.820 | 61681.69 | 8275.244 | 2922.368 | 3618.939 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-01 Acquired: 1/12/2025 12:45:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0858426** | **-.001910** | **2.338664** | **.0258770** | **-.000604** | **53.67109** |
| Stddev | .0005613 | .001281 | .003531 | .0011037 | .000606 | .37372 |
| %RSD | .6538720 | 67.06976 | .1509792 | 4.265301 | 100.3772 | .6963126 |
| #1 | .0862340 | -.000726 | 2.338007 | .0256454 | -.000000 | 53.50373 |
| #2 | .0851995 | -.003270 | 2.342477 | .0249075 | -.000599 | 54.09924 |
| #3 | .0860942 | -.001734 | 2.335507 | .0270782 | -.001212 | 53.41029 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.246202** | **.0042513** | **.0084308** | **80.81167** | **.2273632** | **.0636475** |
| Stddev | .007184 | .0001310 | .0000659 | .43021 | .0016645 | .0000986 |
| %RSD | .5764765 | 3.081920 | .7813643 | .5323588 | .7320961 | .1549138 |
| #1 | 1.242539 | .0042944 | .0084412 | 80.61801 | .2257851 | .0637597 |
| #2 | 1.254479 | .0041042 | .0083603 | 81.30467 | .2291025 | .0635745 |
| #3 | 1.241587 | .0043554 | .0084908 | 80.51233 | .2272020 | .0636083 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3052597** | **118.5961** | **6.915146** | **24.65512** | **.1495793** | **-.008392** |
| Stddev | .0010875 | .6844 | .039003 | .20384 | .0001516 | .000288 |
| %RSD | .3562427 | .5770962 | .5640282 | .8267468 | .1013653 | 3.432553 |
| #1 | .3042674 | 118.2964 | 6.887158 | 24.52478 | .1494156 | -.008242 |
| #2 | .3064222 | 119.3792 | 6.959698 | 24.89002 | .1497150 | -.008724 |
| #3 | .3050895 | 118.1126 | 6.898583 | 24.55057 | .1496073 | -.008209 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5118036** | **.1193051** | **1.739254** | **8.865223** | F **15.75976** | **.5291959** |
| Stddev | .0470241 | .0028112 | .013235 | .073597 | .04218 | .0032696 |
| %RSD | 9.187914 | 2.356304 | .7609373 | .8301736 | .2676417 | .6178392 |
| #1 | .4602104 | .1185258 | 1.724655 | 8.874988 | 15.78517 | .5272924 |
| #2 | .5522585 | .1224236 | 1.742639 | 8.933450 | 15.78305 | .5329712 |
| #3 | .5229420 | .1169657 | 1.750467 | 8.787232 | 15.71107 | .5273240 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-01 Acquired: 1/12/2025 12:45:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0054407 | 4.451021 | F 20.07474 | .0593138 | .8111964 | .0826947 |
| Stddev | .0002091 | .014496 | .06273 | .0003491 | .0024019 | .0006276 |
| %RSD | 3.843454 | .3256724 | .3124740 | .5885208 | .2960956 | .7589400 |
| #1 | .0055279 | 4.467682 | 20.01289 | .0590138 | .8122280 | .0822960 |
| #2 | .0055921 | 4.444080 | 20.07302 | .0596969 | .8129102 | .0823700 |
| #3 | .0052021 | 4.441301 | 20.13831 | .0592306 | .8084510 | .0834182 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1740950 |
| Stddev | .0009498 |
| %RSD | .5455720 |
| #1 | .1737887 |
| #2 | .1751601 |
| #3 | .1733361 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3104.448 | 72498.28 | 10230.31 | 3419.008 | 3487.820 |
| Stddev | 4.731 | 327.99 | 17.25 | 15.142 | 1.136 |
| %RSD | .1524059 | .4524117 | .1686367 | .4428750 | .0325568 |
| #1 | 3101.797 | 72736.17 | 10222.23 | 3435.928 | 3486.933 |
| #2 | 3109.910 | 72124.12 | 10250.13 | 3406.731 | 3487.428 |
| #3 | 3101.635 | 72634.54 | 10218.59 | 3414.366 | 3489.100 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-02 Acquired: 1/12/2025 12:49:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1117436 | -.002434 | 2.550161 | .0270893 | -.000495 | 58.64223 |
| Stddev | .0008143 | .001498 | .002048 | .0007337 | .001328 | .15630 |
| %RSD | .7287451 | 61.52974 | .0803213 | 2.708494 | 268.1727 | .2665262 |
| #1 | .1114530 | -.001091 | 2.547804 | .0273977 | .000676 | 58.50419 |
| #2 | .1126633 | -.004049 | 2.551178 | .0262518 | -.000224 | 58.61057 |
| #3 | .1111144 | -.002162 | 2.551503 | .0276185 | -.001938 | 58.81193 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.501779 | .0044575 | .0095961 | 90.09525 | .2607889 | .0695486 |
| Stddev | .005536 | .0001217 | .0001533 | .36002 | .0009375 | .0005685 |
| %RSD | .3686308 | 2.730186 | 1.597917 | .3996024 | .3594819 | .8173993 |
| #1 | 1.501599 | .0044847 | .0097272 | 89.83716 | .2608983 | .0701911 |
| #2 | 1.496334 | .0045634 | .0096336 | 89.94205 | .2598015 | .0693439 |
| #3 | 1.507402 | .0043245 | .0094275 | 90.50653 | .2616669 | .0691109 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3513543 | 129.7798 | 7.588087 | 27.70032 | .1746221 | -.009290 |
| Stddev | .0011896 | .4258 | .024805 | .15711 | .0010030 | .000374 |
| %RSD | .3385832 | .3280995 | .3268956 | .5671616 | .5743958 | 4.021258 |
| #1 | .3499826 | 129.3627 | 7.571423 | 27.55861 | .1734756 | -.009317 |
| #2 | .3519765 | 129.7629 | 7.576244 | 27.67308 | .1753374 | -.008904 |
| #3 | .3521038 | 130.2138 | 7.616594 | 27.86926 | .1750533 | -.009650 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4603606 | .1282546 | 1.985676 | 9.738067 | F 18.09763 | .5821791 |
| Stddev | .0917614 | .0018879 | .001317 | .034883 | .00569 | .0016909 |
| %RSD | 19.93250 | 1.471965 | .0663228 | .3582162 | .0314174 | .2904418 |
| #1 | .4849754 | .1265441 | 1.984156 | 9.697933 | 18.09177 | .5803591 |
| #2 | .3588022 | .1279395 | 1.986466 | 9.755173 | 18.09798 | .5824768 |
| #3 | .5373041 | .1302802 | 1.986407 | 9.761097 | 18.10313 | .5837013 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-02 Acquired: 1/12/2025 12:49:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0049955 | 4.416854 | F 19.82705 | .0738521 | .8718831 | .0910271 |
| Stddev | .0001811 | .000847 | .16291 | .0018498 | .0066686 | .0007150 |
| %RSD | 3.625990 | .0191760 | .8216302 | 2.504669 | .7648511 | .7855121 |
| #1 | .0048439 | 4.416397 | 19.64642 | .0724773 | .8643156 | .0906449 |
| #2 | .0051962 | 4.416334 | 19.87193 | .0759551 | .8744342 | .0905844 |
| #3 | .0049466 | 4.417831 | 19.96282 | .0731238 | .8768996 | .0918520 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1942838 |
| Stddev | .0007016 |
| %RSD | .3611218 |
| #1 | .1934993 |
| #2 | .1945009 |
| #3 | .1948512 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3078.178 | 71827.75 | 10302.86 | 3390.309 | 3403.069 |
| Stddev | .825 | 21.24 | 63.48 | 11.049 | 2.557 |
| %RSD | .0267962 | .0295749 | .6161404 | .3258923 | .0751340 |
| #1 | 3077.261 | 71812.25 | 10375.57 | 3380.073 | 3402.688 |
| #2 | 3078.414 | 71851.97 | 10258.50 | 3388.833 | 3405.795 |
| #3 | 3078.860 | 71819.04 | 10274.49 | 3402.022 | 3400.724 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-03 Acquired: 1/12/2025 12:53:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1257196** | **-.004118** | **2.318010** | **.0267331** | **-.002680** | **60.31993** |
| Stddev | .0016790 | .000808 | .001723 | .0024685 | .002487 | .27933 |
| %RSD | 1.335489 | 19.62836 | .0743300 | 9.234072 | 92.80784 | .4630825 |
| #1 | .1275798 | -.004930 | 2.317245 | .0278416 | -.005551 | 60.60644 |
| #2 | .1243165 | -.004111 | 2.316802 | .0284530 | -.001310 | 60.30496 |
| #3 | .1252627 | -.003314 | 2.319983 | .0239046 | -.001179 | 60.04838 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.437776** | **.0047504** | **.0093475** | **100.9475** | **.1986176** | **.0706801** |
| Stddev | .009136 | .0001184 | .0000844 | .3806 | .0015457 | .0003054 |
| %RSD | .6354531 | 2.492757 | .9033664 | .3770269 | .7782274 | .4321385 |
| #1 | 1.447139 | .0048677 | .0092522 | 101.3238 | .1992449 | .0704256 |
| #2 | 1.437304 | .0046308 | .0094130 | 100.9561 | .1968569 | .0705960 |
| #3 | 1.428885 | .0047528 | .0093773 | 100.5627 | .1997511 | .0710188 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3233449** | **134.9869** | **8.016117** | **26.53568** | **.1636634** | **-.010343** |
| Stddev | .0020970 | .4314 | .037768 | .09780 | .0003000 | .000394 |
| %RSD | .6485376 | .3195611 | .4711503 | .3685480 | .1833196 | 3.804795 |
| #1 | .3211985 | 135.3991 | 8.052266 | 26.63880 | .1635914 | -.010540 |
| #2 | .3253888 | 135.0228 | 8.019169 | 26.52398 | .1634059 | -.009890 |
| #3 | .3234474 | 134.5387 | 7.976916 | 26.44426 | .1639929 | -.010600 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6382201** | **.1338482** | **1.633449** | **9.499287** | F **17.85421** | **.5972546** |
| Stddev | .1824942 | .0022085 | .019872 | .021716 | .03387 | .0039903 |
| %RSD | 28.59425 | 1.649986 | 1.216541 | .2286069 | .1897026 | .6681111 |
| #1 | .8447492 | .1352966 | 1.638355 | 9.523237 | 17.86684 | .6007301 |
| #2 | .5711968 | .1349417 | 1.611584 | 9.480880 | 17.81584 | .5981368 |
| #3 | .4987142 | .1313063 | 1.650408 | 9.493743 | 17.87995 | .5928970 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-03 Acquired: 1/12/2025 12:53:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0044393 | 3.052659 | F 19.96655 | .0823188 | .9145249 | .0932718 |
| Stddev | .0002595 | .011896 | .04303 | .0006855 | .0023557 | .0002944 |
| %RSD | 5.844755 | .3896952 | .2155039 | .8327686 | .2575909 | .3156908 |
| #1 | .0042050 | 3.038942 | 20.00906 | .0821766 | .9171329 | .0930768 |
| #2 | .0043948 | 3.058886 | 19.92302 | .0817155 | .9138905 | .0936105 |
| #3 | .0047182 | 3.060149 | 19.96757 | .0830643 | .9125513 | .0931281 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2449676 |
| Stddev | .0013628 |
| %RSD | .5563016 |
| #1 | .2461743 |
| #2 | .2452390 |
| #3 | .2434896 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3120.382 | 72863.89 | 10278.56 | 3415.156 | 3427.655 |
| Stddev | 7.833 | 518.16 | 97.58 | 35.659 | 4.562 |
| %RSD | .2510222 | .7111360 | .9493564 | 1.044126 | .1330861 |
| #1 | 3111.340 | 72749.29 | 10290.14 | 3407.348 | 3422.598 |
| #2 | 3125.103 | 73429.76 | 10369.84 | 3454.071 | 3431.459 |
| #3 | 3124.702 | 72412.62 | 10175.71 | 3384.048 | 3428.908 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-04 Acquired: 1/12/2025 12:57:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0719720** | **-.002854** | **.6322990** | **.0223029** | **-.003414** | **54.67250** |
| Stddev | .0018587 | .000840 | .0022151 | .0009954 | .001756 | .05103 |
| %RSD | 2.582586 | 29.42518 | .3503194 | 4.463130 | 51.43253 | .0933392 |
| #1 | .0740971 | -.003106 | .6305553 | .0221490 | -.004886 | 54.64110 |
| #2 | .0711694 | -.003540 | .6347914 | .0213935 | -.003884 | 54.64502 |
| #3 | .0706493 | -.001917 | .6315503 | .0233664 | -.001471 | 54.73138 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.471786** | **.0042671** | **.0070631** | **57.43560** | **.1077114** | **.0640262** |
| Stddev | .002601 | .0000707 | .0000556 | .07267 | .0005328 | .0002400 |
| %RSD | .1767427 | 1.655833 | .7867267 | .1265323 | .4946891 | .3747806 |
| #1 | 1.468842 | .0043420 | .0071253 | 57.35404 | .1077106 | .0638247 |
| #2 | 1.473772 | .0042016 | .0070183 | 57.49349 | .1071790 | .0639623 |
| #3 | 1.472746 | .0042577 | .0070458 | 57.45927 | .1082447 | .0642917 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2433905** | **117.0115** | **10.11771** | **20.64362** | **.1380353** | **-.008984** |
| Stddev | .0010267 | .0749 | .01330 | .06521 | .0006478 | .000073 |
| %RSD | .4218144 | .0640147 | .1315013 | .3158989 | .4692897 | .8129869 |
| #1 | .2422159 | 116.9730 | 10.10361 | 20.60669 | .1372940 | -.008906 |
| #2 | .2438386 | 117.0978 | 10.13004 | 20.71892 | .1384926 | -.009051 |
| #3 | .2441169 | 116.9636 | 10.11948 | 20.60526 | .1383192 | -.008995 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5182172** | **.1094880** | **.9614690** | **7.097371** | F **13.27376** | **.5130100** |
| Stddev | .2360132 | .0021249 | .0043028 | .010135 | .01374 | .0009078 |
| %RSD | 45.54329 | 1.940779 | .4475279 | .1427945 | .1035308 | .1769545 |
| #1 | .6411418 | .1083613 | .9661803 | 7.086278 | 13.27873 | .5125347 |
| #2 | .6673953 | .1081638 | .9604795 | 7.106145 | 13.28433 | .5124385 |
| #3 | .2461145 | .1119390 | .9577470 | 7.099690 | 13.25823 | .5140567 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-04 Acquired: 1/12/2025 12:57:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0035759 | 2.651459 | F 19.06839 | .0324571 | .7084256 | .0789309 |
| Stddev | .0002852 | .005433 | .04320 | .0012014 | .0010149 | .0004760 |
| %RSD | 7.975144 | .2049161 | .2265630 | 3.701439 | .1432596 | .6030614 |
| #1 | .0037023 | 2.657728 | 19.09219 | .0335046 | .7095006 | .0783909 |
| #2 | .0032493 | 2.648108 | 19.01852 | .0311457 | .7074840 | .0792898 |
| #3 | .0037760 | 2.648541 | 19.09445 | .0327209 | .7082922 | .0791119 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1670616 |
| Stddev | .0000926 |
| %RSD | .0553965 |
| #1 | .1669625 |
| #2 | .1671457 |
| #3 | .1670766 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3108.193 | 73654.36 | 10321.40 | 3491.861 | 3428.352 |
| Stddev | 2.365 | 91.30 | 22.16 | 13.408 | 1.364 |
| %RSD | .0761033 | .1239581 | .2147311 | .3839887 | .0397880 |
| #1 | 3105.862 | 73595.82 | 10304.67 | 3478.450 | 3426.905 |
| #2 | 3110.591 | 73759.56 | 10346.54 | 3491.866 | 3429.614 |
| #3 | 3108.125 | 73607.71 | 10313.00 | 3505.267 | 3428.537 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-05 Acquired: 1/12/2025 13:01:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0652101** | **-.005324** | **.6036581** | **.0277110** | **-.001790** | **63.47488** |
| Stddev | .0018117 | .000934 | .0030793 | .0008737 | .000982 | .04134 |
| %RSD | 2.778307 | 17.54667 | .5100987 | 3.153037 | 54.85466 | .0651313 |
| #1 | .0671703 | -.004560 | .6027010 | .0285699 | -.002905 | 63.42876 |
| #2 | .0648631 | -.005046 | .6011710 | .0268231 | -.001057 | 63.48726 |
| #3 | .0635971 | -.006365 | .6071022 | .0277400 | -.001406 | 63.50861 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.483514** | **.0048059** | **.0091451** | **56.94305** | **.1126498** | **.0773449** |
| Stddev | .003165 | .0000997 | .0000815 | .13703 | .0000567 | .0004405 |
| %RSD | .2133139 | 2.075639 | .8906287 | .2406382 | .0503661 | .5694980 |
| #1 | 1.481112 | .0048260 | .0090564 | 56.85116 | .1125995 | .0778367 |
| #2 | 1.482331 | .0048940 | .0091624 | 56.87745 | .1127113 | .0772113 |
| #3 | 1.487100 | .0046976 | .0092165 | 57.10055 | .1126386 | .0769867 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2776767** | **134.6715** | **11.56229** | **22.41852** | **.1571468** | **-.009764** |
| Stddev | .0017251 | .1798 | .02613 | .02890 | .0008965 | .000293 |
| %RSD | .6212745 | .1335227 | .2260348 | .1289164 | .5704890 | 3.003099 |
| #1 | .2795894 | 134.5227 | 11.54599 | 22.38882 | .1580230 | -.009524 |
| #2 | .2762383 | 134.6205 | 11.54844 | 22.42020 | .1562312 | -.010091 |
| #3 | .2772024 | 134.8713 | 11.59243 | 22.44655 | .1571862 | -.009677 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4573088** | **.1202572** | **1.040878** | **6.698484** | F **14.07278** | **.5844754** |
| Stddev | .1788106 | .0016024 | .004216 | .020834 | .02740 | .0020778 |
| %RSD | 39.10063 | 1.332462 | .4050616 | .3110256 | .1947084 | .3555055 |
| #1 | .5849171 | .1192457 | 1.045277 | 6.700189 | 14.10425 | .5823765 |
| #2 | .5340762 | .1194212 | 1.040486 | 6.676850 | 14.05425 | .5845183 |
| #3 | .2529333 | .1221047 | 1.036872 | 6.718413 | 14.05982 | .5865315 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-05 Acquired: 1/12/2025 13:01:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMY9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0054584 | 2.994107 | F 19.41908 | .0247980 | .6893954 | .0911092 |
| Stddev | .0002750 | .016550 | .07025 | .0004635 | .0023101 | .0008479 |
| %RSD | 5.038977 | .5527473 | .3617790 | 1.869231 | .3350914 | .9306606 |
| #1 | .0054470 | 3.011238 | 19.49913 | .0251866 | .6920138 | .0905141 |
| #2 | .0051892 | 2.992875 | 19.36769 | .0242849 | .6876452 | .0907335 |
| #3 | .0057389 | 2.978207 | 19.39041 | .0249224 | .6885271 | .0920801 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1747782 |
| Stddev | .0000448 |
| %RSD | .0256367 |
| #1 | .1747446 |
| #2 | .1748291 |
| #3 | .1747609 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3221.505 | 76105.03 | 10882.73 | 3612.288 | 3352.717 |
| Stddev | 5.244 | 112.26 | 51.54 | 12.942 | 3.469 |
| %RSD | .1627789 | .1475107 | .4736245 | .3582667 | .1034788 |
| #1 | 3217.255 | 76080.91 | 10825.75 | 3598.355 | 3348.754 |
| #2 | 3219.895 | 76006.79 | 10896.36 | 3614.579 | 3355.205 |
| #3 | 3227.365 | 76227.39 | 10926.09 | 3623.932 | 3354.192 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-06 Acquired: 1/12/2025 13:05:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0393365** | **-.001758** | **.3159893** | **.0188835** | **-.001798** | **70.77316** |
| Stddev | .0031374 | .001277 | .0016425 | .0015026 | .000570 | .16972 |
| %RSD | 7.975748 | 72.61776 | .5197893 | 7.957332 | 31.71440 | .2398071 |
| #1 | .0383571 | -.003178 | .3158406 | .0172545 | -.002087 | 70.92863 |
| #2 | .0368056 | -.001393 | .3177010 | .0202153 | -.001141 | 70.79874 |
| #3 | .0428468 | -.000704 | .3144262 | .0191807 | -.002167 | 70.59210 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9811324** | **.0033178** | **.0042921** | **53.80461** | **.1296465** | **.0505028** |
| Stddev | .0015611 | .0001128 | .0000586 | .05697 | .0008741 | .0003138 |
| %RSD | .1591081 | 3.400833 | 1.365181 | .1058810 | .6742410 | .6212551 |
| #1 | .9809823 | .0031898 | .0042987 | 53.86401 | .1286891 | .0508597 |
| #2 | .9796518 | .0033603 | .0042305 | 53.75043 | .1304020 | .0503781 |
| #3 | .9827631 | .0034031 | .0043471 | 53.79940 | .1298484 | .0502705 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1704259** | **100.3342** | **2.779941** | **21.16288** | **.1376385** | **-.008435** |
| Stddev | .0023743 | .2193 | .001871 | .03654 | .0002272 | .000224 |
| %RSD | 1.393146 | .2185478 | .0672982 | .1726754 | .1650667 | 2.655514 |
| #1 | .1680461 | 100.5023 | 2.777998 | 21.20250 | .1374513 | -.008176 |
| #2 | .1704368 | 100.4142 | 2.780096 | 21.15564 | .1378912 | -.008563 |
| #3 | .1727947 | 100.0862 | 2.781730 | 21.13050 | .1375730 | -.008565 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4520772** | **.1189199** | **.8992689** | **5.990912** | **8.844184** | **.4285979** |
| Stddev | .1233138 | .0007089 | .0042426 | .040638 | .010697 | .0015418 |
| %RSD | 27.27716 | .5960838 | .4717893 | .6783230 | .1209466 | .3597320 |
| #1 | .4253436 | .1181084 | .9040657 | 6.031722 | 8.854216 | .4301198 |
| #2 | .3443230 | .1194180 | .8960087 | 5.990567 | 8.832928 | .4286369 |
| #3 | .5865649 | .1192333 | .8977321 | 5.950449 | 8.845409 | .4270369 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-06 Acquired: 1/12/2025 13:05:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0016865 | .9791692 | F 18.88346 | .0109309 | 1.013113 | .1323091 |
| Stddev | .0002725 | .0047823 | .13287 | .0009254 | .009132 | .0002807 |
| %RSD | 16.15598 | .4884056 | .7036560 | 8.466054 | .9013365 | .2121616 |
| #1 | .0016944 | .9740608 | 18.73939 | .0100363 | 1.002725 | .1325961 |
| #2 | .0014102 | .9799071 | 18.90979 | .0108720 | 1.016741 | .1322960 |
| #3 | .0019550 | .9835396 | 19.00119 | .0118843 | 1.019874 | .1320352 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1240472 |
| Stddev | .0006913 |
| %RSD | .5573048 |
| #1 | .1246295 |
| #2 | .1242290 |
| #3 | .1232832 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3198.782 | 74984.04 | 10729.64 | 3572.388 | 3420.304 |
| Stddev | 6.411 | 49.05 | 102.72 | 13.127 | 3.262 |
| %RSD | .2004139 | .0654196 | .9573853 | .3674621 | .0953598 |
| #1 | 3195.712 | 74986.24 | 10846.31 | 3565.622 | 3417.941 |
| #2 | 3194.483 | 75031.95 | 10689.80 | 3587.518 | 3418.946 |
| #3 | 3206.150 | 74933.92 | 10652.80 | 3564.023 | 3424.025 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-07 Acquired: 1/12/2025 13:09:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0443439** | **-.004150** | **.1166908** | **.0216554** | **-.003585** | **45.28955** |
| Stddev | .0028688 | .002835 | .0005174 | .0026580 | .002324 | .16318 |
| %RSD | 6.469511 | 68.30279 | .4434098 | 12.27399 | 64.84357 | .3603030 |
| #1 | .0438076 | -.003345 | .1164381 | .0246001 | -.000913 | 45.32493 |
| #2 | .0474431 | -.007300 | .1163483 | .0194339 | -.004696 | 45.11158 |
| #3 | .0417811 | -.001805 | .1172860 | .0209321 | -.005145 | 45.43213 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4702614** | **.0029854** | **.0046334** | **232.2100** | **.0861936** | **.0675368** |
| Stddev | .0007648 | .0001244 | .0000353 | .5779 | .0004117 | .0001539 |
| %RSD | .1626227 | 4.165649 | .7615598 | .2488864 | .4776816 | .2278489 |
| #1 | .4702181 | .0030271 | .0046430 | 232.6950 | .0864289 | .0677084 |
| #2 | .4695191 | .0030835 | .0046629 | 231.5705 | .0864338 | .0674111 |
| #3 | .4710468 | .0028455 | .0045943 | 232.3644 | .0857182 | .0674908 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2057370** | **127.9439** | **5.070485** | **57.40122** | **.1427161** | **-.011795** |
| Stddev | .0010515 | .2697 | .013809 | .04938 | .0006090 | .000222 |
| %RSD | .5110933 | .2108342 | .2723506 | .0860229 | .4267101 | 1.884452 |
| #1 | .2046635 | 128.0437 | 5.078053 | 57.44868 | .1426729 | -.011714 |
| #2 | .2057825 | 127.6385 | 5.054546 | 57.35013 | .1421298 | -.011624 |
| #3 | .2067650 | 128.1495 | 5.078856 | 57.40486 | .1433455 | -.012046 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8081438** | **.1127923** | **.4836815** | **6.547646** | **8.132844** | **.5540610** |
| Stddev | .0954275 | .0013211 | .0021037 | .002362 | .032236 | .0018291 |
| %RSD | 11.80824 | 1.171236 | .4349422 | .0360796 | .3963697 | .3301296 |
| #1 | .9117855 | .1113821 | .4848490 | 6.549709 | 8.122852 | .5548549 |
| #2 | .7887299 | .1129938 | .4812529 | 6.545069 | 8.106787 | .5519691 |
| #3 | .7239160 | .1140011 | .4849426 | 6.548161 | 8.168893 | .5553590 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-07 Acquired: 1/12/2025 13:09:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015729 | .4624748 | F 16.70468 | .0019953 | .6892308 | .0912619 |
| Stddev | .0001075 | .0015526 | .01726 | .0015435 | .0008766 | .0008985 |
| %RSD | 6.831776 | .3357216 | .1033250 | 77.35794 | .1271843 | .9845225 |
| #1 | .0015292 | .4607664 | 16.69333 | .0002266 | .6901588 | .0919949 |
| #2 | .0016953 | .4628581 | 16.72454 | .0026896 | .6891166 | .0915313 |
| #3 | .0014941 | .4637999 | 16.69616 | .0030697 | .6884168 | .0902596 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2140830 |
| Stddev | .0007290 |
| %RSD | .3405137 |
| #1 | .2142476 |
| #2 | .2132859 |
| #3 | .2147157 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2970.378 | 69458.63 | 10089.31 | 3280.601 | 3220.321 |
| Stddev | 7.358 | 300.42 | 38.77 | 14.328 | 11.062 |
| %RSD | .2477190 | .4325188 | .3842708 | .4367639 | .3434924 |
| #1 | 2971.684 | 69112.77 | 10052.89 | 3268.633 | 3217.544 |
| #2 | 2976.995 | 69654.85 | 10084.98 | 3296.479 | 3232.506 |
| #3 | 2962.453 | 69608.25 | 10130.06 | 3276.690 | 3210.911 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-08 Acquired: 1/12/2025 13:13:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1207208** | **-.003608** | **5.082159** | **.0420520** | **-.000939** | **66.62854** |
| Stddev | .0010587 | .000309 | .004560 | .0026161 | .000624 | .15240 |
| %RSD | .8769436 | 8.557597 | .0897340 | 6.220980 | 66.43351 | .2287366 |
| #1 | .1218510 | -.003256 | 5.077653 | .0397988 | -.001535 | 66.45370 |
| #2 | .1197524 | -.003832 | 5.086772 | .0449210 | -.000291 | 66.69857 |
| #3 | .1205590 | -.003735 | 5.082053 | .0414363 | -.000991 | 66.73334 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.733490** | **.0048438** | **.0136397** | **194.4500** | **.1935375** | **.1034422** |
| Stddev | .004960 | .0001690 | .0000393 | .2757 | .0007667 | .0002592 |
| %RSD | .2861495 | 3.490069 | .2883597 | .1418019 | .3961339 | .2506087 |
| #1 | 1.736840 | .0048972 | .0135952 | 194.1316 | .1941297 | .1033856 |
| #2 | 1.735837 | .0046545 | .0136698 | 194.6107 | .1938111 | .1037250 |
| #3 | 1.727791 | .0049796 | .0136541 | 194.6077 | .1926715 | .1032159 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6540269** | **197.0453** | **10.43329** | **47.22275** | **.2184896** | **-.015687** |
| Stddev | .0013776 | .5740 | .01632 | .14583 | .0004580 | .000528 |
| %RSD | .2106292 | .2912861 | .1564517 | .3088118 | .2096295 | 3.363246 |
| #1 | .6553167 | 196.3825 | 10.44067 | 47.06030 | .2180521 | -.016233 |
| #2 | .6525757 | 197.3806 | 10.44463 | 47.26557 | .2184509 | -.015646 |
| #3 | .6541883 | 197.3727 | 10.41459 | 47.34237 | .2189657 | -.015181 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.077884** | **.1769508** | **4.136911** | **8.658678** | F **14.68218** | **.8425751** |
| Stddev | .030599 | .0027380 | .010448 | .026356 | .00150 | .0034050 |
| %RSD | 2.838807 | 1.547302 | .2525578 | .3043862 | .0102291 | .4041185 |
| #1 | 1.051513 | .1737898 | 4.135165 | 8.629317 | 14.68188 | .8387019 |
| #2 | 1.070705 | .1785788 | 4.127446 | 8.680293 | 14.68381 | .8450972 |
| #3 | 1.111435 | .1784839 | 4.148122 | 8.666425 | 14.68086 | .8439262 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-08 Acquired: 1/12/2025 13:13:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0087183 | 4.364916 | F 19.31770 | .2216911 | 1.421540 | .0920780 |
| Stddev | .0001206 | .010844 | .07151 | .0020322 | .004244 | .0010233 |
| %RSD | 1.383246 | .2484429 | .3701790 | .9166642 | .2985179 | 1.111310 |
| #1 | .0088187 | 4.370425 | 19.39933 | .2194614 | 1.426224 | .0910852 |
| #2 | .0087515 | 4.352423 | 19.26609 | .2234391 | 1.417952 | .0931292 |
| #3 | .0085845 | 4.371900 | 19.28768 | .2221730 | 1.420443 | .0920194 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3588768 |
| Stddev | .0014997 |
| %RSD | .4178903 |
| #1 | .3571724 |
| #2 | .3599944 |
| #3 | .3594635 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2951.893 | 69741.54 | 10105.89 | 3297.770 | 3279.127 |
| Stddev | 2.138 | 157.51 | 52.11 | 9.956 | 4.132 |
| %RSD | .0724253 | .2258512 | .5156559 | .3018978 | .1260217 |
| #1 | 2949.570 | 69639.07 | 10054.91 | 3296.791 | 3282.643 |
| #2 | 2953.778 | 69922.91 | 10159.07 | 3308.179 | 3274.575 |
| #3 | 2952.331 | 69662.64 | 10103.70 | 3288.339 | 3280.162 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-09 Acquired: 1/12/2025 13:17:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1090080** | **-.005592** | **5.738725** | **.0321965** | **-.004424** | **60.10290** |
| Stddev | .0024880 | .000823 | .004033 | .0028619 | .000086 | .29598 |
| %RSD | 2.282440 | 14.70927 | .0702694 | 8.888860 | 1.949726 | .4924505 |
| #1 | .1109370 | -.004652 | 5.743381 | .0354498 | -.004339 | 60.43047 |
| #2 | .1061997 | -.006179 | 5.736362 | .0310726 | -.004511 | 60.02352 |
| #3 | .1098873 | -.005945 | 5.736431 | .0300672 | -.004423 | 59.85470 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.566241** | **.0045236** | **.0113453** | **147.7721** | **.1800101** | **.0879848** |
| Stddev | .009018 | .0000738 | .0000709 | .6316 | .0011112 | .0001421 |
| %RSD | .5757625 | 1.631534 | .6246230 | .4273985 | .6172738 | .1614919 |
| #1 | 1.575919 | .0046088 | .0114021 | 148.5009 | .1804818 | .0880412 |
| #2 | 1.558075 | .0044808 | .0113680 | 147.4301 | .1808075 | .0878231 |
| #3 | 1.564728 | .0044812 | .0112659 | 147.3853 | .1787409 | .0880899 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.047242** | **159.4470** | **9.447185** | **34.84305** | **.2144467** | **-.011750** |
| Stddev | .004365 | .8400 | .052268 | .15804 | .0004184 | .000199 |
| %RSD | .4168560 | .5268168 | .5532683 | .4535759 | .1950842 | 1.690678 |
| #1 | 1.042203 | 160.4010 | 9.506320 | 35.02532 | .2140225 | -.011529 |
| #2 | 1.049870 | 159.1215 | 9.407162 | 34.74409 | .2148590 | -.011805 |
| #3 | 1.049654 | 158.8185 | 9.428075 | 34.75975 | .2144585 | -.011915 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8461708** | **.1551714** | **6.657092** | **7.435591** | F **12.35686** | **.6893928** |
| Stddev | .1106802 | .0013284 | .010590 | .037852 | .00584 | .0036057 |
| %RSD | 13.08012 | .8560866 | .1590778 | .5090615 | .0472295 | .5230248 |
| #1 | .8203208 | .1541279 | 6.669300 | 7.415684 | 12.35286 | .6932916 |
| #2 | .7507033 | .1566668 | 6.651605 | 7.411847 | 12.36356 | .6887085 |
| #3 | .9674883 | .1547195 | 6.650371 | 7.479242 | 12.35416 | .6861782 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-09 Acquired: 1/12/2025 13:17:30 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNA9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0063955 | 3.735969 | F 19.78897 | .7439351 | 1.294357 | .0770712 |
| Stddev | .0001486 | .002812 | .04398 | .0011983 | .004154 | .0015313 |
| %RSD | 2.323981 | .0752813 | .2222581 | .1610706 | .3209163 | 1.986862 |
| #1 | .0065665 | 3.738849 | 19.78567 | .7425936 | 1.296044 | .0785740 |
| #2 | .0062975 | 3.733229 | 19.74673 | .7448993 | 1.289625 | .0755129 |
| #3 | .0063224 | 3.735829 | 19.83451 | .7443124 | 1.297401 | .0771269 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3188764 |
| Stddev | .0018635 |
| %RSD | .5843811 |
| #1 | .3209995 |
| #2 | .3181179 |
| #3 | .3175118 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2929.887 | 68580.02 | 9892.295 | 3229.637 | 3338.550 |
| Stddev | 1.780 | 183.25 | 39.334 | 3.292 | 4.119 |
| %RSD | .0607408 | .2672017 | .3976226 | .1019295 | .1233718 |
| #1 | 2931.483 | 68439.09 | 9935.442 | 3233.433 | 3336.466 |
| #2 | 2927.968 | 68513.81 | 9858.436 | 3227.905 | 3335.890 |
| #3 | 2930.210 | 68787.18 | 9883.007 | 3227.572 | 3343.295 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-10 Acquired: 1/12/2025 13:21:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1344613** | **-.003917** | **5.638351** | **.0317580** | **-.001345** | **61.32735** |
| Stddev | .0014868 | .002239 | .013578 | .0018414 | .002526 | .13877 |
| %RSD | 1.105716 | 57.17659 | .2408073 | 5.798316 | 187.8697 | .2262784 |
| #1 | .1352442 | -.004599 | 5.625107 | .0334472 | -.004188 | 61.45565 |
| #2 | .1353930 | -.005735 | 5.637707 | .0297950 | .000643 | 61.18006 |
| #3 | .1327466 | -.001415 | 5.652239 | .0320319 | -.000489 | 61.34634 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.841427** | **.0051813** | **.0148454** | **168.4771** | **.1749917** | **.0919692** |
| Stddev | .004218 | .0000579 | .0000465 | .3908 | .0009786 | .0002836 |
| %RSD | .2290511 | 1.116666 | .3132505 | .2319898 | .5592506 | .3084052 |
| #1 | 1.842917 | .0051190 | .0148430 | 168.5038 | .1738978 | .0917055 |
| #2 | 1.836666 | .0051915 | .0148001 | 168.0736 | .1752934 | .0919328 |
| #3 | 1.844697 | .0052334 | .0148930 | 168.8539 | .1757840 | .0922692 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6329873** | **158.8796** | **10.75602** | **32.90628** | **.2126834** | **-.010839** |
| Stddev | .0009650 | .2884 | .02047 | .09188 | .0008681 | .000354 |
| %RSD | .1524591 | .1815483 | .1903510 | .2792109 | .4081609 | 3.269340 |
| #1 | .6335873 | 159.0818 | 10.75333 | 32.84940 | .2123711 | -.010440 |
| #2 | .6318741 | 158.5493 | 10.73702 | 32.85716 | .2120146 | -.011116 |
| #3 | .6335004 | 159.0077 | 10.77771 | 33.01228 | .2136644 | -.010962 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7363696** | **.1560349** | **3.598729** | **7.099895** | F **12.93132** | **.6861446** |
| Stddev | .0805736 | .0010333 | .007071 | .053734 | .01804 | .0013326 |
| %RSD | 10.94201 | .6622281 | .1964753 | .7568281 | .1395332 | .1942157 |
| #1 | .6735505 | .1554941 | 3.592083 | 7.062590 | 12.95095 | .6874575 |
| #2 | .8272134 | .1553842 | 3.606159 | 7.075612 | 12.92756 | .6847931 |
| #3 | .7083447 | .1572263 | 3.597945 | 7.161485 | 12.91545 | .6861832 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-10 Acquired: 1/12/2025 13:21:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0053610 | 3.333549 | F 18.94747 | .1973214 | 1.204573 | .0801817 |
| Stddev | .0002626 | .006683 | .03952 | .0013264 | .007255 | .0012263 |
| %RSD | 4.898026 | .2004797 | .2085824 | .6722052 | .6022530 | 1.529454 |
| #1 | .0056068 | 3.331648 | 18.91291 | .1987068 | 1.201829 | .0811824 |
| #2 | .0050844 | 3.328022 | 18.99056 | .1960632 | 1.212799 | .0788137 |
| #3 | .0053918 | 3.340976 | 18.93895 | .1971942 | 1.199089 | .0805491 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3426591 |
| Stddev | .0005803 |
| %RSD | .1693398 |
| #1 | .3432969 |
| #2 | .3421624 |
| #3 | .3425179 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3000.156 | 69303.39 | 10039.68 | 3281.459 | 3342.445 |
| Stddev | 4.962 | 111.75 | 58.48 | 3.121 | 5.629 |
| %RSD | .1653952 | .1612427 | .5824659 | .0951209 | .1684183 |
| #1 | 3005.878 | 69343.41 | 10059.28 | 3278.307 | 3348.216 |
| #2 | 2997.548 | 69177.15 | 9973.92 | 3281.522 | 3342.149 |
| #3 | 2997.041 | 69389.62 | 10085.85 | 3284.549 | 3336.969 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-11 Acquired: 1/12/2025 13:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1347096** | **-.006962** | **5.963807** | **.0332701** | **-.002339** | **67.27822** |
| Stddev | .0023822 | .002475 | .006516 | .0020719 | .001039 | .13459 |
| %RSD | 1.768356 | 35.55516 | .1092609 | 6.227569 | 44.44532 | .2000562 |
| #1 | .1334475 | -.009808 | 5.963994 | .0340217 | -.001228 | 67.43322 |
| #2 | .1332240 | -.005761 | 5.957200 | .0348613 | -.002501 | 67.19093 |
| #3 | .1374572 | -.005315 | 5.970228 | .0309273 | -.003288 | 67.21050 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.909715** | **.0053232** | **.0121385** | **205.9551** | **.1714878** | **.1003276** |
| Stddev | .011080 | .0000277 | .0001485 | .6747 | .0004354 | .0005012 |
| %RSD | .5802165 | .5203448 | 1.223401 | .3275737 | .2539149 | .4995620 |
| #1 | 1.922474 | .0053532 | .0119709 | 206.7337 | .1717931 | .0997490 |
| #2 | 1.902512 | .0053180 | .0121913 | 205.5420 | .1709892 | .1006269 |
| #3 | 1.904158 | .0052985 | .0122535 | 205.5897 | .1716812 | .1006069 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6499510** | **171.0130** | **11.32309** | **32.99709** | **.1888797** | **-.011829** |
| Stddev | .0009023 | .3510 | .06004 | .14421 | .0003245 | .000009 |
| %RSD | .1388273 | .2052377 | .5302167 | .4370417 | .1717834 | .0796724 |
| #1 | .6489990 | 171.4179 | 11.39090 | 33.15293 | .1885052 | -.011824 |
| #2 | .6500601 | 170.8265 | 11.30166 | 32.97001 | .1890576 | -.011840 |
| #3 | .6507937 | 170.7946 | 11.27670 | 32.86835 | .1890764 | -.011824 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9318740** | **.1630797** | **3.093287** | **7.736385** | F **13.56006** | **.7365120** |
| Stddev | .1724938 | .0014244 | .006290 | .033948 | .01426 | .0020565 |
| %RSD | 18.51042 | .8734363 | .2033395 | .4388069 | .1051750 | .2792181 |
| #1 | 1.051716 | .1630390 | 3.086286 | 7.770295 | 13.57383 | .7386689 |
| #2 | .734176 | .1645240 | 3.098460 | 7.736461 | 13.56100 | .7362938 |
| #3 | 1.009731 | .1616761 | 3.095117 | 7.702399 | 13.54536 | .7345734 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-11 Acquired: 1/12/2025 13:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0042108 | 2.847092 | F 19.67005 | .2440549 | 1.159110 | .0891551 |
| Stddev | .0001150 | .001340 | .03051 | .0011166 | .003318 | .0008675 |
| %RSD | 2.731448 | .0470771 | .1551048 | .4575333 | .2862389 | .9730126 |
| #1 | .0042879 | 2.848186 | 19.69951 | .2427839 | 1.162938 | .0885593 |
| #2 | .0042659 | 2.845597 | 19.67206 | .2448781 | 1.157334 | .0901503 |
| #3 | .0040786 | 2.847493 | 19.63859 | .2445028 | 1.157059 | .0887555 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4030297 |
| Stddev | .0006692 |
| %RSD | .1660478 |
| #1 | .4037429 |
| #2 | .4024155 |
| #3 | .4029306 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3019.387 | 70042.50 | 10157.55 | 3324.391 | 3308.038 |
| Stddev | 2.893 | 192.65 | 12.58 | 3.215 | 3.528 |
| %RSD | .0958121 | .2750495 | .1238567 | .0967096 | .1066503 |
| #1 | 3020.831 | 69820.06 | 10145.16 | 3323.597 | 3312.072 |
| #2 | 3021.273 | 70151.92 | 10157.19 | 3327.928 | 3306.512 |
| #3 | 3016.056 | 70155.54 | 10170.31 | 3321.647 | 3305.530 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-12 Acquired: 1/12/2025 13:29:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1359707** | **-.006316** | **4.712232** | **.0371019** | **-.002460** | **69.85971** |
| Stddev | .0020535 | .002516 | .017669 | .0008766 | .001026 | .13633 |
| %RSD | 1.510256 | 39.83545 | .3749532 | 2.362788 | 41.69010 | .1951426 |
| #1 | .1345238 | -.008831 | 4.700383 | .0361024 | -.003610 | 69.71132 |
| #2 | .1350673 | -.003798 | 4.703774 | .0374633 | -.001642 | 69.88842 |
| #3 | .1383210 | -.006319 | 4.732540 | .0377401 | -.002128 | 69.97939 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.762059** | **.0050148** | **.0121864** | **209.1476** | **.1643720** | **.1082926** |
| Stddev | .007644 | .0000249 | .0001855 | .8150 | .0006100 | .0003583 |
| %RSD | .4338013 | .4959736 | 1.522540 | .3896954 | .3710822 | .3308596 |
| #1 | 1.753235 | .0050352 | .0120567 | 208.2586 | .1637676 | .1079883 |
| #2 | 1.766677 | .0050221 | .0121035 | 209.3246 | .1643612 | .1082019 |
| #3 | 1.766263 | .0049871 | .0123989 | 209.8595 | .1649874 | .1086875 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6007683** | **198.9405** | **12.09093** | **35.57251** | **.1901857** | **-.014466** |
| Stddev | .0046941 | .5784 | .06467 | .16723 | .0004572 | .000269 |
| %RSD | .7813431 | .2907479 | .5348812 | .4701208 | .2403859 | 1.860997 |
| #1 | .6019973 | 198.3818 | 12.01847 | 35.42520 | .1899123 | -.014305 |
| #2 | .6047255 | 198.9030 | 12.11154 | 35.53804 | .1899313 | -.014777 |
| #3 | .5955819 | 199.5368 | 12.14279 | 35.75429 | .1907135 | -.014317 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8079484** | **.1672695** | **2.879098** | **7.294763** | F **13.93607** | **.8491484** |
| Stddev | .0936277 | .0015863 | .006942 | .009242 | .05991 | .0025504 |
| %RSD | 11.58833 | .9483633 | .2411303 | .1266985 | .4298719 | .3003464 |
| #1 | .7201423 | .1685058 | 2.871824 | 7.299578 | 13.94897 | .8468106 |
| #2 | .9064749 | .1678218 | 2.885653 | 7.284107 | 13.87076 | .8487664 |
| #3 | .7972280 | .1654808 | 2.879817 | 7.300603 | 13.98847 | .8518682 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-12 Acquired: 1/12/2025 13:29:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0056305 | 2.705012 | F 20.60797 | .2479041 | 1.225311 | .0869510 |
| Stddev | .0003084 | .015668 | .19947 | .0019942 | .010608 | .0009282 |
| %RSD | 5.477576 | .5792394 | .9679354 | .8044429 | .8657534 | 1.067505 |
| #1 | .0058974 | 2.688119 | 20.46420 | .2490968 | 1.219832 | .0863937 |
| #2 | .0052929 | 2.707849 | 20.83569 | .2456019 | 1.237538 | .0864368 |
| #3 | .0057012 | 2.719068 | 20.52401 | .2490137 | 1.218561 | .0880225 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4251969 |
| Stddev | .0005441 |
| %RSD | .1279656 |
| #1 | .4246708 |
| #2 | .4251627 |
| #3 | .4257573 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2980.569 | 69407.24 | 10137.07 | 3318.687 | 3249.156 |
| Stddev | .421 | 159.03 | 69.17 | 10.946 | 5.439 |
| %RSD | .0141083 | .2291209 | .6823515 | .3298293 | .1673884 |
| #1 | 2980.292 | 69513.23 | 10152.22 | 3330.354 | 3251.021 |
| #2 | 2981.053 | 69484.11 | 10061.58 | 3317.064 | 3253.417 |
| #3 | 2980.363 | 69224.38 | 10197.40 | 3308.644 | 3243.030 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-13 Acquired: 1/12/2025 13:33:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0898121** | **-.004785** | **1.288106** | **.0324523** | **-.003689** | **73.54534** |
| Stddev | .0010916 | .001410 | .004439 | .0022804 | .001722 | .21179 |
| %RSD | 1.215457 | 29.46904 | .3446365 | 7.026871 | 46.66604 | .2879671 |
| #1 | .0901716 | -.006412 | 1.291564 | .0334931 | -.002705 | 73.35025 |
| #2 | .0906786 | -.003921 | 1.289654 | .0340267 | -.002686 | 73.77059 |
| #3 | .0885860 | -.004021 | 1.283100 | .0298373 | -.005677 | 73.51519 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8645912** | **.0046484** | **.0071950** | **72.00902** | **.1379109** | **.1052901** |
| Stddev | .0013045 | .0001799 | .0001033 | .17020 | .0003034 | .0005492 |
| %RSD | .1508819 | 3.868958 | 1.435776 | .2363654 | .2200321 | .5215743 |
| #1 | .8646485 | .0045650 | .0073099 | 71.85976 | .1375987 | .1056556 |
| #2 | .8658661 | .0048548 | .0071652 | 72.19438 | .1382048 | .1055562 |
| #3 | .8632590 | .0045255 | .0071099 | 71.97291 | .1379292 | .1046586 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2313092** | **161.2311** | **10.03417** | **20.46371** | **.1355536** | **-.013135** |
| Stddev | .0011007 | .5544 | .02119 | .09220 | .0003924 | .000174 |
| %RSD | .4758535 | .3438495 | .2112057 | .4505489 | .2894913 | 1.322605 |
| #1 | .2305520 | 160.7006 | 10.03153 | 20.35807 | .1357579 | -.013333 |
| #2 | .2308039 | 161.8066 | 10.05655 | 20.52793 | .1358017 | -.013063 |
| #3 | .2325719 | 161.1861 | 10.01441 | 20.50514 | .1351011 | -.013009 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6762229** | **.1712912** | **1.246223** | **4.057712** | F **13.67829** | **.6727024** |
| Stddev | .1131021 | .0038797 | .008410 | .023879 | .06396 | .0031504 |
| %RSD | 16.72556 | 2.264950 | .6747987 | .5884893 | .4676274 | .4683246 |
| #1 | .5499850 | .1742011 | 1.255932 | 4.035255 | 13.70361 | .6691397 |
| #2 | .7103578 | .1727861 | 1.241203 | 4.082796 | 13.72571 | .6751208 |
| #3 | .7683260 | .1668865 | 1.241535 | 4.055084 | 13.60554 | .6738467 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-13 Acquired: 1/12/2025 13:33:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0043304 | 1.119888 | F 19.96254 | .1341930 | 1.443030 | .0707383 |
| Stddev | .0002249 | .005847 | .05589 | .0012720 | .005190 | .0010352 |
| %RSD | 5.194057 | .5221068 | .2799508 | .9479044 | .3596376 | 1.463357 |
| #1 | .0044055 | 1.126005 | 20.02399 | .1349090 | 1.447929 | .0711482 |
| #2 | .0040776 | 1.119304 | 19.91475 | .1349456 | 1.443570 | .0695609 |
| #3 | .0045083 | 1.114355 | 19.94888 | .1327243 | 1.437592 | .0715057 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1986321 |
| Stddev | .0006667 |
| %RSD | .3356566 |
| #1 | .1979162 |
| #2 | .1992352 |
| #3 | .1987448 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2991.082 | 70340.57 | 10027.84 | 3356.306 | 3395.433 |
| Stddev | 2.175 | 37.04 | 17.57 | 22.056 | 7.349 |
| %RSD | .0727270 | .0526542 | .1751911 | .6571380 | .2164475 |
| #1 | 2989.201 | 70344.34 | 10012.37 | 3331.149 | 3389.344 |
| #2 | 2990.579 | 70301.80 | 10046.94 | 3365.453 | 3393.359 |
| #3 | 2993.464 | 70375.58 | 10024.22 | 3372.316 | 3403.596 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-14 Acquired: 1/12/2025 13:37:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1452235** | **-.008867** | **.4026461** | **.0362010** | **-.002822** | **80.29132** |
| Stddev | .0008169 | .001525 | .0014763 | .0014046 | .001740 | .34760 |
| %RSD | .5625371 | 17.20206 | .3666521 | 3.879952 | 61.66224 | .4329230 |
| #1 | .1460300 | -.009052 | .4038822 | .0347300 | -.004671 | 80.48506 |
| #2 | .1443965 | -.010291 | .4030447 | .0375281 | -.002575 | 80.49887 |
| #3 | .1452440 | -.007258 | .4010114 | .0363448 | -.001218 | 79.89003 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7897199** | **.0052203** | **.0091087** | **144.2878** | **.1257984** | **.1529959** |
| Stddev | .0046537 | .0000730 | .0000284 | .6672 | .0003805 | .0008797 |
| %RSD | .5892836 | 1.397720 | .3115732 | .4623798 | .3024703 | .5749618 |
| #1 | .7922497 | .0052486 | .0090767 | 144.7994 | .1255964 | .1531950 |
| #2 | .7925608 | .0051374 | .0091308 | 144.5309 | .1262373 | .1537589 |
| #3 | .7843493 | .0052748 | .0091187 | 143.5332 | .1255614 | .1520337 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2620948** | **199.1021** | **12.63049** | **20.07222** | **.1749497** | **-.017492** |
| Stddev | .0013659 | .7967 | .06758 | .04573 | .0007857 | .000284 |
| %RSD | .5211421 | .4001523 | .5350541 | .2278356 | .4490991 | 1.626005 |
| #1 | .2634047 | 199.7765 | 12.69377 | 20.12500 | .1753280 | -.017310 |
| #2 | .2622007 | 199.3067 | 12.63840 | 20.04439 | .1754746 | -.017346 |
| #3 | .2606791 | 198.2230 | 12.55931 | 20.04727 | .1740464 | -.017820 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5913095** | **.1762956** | **.7346575** | **5.173023** | **9.028642** | **.8240243** |
| Stddev | .1069731 | .0021224 | .0006171 | .054038 | .032538 | .0051659 |
| %RSD | 18.09089 | 1.203904 | .0839931 | 1.044617 | .3603846 | .6269120 |
| #1 | .4686723 | .1747727 | .7351775 | 5.172814 | 9.065249 | .8281943 |
| #2 | .6654087 | .1753941 | .7339756 | 5.227166 | 9.017664 | .8256332 |
| #3 | .6398473 | .1787199 | .7348194 | 5.119090 | 9.003013 | .8182454 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-14 Acquired: 1/12/2025 13:37:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNB4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048887 | .8856853 | F 16.12873 | .0241823 | 1.055730 | .0778641 |
| Stddev | .0001088 | .0043240 | .08357 | .0006837 | .002440 | .0006336 |
| %RSD | 2.226144 | .4882108 | .5181206 | 2.827083 | .2311092 | .8137737 |
| #1 | .0050142 | .8844816 | 16.20014 | .0243620 | 1.058402 | .0785953 |
| #2 | .0048308 | .8904836 | 16.03682 | .0234268 | 1.055169 | .0775189 |
| #3 | .0048210 | .8820906 | 16.14923 | .0247583 | 1.053620 | .0774779 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2009296 |
| Stddev | .0007029 |
| %RSD | .3498229 |
| #1 | .2010735 |
| #2 | .2015494 |
| #3 | .2001659 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3351.870 | 78467.12 | 11360.89 | 3717.773 | 3289.990 |
| Stddev | 2.874 | 191.13 | 46.54 | 5.125 | 2.797 |
| %RSD | .0857371 | .2435788 | .4096708 | .1378636 | .0850255 |
| #1 | 3351.887 | 78312.61 | 11344.50 | 3716.979 | 3287.551 |
| #2 | 3354.735 | 78407.91 | 11413.41 | 3713.090 | 3289.376 |
| #3 | 3348.988 | 78680.85 | 11324.76 | 3723.249 | 3293.044 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-15 Acquired: 1/12/2025 13:41:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1465671** | **-.005558** | **3.273531** | **.0488632** | **-.002634** | **68.64859** |
| Stddev | .0037422 | .001882 | .011219 | .0012835 | .001209 | .25457 |
| %RSD | 2.553238 | 33.86398 | .3427290 | 2.626776 | 45.90195 | .3708360 |
| #1 | .1451024 | -.007249 | 3.272894 | .0493042 | -.003473 | 68.47643 |
| #2 | .1508201 | -.003530 | 3.262643 | .0474173 | -.001248 | 68.52832 |
| #3 | .1437787 | -.005896 | 3.285055 | .0498681 | -.003182 | 68.94101 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.297173** | **.0059603** | **.0117079** | **101.1009** | **.1625518** | **.0941046** |
| Stddev | .005858 | .0001297 | .0001630 | .3544 | .0004257 | .0002847 |
| %RSD | .4515924 | 2.176293 | 1.392452 | .3505539 | .2618806 | .3025370 |
| #1 | 1.294962 | .0060347 | .0115474 | 100.8442 | .1625978 | .0940536 |
| #2 | 1.292742 | .0060358 | .0117029 | 100.9532 | .1629526 | .0938489 |
| #3 | 1.303814 | .0058106 | .0118733 | 101.5052 | .1621049 | .0944114 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4356409** | **238.0755** | **9.164805** | **35.18953** | **.2121114** | **-.020504** |
| Stddev | .0013330 | .6690 | .031165 | .10881 | .0006529 | .000226 |
| %RSD | .3059958 | .2809896 | .3400504 | .3092108 | .3077957 | 1.100462 |
| #1 | .4349208 | 237.6175 | 9.150622 | 35.08717 | .2118431 | -.020741 |
| #2 | .4348227 | 237.7659 | 9.143254 | 35.17762 | .2116355 | -.020291 |
| #3 | .4371791 | 238.8432 | 9.200539 | 35.30381 | .2128557 | -.020481 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8735674** | **.1641689** | **2.178976** | **5.927246** | **9.837234** | **1.000874** |
| Stddev | .0963370 | .0003494 | .002100 | .025912 | .051303 | .004681 |
| %RSD | 11.02799 | .2128120 | .0963717 | .4371620 | .5215233 | .4677023 |
| #1 | .8625618 | .1639445 | 2.176552 | 5.911610 | 9.820072 | .997774 |
| #2 | .9749345 | .1639908 | 2.180152 | 5.912973 | 9.796712 | .998589 |
| #3 | .7832059 | .1645714 | 2.180224 | 5.957156 | 9.894919 | 1.006259 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-15 Acquired: 1/12/2025 13:41:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0056901 | 4.007067 | F 19.07098 | .1332112 | 1.275578 | .0749190 |
| Stddev | .0003223 | .021932 | .00920 | .0011678 | .002376 | .0006320 |
| %RSD | 5.664621 | .5473364 | .0482649 | .8766690 | .1862891 | .8436096 |
| #1 | .0054905 | 4.005809 | 19.06978 | .1323673 | 1.277964 | .0743507 |
| #2 | .0060620 | 3.985792 | 19.06244 | .1327223 | 1.273212 | .0755997 |
| #3 | .0055178 | 4.029602 | 19.08073 | .1345440 | 1.275557 | .0748066 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2169304 |
| Stddev | .0010699 |
| %RSD | .4931912 |
| #1 | .2164498 |
| #2 | .2161852 |
| #3 | .2181564 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3010.408 | 70433.07 | 9986.894 | 3324.467 | 3442.030 |
| Stddev | 7.602 | 217.01 | 38.316 | 5.004 | 13.535 |
| %RSD | .2525348 | .3081067 | .3836625 | .1505346 | .3932156 |
| #1 | 3016.423 | 70656.75 | 9984.503 | 3328.416 | 3448.253 |
| #2 | 3012.937 | 70223.41 | 9949.830 | 3318.839 | 3451.334 |
| #3 | 3001.863 | 70419.04 | 10026.35 | 3326.146 | 3426.503 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-16 Acquired: 1/12/2025 13:44:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0997992** | **-.003794** | **3.458991** | **.0293530** | **-.002183** | **60.25767** |
| Stddev | .0006306 | .001929 | .004353 | .0015897 | .000899 | .23573 |
| %RSD | .6318632 | 50.83185 | .1258440 | 5.415644 | 41.17296 | .3912109 |
| #1 | .1002461 | -.001583 | 3.457280 | .0278858 | -.001681 | 60.45565 |
| #2 | .0990779 | -.005127 | 3.455754 | .0310418 | -.001647 | 59.99690 |
| #3 | .1000737 | -.004672 | 3.463940 | .0291313 | -.003220 | 60.32046 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.222204** | **.0047403** | **.0081755** | **123.6367** | **.1453341** | **.0859946** |
| Stddev | .006068 | .0001794 | .0001192 | .4566 | .0002509 | .0004788 |
| %RSD | .4964817 | 3.783704 | 1.457353 | .3692768 | .1726433 | .5567166 |
| #1 | 1.227563 | .0046169 | .0080504 | 124.0388 | .1451798 | .0857138 |
| #2 | 1.215616 | .0046580 | .0082877 | 123.1404 | .1456236 | .0857226 |
| #3 | 1.223434 | .0049460 | .0081883 | 123.7310 | .1451988 | .0865474 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3907668** | **150.5370** | **9.109750** | **32.13756** | **.1950901** | **-.012225** |
| Stddev | .0020636 | .4852 | .039598 | .07465 | .0005924 | .000542 |
| %RSD | .5280944 | .3222938 | .4346815 | .2322876 | .3036599 | 4.436627 |
| #1 | .3910398 | 150.9094 | 9.143114 | 32.20519 | .1955050 | -.011882 |
| #2 | .3885803 | 149.9883 | 9.065991 | 32.15004 | .1944116 | -.012851 |
| #3 | .3926804 | 150.7132 | 9.120145 | 32.05746 | .1953537 | -.011944 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6196722** | **.1498504** | **1.828711** | **5.117370** | **9.096932** | **.6367986** |
| Stddev | .1134480 | .0012761 | .003907 | .016055 | .028419 | .0015867 |
| %RSD | 18.30775 | .8515637 | .2136525 | .3137263 | .3124034 | .2491738 |
| #1 | .6368196 | .1487054 | 1.824500 | 5.109232 | 9.070592 | .6385463 |
| #2 | .7235704 | .1496197 | 1.829415 | 5.107015 | 9.093152 | .6354485 |
| #3 | .4986266 | .1512261 | 1.832219 | 5.135864 | 9.127052 | .6364010 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-16 Acquired: 1/12/2025 13:44:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0045399 | 2.653347 | F 19.42919 | .1322523 | 1.029590 | .0718360 |
| Stddev | .0001960 | .011168 | .02486 | .0010376 | .002170 | .0004849 |
| %RSD | 4.317660 | .4209148 | .1279342 | .7845688 | .2107624 | .6749498 |
| #1 | .0043628 | 2.645604 | 19.44004 | .1313153 | 1.031742 | .0716747 |
| #2 | .0047505 | 2.648288 | 19.40076 | .1320741 | 1.027402 | .0723809 |
| #3 | .0045063 | 2.666150 | 19.44678 | .1333674 | 1.029627 | .0714523 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2084186 |
| Stddev | .0005268 |
| %RSD | .2527559 |
| #1 | .2089519 |
| #2 | .2078985 |
| #3 | .2084055 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2945.296 | 69348.09 | 9716.433 | 3246.552 | 3405.920 |
| Stddev | 5.446 | 277.20 | 27.393 | 1.747 | 9.454 |
| %RSD | .1849077 | .3997223 | .2819294 | .0537983 | .2775792 |
| #1 | 2950.763 | 69034.00 | 9689.930 | 3246.439 | 3412.288 |
| #2 | 2945.254 | 69558.55 | 9714.732 | 3248.352 | 3410.414 |
| #3 | 2939.871 | 69451.71 | 9744.638 | 3244.864 | 3395.057 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-17 Acquired: 1/12/2025 13:48:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1110451** | **-.004378** | **3.653111** | **.0324147** | **-.003612** | **69.22877** |
| Stddev | .0029035 | .001104 | .011995 | .0004476 | .000187 | .65177 |
| %RSD | 2.614733 | 25.20701 | .3283438 | 1.380838 | 5.184009 | .9414704 |
| #1 | .1077611 | -.005583 | 3.646455 | .0322997 | -.003828 | 68.57963 |
| #2 | .1132719 | -.003417 | 3.645919 | .0320358 | -.003510 | 69.22352 |
| #3 | .1121022 | -.004133 | 3.666957 | .0329085 | -.003497 | 69.88314 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.371043** | **.0050206** | **.0078847** | **135.2598** | **.1502655** | **.0949237** |
| Stddev | .016062 | .0001697 | .0001029 | .9915 | .0003962 | .0008348 |
| %RSD | 1.171507 | 3.380311 | 1.304873 | .7330580 | .2636795 | .8794351 |
| #1 | 1.355732 | .0050060 | .0080027 | 134.2917 | .1501830 | .0955194 |
| #2 | 1.369633 | .0051971 | .0078383 | 135.2143 | .1506965 | .0939696 |
| #3 | 1.387763 | .0048587 | .0078133 | 136.2732 | .1499171 | .0952822 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3695188** | **170.5591** | **9.907877** | **35.95102** | **.1788154** | **-.012889** |
| Stddev | .0011536 | 1.2929 | .072764 | .19501 | .0005274 | .000208 |
| %RSD | .3121778 | .7580207 | .7344022 | .5424309 | .2949494 | 1.609981 |
| #1 | .3701734 | 169.2999 | 9.837445 | 35.73599 | .1785119 | -.013063 |
| #2 | .3701960 | 170.4942 | 9.903419 | 36.00065 | .1785099 | -.012943 |
| #3 | .3681868 | 171.8832 | 9.982767 | 36.11642 | .1794245 | -.012659 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8366277** | **.1690893** | **1.637058** | **5.646311** | F **10.18891** | **.7222031** |
| Stddev | .0622075 | .0012388 | .005370 | .054915 | .01458 | .0064688 |
| %RSD | 7.435510 | .7326505 | .3280425 | .9725822 | .1431326 | .8956979 |
| #1 | .7649747 | .1687885 | 1.631693 | 5.585049 | 10.20293 | .7158696 |
| #2 | .8768319 | .1680285 | 1.637048 | 5.662769 | 10.18997 | .7219407 |
| #3 | .8680764 | .1704508 | 1.642434 | 5.691116 | 10.17382 | .7287991 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-17 Acquired: 1/12/2025 13:48:50 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0047891 | 2.389493 | F 19.94144 | .1790408 | 1.181787 | .0770451 |
| Stddev | .0003163 | .001927 | .06137 | .0007638 | .003478 | .0013599 |
| %RSD | 6.603894 | .0806265 | .3077346 | .4266163 | .2943120 | 1.765092 |
| #1 | .0050977 | 2.390116 | 20.01093 | .1784232 | 1.185568 | .0758249 |
| #2 | .0044657 | 2.387332 | 19.91870 | .1788044 | 1.181071 | .0767992 |
| #3 | .0048038 | 2.391030 | 19.89469 | .1798949 | 1.178724 | .0785112 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2376925 |
| Stddev | .0027472 |
| %RSD | 1.155792 |
| #1 | .2349309 |
| #2 | .2377214 |
| #3 | .2404251 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2986.176 | 68789.98 | 9825.801 | 3256.007 | 3417.031 |
| Stddev | 3.192 | 103.61 | 112.654 | 15.002 | 4.906 |
| %RSD | .1068794 | .1506199 | 1.146513 | .4607347 | .1435786 |
| #1 | 2982.642 | 68879.10 | 9717.884 | 3270.556 | 3413.606 |
| #2 | 2988.848 | 68676.29 | 9816.860 | 3240.590 | 3422.652 |
| #3 | 2987.038 | 68814.55 | 9942.659 | 3256.873 | 3414.835 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-18 Acquired: 1/12/2025 13:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0672152** | **-.004155** | **.6216785** | **.0352449** | **-.002632** | **86.25027** |
| Stddev | .0012273 | .001348 | .0014107 | .0040027 | .000301 | .23499 |
| %RSD | 1.825962 | 32.43035 | .2269240 | 11.35687 | 11.45082 | .2724499 |
| #1 | .0661734 | -.005706 | .6233067 | .0306444 | -.002979 | 86.25103 |
| #2 | .0669041 | -.003495 | .6209090 | .0379305 | -.002474 | 86.48488 |
| #3 | .0685681 | -.003265 | .6208199 | .0371598 | -.002442 | 86.01490 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5409554** | **.0046567** | **.0052662** | **40.31388** | **.1400723** | **.1137024** |
| Stddev | .0017198 | .0001394 | .0000670 | .09219 | .0006722 | .0002321 |
| %RSD | .3179193 | 2.994085 | 1.272162 | .2286878 | .4798964 | .2041122 |
| #1 | .5414194 | .0047614 | .0053425 | 40.33239 | .1408478 | .1134344 |
| #2 | .5423956 | .0047102 | .0052391 | 40.39542 | .1397132 | .1138364 |
| #3 | .5390512 | .0044984 | .0052171 | 40.21384 | .1396560 | .1138365 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1540791** | **177.4280** | **10.05838** | **26.91431** | **.1551658** | **-.014750** |
| Stddev | .0004297 | .4915 | .04039 | .06039 | .0001571 | .000209 |
| %RSD | .2788521 | .2770280 | .4015295 | .2243800 | .1012389 | 1.419386 |
| #1 | .1541801 | 177.3154 | 10.06932 | 26.84663 | .1552088 | -.014961 |
| #2 | .1544492 | 177.9661 | 10.09216 | 26.96268 | .1549917 | -.014747 |
| #3 | .1536079 | 177.0026 | 10.01364 | 26.93364 | .1552969 | -.014543 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4927315** | **.1963597** | **.6135282** | **3.450675** | **4.440473** | **.7324816** |
| Stddev | .2540806 | .0024207 | .0045652 | .042246 | .015591 | .0020782 |
| %RSD | 51.56572 | 1.232802 | .7440945 | 1.224279 | .3511038 | .2837169 |
| #1 | .2093987 | .1952101 | .6180528 | 3.478866 | 4.457605 | .7325565 |
| #2 | .5684522 | .1947279 | .6136085 | 3.471057 | 4.436699 | .7345214 |
| #3 | .7003435 | .1991410 | .6089234 | 3.402102 | 4.427116 | .7303670 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-18 Acquired: 1/12/2025 13:52:46 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0030001 | .7256383 | F 21.74033 | .0306737 | 1.429092 | .0844068 |
| Stddev | .0001835 | .0025056 | .04054 | .0011434 | .004614 | .0006547 |
| %RSD | 6.117965 | .3452897 | .1864648 | 3.727499 | .3228501 | .7756263 |
| #1 | .0030795 | .7252266 | 21.75664 | .0312422 | 1.428970 | .0851341 |
| #2 | .0027902 | .7233641 | 21.77018 | .0314214 | 1.433765 | .0842218 |
| #3 | .0031305 | .7283243 | 21.69418 | .0293575 | 1.424540 | .0838646 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1272952 |
| Stddev | .0004264 |
| %RSD | .3349831 |
| #1 | .1271338 |
| #2 | .1277788 |
| #3 | .1269731 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2797.417 | 65410.90 | 9258.868 | 3125.601 | 3416.639 |
| Stddev | 7.806 | 226.18 | 26.827 | 13.170 | 8.275 |
| %RSD | .2790542 | .3457824 | .2897429 | .4213534 | .2421993 |
| #1 | 2792.771 | 65154.10 | 9231.203 | 3111.569 | 3415.214 |
| #2 | 2793.051 | 65498.07 | 9284.769 | 3127.540 | 3409.170 |
| #3 | 2806.430 | 65580.52 | 9260.632 | 3137.693 | 3425.534 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19 Acquired: 1/12/2025 13:56:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0675344** | **-.005544** | **.1980816** | **.0405445** | **-.005872** | **87.06006** |
| Stddev | .0010695 | .000302 | .0014256 | .0035934 | .001500 | .40758 |
| %RSD | 1.583581 | 5.438242 | .7197171 | 8.862815 | 25.54006 | .4681642 |
| #1 | .0682029 | -.005869 | .1996045 | .0436339 | -.004630 | 86.77274 |
| #2 | .0663009 | -.005491 | .1967788 | .0413985 | -.007538 | 86.88089 |
| #3 | .0680993 | -.005273 | .1978617 | .0366010 | -.005447 | 87.52653 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5740380** | **.0055824** | **.0063613** | **20.12436** | **.1351524** | **.1071452** |
| Stddev | .0041691 | .0000471 | .0001039 | .08251 | .0005669 | .0001304 |
| %RSD | .7262683 | .8440673 | 1.633645 | .4100167 | .4194127 | .1216603 |
| #1 | .5735976 | .0056004 | .0064726 | 20.10526 | .1347437 | .1072712 |
| #2 | .5701066 | .0055289 | .0063444 | 20.05308 | .1349140 | .1070109 |
| #3 | .5784098 | .0056178 | .0062669 | 20.21476 | .1357995 | .1071536 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1660246** | **219.8643** | **11.78293** | **25.02634** | **.1778522** | **-.019695** |
| Stddev | .0001920 | 1.0257 | .07587 | .06388 | .0004693 | .000157 |
| %RSD | .1156205 | .4665351 | .6439213 | .2552502 | .2638771 | .7991032 |
| #1 | .1659932 | 219.2303 | 11.76107 | 24.95782 | .1782357 | -.019779 |
| #2 | .1658503 | 219.3148 | 11.72039 | 25.03695 | .1779919 | -.019513 |
| #3 | .1662303 | 221.0477 | 11.86733 | 25.08425 | .1773289 | -.019792 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6788230** | **.2031272** | **.3821719** | **5.231561** | **2.757557** | **.9022009** |
| Stddev | .1919672 | .0011644 | .0021340 | .058569 | .009233 | .0062445 |
| %RSD | 28.27943 | .5732227 | .5583937 | 1.119539 | .3348141 | .6921375 |
| #1 | .4597657 | .2034881 | .3820363 | 5.179604 | 2.763596 | .8978000 |
| #2 | .7589944 | .2040685 | .3801089 | 5.220047 | 2.762146 | .8994548 |
| #3 | .8177088 | .2018252 | .3843704 | 5.295033 | 2.746929 | .9093478 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19 Acquired: 1/12/2025 13:56:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0033154 | .4272711 | F 16.66912 | .0096425 | 1.145887 | .0818690 |
| Stddev | .0002434 | .0023177 | .00650 | .0007049 | .004967 | .0004393 |
| %RSD | 7.340017 | .5424336 | .0389884 | 7.310298 | .4334319 | .5365938 |
| #1 | .0030993 | .4251060 | 16.67486 | .0104468 | 1.151322 | .0822684 |
| #2 | .0032680 | .4297159 | 16.66207 | .0091319 | 1.144754 | .0813985 |
| #3 | .0035790 | .4269915 | 16.67045 | .0093488 | 1.141585 | .0819402 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0819863 |
| Stddev | .0004164 |
| %RSD | .5079033 |
| #1 | .0818266 |
| #2 | .0816734 |
| #3 | .0824589 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3287.463 | 76345.72 | 10798.05 | 3627.406 | 3485.158 |
| Stddev | 4.954 | 198.42 | 57.78 | 1.869 | 7.442 |
| %RSD | .1506789 | .2598923 | .5350974 | .0515369 | .2135274 |
| #1 | 3281.769 | 76569.75 | 10800.13 | 3629.286 | 3476.596 |
| #2 | 3289.831 | 76192.16 | 10739.27 | 3625.547 | 3488.797 |
| #3 | 3290.787 | 76275.24 | 10854.77 | 3627.385 | 3490.080 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV008 Acquired: 1/12/2025 14:00:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.550647** | **4.701341** | **23.39902** | **4.605308** | **4.525334** | **371.9584** |
| Stddev | .014485 | .028000 | .02194 | .017219 | .007743 | 3.1655 |
| %RSD | .3183158 | .5955673 | .0937607 | .3738892 | .1711055 | .8510297 |
| #1 | 4.565748 | 4.730811 | 23.41868 | 4.623410 | 4.530252 | 372.7357 |
| #2 | 4.536868 | 4.698122 | 23.37535 | 4.603380 | 4.516409 | 368.4768 |
| #3 | 4.549325 | 4.675090 | 23.40303 | 4.589135 | 4.529342 | 374.6629 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.619383** | **.5168109** | **2.403437** | **379.3187** | **14.93259** | **2.371645** |
| Stddev | .026666 | .0036865 | .000742 | 2.5101 | .04947 | .002734 |
| %RSD | .2772060 | .7133147 | .0308836 | .6617338 | .3312821 | .1152682 |
| #1 | 9.649553 | .5133028 | 2.404194 | 380.1945 | 14.96448 | 2.373418 |
| #2 | 9.598974 | .5164770 | 2.403408 | 381.2735 | 14.95769 | 2.373021 |
| #3 | 9.609621 | .5206530 | 2.402710 | 376.4881 | 14.87560 | 2.368497 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.33301** | **379.6123** | **14.40364** | **239.1118** | **2.367696** | **1.191650** |
| Stddev | .00249 | 2.9685 | .11732 | 1.6329 | .001014 | .005154 |
| %RSD | .0173648 | .7819696 | .8145234 | .6829110 | .0428378 | .4324949 |
| #1 | 14.33078 | 382.4510 | 14.53029 | 240.7035 | 2.367513 | 1.196066 |
| #2 | 14.33257 | 379.8568 | 14.38197 | 239.1912 | 2.368790 | 1.192897 |
| #3 | 14.33569 | 376.5292 | 14.29867 | 237.4406 | 2.366786 | 1.185988 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **379.2587** | **2.349520** | **14.92226** | **139.5309** | **4.685756** | F **5.682619** |
| Stddev | .9148 | .003381 | .01972 | 1.1712 | .008987 | .011364 |
| %RSD | .2412009 | .1439164 | .1321800 | .8394063 | .1917972 | .1999823 |
| #1 | 378.6592 | 2.353183 | 14.94362 | 140.6511 | 4.693946 | 5.679274 |
| #2 | 378.8053 | 2.346518 | 14.90473 | 139.6269 | 4.687179 | 5.673302 |
| #3 | 380.3117 | 2.348859 | 14.91842 | 138.3146 | 4.676142 | 5.695280 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV008 Acquired: 1/12/2025 14:00:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 4.493327 | 4.701353 | 4.727880 | 4.682593 | 4.707883 | F 4.471092 |
| Stddev | .011406 | .008716 | .018145 | .004102 | .014627 | .036246 |
| %RSD | .2538427 | .1853985 | .3837814 | .0876052 | .3106904 | .8106717 |
| #1 | 4.506405 | 4.711061 | 4.728529 | 4.687329 | 4.704400 | 4.509930 |
| #2 | 4.485440 | 4.694199 | 4.709419 | 4.680321 | 4.695313 | 4.465182 |
| #3 | 4.488136 | 4.698800 | 4.745691 | 4.680129 | 4.723938 | 4.438165 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 4.794425 |
| Stddev | .035673 |
| %RSD | .7440594 |
| #1 | 4.834948 |
| #2 | 4.780570 |
| #3 | 4.767758 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2114.581 | 52275.32 | 8031.420 | 2471.176 | 2834.391 |
| Stddev | 4.072 | 117.94 | 53.190 | 8.366 | 3.166 |
| %RSD | .1925877 | .2256142 | .6622731 | .3385507 | .1116893 |
| #1 | 2112.983 | 52168.76 | 8080.224 | 2462.606 | 2836.474 |
| #2 | 2119.210 | 52255.16 | 8039.311 | 2479.322 | 2835.952 |
| #3 | 2111.550 | 52402.04 | 7974.725 | 2471.599 | 2830.748 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB008 Acquired: 1/12/2025 14:04:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006023** | **-.000318** | **.0009055** | **.0026782** | **.0003815** | **.0006299** | **-.004698** |
| Stddev | .0014546 | .000712 | .0008049 | .0028435 | .0004394 | .0115809 | .000926 |
| %RSD | 241.5137 | 224.1578 | 88.89342 | 106.1710 | 115.1804 | 1838.591 | 19.70938 |
| #1 | .0008548 | .000347 | .0017871 | .0007451 | .0000293 | .0139197 | -.005493 |
| #2 | .0019141 | -.001068 | .0007195 | .0059431 | .0008739 | -.004730 | -.003681 |
| #3 | -.000962 | -.000231 | .0002098 | .0013464 | .0002413 | -.007300 | -.004921 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000070** | **.0000322** | **.0207689** | **.0002162** | **.0000959** | **.0001642** | **.0247091** |
| Stddev | .000115 | .0000287 | .0089850 | .0001962 | .0001731 | .0007707 | .0047603 |
| %RSD | 165.8214 | 89.29940 | 43.26176 | 90.78335 | 180.4777 | 469.4661 | 19.26547 |
| #1 | .000060 | .0000619 | .0272253 | .0000831 | .0001001 | .0006461 | .0268995 |
| #2 | -.000108 | .0000301 | .0245739 | .0004416 | .0002669 | .0005711 | .0279799 |
| #3 | -.000161 | .0000045 | .0105075 | .0001238 | -.000079 | -.000725 | .0192479 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005362** | **.0067277** | **-.000073** | **.0000241** | **.1481179** | **-.001112** | **.0004653** |
| Stddev | .0001356 | .0142556 | .000199 | .0004202 | .1159564 | .000521 | .0003176 |
| %RSD | 25.29304 | 211.8933 | 271.9128 | 1743.291 | 78.28655 | 46.87862 | 68.25517 |
| #1 | .0005535 | .0225405 | -.000303 | -.000451 | .1257465 | -.001668 | .0002776 |
| #2 | .0003927 | .0027823 | .000037 | .000178 | .2736301 | -.000635 | .0008319 |
| #3 | .0006623 | -.005140 | .000046 | .000345 | .0449772 | -.001033 | .0002863 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0164320** | **-.003531** | **.0008212** | **.0002687** | **.0010695** | **.0092597** | **-.000529** |
| Stddev | .0456876 | .000764 | .0002788 | .0003245 | .0007440 | .0075762 | .000595 |
| %RSD | 278.0401 | 21.63516 | 33.94895 | 120.7875 | 69.57096 | 81.81985 | 112.5100 |
| #1 | -.013742 | -.003733 | .0006472 | .0006145 | .0003634 | .0088363 | -.000866 |
| #2 | .068996 | -.002686 | .0006736 | .0002206 | .0018464 | .0170387 | .000158 |
| #3 | -.005958 | -.004173 | .0011427 | -.000029 | .0009985 | .0019040 | -.000878 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB008 Acquired: 1/12/2025 14:04:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB008 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000262 | -.002442 | .0001335 |
| Stddev | .001181 | .001350 | .0000644 |
| %RSD | 451.7775 | 55.25787 | 48.20037 |
| #1 | .000888 | -.001026 | .0001319 |
| #2 | -.001473 | -.002588 | .0000700 |
| #3 | -.000200 | -.003713 | .0001986 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2646.852 | 62252.21 | 8223.879 | 2928.131 | 3766.062 |
| Stddev | 3.292 | 156.95 | 50.836 | 3.857 | 6.051 |
| %RSD | .1243558 | .2521259 | .6181535 | .1317370 | .1606588 |
| #1 | 2644.320 | 62073.50 | 8282.423 | 2926.338 | 3762.348 |
| #2 | 2645.664 | 62367.70 | 8190.901 | 2925.496 | 3762.794 |
| #3 | 2650.573 | 62315.41 | 8198.312 | 2932.558 | 3773.044 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-20 Acquired: 1/12/2025 14:09:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0680030** | **-.006853** | **.2012559** | **.0372103** | **-.005500** | **83.04090** |
| Stddev | .0005496 | .001109 | .0003438 | .0026145 | .001665 | .24608 |
| %RSD | .8082191 | 16.17565 | .1708310 | 7.026222 | 30.26603 | .2963388 |
| #1 | .0677481 | -.006597 | .2016430 | .0385636 | -.006907 | 82.78320 |
| #2 | .0686337 | -.008067 | .2011388 | .0388708 | -.003662 | 83.06605 |
| #3 | .0676270 | -.005895 | .2009860 | .0341966 | -.005931 | 83.27343 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5530588** | **.0059318** | **.0068674** | **19.32822** | **.1333937** | **.1075751** |
| Stddev | .0025795 | .0001907 | .0001127 | .06916 | .0001751 | .0003085 |
| %RSD | .4664004 | 3.214259 | 1.641224 | .3578176 | .1312935 | .2867607 |
| #1 | .5502614 | .0059288 | .0069174 | 19.28386 | .1332937 | .1079204 |
| #2 | .5535715 | .0061240 | .0069464 | 19.29289 | .1335959 | .1074784 |
| #3 | .5553434 | .0057427 | .0067383 | 19.40791 | .1332915 | .1073267 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1653295** | **209.6769** | **11.39072** | **23.91907** | **.1781140** | **-.020484** |
| Stddev | .0012038 | .9008 | .05450 | .09388 | .0006726 | .000123 |
| %RSD | .7280902 | .4295944 | .4784879 | .3925105 | .3776249 | .5983827 |
| #1 | .1645203 | 208.7757 | 11.33339 | 23.84113 | .1787801 | -.020615 |
| #2 | .1667129 | 209.6779 | 11.39688 | 23.89280 | .1781268 | -.020372 |
| #3 | .1647554 | 210.5772 | 11.44188 | 24.02330 | .1774351 | -.020465 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5028175** | **.2034958** | **.3754857** | **4.992176** | **2.837821** | **.8534876** |
| Stddev | .1297826 | .0025333 | .0027560 | .028236 | .006679 | .0041689 |
| %RSD | 25.81108 | 1.244877 | .7339784 | .5655960 | .2353596 | .4884484 |
| #1 | .4616438 | .2006024 | .3727514 | 4.963638 | 2.839484 | .8501470 |
| #2 | .6481924 | .2045703 | .3754428 | 5.020099 | 2.843511 | .8521563 |
| #3 | .3986162 | .2053147 | .3782628 | 4.992790 | 2.830467 | .8581595 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-20 Acquired: 1/12/2025 14:09:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0030848 | .4329474 | F 16.74291 | .0101414 | 1.149472 | .0776944 |
| Stddev | .0004205 | .0075462 | .08175 | .0007778 | .004218 | .0014497 |
| %RSD | 13.63035 | 1.742991 | .4882391 | 7.669550 | .3669167 | 1.865943 |
| #1 | .0026193 | .4366237 | 16.64854 | .0108410 | 1.145050 | .0760354 |
| #2 | .0031982 | .4242675 | 16.79191 | .0102795 | 1.153450 | .0787175 |
| #3 | .0034370 | .4379510 | 16.78828 | .0093038 | 1.149915 | .0783303 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0781162 |
| Stddev | .0002865 |
| %RSD | .3667446 |
| #1 | .0777883 |
| #2 | .0782420 |
| #3 | .0783182 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3229.115 | 77339.63 | 10504.04 | 3635.739 | 3422.327 |
| Stddev | 6.271 | 130.57 | 58.14 | 12.208 | 9.976 |
| %RSD | .1942121 | .1688207 | .5534607 | .3357671 | .2914962 |
| #1 | 3222.155 | 77358.57 | 10534.08 | 3649.718 | 3411.920 |
| #2 | 3234.326 | 77200.63 | 10437.03 | 3630.320 | 3423.253 |
| #3 | 3230.865 | 77459.69 | 10541.00 | 3627.180 | 3431.807 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19LX5 Acquired: 1/12/2025 14:13:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0144013 | -.001012 | .0396835 | .0093639 | -.001186 | 19.57464 | .1274245 |
| Stddev | .0014624 | .000516 | .0028433 | .0012972 | .000857 | .07401 | .0007990 |
| %RSD | 10.15485 | 51.03538 | 7.164858 | 13.85313 | 72.30779 | .3781039 | .6270641 |
| #1 | .0127277 | -.001126 | .0389702 | .0095793 | -.002138 | 19.62206 | .1271292 |
| #2 | .0154328 | -.001462 | .0372649 | .0079724 | -.000945 | 19.48935 | .1283292 |
| #3 | .0150435 | -.000448 | .0428155 | .0105398 | -.000475 | 19.61250 | .1268152 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014455 | .0009153 | 4.630303 | .0315622 | .0205807 | .0394379 | 50.69135 |
| Stddev | .0000466 | .0000420 | .006877 | .0002911 | .0000799 | .0023199 | .17337 |
| %RSD | 3.221520 | 4.584708 | .1485217 | .9223173 | .3883483 | 5.882385 | .3420193 |
| #1 | .0014989 | .0009627 | 4.638243 | .0317680 | .0205827 | .0390527 | 50.81835 |
| #2 | .0014134 | .0009001 | 4.626363 | .0312291 | .0204998 | .0373348 | 50.49383 |
| #3 | .0014242 | .0008831 | 4.626302 | .0316893 | .0206596 | .0419263 | 50.76188 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.710722 | 5.724392 | .0342309 | -.004925 | .4034145 | .0477553 | .0891847 |
| Stddev | .006299 | .011858 | .0002855 | .000023 | .2860036 | .0009736 | .0006598 |
| %RSD | .2323566 | .2071548 | .8340347 | .4588768 | 70.89572 | 2.038739 | .7397787 |
| #1 | 2.715910 | 5.735220 | .0343472 | -.004912 | .3874823 | .0485152 | .0896020 |
| #2 | 2.703714 | 5.711719 | .0339056 | -.004912 | .1257099 | .0480928 | .0884240 |
| #3 | 2.712543 | 5.726237 | .0344399 | -.004951 | .6970512 | .0466578 | .0895279 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.196640 | .5358852 | .2040306 | .0006033 | .0802231 | 4.030952 | .0007189 |
| Stddev | .081421 | .0032622 | .0005683 | .0001697 | .0033468 | .010385 | .0003275 |
| %RSD | 6.804146 | .6087533 | .2785243 | 28.13097 | 4.171855 | .2576375 | 45.55929 |
| #1 | 1.157621 | .5392105 | .2044887 | .0006919 | .0827742 | 4.024795 | .0006619 |
| #2 | 1.142072 | .5326900 | .2033947 | .0004076 | .0814615 | 4.042942 | .0010712 |
| #3 | 1.290227 | .5357550 | .2042085 | .0007103 | .0764336 | 4.025118 | .0004236 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19LX5 Acquired: 1/12/2025 14:13:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2734791 | .0188224 | .0182273 |
| Stddev | .0009327 | .0004857 | .0000553 |
| %RSD | .3410678 | 2.580165 | .3031448 |
| #1 | .2729047 | .0183143 | .0181920 |
| #2 | .2729773 | .0188709 | .0181989 |
| #3 | .2745554 | .0192820 | .0182910 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2785.300 | 64421.44 | 8720.258 | 3059.223 | 3668.030 |
| Stddev | 2.472 | 229.59 | 25.093 | 16.545 | 5.537 |
| %RSD | .0887592 | .3563841 | .2877610 | .5408192 | .1509462 |
| #1 | 2784.585 | 64156.65 | 8711.725 | 3040.277 | 3668.579 |
| #2 | 2788.051 | 64565.07 | 8700.544 | 3066.568 | 3673.271 |
| #3 | 2783.265 | 64542.59 | 8748.505 | 3070.823 | 3662.239 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-21 Acquired: 1/12/2025 14:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1159847** | **.0864597** | **.2317651** | **.1606867** | **.1152651** | **86.15336** |
| Stddev | .0010430 | .0007693 | .0013956 | .0009023 | .0006308 | .62777 |
| %RSD | .8992333 | .8897629 | .6021666 | .5615088 | .5472322 | .7286711 |
| #1 | .1153261 | .0872089 | .2331219 | .1615669 | .1150115 | 86.37863 |
| #2 | .1171872 | .0864984 | .2318398 | .1607292 | .1159832 | 85.44403 |
| #3 | .1154409 | .0856718 | .2303337 | .1597639 | .1148007 | 86.63741 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.190654** | **.0795888** | **.0967315** | **19.32207** | **.4432576** | **1.009971** |
| Stddev | .026901 | .0004545 | .0004551 | .11867 | .0009158 | .002382 |
| %RSD | .8431057 | .5710435 | .4704525 | .6141889 | .2066150 | .2358609 |
| #1 | 3.195902 | .0795618 | .0972568 | 19.36434 | .4442186 | 1.010541 |
| #2 | 3.161516 | .0800562 | .0964552 | 19.18805 | .4423949 | 1.007356 |
| #3 | 3.214543 | .0791484 | .0964827 | 19.41383 | .4431591 | 1.012016 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5156339** | **212.7927** | **12.01060** | **24.14448** | **1.082510** | **.0341154** |
| Stddev | .0026012 | 1.4893 | .07206 | .13840 | .002924 | .0005297 |
| %RSD | .5044648 | .6998660 | .5999746 | .5732126 | .2701209 | 1.552774 |
| #1 | .5169744 | 213.2562 | 12.01357 | 24.20368 | 1.085024 | .0343440 |
| #2 | .5126358 | 211.1268 | 11.93710 | 23.98632 | 1.079301 | .0335098 |
| #3 | .5172913 | 213.9951 | 12.08113 | 24.24343 | 1.083204 | .0344925 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5442250** | **.9476943** | **1.150493** | **4.924633** | **2.759983** | **.8661613** |
| Stddev | .0708481 | .0032868 | .004866 | .024751 | .003993 | .0067867 |
| %RSD | 13.01817 | .3468221 | .4229607 | .5026020 | .1446857 | .7835414 |
| #1 | .5310121 | .9486650 | 1.155238 | 4.899465 | 2.764564 | .8681473 |
| #2 | .4809136 | .9440315 | 1.150726 | 4.948945 | 2.757238 | .8586031 |
| #3 | .6207495 | .9503865 | 1.145514 | 4.925489 | 2.758146 | .8717335 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-21 Acquired: 1/12/2025 14:17:04 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0028003** | **.4327105** | F **16.75831** | **.0104194** | **1.140317** | **.0786298** |
| Stddev | .0005448 | .0051696 | .02083 | .0007042 | .002842 | .0005894 |
| %RSD | 19.45656 | 1.194704 | .1243085 | 6.758242 | .2492486 | .7495383 |
| #1 | .0032570 | .4270365 | 16.73427 | .0096585 | 1.138792 | .0780363 |
| #2 | .0029468 | .4371536 | 16.77106 | .0105515 | 1.138562 | .0786383 |
| #3 | .0021972 | .4339413 | 16.76959 | .0110482 | 1.143596 | .0792149 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.0773802** |
| Stddev | .0007226 |
| %RSD | .9338761 |
| #1 | .0776835 |
| #2 | .0765554 |
| #3 | .0779018 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3241.281** | **77297.27** | **10562.90** | **3645.753** | **3441.936** |
| Stddev | 7.685 | 173.98 | 36.53 | 9.429 | 11.432 |
| %RSD | .2371101 | .2250809 | .3458231 | .2586319 | .3321453 |
| #1 | 3233.760 | 77303.89 | 10574.82 | 3639.847 | 3431.934 |
| #2 | 3249.121 | 77467.84 | 10521.90 | 3640.785 | 3454.398 |
| #3 | 3240.961 | 77120.07 | 10591.98 | 3656.627 | 3439.476 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-22 Acquired: 1/12/2025 14:20:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0512215** | **-.006148** | **.1094512** | **.0370137** | **-.005677** | **97.99093** |
| Stddev | .0009178 | .001132 | .0015228 | .0020746 | .000289 | .54313 |
| %RSD | 1.791866 | 18.41835 | 1.391293 | 5.604895 | 5.090535 | .5542648 |
| #1 | .0511974 | -.004950 | .1105301 | .0374574 | -.005966 | 97.58813 |
| #2 | .0503159 | -.007200 | .1101142 | .0347532 | -.005388 | 97.77604 |
| #3 | .0521511 | -.006295 | .1077093 | .0388306 | -.005676 | 98.60863 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6766803** | **.0054193** | **.0070355** | **22.85281** | **.1504679** | **.1196275** |
| Stddev | .0048979 | .0000946 | .0001169 | .12124 | .0003720 | .0004004 |
| %RSD | .7238185 | 1.746012 | 1.661504 | .5305082 | .2472047 | .3347369 |
| #1 | .6714522 | .0053519 | .0070351 | 22.74746 | .1501198 | .1193419 |
| #2 | .6774262 | .0055275 | .0069189 | 22.82565 | .1508598 | .1200853 |
| #3 | .6811624 | .0053786 | .0071527 | 22.98533 | .1504241 | .1194554 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1873540** | **191.9539** | **6.648984** | **32.78862** | **.2503189** | **-.018161** |
| Stddev | .0007591 | .9722 | .044253 | .16052 | .0006489 | .000436 |
| %RSD | .4051723 | .5064794 | .6655591 | .4895680 | .2592206 | 2.399471 |
| #1 | .1879820 | 191.1574 | 6.601007 | 32.68690 | .2504886 | -.018281 |
| #2 | .1875697 | 191.6670 | 6.657741 | 32.70529 | .2508661 | -.018525 |
| #3 | .1865104 | 193.0372 | 6.688203 | 32.97368 | .2496021 | -.017678 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6993773** | **.1888558** | **.3965291** | **6.670406** | **6.331075** | **.7941450** |
| Stddev | .2133678 | .0025074 | .0012685 | .019902 | .027335 | .0055783 |
| %RSD | 30.50826 | 1.327651 | .3199116 | .2983634 | .4317603 | .7024260 |
| #1 | .5534567 | .1860086 | .3966663 | 6.648167 | 6.332669 | .7909048 |
| #2 | .9442568 | .1907344 | .3951975 | 6.676507 | 6.357578 | .7909441 |
| #3 | .6004184 | .1898244 | .3977234 | 6.686543 | 6.302978 | .8005862 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-22 Acquired: 1/12/2025 14:20:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0019239 | .5271517 | F 15.23683 | .0089520 | 1.417659 | .1085659 |
| Stddev | .0001029 | .0034131 | .06794 | .0001079 | .001887 | .0010096 |
| %RSD | 5.345764 | .6474690 | .4458852 | 1.205153 | .1331010 | .9299802 |
| #1 | .0018057 | .5292480 | 15.15838 | .0088353 | 1.415564 | .1077245 |
| #2 | .0019932 | .5289939 | 15.27559 | .0089728 | 1.419225 | .1082878 |
| #3 | .0019728 | .5232133 | 15.27651 | .0090480 | 1.418188 | .1096855 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0850207 |
| Stddev | .0003999 |
| %RSD | .4703940 |
| #1 | .0848181 |
| #2 | .0847625 |
| #3 | .0854813 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3744.647 | 86795.12 | 12284.07 | 4128.899 | 3450.790 |
| Stddev | 9.088 | 182.16 | 44.71 | 6.948 | 10.431 |
| %RSD | .2426801 | .2098689 | .3639395 | .1682701 | .3022680 |
| #1 | 3742.007 | 87001.96 | 12291.27 | 4131.568 | 3450.660 |
| #2 | 3737.172 | 86724.77 | 12236.20 | 4134.117 | 3440.425 |
| #3 | 3754.762 | 86658.63 | 12324.74 | 4121.013 | 3461.286 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-01 Acquired: 1/12/2025 14:24:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0993577** | **-.002928** | **3.691362** | **.0452663** | **.0039841** | **45.70058** |
| Stddev | .0023220 | .000527 | .006640 | .0049312 | .0002997 | .24974 |
| %RSD | 2.337004 | 17.98192 | .1798665 | 10.89376 | 7.521605 | .5464715 |
| #1 | .0984126 | -.002519 | 3.697718 | .0408616 | .0041314 | 45.58308 |
| #2 | .0976574 | -.002743 | 3.691896 | .0505937 | .0036393 | 45.53127 |
| #3 | .1020032 | -.003522 | 3.684471 | .0443435 | .0041817 | 45.98740 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.070286** | **.0032501** | **.0129893** | **282.6042** | **.1651142** | **.0755096** |
| Stddev | .006535 | .0000757 | .0000869 | 1.3833 | .0005880 | .0002488 |
| %RSD | .6105650 | 2.328048 | .6689684 | .4894686 | .3561392 | .3295175 |
| #1 | 1.065867 | .0033123 | .0130666 | 281.7545 | .1650073 | .0753884 |
| #2 | 1.067199 | .0032721 | .0130060 | 281.8577 | .1645869 | .0753446 |
| #3 | 1.077793 | .0031659 | .0128952 | 284.2003 | .1657483 | .0757958 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6392870** | **222.0215** | **5.129482** | **59.84106** | **.2411804** | **-.017516** |
| Stddev | .0041421 | 1.2414 | .024966 | .24394 | .0012917 | .000145 |
| %RSD | .6479204 | .5591301 | .4867203 | .4076413 | .5355572 | .8295765 |
| #1 | .6387917 | 221.2901 | 5.112586 | 59.76501 | .2426706 | -.017364 |
| #2 | .6436545 | 221.3194 | 5.117700 | 59.64421 | .2403823 | -.017653 |
| #3 | .6354149 | 223.4548 | 5.158159 | 60.11397 | .2404882 | -.017533 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8767867** | **.1784257** | **5.312009** | **7.216105** | F **12.68331** | **.9685688** |
| Stddev | .2537154 | .0017411 | .013054 | .049092 | .02049 | .0045600 |
| %RSD | 28.93695 | .9758388 | .2457372 | .6803145 | .1615415 | .4707994 |
| #1 | 1.070280 | .1777436 | 5.321943 | 7.169521 | 12.69890 | .9652913 |
| #2 | .589536 | .1804046 | 5.297225 | 7.211424 | 12.66010 | .9666385 |
| #3 | .970544 | .1771289 | 5.316860 | 7.267370 | 12.69093 | .9737765 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-01 Acquired: 1/12/2025 14:24:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0079303 | 6.850763 | F 19.53488 | .4281152 | 1.057969 | .0764442 |
| Stddev | .0003263 | .003948 | .04381 | .0006897 | .002532 | .0007233 |
| %RSD | 4.114068 | .0576241 | .2242684 | .1611026 | .2393274 | .9461662 |
| #1 | .0082767 | 6.855233 | 19.50050 | .4288500 | 1.055077 | .0763537 |
| #2 | .0076288 | 6.849301 | 19.58421 | .4274817 | 1.059789 | .0757705 |
| #3 | .0078854 | 6.847755 | 19.51993 | .4280140 | 1.059040 | .0772086 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5031100 |
| Stddev | .0023477 |
| %RSD | .4666377 |
| #1 | .5020146 |
| #2 | .5015101 |
| #3 | .5058052 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2783.664 | 64307.78 | 9651.833 | 3045.757 | 3306.967 |
| Stddev | 1.788 | 337.16 | 3.682 | 12.400 | 2.609 |
| %RSD | .0642222 | .5242905 | .0381448 | .4071263 | .0788871 |
| #1 | 2785.682 | 64479.76 | 9648.328 | 3041.461 | 3303.991 |
| #2 | 2782.276 | 64524.26 | 9651.502 | 3059.734 | 3308.051 |
| #3 | 2783.036 | 63919.31 | 9655.669 | 3036.077 | 3308.859 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-02 Acquired: 1/12/2025 14:28:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1062284 | -.003749 | 4.491593 | .0456408 | .0119645 | 49.77548 |
| Stddev | .0008862 | .001457 | .005342 | .0042434 | .0010581 | .31026 |
| %RSD | .8342157 | 38.85385 | .1189375 | 9.297416 | 8.843454 | .6233147 |
| #1 | .1057575 | -.003691 | 4.492861 | .0410404 | .0117132 | 49.45296 |
| #2 | .1056770 | -.005235 | 4.496187 | .0464804 | .0131256 | 49.80164 |
| #3 | .1072506 | -.002323 | 4.485731 | .0494017 | .0110547 | 50.07182 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.154878 | .0043117 | .0156896 | 258.8061 | .1464719 | .0876715 |
| Stddev | .006685 | .0000367 | .0000701 | 1.2210 | .0003853 | .0003050 |
| %RSD | .5788355 | .8515023 | .4468447 | .4717849 | .2630582 | .3479127 |
| #1 | 1.148039 | .0043437 | .0157641 | 257.4071 | .1461003 | .0874788 |
| #2 | 1.155199 | .0043197 | .0156249 | 259.3540 | .1464459 | .0875125 |
| #3 | 1.161397 | .0042716 | .0156798 | 259.6572 | .1468696 | .0880232 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9762237 | 234.3833 | 5.204503 | 64.74142 | .2595047 | -.020708 |
| Stddev | .0022727 | 1.3069 | .028910 | .35832 | .0007772 | .000198 |
| %RSD | .2328071 | .5575942 | .5554783 | .5534708 | .2994864 | .9581550 |
| #1 | .9739701 | 232.9273 | 5.171344 | 64.32931 | .2597181 | -.020497 |
| #2 | .9785151 | 234.7675 | 5.224426 | 64.97941 | .2601528 | -.020890 |
| #3 | .9761861 | 235.4550 | 5.217738 | 64.91554 | .2586431 | -.020739 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.415968 | .1412937 | 6.862747 | 7.659714 | F 12.61323 | 1.135866 |
| Stddev | .039210 | .0015639 | .036990 | .046319 | .01080 | .006328 |
| %RSD | 2.769136 | 1.106807 | .5389948 | .6047074 | .0855852 | .5571332 |
| #1 | 1.397176 | .1425684 | 6.879973 | 7.619270 | 12.61581 | 1.128692 |
| #2 | 1.389690 | .1417640 | 6.820285 | 7.649626 | 12.60138 | 1.138249 |
| #3 | 1.461037 | .1395486 | 6.887981 | 7.710245 | 12.62250 | 1.140656 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-02 Acquired: 1/12/2025 14:28:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0069592 | 6.508962 | F 21.68863 | .5027895 | 1.244054 | .0835187 |
| Stddev | .0002369 | .011456 | .06929 | .0014041 | .004088 | .0011307 |
| %RSD | 3.404407 | .1760056 | .3194860 | .2792568 | .3286001 | 1.353847 |
| #1 | .0068429 | 6.511262 | 21.62976 | .5033435 | 1.240901 | .0823110 |
| #2 | .0068029 | 6.496531 | 21.76499 | .5038321 | 1.248673 | .0836930 |
| #3 | .0072318 | 6.519094 | 21.67114 | .5011930 | 1.242587 | .0845522 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5035380 |
| Stddev | .0035251 |
| %RSD | .7000708 |
| #1 | .4999850 |
| #2 | .5035944 |
| #3 | .5070346 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2809.310 | 66350.71 | 9696.691 | 3129.404 | 3264.849 |
| Stddev | 3.359 | 303.19 | 43.019 | 6.604 | 1.743 |
| %RSD | .1195689 | .4569544 | .4436484 | .2110416 | .0533788 |
| #1 | 2807.591 | 66669.57 | 9710.458 | 3133.317 | 3265.632 |
| #2 | 2813.180 | 66066.09 | 9648.473 | 3133.116 | 3262.852 |
| #3 | 2807.158 | 66316.48 | 9731.141 | 3121.779 | 3266.062 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-03 Acquired: 1/12/2025 14:32:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3207874** | **.0002254** | **2.026779** | **.1324490** | **.0136598** | **31.27436** |
| Stddev | .0012803 | .0019001 | .006887 | .0012183 | .0031472 | .14337 |
| %RSD | .3991256 | 842.8716 | .3397840 | .9198263 | 23.03985 | .4584240 |
| #1 | .3212241 | .0006517 | 2.033499 | .1326873 | .0162624 | 31.43855 |
| #2 | .3217922 | .0018762 | 2.027102 | .1335306 | .0145550 | 31.17396 |
| #3 | .3193458 | -.001852 | 2.019737 | .1311292 | .0101620 | 31.21057 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.193348** | **.0011300** | **.0259028** | **121.3604** | **.1248808** | **.0688544** |
| Stddev | .005235 | .0000598 | .0001706 | .4463 | .0006487 | .0004260 |
| %RSD | .4386844 | 5.296927 | .6586750 | .3677595 | .5194602 | .6187461 |
| #1 | 1.199174 | .0010634 | .0260720 | 121.8500 | .1255649 | .0691354 |
| #2 | 1.191830 | .0011471 | .0257309 | 121.2550 | .1242745 | .0690635 |
| #3 | 1.189040 | .0011794 | .0259055 | 120.9762 | .1248029 | .0683642 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5890827** | **586.4937** | **4.642523** | **25.29831** | **.1665137** | **-.061374** |
| Stddev | .0018828 | .8815 | .017698 | .06474 | .0013156 | .000465 |
| %RSD | .3196153 | .1502929 | .3812103 | .2559228 | .7900693 | .7569059 |
| #1 | .5881322 | 587.5050 | 4.662569 | 25.37210 | .1679084 | -.061092 |
| #2 | .5912513 | 585.8881 | 4.635940 | 25.25105 | .1663379 | -.061120 |
| #3 | .5878647 | 586.0880 | 4.629060 | 25.27177 | .1652949 | -.061910 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.919840** | **.1216903** | **10.55893** | **5.619740** | F **11.39756** | **2.434676** |
| Stddev | .025185 | .0012275 | .02303 | .048290 | .03967 | .007227 |
| %RSD | .8625343 | 1.008717 | .2181192 | .8592942 | .3480658 | .2968286 |
| #1 | 2.927956 | .1203588 | 10.54893 | 5.600244 | 11.44334 | 2.442703 |
| #2 | 2.939966 | .1227769 | 10.54258 | 5.674730 | 11.37590 | 2.428687 |
| #3 | 2.891598 | .1219353 | 10.58527 | 5.584245 | 11.37343 | 2.432637 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-03 Acquired: 1/12/2025 14:32:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0153021 | F 26.17827 | F 19.47147 | .1290486 | 1.561152 | .0589167 |
| Stddev | .0004302 | .08732 | .04222 | .0016581 | .006721 | .0003028 |
| %RSD | 2.811216 | .3335689 | .2168404 | 1.284869 | .4304879 | .5139174 |
| #1 | .0157729 | 26.27909 | 19.43301 | .1279737 | 1.554625 | .0591481 |
| #2 | .0149295 | 26.12640 | 19.51665 | .1309581 | 1.568051 | .0590280 |
| #3 | .0152040 | 26.12933 | 19.46474 | .1282138 | 1.560779 | .0585740 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5636431 |
| Stddev | .0030200 |
| %RSD | .5358082 |
| #1 | .5668711 |
| #2 | .5608863 |
| #3 | .5631720 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2664.825 | 63512.43 | 9087.774 | 2975.416 | 3389.622 |
| Stddev | 6.862 | 169.76 | 42.651 | 2.508 | 7.472 |
| %RSD | .2574882 | .2672814 | .4693188 | .0843000 | .2204372 |
| #1 | 2656.903 | 63340.48 | 9125.400 | 2972.742 | 3380.994 |
| #2 | 2668.882 | 63516.90 | 9041.442 | 2977.718 | 3393.958 |
| #3 | 2668.692 | 63679.91 | 9096.480 | 2975.787 | 3393.914 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-04 Acquired: 1/12/2025 14:36:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2259045 | -.003471 | 1.431310 | .1108012 | -.001306 | 86.01473 |
| Stddev | .0027923 | .003309 | .002937 | .0009805 | .001346 | .59518 |
| %RSD | 1.236073 | 95.34310 | .2052273 | .8849059 | 103.0546 | .6919492 |
| #1 | .2271696 | -.000593 | 1.431288 | .1100010 | -.002835 | 86.70016 |
| #2 | .2278404 | -.002733 | 1.434258 | .1105076 | -.000295 | 85.71537 |
| #3 | .2227035 | -.007087 | 1.428383 | .1118949 | -.000789 | 85.62867 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8016631 | .0048476 | .0134037 | 226.5808 | .1642304 | .0788475 |
| Stddev | .0071648 | .0000990 | .0000273 | 1.3210 | .0004156 | .0001183 |
| %RSD | .8937431 | 2.041293 | .2036689 | .5829997 | .2530505 | .1500109 |
| #1 | .8099307 | .0047373 | .0134318 | 228.0792 | .1646720 | .0787741 |
| #2 | .7977938 | .0049284 | .0134021 | 226.0787 | .1641724 | .0787845 |
| #3 | .7972649 | .0048773 | .0133772 | 225.5845 | .1638469 | .0789839 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3914149 | 475.0522 | 3.571326 | 33.78242 | .2452906 | -.051340 |
| Stddev | .0002895 | 1.1564 | .020705 | .21804 | .0012228 | .000692 |
| %RSD | .0739605 | .2434204 | .5797499 | .6454234 | .4985224 | 1.348586 |
| #1 | .3916487 | 474.5572 | 3.595124 | 34.03418 | .2441735 | -.051601 |
| #2 | .3915050 | 476.3737 | 3.561413 | 33.65436 | .2451012 | -.050556 |
| #3 | .3910911 | 474.2258 | 3.557442 | 33.65873 | .2465971 | -.051865 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.584785 | .1638587 | 2.833212 | 10.15508 | 5.035101 | 1.982099 |
| Stddev | .118788 | .0017803 | .006185 | .14005 | .004547 | .004937 |
| %RSD | 4.595649 | 1.086488 | .2182997 | 1.379137 | .0903043 | .2490813 |
| #1 | 2.455786 | .1656597 | 2.834701 | 10.30954 | 5.030920 | 1.981805 |
| #2 | 2.608912 | .1638165 | 2.826418 | 10.11934 | 5.039942 | 1.987176 |
| #3 | 2.689657 | .1620998 | 2.838516 | 10.03636 | 5.034440 | 1.977315 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-04 Acquired: 1/12/2025 14:36:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0118595 | F 16.74631 | F 21.73526 | .0586018 | .8936783 | .1476265 |
| Stddev | .0003528 | .05238 | .05563 | .0010174 | .0015168 | .0021627 |
| %RSD | 2.974506 | .3127910 | .2559370 | 1.736152 | .1697270 | 1.465004 |
| #1 | .0116392 | 16.68768 | 21.67294 | .0587413 | .8944083 | .1501168 |
| #2 | .0122664 | 16.78850 | 21.75292 | .0575218 | .8946921 | .1465428 |
| #3 | .0116729 | 16.76274 | 21.77991 | .0595422 | .8919345 | .1462198 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5470819 |
| Stddev | .0045534 |
| %RSD | .8323079 |
| #1 | .5523376 |
| #2 | .5445835 |
| #3 | .5443246 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2616.906 | 63418.17 | 8782.920 | 2962.749 | 3252.795 |
| Stddev | 3.720 | 176.39 | 45.305 | 4.709 | 3.877 |
| %RSD | .1421530 | .2781403 | .5158345 | .1589566 | .1191881 |
| #1 | 2616.771 | 63233.61 | 8834.714 | 2963.292 | 3250.926 |
| #2 | 2613.255 | 63435.82 | 8750.650 | 2957.792 | 3250.207 |
| #3 | 2620.691 | 63585.07 | 8763.396 | 2967.164 | 3257.253 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05 Acquired: 1/12/2025 14:40:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1920199** | **-.004789** | **1.119968** | **.0343913** | **-.000283** | **53.70108** |
| Stddev | .0010451 | .001095 | .002579 | .0025171 | .001007 | .07920 |
| %RSD | .5442916 | 22.86383 | .2302558 | 7.318963 | 356.3001 | .1474894 |
| #1 | .1930490 | -.004238 | 1.120671 | .0367142 | .000878 | 53.79178 |
| #2 | .1909594 | -.006050 | 1.117110 | .0347427 | -.000804 | 53.66588 |
| #3 | .1920514 | -.004079 | 1.122122 | .0317169 | -.000923 | 53.64557 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7566974** | **.0048173** | **.0081012** | F **974.6396** | **.0965127** | **.0842305** |
| Stddev | .0018362 | .0001749 | .0000166 | 1.9015 | .0007150 | .0005694 |
| %RSD | .2426616 | 3.630452 | .2043919 | .1950998 | .7408403 | .6760006 |
| #1 | .7569434 | .0047063 | .0080970 | 976.8342 | .0958526 | .0843732 |
| #2 | .7583982 | .0047266 | .0081194 | 973.4816 | .0964135 | .0836033 |
| #3 | .7547506 | .0050189 | .0080871 | 973.6031 | .0972722 | .0847150 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2678645** | **203.9165** | **6.771241** | **127.4051** | **.1927373** | **-.018359** |
| Stddev | .0025845 | .5357 | .019423 | .3823 | .0006825 | .000222 |
| %RSD | .9648368 | .2627132 | .2868452 | .3000816 | .3540857 | 1.209842 |
| #1 | .2653575 | 204.5271 | 6.791189 | 127.8465 | .1922263 | -.018303 |
| #2 | .2677161 | 203.5254 | 6.770145 | 127.1755 | .1924731 | -.018171 |
| #3 | .2705200 | 203.6969 | 6.752389 | 127.1934 | .1935123 | -.018604 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.234499** | **.1038484** | **1.140913** | **12.48273** | **5.672305** | **.9190588** |
| Stddev | .220958 | .0008518 | .004192 | .06594 | .021397 | .0024621 |
| %RSD | 17.89859 | .8202360 | .3674079 | .5282756 | .3772222 | .2678954 |
| #1 | 1.394522 | .1038420 | 1.141784 | 12.55250 | 5.665940 | .9217651 |
| #2 | .982392 | .1047034 | 1.144600 | 12.47425 | 5.696162 | .9184601 |
| #3 | 1.326584 | .1029999 | 1.136354 | 12.42143 | 5.654812 | .9169513 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05 Acquired: 1/12/2025 14:40:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0063883 | 4.558583 | F 20.34720 | .0441810 | .2557836 | .1315257 |
| Stddev | .0003165 | .028247 | .02515 | .0004604 | .0004051 | .0023981 |
| %RSD | 4.954112 | .6196481 | .1235820 | 1.042163 | .1583919 | 1.823278 |
| #1 | .0060458 | 4.556011 | 20.31996 | .0437456 | .2562471 | .1335339 |
| #2 | .0066700 | 4.588028 | 20.35212 | .0446630 | .2554969 | .1321728 |
| #3 | .0064490 | 4.531709 | 20.36952 | .0441343 | .2556068 | .1288705 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.035190 |
| Stddev | .001300 |
| %RSD | .1256015 |
| #1 | 1.036499 |
| #2 | 1.033899 |
| #3 | 1.035172 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2709.437 | 63101.85 | 9502.108 | 2990.040 | 2925.995 |
| Stddev | 1.934 | 205.57 | 22.810 | 9.636 | 4.869 |
| %RSD | .0713726 | .3257699 | .2400539 | .3222595 | .1663929 |
| #1 | 2707.480 | 62875.38 | 9513.697 | 2991.044 | 2929.819 |
| #2 | 2709.485 | 63276.67 | 9516.797 | 2979.942 | 2920.514 |
| #3 | 2711.346 | 63153.49 | 9475.830 | 2999.135 | 2927.653 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06 Acquired: 1/12/2025 14:44:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1120504** | **-.005004** | **.5793539** | **.0171352** | **-.000286** | **45.82647** |
| Stddev | .0010975 | .002310 | .0027862 | .0024505 | .002427 | .45383 |
| %RSD | .9794920 | 46.16647 | .4809124 | 14.30085 | 850.0128 | .9903269 |
| #1 | .1119642 | -.007606 | .5814554 | .0199426 | -.001692 | 45.48042 |
| #2 | .1109985 | -.004213 | .5804129 | .0160371 | -.001682 | 45.65868 |
| #3 | .1131885 | -.003193 | .5761935 | .0154257 | .002517 | 46.34030 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4466359** | **.0041147** | **.0045842** | F **1202.710** | **.0723030** | **.0675501** |
| Stddev | .0052124 | .0000641 | .0000318 | 11.169 | .0007770 | .0005467 |
| %RSD | 1.167040 | 1.557793 | .6931320 | .9286424 | 1.074695 | .8092717 |
| #1 | .4427652 | .0041501 | .0045860 | 1195.768 | .0722423 | .0681148 |
| #2 | .4445798 | .0040407 | .0045516 | 1196.769 | .0715581 | .0670235 |
| #3 | .4525628 | .0041532 | .0046151 | 1215.594 | .0731086 | .0675120 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1112371** | **142.6490** | **5.111327** | **146.9320** | **.1621554** | **-.012616** |
| Stddev | .0003849 | 1.1644 | .055203 | 1.2689 | .0008580 | .000454 |
| %RSD | .3459781 | .8162668 | 1.080004 | .8636246 | .5291087 | 3.594931 |
| #1 | .1115603 | 141.6564 | 5.081700 | 145.8971 | .1631122 | -.012475 |
| #2 | .1108114 | 142.3598 | 5.077264 | 146.5512 | .1618994 | -.012250 |
| #3 | .1113396 | 143.9307 | 5.175019 | 148.3477 | .1614545 | -.013123 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9490149** | **.0745291** | **.6268912** | **13.19566** | **3.056354** | **.6824633** |
| Stddev | .0524379 | .0017316 | .0075714 | .13486 | .016363 | .0048288 |
| %RSD | 5.525504 | 2.323454 | 1.207772 | 1.021984 | .5353609 | .7075555 |
| #1 | .9933729 | .0726474 | .6210094 | 13.06252 | 3.075232 | .6783788 |
| #2 | .8911427 | .0748845 | .6242304 | 13.19229 | 3.046244 | .6812185 |
| #3 | .9625290 | .0760555 | .6354339 | 13.33217 | 3.047586 | .6877927 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06 Acquired: 1/12/2025 14:44:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0037063 | 3.154306 | F 19.78968 | .0088462 | .1380292 | .1257056 |
| Stddev | .0002943 | .010779 | .05981 | .0004976 | .0015612 | .0008538 |
| %RSD | 7.939678 | .3417384 | .3022348 | 5.625196 | 1.131027 | .6792103 |
| #1 | .0040356 | 3.160338 | 19.72314 | .0084681 | .1362898 | .1250119 |
| #2 | .0034691 | 3.160719 | 19.83897 | .0094100 | .1384892 | .1266591 |
| #3 | .0036141 | 3.141861 | 19.80693 | .0086607 | .1393088 | .1254458 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.015777 |
| Stddev | .009036 |
| %RSD | .8895990 |
| #1 | 1.007264 |
| #2 | 1.014807 |
| #3 | 1.025259 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2596.951 | 60352.76 | 9309.064 | 2868.598 | 2846.976 |
| Stddev | 9.009 | 634.22 | 19.631 | 37.430 | 15.350 |
| %RSD | .3469121 | 1.050855 | .2108780 | 1.304820 | .5391567 |
| #1 | 2587.148 | 60658.39 | 9305.025 | 2893.668 | 2830.501 |
| #2 | 2604.868 | 60776.29 | 9330.400 | 2886.554 | 2860.874 |
| #3 | 2598.838 | 59623.59 | 9291.767 | 2825.573 | 2849.552 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-07 Acquired: 1/12/2025 14:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1316033** | **-.000925** | **2.329598** | **.0314400** | **.0003706** | **65.99142** |
| Stddev | .0006042 | .001850 | .004030 | .0025739 | .0022273 | .22973 |
| %RSD | .4591011 | 199.9536 | .1729904 | 8.186595 | 601.0121 | .3481277 |
| #1 | .1318096 | .001123 | 2.334096 | .0285896 | .0002494 | 66.13625 |
| #2 | .1309230 | -.002473 | 2.326317 | .0335940 | .0026560 | 66.11148 |
| #3 | .1320773 | -.001425 | 2.328381 | .0321364 | -.001794 | 65.72653 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.266881** | **.0047864** | **.0101821** | **54.94828** | **.1665053** | **.0764149** |
| Stddev | .002762 | .0000163 | .0000727 | .20343 | .0005784 | .0001446 |
| %RSD | .2180316 | .3396604 | .7136256 | .3702296 | .3473514 | .1892378 |
| #1 | 1.269135 | .0047677 | .0102570 | 55.00755 | .1658422 | .0764931 |
| #2 | 1.267708 | .0047945 | .0101774 | 55.11550 | .1669053 | .0765036 |
| #3 | 1.263799 | .0047970 | .0101119 | 54.72179 | .1667684 | .0762480 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4911304** | **144.4322** | **5.312042** | **14.53082** | **.1557031** | **-.010282** |
| Stddev | .0033203 | .4710 | .015384 | .05054 | .0007671 | .000199 |
| %RSD | .6760456 | .3261359 | .2896138 | .3478379 | .4926560 | 1.934623 |
| #1 | .4898151 | 144.6143 | 5.313945 | 14.48748 | .1565778 | -.010249 |
| #2 | .4886693 | 144.7849 | 5.326387 | 14.58634 | .1551452 | -.010496 |
| #3 | .4949068 | 143.8972 | 5.295795 | 14.51864 | .1553861 | -.010102 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6707559** | **.1614817** | **2.705258** | **9.681254** | F **25.57260** | **.6127951** |
| Stddev | .2515982 | .0022275 | .007272 | .021902 | .05105 | .0023972 |
| %RSD | 37.50965 | 1.379411 | .2688241 | .2262300 | .1996231 | .3911961 |
| #1 | .9607986 | .1602386 | 2.701108 | 9.656440 | 25.62757 | .6132272 |
| #2 | .5113092 | .1601530 | 2.701011 | 9.689431 | 25.56354 | .6149469 |
| #3 | .5401599 | .1640533 | 2.713655 | 9.697891 | 25.52669 | .6102112 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-07 Acquired: 1/12/2025 14:48:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0066702 | 3.009836 | F 21.62282 | .1556238 | .5531154 | .0666707 |
| Stddev | .0001608 | .004417 | .07853 | .0001265 | .0003033 | .0006959 |
| %RSD | 2.411268 | .1467355 | .3631986 | .0813135 | .0548331 | 1.043787 |
| #1 | .0065497 | 3.014920 | 21.58545 | .1555101 | .5527855 | .0658838 |
| #2 | .0068528 | 3.006942 | 21.56995 | .1557601 | .5531785 | .0672054 |
| #3 | .0066080 | 3.007646 | 21.71306 | .1556013 | .5533821 | .0669228 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1399879 |
| Stddev | .0006062 |
| %RSD | .4330153 |
| #1 | .1401284 |
| #2 | .1405114 |
| #3 | .1393238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3062.048 | 70489.21 | 10055.39 | 3341.958 | 3545.516 |
| Stddev | 4.910 | 106.06 | 40.74 | 14.480 | 8.437 |
| %RSD | .1603353 | .1504607 | .4051952 | .4332868 | .2379628 |
| #1 | 3056.429 | 70459.77 | 10078.10 | 3344.679 | 3536.936 |
| #2 | 3065.505 | 70400.99 | 10079.71 | 3354.885 | 3553.803 |
| #3 | 3064.210 | 70606.88 | 10008.35 | 3326.310 | 3545.809 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-08 Acquired: 1/12/2025 14:52:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0563155 | -.003991 | 1.016409 | .0239898 | .0512451 | 50.16925 |
| Stddev | .0026684 | .001794 | .000980 | .0014330 | .0016605 | .40403 |
| %RSD | 4.738356 | 44.94342 | .0963778 | 5.973253 | 3.240339 | .8053294 |
| #1 | .0552707 | -.004779 | 1.017223 | .0233104 | .0518250 | 49.97938 |
| #2 | .0543275 | -.001938 | 1.015322 | .0230229 | .0493724 | 50.63324 |
| #3 | .0593482 | -.005256 | 1.016683 | .0256361 | .0525379 | 49.89514 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6197961 | .0035219 | .0100179 | 355.5802 | .1454839 | .0629787 |
| Stddev | .0048426 | .0001269 | .0001218 | 2.0979 | .0006853 | .0001507 |
| %RSD | .7813240 | 3.603715 | 1.215968 | .5899884 | .4710245 | .2392248 |
| #1 | .6163361 | .0036667 | .0099377 | 353.7352 | .1458229 | .0628966 |
| #2 | .6253303 | .0034300 | .0101581 | 355.1432 | .1459337 | .0631526 |
| #3 | .6177218 | .0034691 | .0099580 | 357.8621 | .1446952 | .0628869 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5740883 | 140.7619 | 6.182437 | 77.32365 | .1772590 | -.009698 |
| Stddev | .0007894 | 1.0779 | .038553 | .50734 | .0009706 | .000374 |
| %RSD | .1375070 | .7657639 | .6235862 | .6561259 | .5475620 | 3.860818 |
| #1 | .5749320 | 140.2956 | 6.165590 | 77.05148 | .1770838 | -.009833 |
| #2 | .5733676 | 141.9945 | 6.226546 | 77.90900 | .1783053 | -.009275 |
| #3 | .5739653 | 139.9957 | 6.155176 | 77.01048 | .1763880 | -.009987 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9952162 | .1211578 | 1.533766 | 7.812587 | 9.149109 | .6385657 |
| Stddev | .0982385 | .0009599 | .009991 | .097517 | .006864 | .0061338 |
| %RSD | 9.871072 | .7922328 | .6513736 | 1.248207 | .0750236 | .9605672 |
| #1 | .9190028 | .1207730 | 1.540086 | 7.756988 | 9.156851 | .6360545 |
| #2 | .9605600 | .1204501 | 1.538965 | 7.925187 | 9.143767 | .6455566 |
| #3 | 1.106086 | .1222504 | 1.522248 | 7.755586 | 9.146709 | .6340859 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-08 Acquired: 1/12/2025 14:52:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNH9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0060422 | 3.551889 | F 19.93153 | .1075085 | .9502148 | .0927117 |
| Stddev | .0004127 | .006186 | .12455 | .0012183 | .0072815 | .0008443 |
| %RSD | 6.830470 | .1741474 | .6248852 | 1.133201 | .7662957 | .9106824 |
| #1 | .0064283 | 3.546772 | 20.01556 | .1076323 | .9523507 | .0919598 |
| #2 | .0060910 | 3.558763 | 19.78844 | .1086602 | .9421043 | .0936251 |
| #3 | .0056072 | 3.550132 | 19.99058 | .1062330 | .9561895 | .0925502 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3087030 |
| Stddev | .0030759 |
| %RSD | .9964057 |
| #1 | .3072648 |
| #2 | .3122346 |
| #3 | .3066097 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2727.953 | 64752.39 | 9614.222 | 3064.979 | 3146.208 |
| Stddev | 7.620 | 156.86 | 76.530 | 16.281 | 5.149 |
| %RSD | .2793180 | .2422520 | .7960106 | .5311797 | .1636721 |
| #1 | 2719.260 | 64835.88 | 9595.734 | 3064.940 | 3141.189 |
| #2 | 2733.477 | 64571.44 | 9698.303 | 3048.717 | 3145.956 |
| #3 | 2731.122 | 64849.85 | 9548.631 | 3081.278 | 3151.478 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09 Acquired: 1/12/2025 14:56:51 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0562328 | -.010558 | .4099859 | .0332371 | .0145065 | 63.98454 |
| Stddev | .0008165 | .003282 | .0027021 | .0014797 | .0019860 | .06464 |
| %RSD | 1.452097 | 31.08712 | .6590805 | 4.451805 | 13.69068 | .1010282 |
| #1 | .0552899 | -.010893 | .4127708 | .0349453 | .0155138 | 63.91597 |
| #2 | .0566973 | -.013659 | .4098119 | .0324137 | .0122187 | 64.04436 |
| #3 | .0567111 | -.007121 | .4073749 | .0323523 | .0157872 | 63.99329 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4132420 | .0049370 | .0128718 | 589.9147 | .1592426 | .0978653 |
| Stddev | .0007608 | .0001749 | .0000910 | 3.5645 | .0007373 | .0004569 |
| %RSD | .1841151 | 3.543378 | .7069668 | .6042396 | .4630145 | .4668192 |
| #1 | .4132225 | .0051309 | .0129729 | 586.8774 | .1591822 | .0980823 |
| #2 | .4140124 | .0047910 | .0128461 | 593.8389 | .1600082 | .0981732 |
| #3 | .4124911 | .0048893 | .0127964 | 589.0278 | .1585373 | .0973404 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2035723 | 222.5158 | 8.153967 | 68.05057 | .2435605 | -.020817 |
| Stddev | .0024476 | .2670 | .009113 | .06186 | .0020581 | .000248 |
| %RSD | 1.202316 | .1199774 | .1117603 | .0909041 | .8450094 | 1.191775 |
| #1 | .2053738 | 222.2180 | 8.143543 | 67.98023 | .2457474 | -.020885 |
| #2 | .2007857 | 222.7337 | 8.160425 | 68.07500 | .2432725 | -.021023 |
| #3 | .2045574 | 222.5957 | 8.157933 | 68.09650 | .2416616 | -.020541 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9917358 | .1407659 | .8263005 | 12.87642 | 6.603135 | .9865998 |
| Stddev | .0694539 | .0015960 | .0038754 | .01783 | .029290 | .0020694 |
| %RSD | 7.003269 | 1.133817 | .4690014 | .1384482 | .4435813 | .2097538 |
| #1 | .9385075 | .1422183 | .8292735 | 12.88803 | 6.636558 | .9842688 |
| #2 | .9663988 | .1390573 | .8277103 | 12.88533 | 6.581939 | .9882209 |
| #3 | 1.070301 | .1410220 | .8219175 | 12.85589 | 6.590909 | .9873096 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09 Acquired: 1/12/2025 14:56:51 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014362 | 1.264523 | F 18.89280 | .0403018 | 1.318021 | .1595016 |
| Stddev | .0003829 | .005454 | .09055 | .0003695 | .006649 | .0003426 |
| %RSD | 26.66408 | .4313247 | .4792733 | .9167207 | .5044353 | .2148033 |
| #1 | .0011834 | 1.269812 | 18.81682 | .0401276 | 1.315244 | .1591701 |
| #2 | .0012484 | 1.264840 | 18.86859 | .0407262 | 1.313211 | .1594805 |
| #3 | .0018768 | 1.258917 | 18.99299 | .0400517 | 1.325608 | .1598543 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3792159 |
| Stddev | .0004050 |
| %RSD | .1067917 |
| #1 | .3796600 |
| #2 | .3791205 |
| #3 | .3788671 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2964.779 | 68867.98 | 10166.94 | 3248.918 | 3097.963 |
| Stddev | 8.735 | 92.24 | 39.65 | 2.959 | 15.983 |
| %RSD | .2946230 | .1339333 | .3900288 | .0910709 | .5159296 |
| #1 | 2963.547 | 68965.75 | 10193.91 | 3249.676 | 3082.819 |
| #2 | 2956.726 | 68782.52 | 10185.51 | 3245.654 | 3096.398 |
| #3 | 2974.065 | 68855.65 | 10121.41 | 3251.425 | 3114.671 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-10 Acquired: 1/12/2025 15:00:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0541464** | **-.009695** | **.4097203** | **.0322841** | **.0153251** | **63.04984** |
| Stddev | .0002981 | .002705 | .0022101 | .0027721 | .0016889 | .11548 |
| %RSD | .5506222 | 27.89643 | .5394200 | 8.586675 | 11.02045 | .1831504 |
| #1 | .0544906 | -.007027 | .4089250 | .0354342 | .0148737 | 63.01830 |
| #2 | .0539754 | -.012435 | .4122180 | .0312015 | .0139078 | 63.17781 |
| #3 | .0539730 | -.009622 | .4080179 | .0302167 | .0171939 | 62.95341 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4101670** | **.0050771** | **.0131044** | **581.9273** | **.1578726** | **.0979667** |
| Stddev | .0029796 | .0001855 | .0001265 | 3.1176 | .0006111 | .0001177 |
| %RSD | .7264297 | 3.654233 | .9653927 | .5357328 | .3870870 | .1201394 |
| #1 | .4067356 | .0050574 | .0131965 | 582.0665 | .1573809 | .0980118 |
| #2 | .4120988 | .0049021 | .0129602 | 584.9730 | .1576800 | .0980553 |
| #3 | .4116668 | .0052716 | .0131566 | 578.7425 | .1585567 | .0978332 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2047901** | **218.8112** | **8.073635** | **66.95139** | **.2437121** | **-.021392** |
| Stddev | .0022202 | .4991 | .033404 | .20394 | .0006091 | .000100 |
| %RSD | 1.084149 | .2281010 | .4137417 | .3046066 | .2499258 | .4674970 |
| #1 | .2023174 | 218.4042 | 8.035939 | 66.72718 | .2439938 | -.021406 |
| #2 | .2054405 | 219.3681 | 8.085407 | 67.12585 | .2430131 | -.021286 |
| #3 | .2066126 | 218.6613 | 8.099560 | 67.00115 | .2441294 | -.021485 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.071011** | **.1434101** | **.8241859** | **12.65992** | **6.762961** | **.9696986** |
| Stddev | .044884 | .0017289 | .0036248 | .08144 | .006078 | .0026920 |
| %RSD | 4.190834 | 1.205540 | .4398048 | .6432531 | .0898735 | .2776077 |
| #1 | 1.086747 | .1450144 | .8264109 | 12.57416 | 6.767082 | .9668089 |
| #2 | 1.020378 | .1436369 | .8261436 | 12.66939 | 6.755980 | .9721353 |
| #3 | 1.105909 | .1415790 | .8200032 | 12.73620 | 6.765820 | .9701515 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-10 Acquired: 1/12/2025 15:00:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015428 | 1.282651 | F 19.10305 | .0409426 | 1.324452 | .1581655 |
| Stddev | .0003897 | .002328 | .08963 | .0006237 | .002245 | .0006049 |
| %RSD | 25.25754 | .1815373 | .4691718 | 1.523391 | .1695009 | .3824640 |
| #1 | .0014198 | 1.280469 | 19.07647 | .0404850 | 1.323378 | .1579299 |
| #2 | .0019792 | 1.282382 | 19.02973 | .0416530 | 1.322945 | .1588528 |
| #3 | .0012296 | 1.285102 | 19.20297 | .0406898 | 1.327032 | .1577138 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3707748 |
| Stddev | .0007429 |
| %RSD | .2003544 |
| #1 | .3707689 |
| #2 | .3715206 |
| #3 | .3700349 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2931.668 | 69002.11 | 10014.98 | 3223.342 | 3059.318 |
| Stddev | 8.506 | 96.12 | 30.10 | 14.010 | 8.036 |
| %RSD | .2901465 | .1393007 | .3005604 | .4346390 | .2626719 |
| #1 | 2922.216 | 69112.83 | 10012.62 | 3213.700 | 3050.180 |
| #2 | 2934.085 | 68939.99 | 10046.19 | 3216.913 | 3062.492 |
| #3 | 2938.705 | 68953.51 | 9986.13 | 3239.412 | 3065.283 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09LX5 Acquired: 1/12/2025 15:05:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0107103 | -.001842 | .0810139 | .0098546 | .0010447 | 12.71723 | .0782436 |
| Stddev | .0010332 | .001325 | .0007348 | .0003916 | .0012216 | .03391 | .0000399 |
| %RSD | 9.646853 | 71.93576 | .9070410 | 3.973518 | 116.9382 | .2666404 | .0509596 |
| #1 | .0117689 | -.001496 | .0801992 | .0096626 | .0023959 | 12.69082 | .0782634 |
| #2 | .0097046 | -.003306 | .0812157 | .0095961 | .0000183 | 12.70540 | .0782696 |
| #3 | .0106573 | -.000724 | .0816266 | .0103051 | .0007199 | 12.75547 | .0781977 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0011561 | .0021064 | 121.9894 | .0356649 | .0183663 | .0451037 | 46.86529 |
| Stddev | .0001094 | .0000378 | .3698 | .0002511 | .0005664 | .0007349 | .19672 |
| %RSD | 9.464852 | 1.794064 | .3031728 | .7040639 | 3.083885 | 1.629269 | .4197593 |
| #1 | .0012477 | .0021269 | 121.5840 | .0358984 | .0177473 | .0458395 | 46.66622 |
| #2 | .0011857 | .0020628 | 122.0759 | .0356969 | .0184928 | .0451016 | 46.87009 |
| #3 | .0010349 | .0021294 | 122.3084 | .0353993 | .0188587 | .0443698 | 47.05957 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.689710 | 14.07595 | .0473095 | -.004537 | .2298586 | .0299189 | .1762170 |
| Stddev | .007476 | .07859 | .0002040 | .000343 | .2832744 | .0005715 | .0008587 |
| %RSD | .4424712 | .5583026 | .4312418 | 7.555342 | 123.2386 | 1.910321 | .4873071 |
| #1 | 1.681632 | 13.98790 | .0470781 | -.004168 | -.035335 | .0305777 | .1771008 |
| #2 | 1.691112 | 14.10098 | .0474632 | -.004845 | .196628 | .0295556 | .1753858 |
| #3 | 1.696387 | 14.13897 | .0473874 | -.004600 | .528283 | .0296235 | .1761643 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.452587 | 1.235809 | .2030579 | .0003312 | .2323070 | 4.120428 | .0043301 |
| Stddev | .036922 | .002380 | .0020227 | .0004169 | .0039353 | .012557 | .0001745 |
| %RSD | 1.505415 | .1925914 | .9960964 | 125.8654 | 1.694029 | .3047581 | 4.028707 |
| #1 | 2.421483 | 1.233423 | .2012161 | .0000408 | .2329705 | 4.105930 | .0042678 |
| #2 | 2.493390 | 1.238183 | .2027349 | .0008089 | .2280822 | 4.127899 | .0041954 |
| #3 | 2.442889 | 1.235823 | .2052226 | .0001439 | .2358685 | 4.127455 | .0045272 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09LX5 Acquired: 1/12/2025 15:05:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2948347 | .0285363 | .0780869 |
| Stddev | .0011950 | .0002976 | .0005545 |
| %RSD | .4052983 | 1.042991 | .7100600 |
| #1 | .2938827 | .0282452 | .0777148 |
| #2 | .2961757 | .0285239 | .0778218 |
| #3 | .2944457 | .0288400 | .0787242 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2647.363 | 64275.56 | 8615.965 | 3003.858 | 3419.449 |
| Stddev | 1.975 | 94.37 | 30.968 | 9.289 | 5.156 |
| %RSD | .0746121 | .1468266 | .3594209 | .3092388 | .1507813 |
| #1 | 2648.568 | 64199.66 | 8582.833 | 2993.566 | 3416.495 |
| #2 | 2645.083 | 64245.78 | 8620.879 | 3006.389 | 3416.449 |
| #3 | 2648.438 | 64381.22 | 8644.181 | 3011.619 | 3425.402 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-11 Acquired: 1/12/2025 15:09:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1074384** | **.0824037** | **.4432440** | **.1636308** | **.1463596** | **65.88909** |
| Stddev | .0038571 | .0010606 | .0016273 | .0007440 | .0030271 | .39742 |
| %RSD | 3.590097 | 1.287131 | .3671373 | .4546633 | 2.068260 | .6031626 |
| #1 | .1115163 | .0813694 | .4424661 | .1638715 | .1459669 | 66.22740 |
| #2 | .1069506 | .0823529 | .4421516 | .1627962 | .1495639 | 65.45142 |
| #3 | .1038484 | .0834889 | .4451142 | .1642245 | .1435480 | 65.98845 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.323137** | **.0822174** | **.1037800** | **580.7477** | **.4741699** | **1.011302** |
| Stddev | .015315 | .0004531 | .0003754 | 3.0866 | .0012245 | .000162 |
| %RSD | .4608705 | .5511511 | .3617715 | .5314809 | .2582307 | .0159736 |
| #1 | 3.339211 | .0818521 | .1033644 | 581.5288 | .4755835 | 1.011391 |
| #2 | 3.308714 | .0827245 | .1040947 | 577.3457 | .4734419 | 1.011115 |
| #3 | 3.321487 | .0820755 | .1038809 | 583.3687 | .4734842 | 1.011399 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5621197** | **220.7271** | **8.696659** | **66.97142** | **1.151206** | **.0389094** |
| Stddev | .0011284 | 1.3393 | .041279 | .38595 | .000714 | .0002592 |
| %RSD | .2007352 | .6067789 | .4746567 | .5762957 | .0620360 | .6662691 |
| #1 | .5617200 | 221.9755 | 8.740405 | 67.33814 | 1.151088 | .0390221 |
| #2 | .5633935 | 219.3124 | 8.658394 | 66.56875 | 1.150559 | .0386129 |
| #3 | .5612455 | 220.8936 | 8.691179 | 67.00738 | 1.151973 | .0390932 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9786867** | **.8946458** | **1.658053** | **12.70155** | **6.681482** | **.9795618** |
| Stddev | .1706436 | .0042784 | .003097 | .11103 | .013203 | .0065668 |
| %RSD | 17.43597 | .4782185 | .1867831 | .8741745 | .1976106 | .6703782 |
| #1 | 1.161595 | .8904506 | 1.657043 | 12.78080 | 6.690470 | .9862024 |
| #2 | .950696 | .8944842 | 1.655588 | 12.57465 | 6.666323 | .9730714 |
| #3 | .823769 | .8990027 | 1.661529 | 12.74922 | 6.687654 | .9794116 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-11 Acquired: 1/12/2025 15:09:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010774 | 1.277560 | F 18.36330 | .0414329 | 1.282668 | .1567541 |
| Stddev | .0003522 | .011198 | .07397 | .0007750 | .001331 | .0016197 |
| %RSD | 32.69134 | .8765405 | .4028378 | 1.870505 | .1037836 | 1.033276 |
| #1 | .0013314 | 1.270606 | 18.30652 | .0416756 | 1.283784 | .1582754 |
| #2 | .0012255 | 1.271594 | 18.44695 | .0420576 | 1.281195 | .1550513 |
| #3 | .0006753 | 1.290478 | 18.33643 | .0405656 | 1.283025 | .1569356 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3747869 |
| Stddev | .0024436 |
| %RSD | .6519940 |
| #1 | .3769001 |
| #2 | .3721111 |
| #3 | .3753495 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2912.194 | 68452.82 | 10157.78 | 3239.946 | 3046.380 |
| Stddev | 9.863 | 268.45 | 26.99 | 9.482 | 6.012 |
| %RSD | .3386788 | .3921685 | .2656847 | .2926526 | .1973341 |
| #1 | 2900.963 | 68159.31 | 10176.96 | 3231.780 | 3039.639 |
| #2 | 2916.176 | 68685.91 | 10126.92 | 3250.345 | 3051.184 |
| #3 | 2919.444 | 68513.24 | 10169.45 | 3237.712 | 3048.318 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-12 Acquired: 1/12/2025 15:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0465866** | **-.003383** | **.6523129** | **.0232476** | **.0153242** | **50.56242** |
| Stddev | .0016858 | .002074 | .0018005 | .0030468 | .0020101 | .03806 |
| %RSD | 3.618597 | 61.32071 | .2760185 | 13.10573 | 13.11736 | .0752824 |
| #1 | .0472839 | -.004043 | .6543911 | .0238255 | .0132440 | 50.54158 |
| #2 | .0446640 | -.001059 | .6512223 | .0199532 | .0154723 | 50.53933 |
| #3 | .0478118 | -.005047 | .6513253 | .0259640 | .0172561 | 50.60636 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4953516** | **.0039968** | **.0089073** | **358.2941** | **.1277239** | **.0668638** |
| Stddev | .0020553 | .0000441 | .0000698 | 2.9741 | .0002260 | .0002883 |
| %RSD | .4149136 | 1.103559 | .7840749 | .8300655 | .1769857 | .4312482 |
| #1 | .4956379 | .0039592 | .0089826 | 361.5859 | .1279441 | .0671949 |
| #2 | .4931682 | .0040454 | .0088447 | 357.4959 | .1274924 | .0666680 |
| #3 | .4972487 | .0039858 | .0088946 | 355.8006 | .1277351 | .0667284 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2620644** | **151.3012** | **5.959275** | **49.48922** | **.1739334** | **-.012208** |
| Stddev | .0019189 | .1133 | .013770 | .09033 | .0003644 | .000095 |
| %RSD | .7322149 | .0748973 | .2310657 | .1825290 | .2094803 | .7767133 |
| #1 | .2642431 | 151.1751 | 5.954011 | 49.40662 | .1741158 | -.012257 |
| #2 | .2613245 | 151.3946 | 5.948914 | 49.58568 | .1741706 | -.012269 |
| #3 | .2606257 | 151.3339 | 5.974901 | 49.47536 | .1735139 | -.012099 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9399519** | **.1104947** | **.9385643** | **8.789433** | **5.514665** | **.6738983** |
| Stddev | .1362112 | .0012359 | .0030102 | .030754 | .031775 | .0022353 |
| %RSD | 14.49130 | 1.118517 | .3207271 | .3498982 | .5761985 | .3316932 |
| #1 | .8838313 | .1091415 | .9399113 | 8.813137 | 5.551071 | .6714750 |
| #2 | 1.095257 | .1107789 | .9406658 | 8.800481 | 5.492508 | .6758794 |
| #3 | .840767 | .1115638 | .9351158 | 8.754681 | 5.500415 | .6743405 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-12 Acquired: 1/12/2025 15:13:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0022419 | 1.423773 | F 20.64027 | .1046392 | 1.035388 | .1070603 |
| Stddev | .0001306 | .008595 | .05321 | .0009536 | .001945 | .0005087 |
| %RSD | 5.823249 | .6037126 | .2578082 | .9112959 | .1878789 | .4751106 |
| #1 | .0022734 | 1.433098 | 20.65135 | .1054887 | 1.036229 | .1069923 |
| #2 | .0023538 | 1.416167 | 20.58240 | .1036078 | 1.033164 | .1065890 |
| #3 | .0020985 | 1.422053 | 20.68708 | .1048212 | 1.036772 | .1075995 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2563479 |
| Stddev | .0001144 |
| %RSD | .0446125 |
| #1 | .2562491 |
| #2 | .2564732 |
| #3 | .2563214 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2872.676 | 67577.01 | 9787.328 | 3190.516 | 3209.819 |
| Stddev | 7.226 | 216.50 | 33.625 | 10.435 | 9.846 |
| %RSD | .2515465 | .3203714 | .3435593 | .3270765 | .3067424 |
| #1 | 2864.915 | 67750.87 | 9800.420 | 3182.039 | 3198.630 |
| #2 | 2873.902 | 67334.51 | 9749.126 | 3187.338 | 3213.670 |
| #3 | 2879.211 | 67645.65 | 9812.438 | 3202.171 | 3217.158 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-13 Acquired: 1/12/2025 15:17:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0527499 | -.002339 | 1.062296 | .0231913 | .0325435 | 50.06218 |
| Stddev | .0019004 | .001934 | .002953 | .0030747 | .0014329 | .24342 |
| %RSD | 3.602682 | 82.67138 | .2779988 | 13.25814 | 4.403044 | .4862323 |
| #1 | .0528671 | -.000754 | 1.064768 | .0257097 | .0315029 | 50.29243 |
| #2 | .0545891 | -.004493 | 1.059026 | .0197648 | .0341778 | 49.80745 |
| #3 | .0507937 | -.001769 | 1.063096 | .0240993 | .0319498 | 50.08667 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5968276 | .0038562 | .0098146 | 328.0562 | .1467998 | .0687695 |
| Stddev | .0025492 | .0000487 | .0001408 | .6782 | .0004230 | .0002998 |
| %RSD | .4271238 | 1.262388 | 1.435034 | .2067291 | .2881156 | .4359519 |
| #1 | .5975246 | .0039105 | .0099768 | 327.9091 | .1464998 | .0689413 |
| #2 | .5940024 | .0038418 | .0097435 | 327.4637 | .1466160 | .0689439 |
| #3 | .5989558 | .0038164 | .0097235 | 328.7959 | .1472836 | .0684233 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3337580 | 144.5301 | 5.765314 | 52.91933 | .1999160 | -.010402 |
| Stddev | .0027642 | .7452 | .017393 | .34100 | .0007124 | .000377 |
| %RSD | .8281938 | .5155945 | .3016798 | .6443685 | .3563287 | 3.621608 |
| #1 | .3335687 | 145.0326 | 5.774872 | 53.16286 | .1991408 | -.010206 |
| #2 | .3366119 | 143.6739 | 5.745238 | 52.52961 | .2005418 | -.010836 |
| #3 | .3310934 | 144.8838 | 5.775832 | 53.06553 | .2000653 | -.010163 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8554691 | .1207308 | 1.294759 | 9.049030 | 4.925813 | .6493830 |
| Stddev | .1208940 | .0013300 | .001426 | .005433 | .018342 | .0034533 |
| %RSD | 14.13190 | 1.101588 | .1101500 | .0600434 | .3723606 | .5317773 |
| #1 | .9950107 | .1194565 | 1.293140 | 9.055272 | 4.933056 | .6514680 |
| #2 | .7890826 | .1206256 | 1.295307 | 9.045365 | 4.939426 | .6453969 |
| #3 | .7823139 | .1221102 | 1.295829 | 9.046452 | 4.904955 | .6512842 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-13 Acquired: 1/12/2025 15:17:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0040072 | 1.257485 | F 20.80384 | .1001090 | .9249731 | .1216891 |
| Stddev | .0003003 | .006142 | .09368 | .0008537 | .0034309 | .0012516 |
| %RSD | 7.493523 | .4884006 | .4502805 | .8527845 | .3709168 | 1.028521 |
| #1 | .0037386 | 1.264482 | 20.71609 | .1001426 | .9216285 | .1225617 |
| #2 | .0039516 | 1.254985 | 20.90249 | .0992390 | .9284841 | .1222504 |
| #3 | .0043314 | 1.252987 | 20.79295 | .1009455 | .9248067 | .1202551 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2309328 |
| Stddev | .0012232 |
| %RSD | .5296986 |
| #1 | .2318860 |
| #2 | .2295535 |
| #3 | .2313589 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2863.080 | 65627.14 | 9678.827 | 3122.565 | 3265.979 |
| Stddev | 4.734 | 82.20 | 65.208 | 7.507 | 5.123 |
| %RSD | .1653340 | .1252583 | .6737191 | .2404137 | .1568642 |
| #1 | 2857.709 | 65614.63 | 9736.855 | 3130.351 | 3260.946 |
| #2 | 2864.888 | 65714.88 | 9608.260 | 3121.970 | 3265.804 |
| #3 | 2866.643 | 65551.91 | 9691.366 | 3115.372 | 3271.188 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-14 Acquired: 1/12/2025 15:21:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1549279** | **-.006236** | **.9166202** | **.0257216** | **-.001820** | **50.85926** |
| Stddev | .0013932 | .001361 | .0018596 | .0027800 | .001284 | .14333 |
| %RSD | .8992621 | 21.82415 | .2028749 | 10.80795 | 70.51965 | .2818220 |
| #1 | .1555509 | -.007709 | .9156293 | .0254422 | -.002278 | 50.99871 |
| #2 | .1533319 | -.005025 | .9154659 | .0286307 | -.000371 | 50.86674 |
| #3 | .1559009 | -.005973 | .9187654 | .0230919 | -.002813 | 50.71234 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6521180** | **.0044007** | **.0062794** | F **950.4281** | **.0898617** | **.0781541** |
| Stddev | .0016982 | .0000056 | .0000686 | 6.5687 | .0005156 | .0006943 |
| %RSD | .2604050 | .1274722 | 1.091831 | .6911297 | .5737098 | .8883654 |
| #1 | .6523774 | .0044053 | .0063291 | 953.6612 | .0893861 | .0788826 |
| #2 | .6503050 | .0044025 | .0062012 | 942.8695 | .0897895 | .0775000 |
| #3 | .6536714 | .0043945 | .0063079 | 954.7536 | .0904096 | .0780795 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2069581** | **170.9577** | **6.006243** | **114.9693** | **.1724567** | **-.015025** |
| Stddev | .0024396 | .2793 | .015508 | .1355 | .0015435 | .000110 |
| %RSD | 1.178801 | .1633678 | .2581964 | .1178322 | .8949893 | .7343386 |
| #1 | .2052067 | 171.2727 | 6.010311 | 115.0475 | .1707584 | -.015087 |
| #2 | .2097446 | 170.8602 | 5.989107 | 114.8129 | .1728378 | -.015091 |
| #3 | .2059230 | 170.7403 | 6.019312 | 115.0476 | .1737739 | -.014898 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.108813** | **.0997463** | **.9517076** | **11.90706** | **5.221444** | **.7843680** |
| Stddev | .091351 | .0024114 | .0023854 | .05816 | .009560 | .0006132 |
| %RSD | 8.238604 | 2.417586 | .2506440 | .4884389 | .1831008 | .0781819 |
| #1 | 1.214131 | .1023930 | .9539623 | 11.93943 | 5.214777 | .7846087 |
| #2 | 1.051055 | .0976737 | .9492100 | 11.83992 | 5.217159 | .7836710 |
| #3 | 1.061252 | .0991723 | .9519505 | 11.94184 | 5.232398 | .7848244 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-14 Acquired: 1/12/2025 15:21:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0047190 | 3.158533 | F 22.68836 | .0306761 | .2733383 | .1274993 |
| Stddev | .0004238 | .012102 | .07491 | .0004076 | .0017140 | .0005827 |
| %RSD | 8.981355 | .3831451 | .3301797 | 1.328712 | .6270468 | .4569941 |
| #1 | .0048390 | 3.153301 | 22.64213 | .0302781 | .2752572 | .1281658 |
| #2 | .0042481 | 3.172371 | 22.64817 | .0310927 | .2727984 | .1272457 |
| #3 | .0050698 | 3.149929 | 22.77479 | .0306576 | .2719592 | .1270864 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .9827621 |
| Stddev | .0036895 |
| %RSD | .3754220 |
| #1 | .9865377 |
| #2 | .9825834 |
| #3 | .9791652 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2669.525 | 62434.65 | 9394.370 | 2976.776 | 2898.883 |
| Stddev | 5.895 | 148.82 | 18.982 | 13.863 | 2.457 |
| %RSD | .2208428 | .2383632 | .2020536 | .4657075 | .0847565 |
| #1 | 2665.916 | 62379.64 | 9402.855 | 2962.725 | 2898.173 |
| #2 | 2676.328 | 62603.15 | 9407.628 | 2990.444 | 2901.617 |
| #3 | 2666.331 | 62321.17 | 9372.626 | 2977.161 | 2896.859 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-15 Acquired: 1/12/2025 15:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1160225** | **-.004106** | **1.148196** | **.0297673** | **-.003773** | **62.15545** |
| Stddev | .0017814 | .000377 | .002891 | .0009963 | .000941 | .30079 |
| %RSD | 1.535355 | 9.170972 | .2517538 | 3.346991 | 24.93127 | .4839388 |
| #1 | .1176758 | -.003699 | 1.150096 | .0308263 | -.002690 | 62.24007 |
| #2 | .1141361 | -.004177 | 1.149622 | .0296272 | -.004386 | 62.40486 |
| #3 | .1162557 | -.004442 | 1.144869 | .0288485 | -.004244 | 61.82140 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9121255** | **.0049698** | **.0080615** | **22.51490** | **.1205153** | **.0995931** |
| Stddev | .0045696 | .0000598 | .0000203 | .10737 | .0003523 | .0002921 |
| %RSD | .5009833 | 1.203469 | .2512582 | .4768846 | .2923456 | .2932567 |
| #1 | .9097370 | .0049130 | .0080484 | 22.52031 | .1202629 | .0998314 |
| #2 | .9173944 | .0050322 | .0080513 | 22.61946 | .1209178 | .0992673 |
| #3 | .9092451 | .0049642 | .0080848 | 22.40493 | .1203651 | .0996806 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3372817** | **157.2912** | **8.489768** | **17.49968** | **.1744100** | **-.013175** |
| Stddev | .0026859 | .4674 | .024350 | .08753 | .0004903 | .000140 |
| %RSD | .7963414 | .2971658 | .2868158 | .5002087 | .2811190 | 1.064909 |
| #1 | .3356270 | 157.3569 | 8.477162 | 17.52442 | .1749720 | -.013124 |
| #2 | .3358373 | 157.7222 | 8.517836 | 17.57218 | .1741887 | -.013067 |
| #3 | .3403807 | 156.7944 | 8.474305 | 17.40244 | .1740694 | -.013333 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4958240** | **.1602584** | **.9179607** | **4.798209** | **9.052303** | **.6508179** |
| Stddev | .0921772 | .0013006 | .0016400 | .047575 | .012699 | .0034181 |
| %RSD | 18.59071 | .8115910 | .1786543 | .9915092 | .1402825 | .5251959 |
| #1 | .3918409 | .1587740 | .9166099 | 4.767195 | 9.062171 | .6510413 |
| #2 | .5674948 | .1611985 | .9197854 | 4.852984 | 9.037976 | .6541187 |
| #3 | .5281363 | .1608027 | .9174867 | 4.774448 | 9.056761 | .6472936 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-15 Acquired: 1/12/2025 15:25:19 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0044188 | 1.154746 | F 18.43492 | .0496312 | .8966112 | .0672580 |
| Stddev | .0001194 | .009655 | .07152 | .0009036 | .0013908 | .0008849 |
| %RSD | 2.702854 | .8361492 | .3879518 | 1.820539 | .1551206 | 1.315624 |
| #1 | .0042811 | 1.165879 | 18.42996 | .0495733 | .8966847 | .0662978 |
| #2 | .0044821 | 1.149689 | 18.36600 | .0505623 | .8951851 | .0680406 |
| #3 | .0044933 | 1.148669 | 18.50878 | .0487580 | .8979639 | .0674357 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1123288 |
| Stddev | .0007840 |
| %RSD | .6979577 |
| #1 | .1124894 |
| #2 | .1130201 |
| #3 | .1114770 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3385.074 | 78924.72 | 11006.55 | 3744.095 | 3512.091 |
| Stddev | 2.450 | 231.05 | 32.98 | 10.418 | 2.077 |
| %RSD | .0723886 | .2927457 | .2996090 | .2782629 | .0591477 |
| #1 | 3385.562 | 78750.92 | 10977.12 | 3732.874 | 3510.216 |
| #2 | 3387.243 | 78836.33 | 11042.19 | 3745.950 | 3514.324 |
| #3 | 3382.416 | 79186.92 | 11000.35 | 3753.461 | 3511.733 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-01 Acquired: 1/12/2025 15:29:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1185898** | **-.002383** | **12.14006** | **.0199657** | **.0008428** | **47.95079** |
| Stddev | .0015873 | .000663 | .01576 | .0033169 | .0013927 | .33274 |
| %RSD | 1.338508 | 27.82506 | .1297901 | 16.61278 | 165.2389 | .6939151 |
| #1 | .1168145 | -.001698 | 12.12679 | .0161482 | .0024450 | 47.65423 |
| #2 | .1198723 | -.003022 | 12.15747 | .0221419 | .0001609 | 48.31062 |
| #3 | .1190825 | -.002429 | 12.13591 | .0216069 | -.000078 | 47.88753 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.084827** | **.0050975** | **.0074488** | **44.67939** | **.1750620** | **.0644783** |
| Stddev | .010401 | .0000696 | .0000669 | .29253 | .0006577 | .0003102 |
| %RSD | .9587879 | 1.366021 | .8977164 | .6547370 | .3756927 | .4811641 |
| #1 | 1.076022 | .0050258 | .0074831 | 44.44152 | .1743111 | .0641206 |
| #2 | 1.096303 | .0051648 | .0074915 | 45.00603 | .1753390 | .0646392 |
| #3 | 1.082157 | .0051019 | .0073717 | 44.59064 | .1755359 | .0646750 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3591218** | **96.39623** | **7.077317** | **16.29021** | **.1508059** | **-.006248** |
| Stddev | .0036727 | .66185 | .050805 | .06192 | .0007251 | .000547 |
| %RSD | 1.022695 | .6865904 | .7178636 | .3800843 | .4807899 | 8.754891 |
| #1 | .3626102 | 95.85290 | 7.046527 | 16.22038 | .1501806 | -.006111 |
| #2 | .3594663 | 97.13333 | 7.135958 | 16.33844 | .1516007 | -.005782 |
| #3 | .3552890 | 96.20246 | 7.049467 | 16.31179 | .1506366 | -.006850 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4473496** | **.1805883** | **1.167908** | **5.945324** | **8.956596** | **.4136246** |
| Stddev | .1551345 | .0004844 | .000827 | .039885 | .020655 | .0043602 |
| %RSD | 34.67858 | .2682409 | .0708296 | .6708643 | .2306167 | 1.054138 |
| #1 | .6264818 | .1803702 | 1.168771 | 5.899292 | 8.936815 | .4093265 |
| #2 | .3584633 | .1811434 | 1.167830 | 5.969612 | 8.978027 | .4180443 |
| #3 | .3571037 | .1802513 | 1.167122 | 5.967067 | 8.954947 | .4135028 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-01 Acquired: 1/12/2025 15:29:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0078119 | 2.836817 | F 17.12906 | .0603482 | .7687959 | .0829215 |
| Stddev | .0000873 | .010015 | .08522 | .0009750 | .0014635 | .0004863 |
| %RSD | 1.117757 | .3530276 | .4974950 | 1.615625 | .1903564 | .5864441 |
| #1 | .0078010 | 2.825707 | 17.19778 | .0610217 | .7704206 | .0834420 |
| #2 | .0079041 | 2.845150 | 17.15571 | .0607928 | .7683861 | .0828437 |
| #3 | .0077304 | 2.839595 | 17.03371 | .0592302 | .7675811 | .0824788 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2151622 |
| Stddev | .0016693 |
| %RSD | .7758157 |
| #1 | .2136190 |
| #2 | .2169340 |
| #3 | .2149335 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3001.852 | 71638.63 | 9750.677 | 3320.405 | 3584.775 |
| Stddev | 3.642 | 69.14 | 69.603 | 11.137 | 6.593 |
| %RSD | .1213418 | .0965085 | .7138316 | .3354092 | .1839051 |
| #1 | 3000.070 | 71710.91 | 9680.484 | 3309.354 | 3585.427 |
| #2 | 2999.444 | 71631.83 | 9819.675 | 3331.626 | 3577.881 |
| #3 | 3006.043 | 71573.14 | 9751.871 | 3320.234 | 3591.018 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV009 Acquired: 1/12/2025 15:55:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.632811** | **4.593922** | **23.38551** | **4.697201** | **4.594311** | **366.2837** |
| Stddev | .018701 | .053572 | .07944 | .006097 | .012188 | 2.8437 |
| %RSD | .4036685 | 1.166144 | .3396998 | .1297992 | .2652747 | .7763605 |
| #1 | 4.636630 | 4.532211 | 23.32437 | 4.703903 | 4.590210 | 367.0941 |
| #2 | 4.612495 | 4.621071 | 23.35684 | 4.691984 | 4.584703 | 363.1228 |
| #3 | 4.649308 | 4.628485 | 23.47530 | 4.695716 | 4.608020 | 368.6343 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.455639** | **.5153414** | **2.484786** | **370.6671** | **14.82920** | **2.364154** |
| Stddev | .084928 | .0017161 | .010714 | 3.1328 | .03685 | .005088 |
| %RSD | .8981731 | .3330031 | .4311813 | .8451752 | .2485135 | .2151943 |
| #1 | 9.524147 | .5146308 | 2.475143 | 368.0147 | 14.85866 | 2.360125 |
| #2 | 9.360617 | .5172986 | 2.482894 | 369.8630 | 14.78788 | 2.362467 |
| #3 | 9.482153 | .5140947 | 2.496319 | 374.1235 | 14.84106 | 2.369871 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.25236** | **372.2142** | **14.15027** | **234.8219** | **2.360880** | **1.181422** |
| Stddev | .00755 | 1.4752 | .05938 | 1.1604 | .005987 | .002186 |
| %RSD | .0529944 | .3963176 | .4196587 | .4941475 | .2535987 | .1850216 |
| #1 | 14.24406 | 373.1417 | 14.19143 | 235.3221 | 2.357045 | 1.183865 |
| #2 | 14.25883 | 370.5132 | 14.08219 | 233.4953 | 2.357817 | 1.179653 |
| #3 | 14.25419 | 372.9878 | 14.17717 | 235.6483 | 2.367779 | 1.180747 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **377.1642** | **2.341762** | **14.88440** | **137.4997** | **4.743915** | F **5.711410** |
| Stddev | .5692 | .005482 | .07947 | .6230 | .018014 | .009884 |
| %RSD | .1509223 | .2341041 | .5338926 | .4530671 | .3797352 | .1730601 |
| #1 | 377.4750 | 2.344242 | 14.93295 | 137.8089 | 4.725870 | 5.708132 |
| #2 | 377.5105 | 2.345565 | 14.92756 | 136.7827 | 4.743977 | 5.722517 |
| #3 | 376.5073 | 2.335478 | 14.79269 | 137.9076 | 4.761899 | 5.703582 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV009 Acquired: 1/12/2025 15:55:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV009 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 4.453440 | 4.724834 | 4.731224 | 4.663421 | 4.692048 | F 4.333843 |
| Stddev | .010597 | .028824 | .019972 | .019786 | .006503 | .019309 |
| %RSD | .2379438 | .6100503 | .4221387 | .4242902 | .1385949 | .4455331 |
| #1 | 4.454233 | 4.691575 | 4.732758 | 4.643509 | 4.687814 | 4.342961 |
| #2 | 4.442470 | 4.742559 | 4.750385 | 4.663673 | 4.699536 | 4.311664 |
| #3 | 4.463619 | 4.740368 | 4.710529 | 4.683079 | 4.688796 | 4.346904 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 4.653388 |
| Stddev | .042634 |
| %RSD | .9161888 |
| #1 | 4.626840 |
| #2 | 4.630758 |
| #3 | 4.702565 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2090.154 | 52037.15 | 7837.051 | 2472.833 | 2801.998 |
| Stddev | 4.280 | 174.11 | 14.352 | 7.851 | 3.752 |
| %RSD | .2047552 | .3345922 | .1831295 | .3174936 | .1338928 |
| #1 | 2086.036 | 51898.02 | 7837.582 | 2464.010 | 2806.171 |
| #2 | 2094.579 | 52232.40 | 7822.441 | 2475.443 | 2800.916 |
| #3 | 2089.847 | 51981.02 | 7851.130 | 2479.047 | 2798.906 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB009 Acquired: 1/12/2025 16:00:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0013468 | .0003017 | .0010308 | .0012366 | -.000963 | .0052912 | -.003150 |
| Stddev | .0012821 | .0008457 | .0003989 | .0014146 | .001170 | .0071791 | .000150 |
| %RSD | 95.20074 | 280.2713 | 38.70300 | 114.3962 | 121.5252 | 135.6780 | 4.764862 |
| #1 | .0007281 | .0011148 | .0010468 | -.000269 | -.000347 | -.002400 | -.003197 |
| #2 | .0028209 | -.000573 | .0006241 | .002538 | -.002312 | .011815 | -.003271 |
| #3 | .0004913 | .000364 | .0014214 | .001440 | -.000229 | .006459 | -.002982 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000057 | .0001247 | .0316042 | .0005417 | -.000051 | .0001823 | .0290629 |
| Stddev | .000041 | .0000347 | .0061943 | .0004626 | .000153 | .0014008 | .0067537 |
| %RSD | 72.90236 | 27.84123 | 19.59969 | 85.39913 | 302.9756 | 768.5141 | 23.23834 |
| #1 | -.000013 | .0000848 | .0346348 | .0009229 | -.000154 | -.000701 | .0242871 |
| #2 | -.000096 | .0001414 | .0356998 | .0006752 | -.000123 | -.000549 | .0367900 |
| #3 | -.000061 | .0001478 | .0244781 | .0000270 | .000126 | .001797 | .0261116 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0008731 | .0131776 | -.000586 | .0006442 | -.010877 | -.001686 | .0009441 |
| Stddev | .0001194 | .0083419 | .000151 | .0001974 | .270195 | .000689 | .0001904 |
| %RSD | 13.67742 | 63.30376 | 25.69336 | 30.63716 | 2483.988 | 40.84625 | 20.16625 |
| #1 | .0007389 | .0103506 | -.000760 | .0007436 | .279343 | -.002413 | .0008385 |
| #2 | .0009677 | .0066165 | -.000486 | .0007722 | -.056819 | -.001044 | .0011639 |
| #3 | .0009126 | .0225656 | -.000514 | .0004169 | -.255157 | -.001600 | .0008300 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8044143 | -.000952 | .0057196 | .0007131 | -.000868 | .0008306 | -.000337 |
| Stddev | .0850546 | .000801 | .0005771 | .0002617 | .001029 | .0067396 | .000262 |
| %RSD | 10.57348 | 84.16806 | 10.09040 | 36.70261 | 118.5025 | 811.4423 | 77.61374 |
| #1 | .7464152 | -.001854 | .0063860 | .0005518 | -.001517 | .0076145 | -.000623 |
| #2 | .7647746 | -.000324 | .0053834 | .0010152 | -.001406 | .0007410 | -.000278 |
| #3 | .9020532 | -.000677 | .0053893 | .0005726 | .000318 | -.005864 | -.000110 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB009 Acquired: 1/12/2025 16:00:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB009 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000037 | .0009411 | .0001942 |
| Stddev | .000827 | .0003309 | .0000374 |
| %RSD | 2235.170 | 35.16010 | 19.22895 |
| #1 | -.000765 | .0009412 | .0001706 |
| #2 | .000863 | .0006101 | .0001749 |
| #3 | -.000209 | .0012719 | .0002373 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2661.341 | 60898.03 | 8223.304 | 2924.170 | 3794.123 |
| Stddev | 12.367 | 141.42 | 38.594 | 6.007 | 25.631 |
| %RSD | .4647075 | .2322185 | .4693238 | .2054146 | .6755427 |
| #1 | 2647.525 | 60928.06 | 8193.703 | 2923.055 | 3764.590 |
| #2 | 2665.123 | 61022.03 | 8209.255 | 2930.656 | 3810.553 |
| #3 | 2671.377 | 60744.01 | 8266.955 | 2918.798 | 3807.228 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20 Acquired: 1/12/2025 16:03:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0254815** | **-.001710** | **.3754417** | **.0117858** | **.0036569** | **21.93634** |
| Stddev | .0021839 | .000977 | .0011118 | .0043072 | .0004431 | .05254 |
| %RSD | 8.570453 | 57.14283 | .2961300 | 36.54611 | 12.11788 | .2395011 |
| #1 | .0275183 | -.000870 | .3741666 | .0112458 | .0040312 | 21.99699 |
| #2 | .0231755 | -.002782 | .3762082 | .0077740 | .0031676 | 21.90703 |
| #3 | .0257506 | -.001477 | .3759504 | .0163375 | .0037720 | 21.90499 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4289097** | **.0015453** | **.0030294** | **187.7883** | **.0559762** | **.0365128** |
| Stddev | .0017810 | .0000239 | .0000759 | .4704 | .0002056 | .0004183 |
| %RSD | .4152445 | 1.544245 | 2.505889 | .2505189 | .3672106 | 1.145663 |
| #1 | .4304713 | .0015687 | .0029470 | 188.2905 | .0562132 | .0360541 |
| #2 | .4269700 | .0015462 | .0030446 | 187.3579 | .0558693 | .0368733 |
| #3 | .4292879 | .0015210 | .0030966 | 187.7164 | .0558463 | .0366110 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1187068** | **73.76412** | **3.705017** | **25.46677** | **.0556181** | **-.006368** |
| Stddev | .0003783 | .12547 | .012745 | .01944 | .0004601 | .000137 |
| %RSD | .3187092 | .1700963 | .3439967 | .0763329 | .8272505 | 2.149562 |
| #1 | .1182983 | 73.90181 | 3.719094 | 25.47644 | .0552780 | -.006211 |
| #2 | .1187767 | 73.65624 | 3.694263 | 25.47949 | .0561417 | -.006464 |
| #3 | .1190452 | 73.73431 | 3.701693 | 25.44440 | .0554348 | -.006429 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5839104** | **.0493087** | **.5980483** | **2.226363** | **3.796126** | **.3149984** |
| Stddev | .1137177 | .0023981 | .0023011 | .008468 | .005721 | .0008357 |
| %RSD | 19.47519 | 4.863384 | .3847619 | .3803659 | .1507125 | .2653168 |
| #1 | .6568766 | .0513403 | .6001418 | 2.223053 | 3.789523 | .3159578 |
| #2 | .6419719 | .0499224 | .5955846 | 2.235986 | 3.799253 | .3144283 |
| #3 | .4528828 | .0466634 | .5984187 | 2.220050 | 3.799603 | .3146092 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20 Acquired: 1/12/2025 16:03:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0041760 | .6428232 | F 14.91463 | .0152325 | .5074000 | .0376652 |
| Stddev | .0001959 | .0061610 | .03075 | .0000595 | .0009600 | .0017283 |
| %RSD | 4.691983 | .9584201 | .2062038 | .3907949 | .1892059 | 4.588572 |
| #1 | .0041408 | .6357133 | 14.91461 | .0152353 | .5081322 | .0378200 |
| #2 | .0040000 | .6465905 | 14.88389 | .0152906 | .5063131 | .0358647 |
| #3 | .0043871 | .6461657 | 14.94540 | .0151716 | .5077548 | .0393109 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2423628 |
| Stddev | .0004745 |
| %RSD | .1957810 |
| #1 | .2429098 |
| #2 | .2420612 |
| #3 | .2421176 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2762.864 | 64298.47 | 9142.913 | 3070.961 | 3406.038 |
| Stddev | 3.097 | 137.76 | 6.537 | 20.409 | 9.671 |
| %RSD | .1120815 | .2142510 | .0714984 | .6645650 | .2839275 |
| #1 | 2761.417 | 64170.02 | 9150.449 | 3053.509 | 3416.699 |
| #2 | 2766.419 | 64443.96 | 9138.770 | 3093.401 | 3403.583 |
| #3 | 2760.755 | 64281.42 | 9139.521 | 3065.971 | 3397.831 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-21 Acquired: 1/12/2025 16:07:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0258901** | **-.002159** | **.3763475** | **.0119495** | **.0027028** | **21.94048** |
| Stddev | .0010027 | .001809 | .0016660 | .0009571 | .0015399 | .10684 |
| %RSD | 3.872864 | 83.75599 | .4426811 | 8.009336 | 56.97303 | .4869338 |
| #1 | .0261445 | -.001356 | .3763148 | .0122327 | .0036902 | 21.98890 |
| #2 | .0267412 | -.004230 | .3746981 | .0127330 | .0009285 | 21.81801 |
| #3 | .0247848 | -.000891 | .3780296 | .0108828 | .0034897 | 22.01453 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4288464** | **.0014620** | **.0029915** | **187.8920** | **.0554096** | **.0367930** |
| Stddev | .0020189 | .0000122 | .0000856 | 1.0207 | .0004987 | .0001174 |
| %RSD | .4707871 | .8348548 | 2.861504 | .5432214 | .8999920 | .3190498 |
| #1 | .4307840 | .0014479 | .0029684 | 188.2733 | .0556869 | .0368958 |
| #2 | .4267549 | .0014685 | .0030862 | 186.7356 | .0548339 | .0366651 |
| #3 | .4290002 | .0014696 | .0029198 | 188.6671 | .0557079 | .0368181 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1155815** | **73.70980** | **3.695552** | **25.27252** | **.0559511** | **-.006340** |
| Stddev | .0008150 | .45493 | .022976 | .14369 | .0001289 | .000129 |
| %RSD | .7050965 | .6171916 | .6217239 | .5685565 | .2304407 | 2.034359 |
| #1 | .1164832 | 73.80855 | 3.707133 | 25.28791 | .0560975 | -.006254 |
| #2 | .1148975 | 73.21361 | 3.669090 | 25.12176 | .0559013 | -.006278 |
| #3 | .1153638 | 74.10725 | 3.710433 | 25.40790 | .0558545 | -.006489 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6740195** | **.0493426** | **.5997250** | **2.226224** | **3.867910** | **.3144627** |
| Stddev | .2083992 | .0006243 | .0015679 | .014932 | .013597 | .0025782 |
| %RSD | 30.91886 | 1.265192 | .2614378 | .6707266 | .3515429 | .8198744 |
| #1 | .7917943 | .0487587 | .5986566 | 2.222149 | 3.866183 | .3148348 |
| #2 | .4333987 | .0492684 | .5989933 | 2.242770 | 3.855259 | .3117187 |
| #3 | .7968656 | .0500006 | .6015249 | 2.213753 | 3.882289 | .3168347 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-21 Acquired: 1/12/2025 16:07:57 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038335 | .6525303 | F 14.69676 | .0148035 | .5047409 | .0360993 |
| Stddev | .0001223 | .0034994 | .03152 | .0002866 | .0015251 | .0007853 |
| %RSD | 3.189586 | .5362746 | .2144599 | 1.935818 | .3021491 | 2.175355 |
| #1 | .0038006 | .6555192 | 14.67245 | .0147347 | .5063851 | .0352674 |
| #2 | .0039689 | .6486810 | 14.68546 | .0151182 | .5033726 | .0362030 |
| #3 | .0037311 | .6533908 | 14.73237 | .0145576 | .5044651 | .0368277 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2465522 |
| Stddev | .0015940 |
| %RSD | .6465306 |
| #1 | .2470972 |
| #2 | .2447572 |
| #3 | .2478024 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2711.736 | 63844.00 | 9181.223 | 3049.341 | 3331.117 |
| Stddev | 6.330 | 234.78 | 17.499 | 3.622 | 11.355 |
| %RSD | .2334131 | .3677465 | .1905952 | .1187640 | .3408799 |
| #1 | 2714.354 | 63781.12 | 9201.347 | 3046.097 | 3332.090 |
| #2 | 2716.336 | 64103.82 | 9169.591 | 3053.248 | 3341.954 |
| #3 | 2704.517 | 63647.05 | 9172.729 | 3048.678 | 3319.307 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20LX5 Acquired: 1/12/2025 16:11:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0022141 | .0011476 | .0748560 | .0025107 | .0013518 | 4.423863 | .0846984 |
| Stddev | .0008299 | .0005566 | .0010043 | .0009335 | .0014146 | .012866 | .0005266 |
| %RSD | 37.48280 | 48.50454 | 1.341594 | 37.18024 | 104.6458 | .2908251 | .6217058 |
| #1 | .0012616 | .0010391 | .0747355 | .0035227 | .0026332 | 4.410083 | .0841704 |
| #2 | .0025995 | .0006532 | .0739174 | .0023263 | .0015883 | 4.435560 | .0852236 |
| #3 | .0027812 | .0017504 | .0759150 | .0016833 | -.000166 | 4.425947 | .0847013 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0003654 | .0005218 | 38.50293 | .0114340 | .0074238 | .0254195 | 15.47981 |
| Stddev | .0000684 | .0000145 | .07580 | .0003132 | .0000812 | .0011518 | .03029 |
| %RSD | 18.70487 | 2.772402 | .1968715 | 2.739300 | 1.094484 | 4.531263 | .1956464 |
| #1 | .0003559 | .0005166 | 38.55674 | .0117600 | .0073538 | .0256277 | 15.47857 |
| #2 | .0004381 | .0005381 | 38.53580 | .0111354 | .0075129 | .0241778 | 15.51070 |
| #3 | .0003024 | .0005106 | 38.41624 | .0114067 | .0074047 | .0264530 | 15.45017 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7810242 | 5.247055 | .0109671 | -.001377 | -.046277 | .0079224 | .1235218 |
| Stddev | .0019575 | .008754 | .0005102 | .000087 | .286337 | .0018776 | .0008755 |
| %RSD | .2506324 | .1668307 | 4.651871 | 6.343494 | 618.7432 | 23.70018 | .7087860 |
| #1 | .7821908 | 5.256904 | .0114463 | -.001465 | .274974 | .0064741 | .1225329 |
| #2 | .7821176 | 5.240164 | .0110243 | -.001290 | -.139177 | .0072492 | .1241979 |
| #3 | .7787643 | 5.244096 | .0104308 | -.001377 | -.274629 | .0100438 | .1238348 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4337535 | .7428086 | .0659081 | .0008837 | .1202370 | 3.119604 | .0008248 |
| Stddev | .0255484 | .0026851 | .0010884 | .0005054 | .0064725 | .033657 | .0005836 |
| %RSD | 5.890072 | .3614840 | 1.651340 | 57.19834 | 5.383117 | 1.078895 | 70.75006 |
| #1 | .4257042 | .7458510 | .0659245 | .0014401 | .1184577 | 3.158468 | .0005086 |
| #2 | .4623572 | .7418052 | .0669882 | .0004530 | .1148402 | 3.100047 | .0014983 |
| #3 | .4131992 | .7407697 | .0648117 | .0007578 | .1274130 | 3.100297 | .0004676 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20LX5 Acquired: 1/12/2025 16:11:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1076782 | .0066227 | .0496173 |
| Stddev | .0016755 | .0015730 | .0002519 |
| %RSD | 1.556011 | 23.75237 | .5076784 |
| | | | |
| #1 | .1095244 | .0079495 | .0493835 |
| #2 | .1062542 | .0070336 | .0498841 |
| #3 | .1072559 | .0048850 | .0495844 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2634.186 | 61185.86 | 8408.256 | 2922.622 | 3565.381 |
| Stddev | 9.402 | 56.26 | 39.260 | 5.457 | 12.235 |
| %RSD | .3569258 | .0919570 | .4669188 | .1867238 | .3431516 |
| | | | | | |
| #1 | 2629.343 | 61121.00 | 8380.517 | 2928.914 | 3558.109 |
| #2 | 2645.022 | 61215.13 | 8453.178 | 2919.187 | 3579.507 |
| #3 | 2628.192 | 61221.46 | 8391.074 | 2919.764 | 3558.528 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-22 Acquired: 1/12/2025 16:16:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0802858** | **.0921979** | **.4017546** | **.1545938** | **.1484488** | **23.99792** |
| Stddev | .0014563 | .0003799 | .0028199 | .0022422 | .0013483 | .19687 |
| %RSD | 1.813939 | .4120492 | .7019049 | 1.450379 | .9082834 | .8203805 |
| #1 | .0798386 | .0922735 | .4027416 | .1565432 | .1495902 | 23.77746 |
| #2 | .0791054 | .0917859 | .3985738 | .1550947 | .1487951 | 24.06013 |
| #3 | .0819132 | .0925343 | .4039484 | .1521435 | .1469611 | 24.15618 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.576914** | **.0918844** | **.0933105** | **181.0512** | **.4231859** | **.9392409** |
| Stddev | .022160 | .0002947 | .0004569 | 1.2794 | .0013192 | .0020613 |
| %RSD | .6195203 | .3207602 | .4896609 | .7066619 | .3117197 | .2194632 |
| #1 | 3.552066 | .0921598 | .0936538 | 179.6331 | .4218186 | .9416206 |
| #2 | 3.584048 | .0919198 | .0927919 | 181.4017 | .4232880 | .9380139 |
| #3 | 3.594628 | .0915735 | .0934858 | 182.1189 | .4244510 | .9380880 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5251673** | **72.30362** | **4.393828** | **24.38165** | **.9616530** | **.0588311** |
| Stddev | .0044238 | .48246 | .026475 | .16420 | .0018774 | .0007702 |
| %RSD | .8423635 | .6672712 | .6025501 | .6734553 | .1952235 | 1.309226 |
| #1 | .5300685 | 71.78982 | 4.363293 | 24.19321 | .9635273 | .0579924 |
| #2 | .5239629 | 72.37403 | 4.410374 | 24.45765 | .9597726 | .0595067 |
| #3 | .5214704 | 72.74701 | 4.407816 | 24.49407 | .9616591 | .0589943 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6373493** | **.9296277** | **1.540231** | **2.069999** | **3.736340** | **.3064703** |
| Stddev | .1638768 | .0019240 | .004427 | .014604 | .013130 | .0022736 |
| %RSD | 25.71224 | .2069626 | .2873936 | .7055066 | .3514004 | .7418792 |
| #1 | .6438945 | .9287738 | 1.535541 | 2.065569 | 3.749132 | .3041607 |
| #2 | .7978555 | .9282784 | 1.544336 | 2.058123 | 3.722897 | .3065440 |
| #3 | .4702979 | .9318308 | 1.540817 | 2.086305 | 3.736992 | .3087062 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-22 Acquired: 1/12/2025 16:16:01 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038911 | .6122537 | F 14.80284 | .0139374 | .4998830 | .0353827 |
| Stddev | .0001769 | .0054475 | .05727 | .0006111 | .0005643 | .0017917 |
| %RSD | 4.545139 | .8897396 | .3868637 | 4.384837 | .1128914 | 5.063842 |
| #1 | .0040032 | .6167975 | 14.86325 | .0132646 | .4992775 | .0333315 |
| #2 | .0039828 | .6137488 | 14.79592 | .0140893 | .5003943 | .0366422 |
| #3 | .0036872 | .6062148 | 14.74934 | .0144582 | .4999772 | .0361743 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2309993 |
| Stddev | .0020954 |
| %RSD | .9070965 |
| #1 | .2288075 |
| #2 | .2312075 |
| #3 | .2329828 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2736.362 | 64085.55 | 8913.017 | 3026.853 | 3401.783 |
| Stddev | 4.071 | 303.74 | 41.740 | 18.613 | 5.887 |
| %RSD | .1487832 | .4739543 | .4683076 | .6149130 | .1730636 |
| #1 | 2731.784 | 64423.24 | 8884.921 | 3042.506 | 3394.996 |
| #2 | 2737.726 | 63834.68 | 8893.150 | 3006.273 | 3404.842 |
| #3 | 2739.577 | 63998.72 | 8960.980 | 3031.781 | 3405.512 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05 Acquired: 1/12/2025 16:19:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0818561** | **-.004396** | **1.807582** | **.0289668** | **-.002606** | **57.73905** |
| Stddev | .0012270 | .000358 | .002236 | .0027617 | .001201 | .23978 |
| %RSD | 1.498955 | 8.151016 | .1236986 | 9.534105 | 46.09578 | .4152769 |
| #1 | .0817213 | -.004598 | 1.805286 | .0320202 | -.003530 | 57.99808 |
| #2 | .0807021 | -.003982 | 1.807708 | .0282366 | -.003040 | 57.69420 |
| #3 | .0831449 | -.004608 | 1.809753 | .0266435 | -.001248 | 57.52486 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.551849** | **.0041613** | **.0090007** | **182.7044** | **.1558767** | **.1017816** |
| Stddev | .005309 | .0001026 | .0001362 | .4865 | .0001572 | .0004968 |
| %RSD | .3420850 | 2.466606 | 1.513462 | .2662675 | .1008765 | .4880662 |
| #1 | 1.557958 | .0040444 | .0088528 | 183.2164 | .1558543 | .1018314 |
| #2 | 1.549232 | .0042028 | .0091210 | 182.6486 | .1560440 | .1022515 |
| #3 | 1.548357 | .0042366 | .0090285 | 182.2483 | .1557319 | .1012618 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3561907** | **150.1944** | **10.00521** | **35.87402** | **.1583113** | **-.011380** |
| Stddev | .0017573 | .5254 | .02252 | .06970 | .0006710 | .000333 |
| %RSD | .4933602 | .3498329 | .2251124 | .1942962 | .4238362 | 2.929092 |
| #1 | .3554967 | 150.7172 | 10.03122 | 35.90077 | .1583052 | -.011218 |
| #2 | .3581890 | 150.1996 | 9.99241 | 35.92639 | .1576434 | -.011763 |
| #3 | .3548863 | 149.6664 | 9.99200 | 35.79491 | .1589853 | -.011158 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.111993** | **.1460790** | **1.250765** | **6.247486** | F **19.44138** | **.6524088** |
| Stddev | .057814 | .0025006 | .002294 | .024980 | .03735 | .0018804 |
| %RSD | 5.199099 | 1.711819 | .1833994 | .3998370 | .1921155 | .2882183 |
| #1 | 1.119197 | .1432427 | 1.251747 | 6.271590 | 19.48419 | .6545799 |
| #2 | 1.165866 | .1479658 | 1.252404 | 6.249153 | 19.41546 | .6513043 |
| #3 | 1.050915 | .1470285 | 1.248143 | 6.221714 | 19.42449 | .6513422 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05 Acquired: 1/12/2025 16:19:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0078117 | 3.107893 | F 21.59670 | .0961202 | .7385319 | .0878593 |
| Stddev | .0001020 | .004967 | .09528 | .0001813 | .0020738 | .0009174 |
| %RSD | 1.305848 | .1598128 | .4412002 | .1886400 | .2808047 | 1.044112 |
| #1 | .0077356 | 3.113394 | 21.56348 | .0960042 | .7366920 | .0882924 |
| #2 | .0079276 | 3.103738 | 21.52247 | .0960273 | .7381246 | .0884799 |
| #3 | .0077719 | 3.106547 | 21.70415 | .0963292 | .7407792 | .0868056 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3209731 |
| Stddev | .0016792 |
| %RSD | .5231527 |
| #1 | .3226703 |
| #2 | .3209365 |
| #3 | .3193125 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3384.041 | 78853.17 | 11383.17 | 3753.851 | 3303.975 |
| Stddev | 5.546 | 162.20 | 49.88 | 11.310 | 3.750 |
| %RSD | .1638984 | .2057004 | .4382012 | .3012967 | .1134892 |
| #1 | 3377.791 | 78855.49 | 11440.45 | 3744.719 | 3299.929 |
| #2 | 3388.376 | 78689.82 | 11359.78 | 3750.331 | 3307.334 |
| #3 | 3385.956 | 79014.20 | 11349.28 | 3766.502 | 3304.663 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-06 Acquired: 1/12/2025 16:23:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0808217** | **-.005202** | **1.806230** | **.0290958** | **-.001940** | **57.95274** |
| Stddev | .0022543 | .001377 | .002475 | .0029333 | .001682 | .17158 |
| %RSD | 2.789174 | 26.47321 | .1370005 | 10.08158 | 86.73171 | .2960662 |
| #1 | .0819906 | -.006786 | 1.805421 | .0323838 | -.003783 | 57.93863 |
| #2 | .0822515 | -.004288 | 1.804261 | .0281559 | -.000487 | 57.78865 |
| #3 | .0782231 | -.004532 | 1.809007 | .0267476 | -.001549 | 58.13094 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.549583** | **.0042195** | **.0090586** | **182.9795** | **.1556782** | **.1013486** |
| Stddev | .005821 | .0000728 | .0000809 | .5240 | .0001968 | .0003589 |
| %RSD | .3756246 | 1.724518 | .8934806 | .2863943 | .1263947 | .3541234 |
| #1 | 1.548207 | .0042536 | .0090801 | 182.9601 | .1555523 | .1016131 |
| #2 | 1.544574 | .0041360 | .0089690 | 182.4655 | .1555773 | .1009400 |
| #3 | 1.555968 | .0042690 | .0091266 | 183.5130 | .1559049 | .1014925 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3584895** | **150.8378** | **10.00989** | **36.01872** | **.1583336** | **-.011190** |
| Stddev | .0016939 | .5162 | .02304 | .10507 | .0004282 | .000453 |
| %RSD | .4725069 | .3422310 | .2302141 | .2917171 | .2704518 | 4.050586 |
| #1 | .3593503 | 150.7542 | 10.00439 | 35.94476 | .1581458 | -.010669 |
| #2 | .3595801 | 150.3685 | 9.99009 | 35.97241 | .1580314 | -.011402 |
| #3 | .3565381 | 151.3907 | 10.03518 | 36.13900 | .1588237 | -.011498 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.141305** | **.1461750** | **1.249911** | **6.248918** | F **19.35775** | **.6549409** |
| Stddev | .086608 | .0020795 | .003902 | .030584 | .03155 | .0028640 |
| %RSD | 7.588500 | 1.422593 | .3121892 | .4894212 | .1629970 | .4372992 |
| #1 | 1.204601 | .1437808 | 1.249272 | 6.284117 | 19.32592 | .6551337 |
| #2 | 1.176710 | .1475309 | 1.254093 | 6.233788 | 19.35831 | .6519853 |
| #3 | 1.042604 | .1472132 | 1.246368 | 6.228848 | 19.38902 | .6577037 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-06 Acquired: 1/12/2025 16:23:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081049 | 3.109684 | F 21.59626 | .0960747 | .7364048 | .0876949 |
| Stddev | .0000826 | .015072 | .02060 | .0004845 | .0016547 | .0005450 |
| %RSD | 1.019669 | .4846761 | .0953838 | .5043421 | .2246966 | .6214301 |
| #1 | .0080304 | 3.106808 | 21.59880 | .0965458 | .7368960 | .0882827 |
| #2 | .0081938 | 3.096258 | 21.57451 | .0961006 | .7345601 | .0875956 |
| #3 | .0080906 | 3.125987 | 21.61548 | .0955778 | .7377582 | .0872065 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3212656 |
| Stddev | .0011692 |
| %RSD | .3639500 |
| #1 | .3212063 |
| #2 | .3201271 |
| #3 | .3224634 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3373.611 | 78687.20 | 11405.00 | 3755.041 | 3294.112 |
| Stddev | 5.146 | 217.92 | 20.43 | 12.258 | 3.877 |
| %RSD | .1525428 | .2769476 | .1791619 | .3264304 | .1176801 |
| #1 | 3367.871 | 78516.41 | 11382.23 | 3763.195 | 3290.568 |
| #2 | 3375.150 | 78932.63 | 11411.05 | 3740.945 | 3293.516 |
| #3 | 3377.813 | 78612.55 | 11421.73 | 3760.984 | 3298.252 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05LX5 Acquired: 1/12/2025 16:27:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0190944 | -.000567 | .3595042 | .0088084 | -.000730 | 13.48776 | .3517704 |
| Stddev | .0013319 | .001253 | .0011435 | .0012351 | .000743 | .02495 | .0006289 |
| %RSD | 6.975260 | 220.9174 | .3180699 | 14.02181 | 101.6635 | .1850160 | .1787739 |
| #1 | .0178653 | -.000498 | .3582468 | .0083515 | -.000722 | 13.49687 | .3518422 |
| #2 | .0189083 | -.001854 | .3597840 | .0078668 | -.001477 | 13.50688 | .3511086 |
| #3 | .0205095 | .000650 | .3604819 | .0102069 | .000008 | 13.45953 | .3523602 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010574 | .0013599 | 43.50656 | .0385661 | .0194620 | .0898590 | 36.66051 |
| Stddev | .0001447 | .0000085 | .05461 | .0002760 | .0002253 | .0003427 | .01389 |
| %RSD | 13.68532 | .6218502 | .1255148 | .7156567 | 1.157681 | .3813666 | .0378932 |
| #1 | .0009549 | .0013548 | 43.52207 | .0388340 | .0193629 | .0902161 | 36.64697 |
| #2 | .0009945 | .0013552 | 43.44587 | .0382827 | .0193033 | .0895329 | 36.67473 |
| #3 | .0012230 | .0013697 | 43.55173 | .0385817 | .0197199 | .0898279 | 36.65983 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.389676 | 8.670146 | .0309647 | -.002925 | .3690223 | .0341750 | .3071520 |
| Stddev | .002573 | .021699 | .0004159 | .000181 | .2303920 | .0005122 | .0016828 |
| %RSD | .1076622 | .2502728 | 1.343148 | 6.180181 | 62.43310 | 1.498762 | .5478801 |
| #1 | 2.386989 | 8.653041 | .0305036 | -.003106 | .1643482 | .0336116 | .3071708 |
| #2 | 2.389923 | 8.694554 | .0310790 | -.002923 | .6185390 | .0346126 | .3088254 |
| #3 | 2.392116 | 8.662842 | .0313116 | -.002745 | .3241795 | .0343006 | .3054599 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.403096 | 3.771095 | .1572311 | .0018969 | .5850747 | 5.369971 | .0170630 |
| Stddev | .008868 | .024955 | .0001260 | .0002358 | .0046229 | .013011 | .0004966 |
| %RSD | .6320146 | .6617370 | .0801140 | 12.43179 | .7901351 | .2422868 | 2.910568 |
| #1 | 1.413275 | 3.742770 | .1571764 | .0019476 | .5817817 | 5.366492 | .0165266 |
| #2 | 1.397044 | 3.780675 | .1571416 | .0021032 | .5830829 | 5.359054 | .0171558 |
| #3 | 1.398969 | 3.789841 | .1573751 | .0016398 | .5903597 | 5.384368 | .0175068 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05LX5 Acquired: 1/12/2025 16:27:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1844503 | .0185276 | .0751946 |
| Stddev | .0001680 | .0007156 | .0002312 |
| %RSD | .0910882 | 3.862143 | .3075242 |
| #1 | .1846391 | .0193513 | .0754451 |
| #2 | .1843175 | .0180592 | .0751495 |
| #3 | .1843941 | .0181723 | .0749893 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2795.210 | 65037.08 | 8896.532 | 3118.927 | 3579.061 |
| Stddev | 5.478 | 257.26 | 29.381 | 10.362 | 9.642 |
| %RSD | .1959660 | .3955615 | .3302501 | .3322321 | .2693939 |
| #1 | 2800.743 | 64942.88 | 8876.247 | 3115.071 | 3590.183 |
| #2 | 2795.098 | 64840.20 | 8883.124 | 3111.047 | 3573.061 |
| #3 | 2789.789 | 65328.17 | 8930.225 | 3130.665 | 3573.939 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-07 Acquired: 1/12/2025 16:31:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1313224** | **.0854331** | **1.825248** | **.1442810** | **.1154617** | **60.19630** |
| Stddev | .0029837 | .0024500 | .005165 | .0015396 | .0005367 | .10251 |
| %RSD | 2.272036 | 2.867770 | .2829926 | 1.067074 | .4648153 | .1702856 |
| #1 | .1284799 | .0835373 | 1.830869 | .1426863 | .1150952 | 60.08318 |
| #2 | .1310578 | .0845624 | 1.820711 | .1457588 | .1160777 | 60.28304 |
| #3 | .1344296 | .0881995 | 1.824162 | .1443979 | .1152122 | 60.22267 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.133229** | **.0736120** | **.0994516** | **183.1559** | **.4478004** | **1.011345** |
| Stddev | .025176 | .0001417 | .0002253 | .3475 | .0010599 | .002329 |
| %RSD | .6091005 | .1924892 | .2265471 | .1897182 | .2366994 | .2302823 |
| #1 | 4.160324 | .0736461 | .0996771 | 182.7606 | .4477464 | 1.013400 |
| #2 | 4.110559 | .0734564 | .0992265 | 183.4131 | .4488862 | 1.008815 |
| #3 | 4.128805 | .0737336 | .0994513 | 183.2940 | .4467684 | 1.011818 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6825824** | **151.8546** | **10.65736** | **35.84448** | **1.067468** | **.0413858** |
| Stddev | .0036774 | .2524 | .03697 | .03073 | .003690 | .0000319 |
| %RSD | .5387436 | .1662212 | .3468505 | .0857435 | .3456653 | .0770496 |
| #1 | .6856053 | 151.6129 | 10.61491 | 35.87199 | 1.069089 | .0414225 |
| #2 | .6784884 | 152.1165 | 10.68245 | 35.85015 | 1.063245 | .0413648 |
| #3 | .6836535 | 151.8343 | 10.67471 | 35.81131 | 1.070069 | .0413701 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.049353** | **.8356987** | **1.987609** | **6.274480** | F **19.15909** | **.6617300** |
| Stddev | .144202 | .0007241 | .003074 | .080648 | .02541 | .0020090 |
| %RSD | 13.74201 | .0866445 | .1546711 | 1.285341 | .1326080 | .3036040 |
| #1 | 1.083860 | .8362913 | 1.985943 | 6.187054 | 19.18834 | .6597299 |
| #2 | 1.173171 | .8359131 | 1.985727 | 6.345972 | 19.14638 | .6637479 |
| #3 | .891028 | .8348916 | 1.991157 | 6.290415 | 19.14255 | .6617123 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-07 Acquired: 1/12/2025 16:31:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0076492 | 3.100905 | F 21.29075 | .0944789 | .7276700 | .0882746 |
| Stddev | .0001880 | .013573 | .05359 | .0011189 | .0035719 | .0002313 |
| %RSD | 2.457870 | .4377133 | .2517239 | 1.184235 | .4908722 | .2620059 |
| #1 | .0078236 | 3.116427 | 21.28037 | .0938065 | .7274520 | .0883021 |
| #2 | .0076740 | 3.095022 | 21.24310 | .0938598 | .7242121 | .0880308 |
| #3 | .0074501 | 3.091267 | 21.34877 | .0957705 | .7313459 | .0884909 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3215051 |
| Stddev | .0004690 |
| %RSD | .1458867 |
| #1 | .3211059 |
| #2 | .3220217 |
| #3 | .3213876 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3361.515 | 78801.49 | 11547.53 | 3756.617 | 3295.363 |
| Stddev | 10.980 | 135.02 | 24.63 | 9.261 | 11.757 |
| %RSD | .3266375 | .1713476 | .2132816 | .2465152 | .3567634 |
| #1 | 3351.668 | 78826.35 | 11523.22 | 3760.496 | 3283.501 |
| #2 | 3373.355 | 78655.76 | 11572.47 | 3763.307 | 3307.012 |
| #3 | 3359.521 | 78922.35 | 11546.89 | 3746.047 | 3295.577 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-10 Acquired: 1/12/2025 16:35:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN08 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0865497** | **-.005118** | **1.680088** | **.0249884** | **-.001708** | **53.82716** |
| Stddev | .0006144 | .002702 | .002317 | .0009800 | .001236 | .14939 |
| %RSD | .7098937 | 52.79757 | .1378987 | 3.921794 | 72.41175 | .2775439 |
| #1 | .0869764 | -.005003 | 1.680032 | .0243569 | -.001306 | 53.69891 |
| #2 | .0868273 | -.007876 | 1.677800 | .0244909 | -.000722 | 53.99120 |
| #3 | .0858455 | -.002475 | 1.682433 | .0261174 | -.003095 | 53.79138 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.012085** | **.0039995** | **.0079117** | **233.4356** | **.1105265** | **.0828623** |
| Stddev | .003874 | .0000877 | .0002021 | .7854 | .0003397 | .0004460 |
| %RSD | .3827288 | 2.192303 | 2.553840 | .3364344 | .3073639 | .5381776 |
| #1 | 1.008798 | .0040713 | .0079489 | 232.7629 | .1101344 | .0829381 |
| #2 | 1.016356 | .0039018 | .0076936 | 234.2986 | .1107332 | .0823833 |
| #3 | 1.011101 | .0040255 | .0080925 | 233.2452 | .1107118 | .0832655 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2891832** | **143.6483** | **8.215214** | **43.22194** | **.1806082** | **-.011782** |
| Stddev | .0017700 | .5086 | .030006 | .15376 | .0003972 | .000326 |
| %RSD | .6120520 | .3540816 | .3652520 | .3557424 | .2199117 | 2.770862 |
| #1 | .2889145 | 143.1256 | 8.198755 | 43.04664 | .1801946 | -.012119 |
| #2 | .2875629 | 144.1416 | 8.249848 | 43.33401 | .1806434 | -.011467 |
| #3 | .2910721 | 143.6778 | 8.197039 | 43.28515 | .1809867 | -.011761 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7345957** | **.1293319** | **1.110307** | **5.921632** | **7.656124** | **.6134975** |
| Stddev | .0738882 | .0013280 | .003350 | .060588 | .017635 | .0027347 |
| %RSD | 10.05835 | 1.026800 | .3017303 | 1.023161 | .2303387 | .4457570 |
| #1 | .7205168 | .1284809 | 1.111405 | 5.892160 | 7.658116 | .6103500 |
| #2 | .6687600 | .1308621 | 1.112970 | 5.991317 | 7.637577 | .6148501 |
| #3 | .8145105 | .1286527 | 1.106546 | 5.881418 | 7.672678 | .6152922 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-10 Acquired: 1/12/2025 16:35:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN08 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0053601 | 2.067071 | F 20.77936 | .0658003 | .8578534 | .0815857 |
| Stddev | .0004210 | .007772 | .03937 | .0000926 | .0015260 | .0002096 |
| %RSD | 7.853389 | .3760092 | .1894708 | .1407229 | .1778918 | .2568559 |
| #1 | .0052354 | 2.066409 | 20.81453 | .0657127 | .8561977 | .0813625 |
| #2 | .0058293 | 2.059651 | 20.78672 | .0657909 | .8581591 | .0816165 |
| #3 | .0050156 | 2.075153 | 20.73683 | .0658972 | .8592035 | .0817781 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2469907 |
| Stddev | .0006099 |
| %RSD | .2469207 |
| #1 | .2462923 |
| #2 | .2472612 |
| #3 | .2474185 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2989.538 | 70003.78 | 10180.78 | 3322.178 | 3287.647 |
| Stddev | 2.710 | 190.82 | 12.88 | 10.695 | 6.484 |
| %RSD | .0906475 | .2725854 | .1265135 | .3219296 | .1972382 |
| #1 | 2990.860 | 70208.05 | 10182.53 | 3324.244 | 3285.294 |
| #2 | 2991.332 | 69830.11 | 10192.70 | 3310.600 | 3294.979 |
| #3 | 2986.420 | 69973.20 | 10167.12 | 3331.689 | 3282.667 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-11 Acquired: 1/12/2025 16:39:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN09 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1221109 | -.008049 | 2.066334 | .0304317 | -.004166 | 61.01977 |
| Stddev | .0019366 | .001565 | .004750 | .0021630 | .002602 | .28186 |
| %RSD | 1.585926 | 19.44165 | .2298899 | 7.107807 | 62.45742 | .4619198 |
| #1 | .1234687 | -.007754 | 2.061680 | .0308677 | -.003408 | 60.73087 |
| #2 | .1229708 | -.006653 | 2.066146 | .0323435 | -.002027 | 61.03440 |
| #3 | .1198933 | -.009741 | 2.071175 | .0280838 | -.007062 | 61.29403 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.282344 | .0052361 | .0097426 | 97.04658 | .1185989 | .1009587 |
| Stddev | .008159 | .0001070 | .0000560 | .40757 | .0001526 | .0002359 |
| %RSD | .6362421 | 2.043856 | .5743755 | .4199729 | .1286392 | .2336813 |
| #1 | 1.273645 | .0053511 | .0097402 | 96.61551 | .1185736 | .1007313 |
| #2 | 1.283560 | .0052176 | .0096879 | 97.09859 | .1184607 | .1009426 |
| #3 | 1.289826 | .0051395 | .0097997 | 97.42565 | .1187626 | .1012023 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4449930 | 170.1465 | 10.35724 | 26.99804 | .1733664 | -.013488 |
| Stddev | .0021056 | .6029 | .04173 | .13243 | .0006913 | .000449 |
| %RSD | .4731679 | .3543190 | .4028734 | .4905189 | .3987785 | 3.325452 |
| #1 | .4472400 | 169.5170 | 10.31166 | 26.87921 | .1727143 | -.013878 |
| #2 | .4446736 | 170.2039 | 10.36653 | 26.97412 | .1732937 | -.013588 |
| #3 | .4430654 | 170.7187 | 10.39355 | 27.14081 | .1740913 | -.012997 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.132789 | .1490586 | 1.307090 | 6.569808 | F 12.22546 | .7153372 |
| Stddev | .094870 | .0022762 | .005489 | .078614 | .01110 | .0033428 |
| %RSD | 8.374927 | 1.527060 | .4199159 | 1.196593 | .0908104 | .4672986 |
| #1 | 1.115235 | .1482332 | 1.313428 | 6.544529 | 12.23808 | .7119124 |
| #2 | 1.235210 | .1516324 | 1.303917 | 6.506944 | 12.21721 | .7155078 |
| #3 | 1.047921 | .1473103 | 1.303927 | 6.657952 | 12.22109 | .7185914 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-11 Acquired: 1/12/2025 16:39:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN09 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0051491 | 2.941155 | F 22.43711 | .0854837 | .8155560 | .0756575 |
| Stddev | .0002085 | .009939 | .07982 | .0008815 | .0021674 | .0014345 |
| %RSD | 4.050013 | .3379165 | .3557631 | 1.031240 | .2657623 | 1.896042 |
| #1 | .0049177 | 2.945501 | 22.52483 | .0861343 | .8155821 | .0743788 |
| #2 | .0052072 | 2.929783 | 22.41778 | .0844804 | .8177103 | .0753851 |
| #3 | .0053225 | 2.948180 | 22.36873 | .0858363 | .8133757 | .0772087 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2044260 |
| Stddev | .0011342 |
| %RSD | .5548281 |
| #1 | .2031513 |
| #2 | .2048028 |
| #3 | .2053238 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3137.826 | 76610.36 | 10517.53 | 3594.259 | 3317.405 |
| Stddev | 2.573 | 123.76 | 51.52 | 13.478 | 4.842 |
| %RSD | .0819952 | .1615405 | .4898396 | .3749860 | .1459709 |
| #1 | 3138.126 | 76674.77 | 10463.46 | 3579.235 | 3319.942 |
| #2 | 3140.236 | 76688.63 | 10523.08 | 3605.288 | 3320.452 |
| #3 | 3135.116 | 76467.68 | 10566.05 | 3598.253 | 3311.822 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-12 Acquired: 1/12/2025 16:43:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN10 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1289523** | **-.010966** | **.4854996** | **.0365047** | **-.004341** | **61.01639** |
| Stddev | .0015142 | .001796 | .0006935 | .0029968 | .001543 | .47712 |
| %RSD | 1.174249 | 16.38169 | .1428339 | 8.209250 | 35.54267 | .7819570 |
| #1 | .1275970 | -.011677 | .4862831 | .0332615 | -.002619 | 60.62885 |
| #2 | .1286732 | -.008923 | .4849647 | .0370815 | -.005598 | 60.87105 |
| #3 | .1305866 | -.012299 | .4852510 | .0391712 | -.004807 | 61.54928 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.893530** | **.0058972** | **.0132570** | **41.94437** | **.1106603** | **.1286679** |
| Stddev | .013027 | .0001240 | .0001101 | .27661 | .0004177 | .0007039 |
| %RSD | .6879635 | 2.102347 | .8306102 | .6594765 | .3774721 | .5470481 |
| #1 | 1.882925 | .0060063 | .0131869 | 41.73720 | .1102120 | .1292598 |
| #2 | 1.889594 | .0057624 | .0132001 | 41.83742 | .1107302 | .1288543 |
| #3 | 1.908071 | .0059230 | .0133839 | 42.25849 | .1110386 | .1278896 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2405682** | **186.8045** | **18.66836** | **17.60622** | **.1986892** | **-.012803** |
| Stddev | .0025910 | 1.2017 | .14260 | .11928 | .0000945 | .000145 |
| %RSD | 1.077041 | .6433081 | .7638843 | .6775037 | .0475680 | 1.135877 |
| #1 | .2412509 | 185.8863 | 18.80773 | 17.50816 | .1986895 | -.012968 |
| #2 | .2427495 | 186.3625 | 18.52273 | 17.57149 | .1987836 | -.012694 |
| #3 | .2377042 | 188.1646 | 18.67463 | 17.73902 | .1985945 | -.012747 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7846970** | **.1519928** | **1.423613** | **4.530515** | **7.696147** | **.7707022** |
| Stddev | .0785578 | .0017033 | .004420 | .023282 | .044367 | .0063810 |
| %RSD | 10.01122 | 1.120630 | .3104868 | .5138939 | .5764862 | .8279416 |
| #1 | .8458688 | .1529313 | 1.426417 | 4.505374 | 7.740096 | .7660098 |
| #2 | .8121182 | .1500267 | 1.418518 | 4.534838 | 7.696973 | .7681289 |
| #3 | .6961039 | .1530203 | 1.425905 | 4.551332 | 7.651373 | .7779680 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-12 Acquired: 1/12/2025 16:43:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN10 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0044569 | 1.697761 | F 22.73821 | .0151005 | .6732650 | .0669470 |
| Stddev | .0005060 | .007117 | .08433 | .0004883 | .0010829 | .0008365 |
| %RSD | 11.35316 | .4192009 | .3708642 | 3.233343 | .1608411 | 1.249457 |
| #1 | .0048160 | 1.703223 | 22.83501 | .0151302 | .6739734 | .0663576 |
| #2 | .0046766 | 1.700348 | 22.68068 | .0155733 | .6720185 | .0679044 |
| #3 | .0038782 | 1.689712 | 22.69894 | .0145982 | .6738032 | .0665791 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1393918 |
| Stddev | .0012593 |
| %RSD | .9034014 |
| #1 | .1384070 |
| #2 | .1389578 |
| #3 | .1408107 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3360.479 | 80253.74 | 11002.15 | 3782.757 | 3461.107 |
| Stddev | 3.283 | 75.37 | 78.85 | 2.627 | 3.025 |
| %RSD | .0976953 | .0939089 | .7166337 | .0694508 | .0873948 |
| #1 | 3359.600 | 80309.18 | 10925.73 | 3779.795 | 3458.952 |
| #2 | 3364.112 | 80284.12 | 10997.49 | 3783.670 | 3459.804 |
| #3 | 3357.725 | 80167.93 | 11083.22 | 3784.806 | 3464.565 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-13 Acquired: 1/12/2025 16:47:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN11 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1449589** | **-.011987** | **.3639942** | **.0368819** | **-.006562** | **47.23861** |
| Stddev | .0003690 | .001119 | .0011145 | .0018786 | .003098 | .24022 |
| %RSD | .2545400 | 9.338915 | .3061965 | 5.093545 | 47.20615 | .5085308 |
| #1 | .1452761 | -.010794 | .3627098 | .0385700 | -.008327 | 47.28643 |
| #2 | .1445540 | -.013014 | .3645664 | .0372175 | -.008374 | 46.97807 |
| #3 | .1450466 | -.012152 | .3647063 | .0348581 | -.002985 | 47.45133 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.010279** | **.0056861** | **.0114218** | **38.01007** | **.1004793** | **.1470219** |
| Stddev | .020786 | .0001639 | .0000724 | .16321 | .0002066 | .0002416 |
| %RSD | .5183153 | 2.882473 | .6339209 | .4293991 | .2056114 | .1643222 |
| #1 | 4.017996 | .0056448 | .0113407 | 38.08132 | .1007086 | .1467681 |
| #2 | 3.986738 | .0058667 | .0114800 | 37.82334 | .1003077 | .1472490 |
| #3 | 4.026102 | .0055468 | .0114446 | 38.12555 | .1004215 | .1470486 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2786214** | **199.0899** | **28.94082** | **19.96164** | **.2169791** | **-.013267** |
| Stddev | .0012312 | .8934 | .27064 | .02943 | .0003079 | .000233 |
| %RSD | .4418857 | .4487502 | .9351421 | .1474446 | .1419132 | 1.754407 |
| #1 | .2772897 | 199.4245 | 29.16066 | 19.99490 | .2168484 | -.013302 |
| #2 | .2797183 | 198.0775 | 29.02325 | 19.93894 | .2167580 | -.013481 |
| #3 | .2788562 | 199.7678 | 28.63856 | 19.95110 | .2173308 | -.013019 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6524139** | **.1497189** | **.9074435** | **4.191174** | **6.662819** | **.8205806** |
| Stddev | .0816588 | .0018934 | .0021558 | .058932 | .006646 | .0047985 |
| %RSD | 12.51641 | 1.264658 | .2375653 | 1.406088 | .0997507 | .5847725 |
| #1 | .5621683 | .1481186 | .9073480 | 4.125160 | 6.670336 | .8233942 |
| #2 | .6738732 | .1492290 | .9053371 | 4.209880 | 6.657722 | .8150399 |
| #3 | .7212001 | .1518092 | .9096454 | 4.238482 | 6.660399 | .8233075 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-13 Acquired: 1/12/2025 16:47:41 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN11 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0062787 | .7018145 | F 19.84800 | .0086995 | .6471252 | .0576421 |
| Stddev | .0001477 | .0045376 | .05086 | .0004835 | .0008220 | .0003971 |
| %RSD | 2.352186 | .6465584 | .2562430 | 5.558012 | .1270155 | .6889382 |
| #1 | .0063187 | .6980216 | 19.89016 | .0089539 | .6480568 | .0579324 |
| #2 | .0064022 | .7005802 | 19.86233 | .0090028 | .6465023 | .0571895 |
| #3 | .0061151 | .7068415 | 19.79152 | .0081419 | .6468166 | .0578043 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1158918 |
| Stddev | .0005399 |
| %RSD | .4658886 |
| #1 | .1157665 |
| #2 | .1154255 |
| #3 | .1164834 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3283.745 | 78250.75 | 10919.35 | 3736.113 | 3403.732 |
| Stddev | .891 | 349.65 | 49.80 | 16.957 | 5.489 |
| %RSD | .0271232 | .4468326 | .4561080 | .4538689 | .1612677 |
| #1 | 3284.396 | 77863.19 | 10879.39 | 3724.359 | 3409.908 |
| #2 | 3284.110 | 78542.53 | 10903.52 | 3755.552 | 3399.411 |
| #3 | 3282.730 | 78346.52 | 10975.15 | 3728.429 | 3401.876 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-14 Acquired: 1/12/2025 16:51:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN12 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0946774** | **-.007604** | **.2946107** | **.0142138** | **-.003947** | **31.65345** |
| Stddev | .0021489 | .001404 | .0031174 | .0034244 | .001117 | .07541 |
| %RSD | 2.269731 | 18.47071 | 1.058151 | 24.09198 | 28.29274 | .2382472 |
| #1 | .0967063 | -.008073 | .2981258 | .0165573 | -.004994 | 31.73309 |
| #2 | .0949003 | -.008713 | .2921814 | .0158001 | -.004076 | 31.58313 |
| #3 | .0924258 | -.006025 | .2935249 | .0102839 | -.002772 | 31.64412 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.122325** | **.0042158** | **.0064575** | **659.2923** | **.0768318** | **.0667356** |
| Stddev | .004260 | .0000918 | .0001742 | 3.3121 | .0003382 | .0007253 |
| %RSD | .3795500 | 2.178739 | 2.697862 | .5023672 | .4401907 | 1.086771 |
| #1 | 1.124747 | .0042175 | .0066315 | 657.1383 | .0764425 | .0675140 |
| #2 | 1.117407 | .0043068 | .0062831 | 657.6326 | .0769991 | .0666139 |
| #3 | 1.124821 | .0041231 | .0064580 | 663.1061 | .0770537 | .0660788 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2239377** | **128.2129** | **13.33383** | **259.1014** | **.1188437** | **-.009511** |
| Stddev | .0005458 | .2253 | .05217 | .5746 | .0006771 | .000229 |
| %RSD | .2437450 | .1757587 | .3912927 | .2217747 | .5697476 | 2.405270 |
| #1 | .2237219 | 128.4709 | 13.37210 | 259.7228 | .1194737 | -.009492 |
| #2 | .2245584 | 128.0547 | 13.27440 | 258.5892 | .1181277 | -.009293 |
| #3 | .2235327 | 128.1132 | 13.35499 | 258.9922 | .1189296 | -.009749 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9297693** | **.0903831** | **.5492636** | **8.208703** | **4.377379** | **.5973298** |
| Stddev | .1725629 | .0018541 | .0029992 | .019054 | .025221 | .0003475 |
| %RSD | 18.55975 | 2.051430 | .5460347 | .2321193 | .5761589 | .0581695 |
| #1 | .8117901 | .0896747 | .5458006 | 8.217716 | 4.404217 | .5976405 |
| #2 | 1.127822 | .0889875 | .5510285 | 8.186814 | 4.354169 | .5969547 |
| #3 | .849695 | .0924869 | .5509615 | 8.221577 | 4.373750 | .5973943 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-14 Acquired: 1/12/2025 16:51:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN12 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0029469 | 2.723920 | F 17.22844 | .0036430 | .2262775 | .0567018 |
| Stddev | .0004081 | .016292 | .04454 | .0008567 | .0015055 | .0010142 |
| %RSD | 13.84737 | .5981220 | .2585017 | 23.51619 | .6653316 | 1.788622 |
| #1 | .0032041 | 2.740232 | 17.25165 | .0046310 | .2265442 | .0560464 |
| #2 | .0024764 | 2.707647 | 17.17710 | .0031919 | .2246566 | .0561890 |
| #3 | .0031602 | 2.723881 | 17.25658 | .0031062 | .2276319 | .0578700 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4671232 |
| Stddev | .0013398 |
| %RSD | .2868117 |
| #1 | .4686223 |
| #2 | .4667045 |
| #3 | .4660428 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2792.636 | 66019.84 | 9919.467 | 3129.375 | 2883.620 |
| Stddev | 1.224 | 104.64 | 19.057 | 8.849 | 8.708 |
| %RSD | .0438363 | .1585031 | .1921177 | .2827685 | .3019842 |
| #1 | 2792.791 | 66021.14 | 9937.101 | 3133.594 | 2876.077 |
| #2 | 2793.775 | 66123.83 | 9922.050 | 3135.326 | 2893.150 |
| #3 | 2791.341 | 65914.55 | 9899.250 | 3119.206 | 2881.634 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-15 Acquired: 1/12/2025 16:55:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN13 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0585946** | **-.001851** | **1.810967** | **.0211004** | **.0006164** | **48.09952** |
| Stddev | .0014730 | .001462 | .009255 | .0008301 | .0022524 | .12507 |
| %RSD | 2.513805 | 78.97459 | .5110702 | 3.933954 | 365.4235 | .2600167 |
| #1 | .0594416 | -.001828 | 1.815203 | .0209341 | -.001983 | 47.97570 |
| #2 | .0594485 | -.003324 | 1.817347 | .0203661 | .001986 | 48.09705 |
| #3 | .0568938 | -.000401 | 1.800352 | .0220011 | .001846 | 48.22580 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.001760** | **.0029300** | **.0086634** | **61.15024** | **.1688585** | **.0447187** |
| Stddev | .001850 | .0000186 | .0001418 | .17258 | .0006699 | .0002802 |
| %RSD | .1847115 | .6363893 | 1.636275 | .2822218 | .3967282 | .6265538 |
| #1 | 1.000231 | .0029088 | .0087132 | 61.00688 | .1687525 | .0445771 |
| #2 | 1.001231 | .0029373 | .0087736 | 61.10205 | .1682479 | .0450414 |
| #3 | 1.003817 | .0029439 | .0085035 | 61.34180 | .1695751 | .0445376 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4028450** | **104.1774** | **3.773728** | **22.19450** | **.1332182** | **-.007529** |
| Stddev | .0030231 | .3995 | .007968 | .07374 | .0012973 | .000135 |
| %RSD | .7504414 | .3834803 | .2111368 | .3322276 | .9738219 | 1.796291 |
| #1 | .4032066 | 103.8277 | 3.766031 | 22.12862 | .1336124 | -.007487 |
| #2 | .3996574 | 104.0918 | 3.773211 | 22.18072 | .1342727 | -.007420 |
| #3 | .4056711 | 104.6128 | 3.781941 | 22.27415 | .1317695 | -.007680 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5513818** | **.1182384** | **1.918695** | **5.437364** | F **11.02491** | **.4512236** |
| Stddev | .0521074 | .0016347 | .007831 | .065449 | .04201 | .0021843 |
| %RSD | 9.450336 | 1.382573 | .4081476 | 1.203687 | .3810042 | .4840797 |
| #1 | .5528915 | .1168381 | 1.926337 | 5.361883 | 11.04222 | .4487535 |
| #2 | .6027180 | .1178424 | 1.919062 | 5.471875 | 11.05549 | .4520170 |
| #3 | .4985359 | .1200348 | 1.910687 | 5.478335 | 10.97701 | .4529003 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-15 Acquired: 1/12/2025 16:55:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN13 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0051517 | 4.444014 | F 19.44283 | .0853374 | .7786278 | .0510456 |
| Stddev | .0001197 | .020156 | .04308 | .0014530 | .0021954 | .0010038 |
| %RSD | 2.323669 | .4535523 | .2215739 | 1.702608 | .2819508 | 1.966417 |
| #1 | .0052083 | 4.446258 | 19.48140 | .0852333 | .7811050 | .0522043 |
| #2 | .0052327 | 4.462953 | 19.39634 | .0868397 | .7769234 | .0504911 |
| #3 | .0050142 | 4.422829 | 19.45075 | .0839394 | .7778548 | .0504413 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1643731 |
| Stddev | .0005882 |
| %RSD | .3578716 |
| #1 | .1637625 |
| #2 | .1644206 |
| #3 | .1649361 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2925.960 | 68969.81 | 9653.406 | 3267.492 | 3516.032 |
| Stddev | 5.937 | 248.68 | 5.599 | 2.250 | 9.414 |
| %RSD | .2029111 | .3605650 | .0579987 | .0688608 | .2677348 |
| #1 | 2920.446 | 69227.14 | 9646.959 | 3268.604 | 3511.184 |
| #2 | 2925.188 | 68951.51 | 9657.047 | 3264.902 | 3510.032 |
| #3 | 2932.245 | 68730.79 | 9656.212 | 3268.969 | 3526.882 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-16 Acquired: 1/12/2025 16:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN14 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1032594** | **-.002714** | **4.142149** | **.0322806** | **.0038424** | **53.50328** |
| Stddev | .0017552 | .000731 | .007096 | .0017434 | .0016852 | .64405 |
| %RSD | 1.699759 | 26.93263 | .1713034 | 5.400917 | 43.85806 | 1.203757 |
| #1 | .1023207 | -.002040 | 4.146701 | .0340755 | .0020588 | 52.83629 |
| #2 | .1021733 | -.003491 | 4.145773 | .0321726 | .0054080 | 54.12163 |
| #3 | .1052843 | -.002611 | 4.133973 | .0305936 | .0040603 | 53.55192 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.991183** | **.0043692** | **.0126177** | **122.3096** | **.3294107** | **.0718840** |
| Stddev | .023000 | .0000453 | .0001252 | 1.3757 | .0032181 | .0004196 |
| %RSD | 1.155097 | 1.035692 | .9918314 | 1.124759 | .9769366 | .5836995 |
| #1 | 1.968298 | .0043793 | .0126803 | 120.9031 | .3257188 | .0720653 |
| #2 | 2.014297 | .0043197 | .0124736 | 123.6523 | .3316226 | .0721824 |
| #3 | 1.990955 | .0044085 | .0126991 | 122.3733 | .3308906 | .0714042 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8994131** | **147.1137** | **6.967566** | **28.00185** | **.1989341** | **-.008080** |
| Stddev | .0028148 | 1.6324 | .073789 | .31482 | .0009615 | .000152 |
| %RSD | .3129549 | 1.109621 | 1.059041 | 1.124273 | .4833468 | 1.881457 |
| #1 | .8987609 | 145.4169 | 6.890790 | 27.66956 | .1991959 | -.007950 |
| #2 | .9024967 | 148.6731 | 7.037954 | 28.29566 | .1997376 | -.008045 |
| #3 | .8969817 | 147.2510 | 6.973954 | 28.04032 | .1978688 | -.008247 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8231204** | **.1466057** | **3.668983** | **6.064161** | F **13.45441** | **.6354122** |
| Stddev | .0167688 | .0019344 | .030705 | .083700 | .03445 | .0075728 |
| %RSD | 2.037219 | 1.319448 | .8368908 | 1.380233 | .2560633 | 1.191799 |
| #1 | .8378849 | .1449435 | 3.635314 | 5.970097 | 13.46960 | .6275810 |
| #2 | .8048892 | .1487289 | 3.695442 | 6.091968 | 13.41498 | .6426972 |
| #3 | .8265870 | .1461445 | 3.676193 | 6.130418 | 13.47867 | .6359583 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-16 Acquired: 1/12/2025 16:59:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN14 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0063502 | 3.118301 | F 20.63784 | .2031792 | .7861272 | .0726855 |
| Stddev | .0001395 | .001874 | .06110 | .0012737 | .0021299 | .0022846 |
| %RSD | 2.197207 | .0601023 | .2960585 | .6268718 | .2709382 | 3.143118 |
| #1 | .0063100 | 3.118692 | 20.64602 | .2024870 | .7838953 | .0707076 |
| #2 | .0065054 | 3.119949 | 20.57307 | .2046491 | .7881378 | .0751861 |
| #3 | .0062351 | 3.116262 | 20.69445 | .2024016 | .7863484 | .0721628 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3011666 |
| Stddev | .0037737 |
| %RSD | 1.253042 |
| #1 | .2972188 |
| #2 | .3047381 |
| #3 | .3015429 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3013.686 | 70918.85 | 10283.77 | 3388.649 | 3380.056 |
| Stddev | 5.636 | 523.81 | 49.82 | 21.702 | 5.716 |
| %RSD | .1870223 | .7386080 | .4844689 | .6404373 | .1691060 |
| #1 | 3018.716 | 71521.71 | 10257.56 | 3412.610 | 3383.778 |
| #2 | 3007.594 | 70575.08 | 10341.22 | 3370.312 | 3373.474 |
| #3 | 3014.747 | 70659.74 | 10252.52 | 3383.026 | 3382.915 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-17 Acquired: 1/12/2025 17:03:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN15 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1288681** | **-.007860** | **5.214295** | **.0396763** | **.0011978** | **64.09040** |
| Stddev | .0013164 | .001294 | .007663 | .0030135 | .0008200 | .15660 |
| %RSD | 1.021476 | 16.46638 | .1469573 | 7.595289 | 68.45505 | .2443410 |
| #1 | .1278073 | -.007644 | 5.221696 | .0385420 | .0002555 | 64.14888 |
| #2 | .1284558 | -.009249 | 5.206395 | .0430924 | .0015896 | 63.91298 |
| #3 | .1303413 | -.006687 | 5.214793 | .0373945 | .0017484 | 64.20934 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.485058** | **.0054040** | **.0166523** | **218.1327** | **.3213875** | **.1043205** |
| Stddev | .005735 | .0001243 | .0001169 | .3383 | .0007494 | .0002913 |
| %RSD | .2307796 | 2.300037 | .7018900 | .1550971 | .2331865 | .2792700 |
| #1 | 2.491432 | .0055466 | .0167321 | 218.3997 | .3209168 | .1045043 |
| #2 | 2.480315 | .0053466 | .0165182 | 217.7522 | .3209940 | .1039846 |
| #3 | 2.483426 | .0053187 | .0167067 | 218.2462 | .3222517 | .1044727 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8435241** | **220.4987** | **11.16826** | **43.14440** | **.2368187** | **-.016785** |
| Stddev | .0024137 | .3772 | .01213 | .06183 | .0003787 | .000204 |
| %RSD | .2861477 | .1710496 | .1085865 | .1433074 | .1599019 | 1.217638 |
| #1 | .8462481 | 220.6238 | 11.17979 | 43.07306 | .2372243 | -.016568 |
| #2 | .8426732 | 220.0749 | 11.15561 | 43.18239 | .2367575 | -.016975 |
| #3 | .8416511 | 220.7974 | 11.16937 | 43.17775 | .2364744 | -.016812 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.063614** | **.1813421** | **3.931547** | **8.043398** | F **19.18555** | **.9312729** |
| Stddev | .044955 | .0006339 | .002469 | .008452 | .03640 | .0020222 |
| %RSD | 4.226606 | .3495420 | .0627874 | .1050779 | .1897411 | .2171484 |
| #1 | 1.015915 | .1820725 | 3.931174 | 8.052529 | 19.22215 | .9300014 |
| #2 | 1.069727 | .1809364 | 3.934182 | 8.041815 | 19.14935 | .9302125 |
| #3 | 1.105199 | .1810173 | 3.929287 | 8.035849 | 19.18516 | .9336048 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-17 Acquired: 1/12/2025 17:03:43 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN15 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0075433 | 2.694968 | F 20.60798 | .2016249 | .9241128 | .1022722 |
| Stddev | .0002876 | .007784 | .08787 | .0005808 | .0020906 | .0005349 |
| %RSD | 3.812649 | .2888279 | .4263731 | .2880511 | .2262304 | .5230361 |
| #1 | .0078332 | 2.701054 | 20.67107 | .2012945 | .9264281 | .1021447 |
| #2 | .0075387 | 2.686197 | 20.64523 | .2012847 | .9235471 | .1028593 |
| #3 | .0072581 | 2.697653 | 20.50762 | .2022955 | .9223633 | .1018125 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4203769 |
| Stddev | .0013657 |
| %RSD | .3248821 |
| #1 | .4209326 |
| #2 | .4188209 |
| #3 | .4213772 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3233.340 | 76329.13 | 10928.54 | 3604.245 | 3239.925 |
| Stddev | 2.490 | 163.75 | 28.14 | 3.035 | 5.495 |
| %RSD | .0770181 | .2145369 | .2574937 | .0842123 | .1696071 |
| #1 | 3230.589 | 76177.83 | 10900.54 | 3604.680 | 3233.742 |
| #2 | 3233.995 | 76502.99 | 10928.26 | 3601.015 | 3244.252 |
| #3 | 3235.438 | 76306.56 | 10956.82 | 3607.039 | 3241.780 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-18 Acquired: 1/12/2025 17:07:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN16 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0966942** | **-.009131** | **1.668575** | **.0249178** | **-.000994** | **58.01590** |
| Stddev | .0009363 | .000228 | .000806 | .0020148 | .000660 | .11113 |
| %RSD | .9682816 | 2.500291 | .0483249 | 8.085732 | 66.38617 | .1915586 |
| #1 | .0966897 | -.009270 | 1.668865 | .0233830 | -.000285 | 57.91471 |
| #2 | .0976327 | -.009256 | 1.669197 | .0271993 | -.001590 | 58.13484 |
| #3 | .0957602 | -.008868 | 1.667664 | .0241710 | -.001108 | 57.99814 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.211153** | **.0048043** | **.0093600** | **210.0952** | **.1929562** | **.0972498** |
| Stddev | .005578 | .0000651 | .0001292 | .4599 | .0002677 | .0004600 |
| %RSD | .2522758 | 1.354144 | 1.380500 | .2188848 | .1387376 | .4730293 |
| #1 | 2.214560 | .0047470 | .0093162 | 209.9169 | .1927184 | .0967277 |
| #2 | 2.214183 | .0047910 | .0092584 | 210.6175 | .1932461 | .0975956 |
| #3 | 2.204715 | .0048750 | .0095054 | 209.7511 | .1929041 | .0974260 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4145908** | **163.0547** | **15.15748** | **41.13294** | **.1570626** | **-.012864** |
| Stddev | .0021331 | .4440 | .02732 | .19614 | .0002410 | .000070 |
| %RSD | .5145158 | .2723232 | .1802533 | .4768493 | .1534330 | .5461767 |
| #1 | .4125417 | 162.7120 | 15.14538 | 40.92327 | .1573267 | -.012913 |
| #2 | .4144318 | 163.5563 | 15.18876 | 41.31194 | .1570066 | -.012783 |
| #3 | .4167991 | 162.8959 | 15.13829 | 41.16363 | .1568546 | -.012894 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6305716** | **.1515677** | **1.464496** | **6.699730** | **9.854967** | **.6845940** |
| Stddev | .0621303 | .0004256 | .003495 | .007583 | .012307 | .0022565 |
| %RSD | 9.853018 | .2807892 | .2386635 | .1131772 | .1248774 | .3296065 |
| #1 | .6874551 | .1520434 | 1.464001 | 6.691716 | 9.868568 | .6822730 |
| #2 | .6399899 | .1514368 | 1.461275 | 6.706791 | 9.851730 | .6867799 |
| #3 | .5642699 | .1512230 | 1.468212 | 6.700683 | 9.844602 | .6847291 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-18 Acquired: 1/12/2025 17:07:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN16 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0091345 | 1.584877 | F 19.29180 | .0693215 | .9268437 | .0922140 |
| Stddev | .0001372 | .005535 | .01989 | .0005780 | .0010079 | .0006121 |
| %RSD | 1.501520 | .3492136 | .1030779 | .8337329 | .1087460 | .6637789 |
| #1 | .0091187 | 1.586855 | 19.31329 | .0687578 | .9280027 | .0916986 |
| #2 | .0090058 | 1.578625 | 19.28807 | .0692939 | .9263552 | .0928905 |
| #3 | .0092788 | 1.589151 | 19.27404 | .0699127 | .9261731 | .0920528 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2644897 |
| Stddev | .0003902 |
| %RSD | .1475226 |
| #1 | .2641496 |
| #2 | .2649156 |
| #3 | .2644038 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3070.028 | 74986.82 | 10427.87 | 3497.454 | 3195.974 |
| Stddev | 9.420 | 231.98 | 26.06 | 11.766 | 9.998 |
| %RSD | .3068402 | .3093611 | .2498613 | .3364048 | .3128383 |
| #1 | 3062.402 | 75243.50 | 10450.53 | 3507.125 | 3187.710 |
| #2 | 3067.124 | 74792.12 | 10433.66 | 3500.882 | 3193.124 |
| #3 | 3080.558 | 74924.85 | 10399.40 | 3484.355 | 3207.088 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-19 Acquired: 1/12/2025 17:11:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN17 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0831683** | **-.013716** | **.6922497** | **.0264991** | **-.003766** | **48.74886** |
| Stddev | .0006208 | .001401 | .0028226 | .0002141 | .000681 | .37608 |
| %RSD | .7464501 | 10.21277 | .4077467 | .8079732 | 18.07655 | .7714711 |
| #1 | .0834450 | -.014928 | .6898240 | .0262529 | -.004144 | 48.50095 |
| #2 | .0824572 | -.014039 | .6953478 | .0266419 | -.004173 | 48.56404 |
| #3 | .0836026 | -.012182 | .6915771 | .0266026 | -.002980 | 49.18159 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.429411** | **.0049701** | **.0067166** | **85.12259** | **.1233150** | **.0827853** |
| Stddev | .016673 | .0001588 | .0001267 | .57253 | .0003117 | .0007250 |
| %RSD | .6862787 | 3.195070 | 1.885771 | .6725918 | .2527607 | .8757559 |
| #1 | 2.419427 | .0049375 | .0065956 | 84.70527 | .1229564 | .0820507 |
| #2 | 2.420148 | .0051426 | .0068483 | 84.88721 | .1234671 | .0835003 |
| #3 | 2.448658 | .0048301 | .0067060 | 85.77529 | .1235213 | .0828050 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2878085** | **140.8416** | **25.69348** | **27.36908** | **.1201836** | **-.008622** |
| Stddev | .0035597 | 1.0238 | .20583 | .16143 | .0017445 | .000171 |
| %RSD | 1.236828 | .7268817 | .8011155 | .5898258 | 1.451555 | 1.979705 |
| #1 | .2837169 | 140.1075 | 25.60263 | 27.23649 | .1184389 | -.008641 |
| #2 | .2901936 | 140.4061 | 25.92911 | 27.32191 | .1219280 | -.008782 |
| #3 | .2895152 | 142.0111 | 25.54871 | 27.54884 | .1201840 | -.008442 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4929274** | **.1233335** | **.9132484** | **4.592964** | **6.251816** | **.5865446** |
| Stddev | .1335080 | .0004071 | .0019072 | .033453 | .038173 | .0041770 |
| %RSD | 27.08471 | .3300902 | .2088391 | .7283525 | .6105852 | .7121435 |
| #1 | .3563545 | .1233267 | .9154298 | 4.558300 | 6.212636 | .5849328 |
| #2 | .6231433 | .1237439 | .9124199 | 4.595535 | 6.288894 | .5834136 |
| #3 | .4992845 | .1229298 | .9118956 | 4.625058 | 6.253920 | .5912874 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-19 Acquired: 1/12/2025 17:11:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN17 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0121757 | .9671415 | F 21.73377 | .0428955 | .6901079 | .0752327 |
| Stddev | .0001399 | .0060813 | .25022 | .0009659 | .0078974 | .0012663 |
| %RSD | 1.149277 | .6287940 | 1.151300 | 2.251845 | 1.144372 | 1.683136 |
| #1 | .0121278 | .9607001 | 21.44513 | .0426151 | .6810084 | .0739422 |
| #2 | .0120661 | .9727837 | 21.88922 | .0439705 | .6941394 | .0752828 |
| #3 | .0123333 | .9679407 | 21.86697 | .0421007 | .6951759 | .0764732 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1713350 |
| Stddev | .0015004 |
| %RSD | .8757339 |
| #1 | .1704779 |
| #2 | .1704595 |
| #3 | .1730675 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3132.715 | 72678.29 | 10257.22 | 3464.849 | 3453.965 |
| Stddev | 9.012 | 217.39 | 104.67 | 8.867 | 18.032 |
| %RSD | .2876815 | .2991108 | 1.020417 | .2559016 | .5220559 |
| #1 | 3143.002 | 72859.19 | 10372.71 | 3458.604 | 3474.772 |
| #2 | 3128.933 | 72738.56 | 10168.62 | 3474.998 | 3442.882 |
| #3 | 3126.210 | 72437.13 | 10230.34 | 3460.946 | 3444.242 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-02 Acquired: 1/12/2025 17:15:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1682307** | **-.001014** | **1.739957** | **.0267849** | **-.000218** | **60.19547** |
| Stddev | .0013774 | .000525 | .002450 | .0003752 | .000454 | .30130 |
| %RSD | .8187413 | 51.73737 | .1408063 | 1.400836 | 208.4785 | .5005283 |
| #1 | .1666681 | -.000409 | 1.740500 | .0271090 | -.000153 | 60.14404 |
| #2 | .1687555 | -.001332 | 1.737281 | .0268719 | .000200 | 59.92319 |
| #3 | .1692686 | -.001302 | 1.742089 | .0263739 | -.000700 | 60.51916 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.374082** | **.0065268** | **.0099534** | **42.22750** | **.2197410** | **.0877411** |
| Stddev | .005401 | .0000112 | .0000572 | .22019 | .0001700 | .0000939 |
| %RSD | .3930413 | .1711981 | .5748203 | .5214320 | .0773700 | .1070739 |
| #1 | 1.376573 | .0065340 | .0099358 | 42.27087 | .2199236 | .0877733 |
| #2 | 1.367885 | .0065325 | .0100173 | 41.98885 | .2197119 | .0876353 |
| #3 | 1.377788 | .0065140 | .0099071 | 42.42277 | .2195873 | .0878147 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4621669** | **117.0514** | **7.878412** | **13.41470** | **.2090488** | **-.008190** |
| Stddev | .0016126 | .5760 | .036437 | .05038 | .0005328 | .000205 |
| %RSD | .3489296 | .4920606 | .4624903 | .3755837 | .2548443 | 2.502500 |
| #1 | .4622927 | 116.9282 | 7.885733 | 13.37526 | .2091187 | -.008240 |
| #2 | .4637130 | 116.5470 | 7.838870 | 13.39737 | .2084846 | -.008365 |
| #3 | .4604951 | 117.6790 | 7.910633 | 13.47146 | .2095432 | -.007965 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6742107** | **.2154188** | **1.481938** | **7.188750** | F **10.17306** | **.5033115** |
| Stddev | .0940725 | .0023240 | .004844 | .039682 | .00422 | .0031399 |
| %RSD | 13.95299 | 1.078809 | .3268784 | .5520081 | .0415062 | .6238389 |
| #1 | .7601316 | .2141875 | 1.486926 | 7.229431 | 10.17708 | .5022523 |
| #2 | .5736929 | .2180993 | 1.477252 | 7.186670 | 10.16866 | .5008381 |
| #3 | .6888075 | .2139695 | 1.481637 | 7.150148 | 10.17344 | .5068439 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-02 Acquired: 1/12/2025 17:15:40 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081411 | 2.932124 | F 20.54432 | .0657157 | .8629154 | .1069074 |
| Stddev | .0003065 | .003121 | .08389 | .0003320 | .0032477 | .0005148 |
| %RSD | 3.764916 | .1064446 | .4083397 | .5052396 | .3763653 | .4815733 |
| #1 | .0083371 | 2.930736 | 20.46746 | .0653381 | .8598559 | .1074976 |
| #2 | .0082982 | 2.935699 | 20.63381 | .0659620 | .8663233 | .1065507 |
| #3 | .0077879 | 2.929938 | 20.53168 | .0658470 | .8625671 | .1066738 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2959677 |
| Stddev | .0015559 |
| %RSD | .5257020 |
| #1 | .2957616 |
| #2 | .2945251 |
| #3 | .2976164 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3054.742 | 72303.56 | 10102.05 | 3435.891 | 3465.379 |
| Stddev | 6.638 | 350.32 | 29.79 | 21.791 | 4.000 |
| %RSD | .2173067 | .4845105 | .2948739 | .6342244 | .1154359 |
| #1 | 3061.695 | 72109.52 | 10117.28 | 3418.469 | 3468.911 |
| #2 | 3054.061 | 72707.97 | 10067.73 | 3460.325 | 3466.191 |
| #3 | 3048.471 | 72093.20 | 10121.14 | 3428.879 | 3461.035 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-03 Acquired: 1/12/2025 17:19:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1473135** | **-.000883** | **1.577789** | **.0302114** | **-.000476** | **63.36850** |
| Stddev | .0022870 | .002283 | .002310 | .0015011 | .001501 | .27043 |
| %RSD | 1.552454 | 258.4947 | .1464113 | 4.968543 | 315.5394 | .4267600 |
| #1 | .1449408 | -.001881 | 1.580386 | .0284841 | .000477 | 63.08894 |
| #2 | .1495038 | .001729 | 1.575964 | .0309511 | .000302 | 63.62878 |
| #3 | .1474959 | -.002498 | 1.577017 | .0311991 | -.002206 | 63.38777 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.316573** | **.0062544** | **.0098527** | **39.98408** | **.1887282** | **.0824200** |
| Stddev | .005740 | .0000448 | .0001988 | .18834 | .0007992 | .0001100 |
| %RSD | .4359459 | .7157320 | 2.017801 | .4710298 | .4234763 | .1335143 |
| #1 | 1.311472 | .0063021 | .0100391 | 39.80933 | .1878054 | .0824847 |
| #2 | 1.322788 | .0062479 | .0096434 | 40.18356 | .1891933 | .0822930 |
| #3 | 1.315461 | .0062133 | .0098756 | 39.95935 | .1891859 | .0824824 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4211903** | **126.3083** | **8.814996** | **16.72046** | **.1919912** | **-.008739** |
| Stddev | .0027039 | .7057 | .031548 | .09826 | .0006660 | .000240 |
| %RSD | .6419685 | .5587254 | .3578907 | .5876425 | .3469083 | 2.747210 |
| #1 | .4208070 | 125.5643 | 8.782255 | 16.61708 | .1924418 | -.009011 |
| #2 | .4240654 | 126.9683 | 8.845198 | 16.81263 | .1912262 | -.008653 |
| #3 | .4186985 | 126.3923 | 8.817534 | 16.73167 | .1923056 | -.008554 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7553383** | **.2210681** | **1.468253** | **7.229439** | **9.727641** | **.5426193** |
| Stddev | .1639172 | .0019033 | .001511 | .069204 | .031803 | .0028271 |
| %RSD | 21.70116 | .8609397 | .1029081 | .9572528 | .3269346 | .5210018 |
| #1 | .5697797 | .2230936 | 1.469841 | 7.154085 | 9.762741 | .5396249 |
| #2 | .8804414 | .2193168 | 1.466833 | 7.290149 | 9.700741 | .5452423 |
| #3 | .8157937 | .2207941 | 1.468087 | 7.244084 | 9.719440 | .5429908 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-03 Acquired: 1/12/2025 17:19:34 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0082500 | 2.402853 | F 21.80581 | .0626653 | .8713514 | .1115160 |
| Stddev | .0001380 | .005117 | .06734 | .0014966 | .0025220 | .0009544 |
| %RSD | 1.673290 | .2129394 | .3088114 | 2.388242 | .2894388 | .8558439 |
| #1 | .0081358 | 2.404215 | 21.86471 | .0628223 | .8741805 | .1118332 |
| #2 | .0082108 | 2.397194 | 21.82032 | .0610964 | .8705349 | .1122713 |
| #3 | .0084034 | 2.407151 | 21.73240 | .0640772 | .8693387 | .1104433 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2802535 |
| Stddev | .0014677 |
| %RSD | .5237173 |
| #1 | .2786750 |
| #2 | .2815771 |
| #3 | .2805085 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3153.731 | 71877.40 | 10227.33 | 3444.390 | 3583.799 |
| Stddev | 2.243 | 289.04 | 30.16 | 8.149 | 7.835 |
| %RSD | .0711350 | .4021304 | .2948615 | .2365795 | .2186108 |
| #1 | 3151.218 | 72123.97 | 10194.41 | 3438.413 | 3574.845 |
| #2 | 3155.533 | 71559.32 | 10233.97 | 3441.086 | 3589.392 |
| #3 | 3154.442 | 71948.92 | 10253.62 | 3453.672 | 3587.160 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV010 Acquired: 1/12/2025 17:23:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.722430** | **4.589897** | **23.05673** | **4.736145** | **4.685924** | **364.3697** |
| Stddev | .015029 | .016056 | .02894 | .017765 | .007063 | 2.9184 |
| %RSD | .3182500 | .3498187 | .1255377 | .3750998 | .1507317 | .8009504 |
| #1 | 4.716584 | 4.572337 | 23.03166 | 4.723430 | 4.680703 | 364.1381 |
| #2 | 4.739504 | 4.593527 | 23.05013 | 4.756443 | 4.693961 | 367.3970 |
| #3 | 4.711202 | 4.603828 | 23.08841 | 4.728562 | 4.683107 | 361.5739 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.576057** | **.5259723** | **2.612309** | **369.3337** | **14.76131** | **2.334000** |
| Stddev | .091399 | .0019355 | .004326 | 3.2354 | .04668 | .003592 |
| %RSD | .9544555 | .3679887 | .1656032 | .8760045 | .3162097 | .1539036 |
| #1 | 9.681448 | .5278293 | 2.607914 | 368.7736 | 14.77872 | 2.330544 |
| #2 | 9.518527 | .5261207 | 2.612449 | 372.8126 | 14.79678 | 2.333743 |
| #3 | 9.528196 | .5239668 | 2.616563 | 366.4150 | 14.70843 | 2.337714 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.18358** | **371.1034** | **14.01189** | **234.0152** | **2.331838** | **1.311716** |
| Stddev | .02416 | .9702 | .02773 | .7049 | .003611 | .002964 |
| %RSD | .1703518 | .2614486 | .1979094 | .3012100 | .1548558 | .2259610 |
| #1 | 14.18680 | 370.2795 | 13.98177 | 233.4558 | 2.328987 | 1.311562 |
| #2 | 14.15797 | 372.1728 | 14.03636 | 234.8069 | 2.330629 | 1.314754 |
| #3 | 14.20598 | 370.8578 | 14.01753 | 233.7828 | 2.335899 | 1.308832 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **372.4861** | **2.325909** | **14.79656** | **136.6570** | **4.615921** | F **5.646892** |
| Stddev | .2873 | .003773 | .02800 | .5259 | .023880 | .005557 |
| %RSD | .0771355 | .1622239 | .1892154 | .3847990 | .5173466 | .0984080 |
| #1 | 372.4801 | 2.326051 | 14.77243 | 136.1172 | 4.596612 | 5.652001 |
| #2 | 372.2018 | 2.322067 | 14.82726 | 137.1677 | 4.608527 | 5.647700 |
| #3 | 372.7763 | 2.329609 | 14.78998 | 136.6861 | 4.642624 | 5.640975 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV010 Acquired: 1/12/2025 17:23:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV010 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 4.418692 | 4.609876 | 4.675933 | 4.600942 | 4.637845 | F 4.243883 |
| Stddev | .009062 | .004201 | .006865 | .005694 | .003127 | .014213 |
| %RSD | .2050889 | .0911294 | .1468237 | .1237497 | .0674185 | .3348950 |
| #1 | 4.409169 | 4.608973 | 4.675556 | 4.597570 | 4.641151 | 4.227717 |
| #2 | 4.427210 | 4.614455 | 4.669264 | 4.597740 | 4.634936 | 4.249518 |
| #3 | 4.419697 | 4.606200 | 4.682979 | 4.607516 | 4.637448 | 4.254414 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 4.683446 |
| Stddev | .005754 |
| %RSD | .1228632 |
| #1 | 4.678308 |
| #2 | 4.682366 |
| #3 | 4.689663 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2141.486 | 52770.92 | 7974.998 | 2513.107 | 2869.631 |
| Stddev | 3.325 | 131.96 | 39.015 | 5.631 | 2.925 |
| %RSD | .1552564 | .2500606 | .4892158 | .2240573 | .1019321 |
| #1 | 2143.731 | 52705.37 | 7930.160 | 2519.577 | 2871.618 |
| #2 | 2137.667 | 52684.56 | 7993.639 | 2510.427 | 2871.003 |
| #3 | 2143.061 | 52922.82 | 8001.196 | 2509.316 | 2866.272 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB010 Acquired: 1/12/2025 17:28:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000437** | **.0010140** | **.0011306** | **.0019961** | **-.000948** | **.0031537** | **-.005329** |
| Stddev | .001088 | .0017848 | .0012381 | .0021809 | .001779 | .0041110 | .000078 |
| %RSD | 248.7988 | 176.0140 | 109.5092 | 109.2600 | 187.6062 | 130.3530 | 1.462292 |
| #1 | -.001457 | .0023807 | .0009174 | -.000475 | -.000515 | .0011547 | -.005419 |
| #2 | .000707 | -.001005 | .0024616 | .003652 | .000574 | .0004246 | -.005286 |
| #3 | -.000562 | .001667 | .0000130 | .002811 | -.002904 | .0078820 | -.005283 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000083** | **.0001367** | **.0161464** | **.0004576** | **-.000006** | **.0005722** | **.0269516** |
| Stddev | .000072 | .0000296 | .0075992 | .0001291 | .000044 | .0011059 | .0016562 |
| %RSD | 85.95155 | 21.61955 | 47.06422 | 28.21114 | 690.7927 | 193.2708 | 6.145089 |
| #1 | -.000063 | .0001166 | .0204883 | .0004013 | .000018 | .0004405 | .0271062 |
| #2 | -.000024 | .0001707 | .0073718 | .0003662 | .000020 | -.000462 | .0285250 |
| #3 | -.000163 | .0001229 | .0205791 | .0006053 | -.000057 | .001738 | .0252235 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005957** | **.0076536** | **-.000233** | **.0002053** | **.1756028** | **-.003125** | **.0003481** |
| Stddev | .0002175 | .0014893 | .000289 | .0001851 | .0960922 | .001740 | .0000975 |
| %RSD | 36.51135 | 19.45889 | 124.0811 | 90.13984 | 54.72131 | 55.65826 | 28.00148 |
| #1 | .0008438 | .0060086 | -.000160 | .0002963 | .2580787 | -.004245 | .0004483 |
| #2 | .0004380 | .0080419 | -.000552 | -.000008 | .1986456 | -.004010 | .0002536 |
| #3 | .0005052 | .0089102 | .000013 | .000327 | .0700842 | -.001121 | .0003425 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.042408** | **-.001034** | **.0011609** | **.0006177** | **.0015215** | **.0058534** | **.0004989** |
| Stddev | .068134 | .000610 | .0006063 | .0002056 | .0037480 | .0023859 | .0001784 |
| %RSD | 160.6645 | 58.98154 | 52.22792 | 33.29125 | 246.3368 | 40.76049 | 35.75717 |
| #1 | -.101942 | -.001401 | .0018560 | .0006790 | .0056935 | .0034911 | .0003172 |
| #2 | .031902 | -.000330 | .0008857 | .0007857 | .0004321 | .0082622 | .0005059 |
| #3 | -.057184 | -.001372 | .0007409 | .0003884 | -.001561 | .0058069 | .0006738 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB010 Acquired: 1/12/2025 17:28:02 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB010 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000458 | -.001525 | .0000828 |
| Stddev | .000380 | .000997 | .0000523 |
| %RSD | 83.05665 | 65.36722 | 63.19872 |
| #1 | -.000878 | -.000862 | .0001274 |
| #2 | -.000358 | -.002672 | .0000960 |
| #3 | -.000137 | -.001042 | .0000252 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2659.970 | 61882.71 | 8313.836 | 2949.210 | 3774.735 |
| Stddev | 6.348 | 153.27 | 9.171 | 9.519 | 7.213 |
| %RSD | .2386387 | .2476755 | .1103081 | .3227705 | .1910856 |
| #1 | 2654.238 | 61760.05 | 8304.014 | 2940.754 | 3766.696 |
| #2 | 2666.792 | 62054.52 | 8322.174 | 2959.519 | 3780.640 |
| #3 | 2658.881 | 61833.55 | 8315.322 | 2947.357 | 3776.870 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-04 Acquired: 1/12/2025 17:32:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0999493** | **-.005681** | **.7177680** | **.0290336** | **-.003023** | **63.34481** |
| Stddev | .0025783 | .000266 | .0026323 | .0010251 | .002004 | .36047 |
| %RSD | 2.579650 | 4.677405 | .3667344 | 3.530876 | 66.27880 | .5690564 |
| #1 | .0969856 | -.005439 | .7150689 | .0278940 | -.005185 | 63.69585 |
| #2 | .1011854 | -.005639 | .7179071 | .0293264 | -.001228 | 62.97560 |
| #3 | .1016769 | -.005966 | .7203280 | .0298806 | -.002658 | 63.36296 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.437798** | **.0063504** | **.0095184** | **38.60243** | **.1331252** | **.0827110** |
| Stddev | .013124 | .0000117 | .0000385 | .22229 | .0008794 | .0004908 |
| %RSD | .9127550 | .1850070 | .4047714 | .5758357 | .6605697 | .5934446 |
| #1 | 1.447424 | .0063634 | .0095424 | 38.82421 | .1321991 | .0822511 |
| #2 | 1.422849 | .0063406 | .0094740 | 38.37964 | .1339489 | .0832278 |
| #3 | 1.443121 | .0063472 | .0095389 | 38.60342 | .1332275 | .0826541 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2320630** | **135.4391** | **14.39679** | **17.05210** | **.1619932** | **-.009912** |
| Stddev | .0018108 | .7429 | .12322 | .10221 | .0005492 | .000423 |
| %RSD | .7803058 | .5484904 | .8558693 | .5994272 | .3390336 | 4.266609 |
| #1 | .2299825 | 136.2089 | 14.49597 | 17.16472 | .1617696 | -.009466 |
| #2 | .2329221 | 134.7265 | 14.25886 | 16.96521 | .1615910 | -.009964 |
| #3 | .2332843 | 135.3819 | 14.43555 | 17.02637 | .1626189 | -.010307 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5159799** | **.1962937** | **.9174861** | **7.717864** | **9.703457** | **.5743344** |
| Stddev | .1295835 | .0006805 | .0022514 | .081876 | .021850 | .0036310 |
| %RSD | 25.11407 | .3466790 | .2453840 | 1.060865 | .2251771 | .6322165 |
| #1 | .5399707 | .1959711 | .9200197 | 7.805565 | 9.680798 | .5771092 |
| #2 | .3760773 | .1970755 | .9167237 | 7.643434 | 9.705179 | .5702249 |
| #3 | .6318915 | .1958345 | .9157149 | 7.704593 | 9.724396 | .5756689 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-04 Acquired: 1/12/2025 17:32:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0097061 | 2.437853 | F 22.05410 | .0429137 | .7008123 | .0993931 |
| Stddev | .0003544 | .007840 | .09151 | .0004637 | .0018041 | .0006141 |
| %RSD | 3.651504 | .3215830 | .4149227 | 1.080461 | .2574262 | .6178356 |
| #1 | .0099005 | 2.428809 | 22.15902 | .0427412 | .7028750 | .0998458 |
| #2 | .0092970 | 2.442042 | 22.01248 | .0425610 | .7000327 | .0986941 |
| #3 | .0099207 | 2.442709 | 21.99080 | .0434389 | .6995291 | .0996393 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2047921 |
| Stddev | .0010503 |
| %RSD | .5128781 |
| #1 | .2059280 |
| #2 | .2038562 |
| #3 | .2045920 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3222.454 | 75605.73 | 10422.27 | 3590.050 | 3505.210 |
| Stddev | .620 | 259.58 | 31.08 | 15.349 | 1.682 |
| %RSD | .0192279 | .3433317 | .2981755 | .4275455 | .0479740 |
| #1 | 3223.009 | 75402.97 | 10446.35 | 3575.194 | 3507.010 |
| #2 | 3221.786 | 75898.28 | 10387.19 | 3605.849 | 3504.940 |
| #3 | 3222.566 | 75515.92 | 10433.27 | 3589.107 | 3503.679 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-05 Acquired: 1/12/2025 17:36:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0742621** | **-.008778** | **.3773157** | **.0254280** | **-.004242** | **61.76340** |
| Stddev | .0008992 | .002645 | .0031928 | .0014000 | .000634 | .22542 |
| %RSD | 1.210897 | 30.12818 | .8461766 | 5.505593 | 14.93572 | .3649739 |
| #1 | .0738546 | -.005975 | .3797654 | .0238556 | -.003947 | 61.66081 |
| #2 | .0752929 | -.011229 | .3737048 | .0265392 | -.004970 | 62.02187 |
| #3 | .0736387 | -.009131 | .3784768 | .0258891 | -.003810 | 61.60752 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.943533** | **.0076223** | **.0135796** | **41.83456** | **.1209750** | **.0812857** |
| Stddev | .002754 | .0000946 | .0000388 | .07836 | .0000960 | .0005413 |
| %RSD | .1417031 | 1.241269 | .2854573 | .1873051 | .0793827 | .6658974 |
| #1 | 1.946583 | .0077172 | .0136242 | 41.89330 | .1210720 | .0818871 |
| #2 | 1.941229 | .0076216 | .0135599 | 41.86480 | .1208799 | .0808375 |
| #3 | 1.942786 | .0075280 | .0135546 | 41.74559 | .1209732 | .0811325 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1920983** | **127.2674** | **26.22261** | **16.53563** | **.1934290** | **-.007129** |
| Stddev | .0011150 | .4531 | .51943 | .02768 | .0006496 | .000122 |
| %RSD | .5804395 | .3560162 | 1.980843 | .1673929 | .3358133 | 1.712575 |
| #1 | .1921034 | 127.1317 | 26.29270 | 16.53211 | .1930375 | -.007170 |
| #2 | .1909807 | 127.7728 | 26.70344 | 16.56490 | .1930706 | -.007225 |
| #3 | .1932107 | 126.8976 | 25.67170 | 16.50987 | .1941788 | -.006992 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5926307** | **.1419954** | **.7573483** | **6.307400** | F **10.91920** | **.5427338** |
| Stddev | .1434302 | .0013701 | .0024656 | .047463 | .01961 | .0030353 |
| %RSD | 24.20228 | .9649010 | .3255596 | .7525031 | .1796147 | .5592638 |
| #1 | .7290339 | .1415981 | .7599788 | 6.252656 | 10.94184 | .5409768 |
| #2 | .4430790 | .1408679 | .7569763 | 6.337020 | 10.90834 | .5462387 |
| #3 | .6057792 | .1435203 | .7550898 | 6.332525 | 10.90742 | .5409860 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-05 Acquired: 1/12/2025 17:36:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0156026 | 3.239076 | F 22.12061 | .0198003 | .5384564 | .0804924 |
| Stddev | .0002156 | .006259 | .09121 | .0006755 | .0015410 | .0006269 |
| %RSD | 1.381811 | .1932413 | .4123481 | 3.411584 | .2861964 | .7787829 |
| #1 | .0154035 | 3.245011 | 22.19952 | .0200985 | .5400866 | .0803069 |
| #2 | .0158316 | 3.232537 | 22.02074 | .0202753 | .5370235 | .0799791 |
| #3 | .0155728 | 3.239681 | 22.14157 | .0190270 | .5382591 | .0811910 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2057532 |
| Stddev | .0009835 |
| %RSD | .4779749 |
| #1 | .2053791 |
| #2 | .2068687 |
| #3 | .2050116 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3456.944 | 80456.40 | 11224.07 | 3818.980 | 3485.290 |
| Stddev | 2.672 | 217.50 | 21.59 | 13.185 | 4.059 |
| %RSD | .0772932 | .2703266 | .1923270 | .3452427 | .1164490 |
| #1 | 3453.860 | 80522.07 | 11199.54 | 3806.894 | 3485.704 |
| #2 | 3458.559 | 80213.64 | 11232.51 | 3817.005 | 3489.125 |
| #3 | 3458.413 | 80633.49 | 11240.17 | 3833.041 | 3481.039 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-01 Acquired: 1/12/2025 17:40:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN19 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1055089** | **-.013860** | **.8463159** | **.0319386** | **-.004693** | **54.88576** |
| Stddev | .0016040 | .002656 | .0011289 | .0012879 | .001055 | .90039 |
| %RSD | 1.520205 | 19.16246 | .1333915 | 4.032481 | 22.47730 | 1.640486 |
| #1 | .1048697 | -.016377 | .8458502 | .0310780 | -.005017 | 55.88349 |
| #2 | .1043232 | -.011084 | .8476031 | .0313185 | -.003514 | 54.13370 |
| #3 | .1073339 | -.014119 | .8454943 | .0334193 | -.005547 | 54.64009 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.060992** | **.0056062** | **.0158487** | **54.23980** | **.1237337** | **.1487284** |
| Stddev | .032142 | .0000081 | .0001978 | .79328 | .0013979 | .0005040 |
| %RSD | 1.559538 | .1448149 | 1.247716 | 1.462538 | 1.129728 | .3388975 |
| #1 | 2.093882 | .0056094 | .0156315 | 55.11251 | .1253063 | .1485956 |
| #2 | 2.029654 | .0056123 | .0160183 | 53.56247 | .1226324 | .1492855 |
| #3 | 2.059440 | .0055970 | .0158963 | 54.04442 | .1232624 | .1483040 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3400795** | **149.5877** | **28.04246** | **26.92087** | **.2097880** | **-.008647** |
| Stddev | .0017166 | 2.1783 | .62220 | .35054 | .0002660 | .000394 |
| %RSD | .5047711 | 1.456213 | 2.218786 | 1.302104 | .1267792 | 4.561329 |
| #1 | .3410802 | 152.0214 | 28.76007 | 27.31154 | .2098117 | -.009102 |
| #2 | .3380973 | 147.8205 | 27.71398 | 26.63383 | .2100413 | -.008437 |
| #3 | .3410609 | 148.9213 | 27.65334 | 26.81724 | .2095110 | -.008403 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.107447** | **.1267132** | **1.801752** | **5.593353** | **8.687299** | **.6296582** |
| Stddev | .121542 | .0005208 | .024850 | .138548 | .009686 | .0115439 |
| %RSD | 10.97497 | .4109887 | 1.379228 | 2.477012 | .1114940 | 1.833353 |
| #1 | 1.011307 | .1270785 | 1.830195 | 5.743242 | 8.677616 | .6423168 |
| #2 | 1.066971 | .1269443 | 1.790816 | 5.469978 | 8.696988 | .6197122 |
| #3 | 1.244062 | .1261169 | 1.784245 | 5.566838 | 8.687293 | .6269456 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-01 Acquired: 1/12/2025 17:40:11 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN19 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0101994 | 1.839058 | F 23.57082 | .0731629 | .7414954 | .0913737 |
| Stddev | .0002130 | .002565 | .05371 | .0004870 | .0006485 | .0016910 |
| %RSD | 2.088674 | .1394739 | .2278841 | .6656801 | .0874530 | 1.850589 |
| #1 | .0099780 | 1.836182 | 23.50912 | .0727146 | .7414605 | .0929640 |
| #2 | .0102172 | 1.841110 | 23.59615 | .0730931 | .7408651 | .0895974 |
| #3 | .0104029 | 1.839881 | 23.60718 | .0736811 | .7421606 | .0915598 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1882534 |
| Stddev | .0031821 |
| %RSD | 1.690337 |
| #1 | .1917420 |
| #2 | .1855102 |
| #3 | .1875079 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3371.749 | 77582.99 | 10884.15 | 3710.954 | 3493.361 |
| Stddev | 3.394 | 872.55 | 79.21 | 46.372 | 4.483 |
| %RSD | .1006590 | 1.124662 | .7277687 | 1.249611 | .1283274 |
| #1 | 3375.516 | 76575.46 | 10941.66 | 3658.332 | 3497.677 |
| #2 | 3368.930 | 78087.01 | 10793.80 | 3728.685 | 3488.728 |
| #3 | 3370.799 | 78086.50 | 10917.01 | 3745.845 | 3493.678 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-02 Acquired: 1/12/2025 17:44:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0722796** | **-.001357** | **1.972093** | **.0456892** | **-.001859** | **67.46824** |
| Stddev | .0016804 | .001061 | .003629 | .0003517 | .001140 | .40126 |
| %RSD | 2.324804 | 78.17104 | .1840125 | .7696652 | 61.32609 | .5947393 |
| #1 | .0703498 | -.002520 | 1.974015 | .0457928 | -.001398 | 67.55822 |
| #2 | .0730697 | -.000440 | 1.974357 | .0452973 | -.003157 | 67.81687 |
| #3 | .0734193 | -.001112 | 1.967907 | .0459773 | -.001021 | 67.02963 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.141727** | **.0039637** | **.0101704** | **73.87550** | **.2306046** | **.0757916** |
| Stddev | .008058 | .0002108 | .0000376 | .37405 | .0005364 | .0003337 |
| %RSD | .7057682 | 5.317693 | .3693181 | .5063249 | .2326004 | .4403255 |
| #1 | 1.142930 | .0039103 | .0101592 | 73.94894 | .2304007 | .0754142 |
| #2 | 1.149115 | .0037848 | .0102123 | 74.20738 | .2302001 | .0759132 |
| #3 | 1.133135 | .0041961 | .0101397 | 73.47017 | .2312131 | .0760476 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4819246** | **197.0639** | **6.291156** | **30.97955** | **.3188004** | **-.015491** |
| Stddev | .0018176 | 1.0066 | .027140 | .09070 | .0004784 | .000582 |
| %RSD | .3771537 | .5107871 | .4313923 | .2927618 | .1500660 | 3.757889 |
| #1 | .4829080 | 197.1886 | 6.289618 | 30.95838 | .3193529 | -.015852 |
| #2 | .4830387 | 198.0023 | 6.319032 | 31.07896 | .3185234 | -.014820 |
| #3 | .4798272 | 196.0008 | 6.264819 | 30.90131 | .3185250 | -.015802 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9328304** | **.1626435** | **1.994918** | **9.273730** | F **12.20351** | **.8414935** |
| Stddev | .2196085 | .0023113 | .002885 | .027180 | .02231 | .0054885 |
| %RSD | 23.54216 | 1.421059 | .1446215 | .2930878 | .1828347 | .6522332 |
| #1 | 1.186174 | .1602413 | 1.993723 | 9.255041 | 12.17918 | .8417582 |
| #2 | .796634 | .1628376 | 1.998208 | 9.261239 | 12.20833 | .8468449 |
| #3 | .815684 | .1648515 | 1.992822 | 9.304910 | 12.22301 | .8358775 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-02 Acquired: 1/12/2025 17:44:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0093169 | 5.017095 | F 26.95726 | .1396614 | .9000653 | .0795758 |
| Stddev | .0001148 | .014023 | .10292 | .0013408 | .0017205 | .0004960 |
| %RSD | 1.232591 | .2795014 | .3817809 | .9600527 | .1911523 | .6233499 |
| #1 | .0092486 | 5.031795 | 26.90585 | .1402442 | .8993551 | .0800863 |
| #2 | .0092526 | 5.015626 | 26.89017 | .1381279 | .8988135 | .0790956 |
| #3 | .0094495 | 5.003865 | 27.07575 | .1406123 | .9020272 | .0795454 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1942926 |
| Stddev | .0015012 |
| %RSD | .7726350 |
| #1 | .1950056 |
| #2 | .1953043 |
| #3 | .1925678 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2949.107 | 67329.81 | 9763.797 | 3225.726 | 3508.810 |
| Stddev | 1.950 | 89.13 | 64.673 | 3.991 | 2.366 |
| %RSD | .0661057 | .1323843 | .6623760 | .1237237 | .0674267 |
| #1 | 2950.323 | 67432.72 | 9793.270 | 3227.164 | 3509.484 |
| #2 | 2946.859 | 67277.18 | 9808.483 | 3221.215 | 3510.766 |
| #3 | 2950.140 | 67279.51 | 9689.637 | 3228.799 | 3506.180 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-03 Acquired: 1/12/2025 17:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0743911** | **-.004702** | **1.754919** | **.0380443** | **-.001621** | **67.33886** |
| Stddev | .0010254 | .001108 | .004556 | .0034975 | .002248 | .44658 |
| %RSD | 1.378325 | 23.57466 | .2596376 | 9.193257 | 138.6599 | .6631844 |
| #1 | .0745645 | -.005148 | 1.754023 | .0369631 | .000970 | 66.95212 |
| #2 | .0753186 | -.005518 | 1.759856 | .0352151 | -.003049 | 67.23684 |
| #3 | .0732900 | -.003440 | 1.750877 | .0419548 | -.002784 | 67.82762 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.202383** | **.0039771** | **.0109283** | **167.0207** | **.2026797** | **.0703995** |
| Stddev | .005368 | .0001237 | .0000714 | .8801 | .0008513 | .0005215 |
| %RSD | .4464811 | 3.110332 | .6530679 | .5269703 | .4200284 | .7407847 |
| #1 | 1.196795 | .0040596 | .0109438 | 166.2876 | .2021574 | .0708496 |
| #2 | 1.202853 | .0040368 | .0109907 | 166.7776 | .2022197 | .0705209 |
| #3 | 1.207501 | .0038348 | .0108505 | 167.9968 | .2036621 | .0698280 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4691459** | **188.7174** | **6.749219** | **47.52996** | **.2472848** | **-.015283** |
| Stddev | .0035794 | 1.2472 | .036622 | .30181 | .0008022 | .000108 |
| %RSD | .7629609 | .6608865 | .5426036 | .6349938 | .3243979 | .7049844 |
| #1 | .4709304 | 187.7121 | 6.715769 | 47.26909 | .2466656 | -.015218 |
| #2 | .4714823 | 188.3271 | 6.743540 | 47.46026 | .2481910 | -.015408 |
| #3 | .4650251 | 190.1131 | 6.788348 | 47.86052 | .2469979 | -.015225 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.240687** | **.1555738** | **1.964172** | **8.180079** | F **12.07013** | **.8071049** |
| Stddev | .034451 | .0008304 | .011152 | .035837 | .04003 | .0074584 |
| %RSD | 2.776746 | .5337606 | .5677661 | .4380968 | .3316820 | .9240947 |
| #1 | 1.254945 | .1559598 | 1.956085 | 8.184786 | 12.07331 | .8015605 |
| #2 | 1.201396 | .1546207 | 1.959538 | 8.142122 | 12.10848 | .8041698 |
| #3 | 1.265719 | .1561410 | 1.976894 | 8.213330 | 12.02860 | .8155843 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-03 Acquired: 1/12/2025 17:48:08 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0074685 | 4.775536 | F 24.88492 | .1540580 | 1.016447 | .0824510 |
| Stddev | .0003357 | .021633 | .08935 | .0002083 | .002321 | .0005961 |
| %RSD | 4.495093 | .4529883 | .3590704 | .1351814 | .2283318 | .7229624 |
| #1 | .0073470 | 4.767456 | 24.92764 | .1539133 | 1.017084 | .0829335 |
| #2 | .0078480 | 4.800045 | 24.94491 | .1542967 | 1.018384 | .0826350 |
| #3 | .0072104 | 4.759106 | 24.78223 | .1539641 | 1.013875 | .0817847 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2904958 |
| Stddev | .0021497 |
| %RSD | .7400092 |
| #1 | .2887537 |
| #2 | .2898354 |
| #3 | .2928982 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2874.866 | 65877.08 | 9628.962 | 3171.956 | 3331.694 |
| Stddev | 6.389 | 130.17 | 74.235 | 1.297 | 7.253 |
| %RSD | .2222498 | .1975942 | .7709565 | .0408807 | .2176961 |
| #1 | 2868.184 | 65802.25 | 9551.513 | 3173.114 | 3326.868 |
| #2 | 2875.498 | 66027.38 | 9635.874 | 3172.198 | 3328.179 |
| #3 | 2880.916 | 65801.60 | 9699.500 | 3170.555 | 3340.035 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-04 Acquired: 1/12/2025 17:52:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0875534** | **-.005332** | **3.083203** | **.0299306** | **-.001679** | **52.78383** |
| Stddev | .0012025 | .000680 | .006456 | .0024408 | .000090 | .11256 |
| %RSD | 1.373460 | 12.74623 | .2094023 | 8.154762 | 5.362622 | .2132547 |
| #1 | .0874030 | -.006111 | 3.081925 | .0296869 | -.001577 | 52.91261 |
| #2 | .0888241 | -.005020 | 3.090203 | .0324841 | -.001748 | 52.73465 |
| #3 | .0864332 | -.004864 | 3.077481 | .0276208 | -.001712 | 52.70422 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.708572** | **.0044288** | **.0096478** | **141.6270** | **.1648300** | **.0829880** |
| Stddev | .003771 | .0000823 | .0000679 | .4558 | .0000846 | .0002537 |
| %RSD | .2207115 | 1.859435 | .7038791 | .3218089 | .0513443 | .3057533 |
| #1 | 1.711095 | .0044646 | .0096764 | 142.1334 | .1647468 | .0827814 |
| #2 | 1.704237 | .0044872 | .0096968 | 141.2496 | .1648272 | .0832712 |
| #3 | 1.710385 | .0043346 | .0095703 | 141.4981 | .1649160 | .0829114 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4833326** | **142.7485** | **9.623569** | **40.49386** | **.1702215** | **-.010892** |
| Stddev | .0030073 | .3990 | .026172 | .18147 | .0003737 | .000819 |
| %RSD | .6222072 | .2795090 | .2719574 | .4481387 | .2195170 | 7.515358 |
| #1 | .4819897 | 143.1447 | 9.649062 | 40.70114 | .1700352 | -.010210 |
| #2 | .4867774 | 142.3468 | 9.596767 | 40.36361 | .1706517 | -.011800 |
| #3 | .4812307 | 142.7540 | 9.624878 | 40.41683 | .1699776 | -.010666 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.055944** | **.1442513** | **2.125899** | **6.278409** | F **13.64587** | **.6236014** |
| Stddev | .142300 | .0006366 | .004374 | .016630 | .05893 | .0029419 |
| %RSD | 13.47613 | .4413003 | .2057564 | .2648767 | .4318650 | .4717634 |
| #1 | 1.110911 | .1436719 | 2.125567 | 6.297564 | 13.66846 | .6260476 |
| #2 | .894359 | .1441493 | 2.130429 | 6.270003 | 13.69016 | .6203369 |
| #3 | 1.162563 | .1449328 | 2.121700 | 6.267660 | 13.57898 | .6244196 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-04 Acquired: 1/12/2025 17:52:03 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0070269 | 3.007986 | F 25.10394 | .4112751 | .7168533 | .0759172 |
| Stddev | .0000229 | .015863 | .03732 | .0015362 | .0017700 | .0002401 |
| %RSD | .3262616 | .5273553 | .1486702 | .3735151 | .2469113 | .3162317 |
| #1 | .0070312 | 3.023817 | 25.07768 | .4106873 | .7163027 | .0761825 |
| #2 | .0070021 | 3.008049 | 25.08748 | .4130184 | .7154241 | .0757149 |
| #3 | .0070473 | 2.992091 | 25.14666 | .4101196 | .7188332 | .0758543 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3007425 |
| Stddev | .0005480 |
| %RSD | .1822184 |
| #1 | .3013562 |
| #2 | .3005693 |
| #3 | .3003020 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3058.268 | 72088.12 | 10338.60 | 3443.350 | 3366.948 |
| Stddev | 5.848 | 79.67 | 16.66 | 11.873 | 5.935 |
| %RSD | .1912218 | .1105172 | .1611228 | .3448128 | .1762770 |
| #1 | 3061.599 | 72000.87 | 10357.73 | 3429.660 | 3366.449 |
| #2 | 3051.515 | 72106.50 | 10330.76 | 3449.547 | 3361.279 |
| #3 | 3061.689 | 72157.00 | 10327.31 | 3450.841 | 3373.117 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-06 Acquired: 1/12/2025 17:55:58 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0766532** | **-.006879** | **.3141134** | **.0264157** | **-.004193** | **59.04189** |
| Stddev | .0013470 | .001172 | .0027812 | .0023365 | .001323 | .46356 |
| %RSD | 1.757250 | 17.03688 | .8854121 | 8.845144 | 31.54715 | .7851347 |
| #1 | .0781915 | -.007981 | .3160407 | .0238667 | -.002681 | 58.56182 |
| #2 | .0756850 | -.005648 | .3109250 | .0284559 | -.005133 | 59.48695 |
| #3 | .0760830 | -.007010 | .3153744 | .0269243 | -.004767 | 59.07691 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.463542** | **.0057135** | **.0099178** | **33.40114** | **.1341732** | **.0857375** |
| Stddev | .018158 | .0001152 | .0001880 | .28456 | .0006554 | .0002202 |
| %RSD | 1.240697 | 2.015859 | 1.896038 | .8519563 | .4884654 | .2567678 |
| #1 | 1.445618 | .0058408 | .0100213 | 33.11808 | .1346357 | .0859163 |
| #2 | 1.481926 | .0056166 | .0097007 | 33.68718 | .1344607 | .0858046 |
| #3 | 1.463083 | .0056830 | .0100314 | 33.39816 | .1334232 | .0854916 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1490048** | **140.0477** | **16.55286** | **17.95481** | **.1658897** | **-.009635** |
| Stddev | .0021115 | .9739 | .15730 | .10948 | .0005947 | .000294 |
| %RSD | 1.417067 | .6953900 | .9503106 | .6097263 | .3585032 | 3.053636 |
| #1 | .1478005 | 139.0823 | 16.40074 | 17.87729 | .1658377 | -.009962 |
| #2 | .1477711 | 141.0299 | 16.71488 | 18.08004 | .1653227 | -.009391 |
| #3 | .1514429 | 140.0309 | 16.54297 | 17.90709 | .1665087 | -.009552 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4367671** | **.1602941** | **.7360523** | **5.332139** | **8.455904** | **.5872607** |
| Stddev | .2555236 | .0012622 | .0012034 | .066473 | .009056 | .0054412 |
| %RSD | 58.50340 | .7874364 | .1634928 | 1.246653 | .1071013 | .9265321 |
| #1 | .1574841 | .1588369 | .7357967 | 5.261831 | 8.466246 | .5814016 |
| #2 | .6588287 | .1610465 | .7373630 | 5.340625 | 8.449389 | .5921548 |
| #3 | .4939886 | .1609989 | .7349973 | 5.393962 | 8.452077 | .5882258 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-06 Acquired: 1/12/2025 17:55:58 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMR9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0069693 | 1.904341 | F 21.69217 | .0153077 | .6667793 | .0837419 |
| Stddev | .0002298 | .011290 | .01756 | .0001735 | .0007436 | .0020561 |
| %RSD | 3.297450 | .5928617 | .0809565 | 1.133486 | .1115215 | 2.455246 |
| #1 | .0072019 | 1.917334 | 21.68774 | .0152166 | .6663102 | .0823382 |
| #2 | .0069635 | 1.896925 | 21.71153 | .0151986 | .6676367 | .0861020 |
| #3 | .0067424 | 1.898764 | 21.67725 | .0155078 | .6663910 | .0827857 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1469996 |
| Stddev | .0012276 |
| %RSD | .8351270 |
| #1 | .1456254 |
| #2 | .1479880 |
| #3 | .1473854 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3289.124 | 78580.84 | 10694.95 | 3709.717 | 3522.368 |
| Stddev | .874 | 109.95 | 76.34 | 19.384 | 4.038 |
| %RSD | .0265718 | .1399157 | .7138295 | .5225131 | .1146273 |
| #1 | 3290.129 | 78624.18 | 10612.50 | 3732.000 | 3522.068 |
| #2 | 3288.695 | 78455.83 | 10763.19 | 3700.407 | 3526.547 |
| #3 | 3288.547 | 78662.51 | 10709.17 | 3696.746 | 3518.489 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-07 Acquired: 1/12/2025 17:59:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0563758 | -.002644 | .2134767 | .0288657 | -.002332 | 60.38927 |
| Stddev | .0021091 | .000918 | .0023523 | .0005090 | .002242 | .48578 |
| %RSD | 3.741064 | 34.73494 | 1.101886 | 1.763333 | 96.12661 | .8044173 |
| #1 | .0568903 | -.002976 | .2115409 | .0291181 | -.004634 | 59.98868 |
| #2 | .0581800 | -.003350 | .2127947 | .0282798 | -.002205 | 60.92961 |
| #3 | .0540571 | -.001606 | .2160947 | .0291992 | -.000156 | 60.24952 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6446516 | .0036964 | .0050559 | 177.5626 | .1223030 | .0769550 |
| Stddev | .0043944 | .0000222 | .0001845 | 1.1949 | .0003359 | .0001142 |
| %RSD | .6816682 | .5999867 | 3.649967 | .6729549 | .2746688 | .1483813 |
| #1 | .6408206 | .0037150 | .0051939 | 176.3935 | .1219410 | .0768794 |
| #2 | .6494486 | .0036718 | .0051276 | 178.7818 | .1223636 | .0768992 |
| #3 | .6436855 | .0037023 | .0048463 | 177.5126 | .1226046 | .0770863 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1379281 | 158.0464 | 5.145758 | 65.73030 | .1549579 | -.014504 |
| Stddev | .0020324 | 1.1331 | .033586 | .38859 | .0006988 | .000426 |
| %RSD | 1.473492 | .7169555 | .6526974 | .5911812 | .4509848 | 2.939020 |
| #1 | .1400170 | 157.0073 | 5.115085 | 65.34507 | .1556959 | -.014680 |
| #2 | .1378097 | 159.2546 | 5.181648 | 66.12215 | .1548714 | -.014017 |
| #3 | .1359574 | 157.8773 | 5.140542 | 65.72368 | .1543063 | -.014813 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7487695 | .1398471 | .6569571 | 6.923183 | 6.325766 | .6719958 |
| Stddev | .0569628 | .0009886 | .0029504 | .022865 | .001021 | .0059383 |
| %RSD | 7.607516 | .7069520 | .4490966 | .3302666 | .0161446 | .8836800 |
| #1 | .7615454 | .1409354 | .6574689 | 6.899630 | 6.325042 | .6666353 |
| #2 | .6865037 | .1396017 | .6537843 | 6.945291 | 6.325323 | .6783790 |
| #3 | .7982595 | .1390043 | .6596180 | 6.924629 | 6.326935 | .6709730 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-07 Acquired: 1/12/2025 17:59:55 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0020108 | .8355111 | F 19.59823 | .0095645 | .9510977 | .1037327 |
| Stddev | .0000609 | .0032005 | .05678 | .0005810 | .0007956 | .0014652 |
| %RSD | 3.029030 | .3830601 | .2897366 | 6.074470 | .0836468 | 1.412513 |
| #1 | .0020698 | .8326729 | 19.64012 | .0099392 | .9516836 | .1024949 |
| #2 | .0019482 | .8389800 | 19.62096 | .0098592 | .9501920 | .1053505 |
| #3 | .0020143 | .8348804 | 19.53360 | .0088953 | .9514176 | .1033526 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2362316 |
| Stddev | .0018900 |
| %RSD | .8000808 |
| #1 | .2347153 |
| #2 | .2383491 |
| #3 | .2356305 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3022.974 | 69466.81 | 9998.566 | 3300.958 | 3369.694 |
| Stddev | 4.788 | 110.18 | 44.223 | 11.424 | 3.991 |
| %RSD | .1583771 | .1586032 | .4422921 | .3460950 | .1184276 |
| #1 | 3018.192 | 69517.81 | 9950.504 | 3290.429 | 3365.231 |
| #2 | 3022.961 | 69340.37 | 10037.54 | 3313.105 | 3370.931 |
| #3 | 3027.768 | 69542.24 | 10007.66 | 3299.340 | 3372.919 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-08 Acquired: 1/12/2025 18:03:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN06 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0705938** | **-.003027** | **1.186957** | **.0238628** | **-.001292** | **52.06223** |
| Stddev | .0017912 | .000933 | .000804 | .0046303 | .001162 | .27579 |
| %RSD | 2.537374 | 30.82005 | .0677145 | 19.40368 | 89.94326 | .5297401 |
| #1 | .0714308 | -.002432 | 1.186878 | .0280865 | -.002563 | 52.13490 |
| #2 | .0718133 | -.004102 | 1.187797 | .0245900 | -.001031 | 52.29442 |
| #3 | .0685373 | -.002547 | 1.186195 | .0189120 | -.000283 | 51.75738 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7845671** | **.0035774** | **.0063187** | **131.9368** | **.1175119** | **.0656029** |
| Stddev | .0060687 | .0000614 | .0000580 | .6957 | .0003994 | .0005460 |
| %RSD | .7735037 | 1.715076 | .9179316 | .5273066 | .3398920 | .8322913 |
| #1 | .7858869 | .0036369 | .0063566 | 132.0549 | .1173460 | .0654327 |
| #2 | .7898672 | .0035144 | .0063476 | 132.5660 | .1179676 | .0662138 |
| #3 | .7779471 | .0035809 | .0062519 | 131.1897 | .1172222 | .0651624 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3227504** | **121.7956** | **6.382161** | **49.23428** | **.1812769** | **-.009878** |
| Stddev | .0016721 | .6162 | .036137 | .23800 | .0002828 | .000501 |
| %RSD | .5180756 | .5058907 | .5662138 | .4833976 | .1560204 | 5.072899 |
| #1 | .3213846 | 121.8969 | 6.385488 | 49.20274 | .1809647 | -.009438 |
| #2 | .3246152 | 122.3547 | 6.416519 | 49.48647 | .1813501 | -.009773 |
| #3 | .3222514 | 121.1350 | 6.344476 | 49.01362 | .1815160 | -.010423 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6249927** | **.1254022** | **1.300381** | **7.218596** | **9.446195** | **.5320292** |
| Stddev | .0608231 | .0019498 | .001504 | .046314 | .020099 | .0036989 |
| %RSD | 9.731812 | 1.554841 | .1156507 | .6415876 | .2127757 | .6952436 |
| #1 | .6584663 | .1231536 | 1.300393 | 7.208379 | 9.426057 | .5323568 |
| #2 | .6617265 | .1266245 | 1.301880 | 7.269164 | 9.446271 | .5355534 |
| #3 | .5547855 | .1264285 | 1.298872 | 7.178243 | 9.466256 | .5281773 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-08 Acquired: 1/12/2025 18:03:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN06 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0069896 | 4.294637 | F 20.47334 | .0515088 | .8405332 | .0669788 |
| Stddev | .0000844 | .012478 | .02261 | .0005273 | .0017355 | .0010888 |
| %RSD | 1.207704 | .2905390 | .1104221 | 1.023673 | .2064808 | 1.625528 |
| #1 | .0070859 | 4.302251 | 20.49037 | .0520691 | .8408885 | .0662145 |
| #2 | .0069545 | 4.301422 | 20.44769 | .0514351 | .8386476 | .0682254 |
| #3 | .0069284 | 4.280237 | 20.48197 | .0510223 | .8420637 | .0664964 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1598705 |
| Stddev | .0011062 |
| %RSD | .6919503 |
| #1 | .1604380 |
| #2 | .1605777 |
| #3 | .1585957 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2978.032 | 68674.06 | 9815.727 | 3245.680 | 3450.695 |
| Stddev | 2.024 | 168.26 | 49.156 | 7.453 | 4.432 |
| %RSD | .0679619 | .2450137 | .5007918 | .2296269 | .1284284 |
| #1 | 2976.345 | 68661.24 | 9832.002 | 3239.832 | 3452.378 |
| #2 | 2977.476 | 68512.57 | 9854.683 | 3243.138 | 3445.668 |
| #3 | 2980.276 | 68848.36 | 9760.498 | 3254.072 | 3454.038 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-09 Acquired: 1/12/2025 18:07:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN07 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0694850** | **-.002459** | **1.098245** | **.0203826** | **.0010391** | **48.33467** |
| Stddev | .0019850 | .001201 | .002665 | .0014017 | .0018335 | .09047 |
| %RSD | 2.856798 | 48.83826 | .2426854 | 6.877156 | 176.4475 | .1871727 |
| #1 | .0674662 | -.003414 | 1.095705 | .0213873 | .0017843 | 48.24548 |
| #2 | .0695542 | -.002853 | 1.098011 | .0209793 | .0023827 | 48.33216 |
| #3 | .0714345 | -.001111 | 1.101020 | .0187813 | -.001050 | 48.42637 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7462606** | **.0035123** | **.0068170** | **291.8077** | **.1193211** | **.0619532** |
| Stddev | .0020269 | .0000099 | .0001007 | 2.1417 | .0004412 | .0002273 |
| %RSD | .2716086 | .2828847 | 1.476961 | .7339454 | .3697620 | .3668983 |
| #1 | .7459297 | .0035055 | .0068196 | 293.8240 | .1190054 | .0617868 |
| #2 | .7484326 | .0035077 | .0067150 | 289.5594 | .1198252 | .0618606 |
| #3 | .7444196 | .0035237 | .0069163 | 292.0397 | .1191325 | .0622122 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2703325** | **119.9565** | **6.200752** | **52.53499** | **.1594262** | **-.009878** |
| Stddev | .0025347 | .1135 | .009886 | .07113 | .0006082 | .000703 |
| %RSD | .9376094 | .0946011 | .1594344 | .1354005 | .3815212 | 7.117217 |
| #1 | .2717559 | 119.8767 | 6.210191 | 52.59288 | .1587665 | -.010492 |
| #2 | .2674061 | 119.9063 | 6.201594 | 52.45559 | .1595476 | -.009111 |
| #3 | .2718356 | 120.0864 | 6.190472 | 52.55652 | .1599646 | -.010032 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7618645** | **.1206660** | **1.122566** | **5.552649** | **8.053032** | **.5192034** |
| Stddev | .0789050 | .0015836 | .005888 | .059214 | .030861 | .0001517 |
| %RSD | 10.35683 | 1.312360 | .5245432 | 1.066418 | .3832227 | .0292133 |
| #1 | .7516941 | .1224931 | 1.120153 | 5.574132 | 8.020560 | .5190324 |
| #2 | .8453615 | .1198155 | 1.129278 | 5.485691 | 8.081980 | .5193217 |
| #3 | .6885378 | .1196894 | 1.118268 | 5.598122 | 8.056556 | .5192562 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-09 Acquired: 1/12/2025 18:07:48 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN07 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0058682 | 3.437372 | F 19.52605 | .0512406 | .7409155 | .0684443 |
| Stddev | .0000296 | .020438 | .11083 | .0007641 | .0018045 | .0004797 |
| %RSD | .5036336 | .5945681 | .5675910 | 1.491239 | .2435493 | .7008359 |
| #1 | .0059007 | 3.413783 | 19.65319 | .0518588 | .7428093 | .0679736 |
| #2 | .0058429 | 3.449784 | 19.47508 | .0514768 | .7407212 | .0689325 |
| #3 | .0058611 | 3.448548 | 19.44987 | .0503863 | .7392160 | .0684267 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2183707 |
| Stddev | .0002970 |
| %RSD | .1359890 |
| #1 | .2181425 |
| #2 | .2182632 |
| #3 | .2187065 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2924.345 | 66883.27 | 9666.132 | 3176.778 | 3318.294 |
| Stddev | 4.659 | 112.65 | 42.938 | 10.969 | 10.700 |
| %RSD | .1593307 | .1684287 | .4442136 | .3452999 | .3224442 |
| #1 | 2929.398 | 66852.25 | 9623.453 | 3185.172 | 3330.587 |
| #2 | 2920.218 | 67008.19 | 9709.325 | 3164.366 | 3311.078 |
| #3 | 2923.419 | 66789.39 | 9665.617 | 3180.795 | 3313.216 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-09 Acquired: 1/12/2025 18:11:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0884088** | **-.007166** | **.5764883** | **.0319526** | **-.001835** | **49.84522** |
| Stddev | .0029690 | .001580 | .0009881 | .0008810 | .001956 | .05097 |
| %RSD | 3.358289 | 22.04313 | .1713977 | 2.757142 | 106.6073 | .1022580 |
| #1 | .0850813 | -.008847 | .5758670 | .0323406 | -.003164 | 49.80994 |
| #2 | .0907873 | -.006939 | .5776277 | .0325731 | -.002753 | 49.82207 |
| #3 | .0893579 | -.005713 | .5759703 | .0309443 | .000411 | 49.90366 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.318380** | **.0046272** | **.0065775** | **114.5497** | **.1595664** | **.0838076** |
| Stddev | .002186 | .0000962 | .0000278 | .0804 | .0001632 | .0009197 |
| %RSD | .1657974 | 2.078917 | .4226882 | .0701519 | .1022713 | 1.097378 |
| #1 | 1.316809 | .0045315 | .0065975 | 114.5039 | .1594369 | .0842272 |
| #2 | 1.317454 | .0047238 | .0065892 | 114.5028 | .1597497 | .0844426 |
| #3 | 1.320876 | .0046263 | .0065457 | 114.6425 | .1595127 | .0827529 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2886967** | **155.3767** | **10.94896** | **26.69138** | **.1371356** | **-.011766** |
| Stddev | .0015868 | .0861 | .01231 | .07670 | .0007064 | .000451 |
| %RSD | .5496614 | .0553883 | .1124609 | .2873674 | .5150966 | 3.835850 |
| #1 | .2868961 | 155.2860 | 10.93673 | 26.66332 | .1365777 | -.011758 |
| #2 | .2893029 | 155.3871 | 10.94880 | 26.63265 | .1379298 | -.012221 |
| #3 | .2898910 | 155.4571 | 10.96135 | 26.77816 | .1368992 | -.011318 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9612576** | **.1399275** | **.8545324** | **5.281480** | F **10.30569** | **.6572165** |
| Stddev | .0870572 | .0018108 | .0012755 | .025692 | .00904 | .0007798 |
| %RSD | 9.056595 | 1.294067 | .1492568 | .4864564 | .0877657 | .1186452 |
| #1 | 1.020173 | .1393161 | .8543829 | 5.260732 | 10.30262 | .6572734 |
| #2 | .861261 | .1419648 | .8558760 | 5.273490 | 10.31587 | .6564098 |
| #3 | 1.002338 | .1385016 | .8533383 | 5.310218 | 10.29858 | .6579662 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-09 Acquired: 1/12/2025 18:11:52 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0074117 | 1.829299 | F 22.98761 | .0257084 | .6868309 | .0695393 |
| Stddev | .0004176 | .005318 | .04164 | .0006092 | .0014321 | .0005811 |
| %RSD | 5.633713 | .2907336 | .1811497 | 2.369472 | .2085044 | .8356728 |
| #1 | .0075321 | 1.823784 | 23.03567 | .0263599 | .6864775 | .0689074 |
| #2 | .0069472 | 1.834396 | 22.96219 | .0256122 | .6884065 | .0696599 |
| #3 | .0077559 | 1.829716 | 22.96497 | .0251530 | .6856085 | .0700507 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2124681 |
| Stddev | .0003759 |
| %RSD | .1768992 |
| #1 | .2121414 |
| #2 | .2123839 |
| #3 | .2128789 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3167.133 | 73063.40 | 10474.53 | 3490.116 | 3446.607 |
| Stddev | 2.289 | 76.76 | 36.10 | 7.543 | 3.554 |
| %RSD | .0722670 | .1050547 | .3446571 | .2161282 | .1031191 |
| #1 | 3169.415 | 73081.30 | 10451.45 | 3484.287 | 3450.252 |
| #2 | 3167.145 | 72979.28 | 10456.00 | 3487.425 | 3446.416 |
| #3 | 3164.838 | 73129.63 | 10516.13 | 3498.635 | 3443.151 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-10 Acquired: 1/12/2025 18:15:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0527926** | **-.003680** | **.5001555** | **.0234830** | **-.002777** | **48.07375** |
| Stddev | .0020342 | .001385 | .0022475 | .0016938 | .001669 | .38871 |
| %RSD | 3.853169 | 37.62976 | .4493634 | 7.212710 | 60.08283 | .8085636 |
| #1 | .0509341 | -.005041 | .5015424 | .0227983 | -.004689 | 48.51266 |
| #2 | .0549658 | -.003726 | .5013618 | .0254120 | -.001612 | 47.93560 |
| #3 | .0524779 | -.002273 | .4975624 | .0222388 | -.002031 | 47.77298 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.012706** | **.0033206** | **.0049544** | **128.3054** | **.1425305** | **.0708132** |
| Stddev | .012056 | .0000177 | .0001599 | 1.2629 | .0015915 | .0003632 |
| %RSD | 1.190480 | .5335908 | 3.227106 | .9842829 | 1.116581 | .5129333 |
| #1 | 1.026226 | .0033218 | .0047934 | 129.7631 | .1443648 | .0705724 |
| #2 | 1.008817 | .0033376 | .0051132 | 127.6119 | .1415169 | .0712310 |
| #3 | 1.003074 | .0033023 | .0049566 | 127.5413 | .1417099 | .0706362 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2762052** | **124.1560** | **7.896803** | **37.39149** | **.1372491** | **-.009521** |
| Stddev | .0007837 | 1.0662 | .108385 | .42102 | .0006725 | .000414 |
| %RSD | .2837449 | .8587945 | 1.372515 | 1.125966 | .4899718 | 4.347435 |
| #1 | .2768963 | 125.3731 | 8.021883 | 37.87680 | .1380255 | -.009772 |
| #2 | .2763658 | 123.7088 | 7.830590 | 37.17346 | .1368691 | -.009747 |
| #3 | .2753537 | 123.3862 | 7.837936 | 37.12420 | .1368526 | -.009043 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7847180** | **.1172500** | **.7602419** | **5.243433** | **7.524353** | **.5282293** |
| Stddev | .2715733 | .0006644 | .0103481 | .061037 | .006868 | .0050324 |
| %RSD | 34.60776 | .5666611 | 1.361158 | 1.164066 | .0912745 | .9526928 |
| #1 | .6685818 | .1178370 | .7721307 | 5.311148 | 7.531716 | .5340376 |
| #2 | 1.095049 | .1173843 | .7553349 | 5.192648 | 7.523220 | .5254760 |
| #3 | .590524 | .1165287 | .7532602 | 5.226504 | 7.518122 | .5251743 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-10 Acquired: 1/12/2025 18:15:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038664 | 3.206435 | F 22.34694 | .0228557 | .7499138 | .0725889 |
| Stddev | .0000554 | .003495 | .12353 | .0006895 | .0029796 | .0016808 |
| %RSD | 1.432649 | .1089892 | .5527776 | 3.016949 | .3973274 | 2.315554 |
| #1 | .0039271 | 3.210084 | 22.47527 | .0229532 | .7527615 | .0745042 |
| #2 | .0038538 | 3.203118 | 22.22885 | .0234913 | .7501623 | .0719036 |
| #3 | .0038185 | 3.206103 | 22.33669 | .0221226 | .7468178 | .0713591 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1683176 |
| Stddev | .0011121 |
| %RSD | .6607323 |
| #1 | .1695516 |
| #2 | .1680083 |
| #3 | .1673928 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3089.933 | 71050.16 | 10119.55 | 3388.118 | 3430.409 |
| Stddev | 3.409 | 718.95 | 33.50 | 45.583 | 7.684 |
| %RSD | .1103371 | 1.011890 | .3310667 | 1.345378 | .2240008 |
| #1 | 3087.064 | 70234.14 | 10094.26 | 3335.539 | 3422.414 |
| #2 | 3089.035 | 71590.36 | 10157.54 | 3412.312 | 3431.073 |
| #3 | 3093.702 | 71325.98 | 10106.83 | 3416.503 | 3437.739 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-11 Acquired: 1/12/2025 18:19:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0492069** | **-.001072** | **.2074428** | **.0180696** | **-.001124** | **38.26132** |
| Stddev | .0016942 | .000942 | .0011423 | .0038327 | .000523 | .17463 |
| %RSD | 3.443074 | 87.86442 | .5506477 | 21.21092 | 46.57248 | .4564131 |
| #1 | .0474179 | -.001813 | .2081830 | .0215300 | -.000706 | 38.06219 |
| #2 | .0507870 | -.001393 | .2061273 | .0187288 | -.000955 | 38.38837 |
| #3 | .0494159 | -.000012 | .2080182 | .0139500 | -.001711 | 38.33341 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5457485** | **.0023613** | **.0046324** | **252.1821** | **.1163555** | **.0813072** |
| Stddev | .0020751 | .0000314 | .0000519 | .9967 | .0004161 | .0001604 |
| %RSD | .3802324 | 1.330533 | 1.121184 | .3952415 | .3575767 | .1973225 |
| #1 | .5436652 | .0023267 | .0046532 | 251.1570 | .1160484 | .0812931 |
| #2 | .5478153 | .0023882 | .0046707 | 253.1478 | .1161891 | .0814742 |
| #3 | .5457651 | .0023688 | .0045732 | 252.2414 | .1168290 | .0811542 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2159509** | **101.1513** | **2.929911** | **62.95808** | **.1293270** | **-.009633** |
| Stddev | .0019473 | .4594 | .015275 | .36318 | .0005150 | .000202 |
| %RSD | .9017095 | .4541312 | .5213329 | .5768526 | .3982088 | 2.097798 |
| #1 | .2145065 | 100.6274 | 2.916465 | 62.60113 | .1292498 | -.009861 |
| #2 | .2181654 | 101.4851 | 2.946519 | 63.32717 | .1298762 | -.009560 |
| #3 | .2151808 | 101.3414 | 2.926750 | 62.94594 | .1288549 | -.009477 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.168532** | **.1046212** | **.5156945** | **4.454106** | **7.188230** | **.4344438** |
| Stddev | .223789 | .0012694 | .0017105 | .106114 | .015736 | .0028001 |
| %RSD | 19.15130 | 1.213307 | .3316854 | 2.382383 | .2189084 | .6445283 |
| #1 | 1.372963 | .1040280 | .5170541 | 4.355905 | 7.170622 | .4312673 |
| #2 | 1.203201 | .1060786 | .5162554 | 4.566670 | 7.193150 | .4365544 |
| #3 | .929431 | .1037571 | .5137740 | 4.439743 | 7.200918 | .4355097 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-11 Acquired: 1/12/2025 18:19:44 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0029617 | 8.271228 | F 18.98440 | .0079566 | .9135112 | .0664228 |
| Stddev | .0002805 | .026755 | .07233 | .0000967 | .0020311 | .0008636 |
| %RSD | 9.470421 | .3234726 | .3809727 | 1.215918 | .2223418 | 1.300160 |
| #1 | .0031461 | 8.250509 | 19.00683 | .0079321 | .9135051 | .0674002 |
| #2 | .0026389 | 8.261741 | 19.04285 | .0078745 | .9155454 | .0657630 |
| #3 | .0031002 | 8.301433 | 18.90351 | .0080633 | .9114832 | .0661052 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2817204 |
| Stddev | .0013186 |
| %RSD | .4680437 |
| #1 | .2801994 |
| #2 | .2824206 |
| #3 | .2825412 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3025.158 | 70263.06 | 10145.56 | 3335.067 | 3282.812 |
| Stddev | 2.503 | 229.53 | 40.86 | 10.048 | 5.677 |
| %RSD | .0827488 | .3266761 | .4027033 | .3012850 | .1729272 |
| #1 | 3024.174 | 70473.50 | 10109.59 | 3336.207 | 3281.809 |
| #2 | 3023.297 | 70018.30 | 10137.10 | 3324.497 | 3277.703 |
| #3 | 3028.004 | 70297.37 | 10189.98 | 3344.496 | 3288.923 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-12 Acquired: 1/12/2025 18:23:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0678945 | -.001709 | 2.281392 | .0256581 | .0041669 | 51.08142 |
| Stddev | .0005009 | .001442 | .003534 | .0035543 | .0037353 | .45398 |
| %RSD | .7377031 | 84.40708 | .1548950 | 13.85245 | 89.64221 | .8887371 |
| #1 | .0674598 | -.002478 | 2.279376 | .0292111 | .0051494 | 51.00687 |
| #2 | .0684422 | -.002604 | 2.279328 | .0256606 | .0000385 | 51.56806 |
| #3 | .0677815 | -.000045 | 2.285472 | .0221025 | .0073127 | 50.66933 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.359168 | .0028011 | .0167252 | 98.65929 | .1435543 | .0472831 |
| Stddev | .008241 | .0000399 | .0000171 | .68126 | .0001222 | .0003685 |
| %RSD | .6063229 | 1.424656 | .1023296 | .6905136 | .0850937 | .7794011 |
| #1 | 1.357987 | .0027551 | .0167202 | 98.49186 | .1434499 | .0472632 |
| #2 | 1.367935 | .0028251 | .0167112 | 99.40865 | .1435243 | .0469250 |
| #3 | 1.351580 | .0028233 | .0167443 | 98.07736 | .1436886 | .0476612 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3055388 | 114.9929 | 3.413288 | 36.51995 | .1458936 | -.008533 |
| Stddev | .0032097 | 1.0170 | .018424 | .28887 | .0004362 | .000179 |
| %RSD | 1.050511 | .8844153 | .5397742 | .7910021 | .2989897 | 2.095485 |
| #1 | .3018330 | 114.6222 | 3.408450 | 36.44963 | .1461762 | -.008580 |
| #2 | .3074429 | 116.1433 | 3.433649 | 36.83749 | .1453913 | -.008335 |
| #3 | .3073406 | 114.2133 | 3.397766 | 36.27272 | .1461134 | -.008684 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8950600 | .1254699 | 4.363510 | 5.637087 | F 10.97344 | .4993871 |
| Stddev | .1049152 | .0024182 | .010406 | .060121 | .02625 | .0053737 |
| %RSD | 11.72158 | 1.927274 | .2384703 | 1.066524 | .2392100 | 1.076062 |
| #1 | .9484801 | .1262919 | 4.369615 | 5.637117 | 10.99209 | .4985662 |
| #2 | .7741856 | .1227479 | 4.369420 | 5.697192 | 10.94342 | .5051240 |
| #3 | .9625142 | .1273699 | 4.351495 | 5.576951 | 10.98481 | .4944711 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-12 Acquired: 1/12/2025 18:23:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0067289 | 5.919628 | F 22.40167 | .0740085 | .8537629 | .0549598 |
| Stddev | .0002409 | .007344 | .11222 | .0006977 | .0042323 | .0003670 |
| %RSD | 3.579789 | .1240683 | .5009495 | .9426874 | .4957280 | .6676611 |
| #1 | .0070031 | 5.926844 | 22.35349 | .0744182 | .8514442 | .0546520 |
| #2 | .0065517 | 5.912162 | 22.32159 | .0744042 | .8511966 | .0548615 |
| #3 | .0066317 | 5.919878 | 22.52994 | .0732029 | .8586479 | .0553659 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2292099 |
| Stddev | .0023823 |
| %RSD | 1.039337 |
| #1 | .2287025 |
| #2 | .2318050 |
| #3 | .2271223 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2837.455 | 66914.75 | 9459.234 | 3155.898 | 3455.854 |
| Stddev | 6.914 | 224.90 | 53.679 | 22.113 | 3.701 |
| %RSD | .2436565 | .3361008 | .5674721 | .7006816 | .1071081 |
| #1 | 2845.333 | 66946.20 | 9477.527 | 3146.022 | 3456.742 |
| #2 | 2832.398 | 66675.77 | 9501.375 | 3140.444 | 3459.031 |
| #3 | 2834.634 | 67122.26 | 9398.800 | 3181.228 | 3451.789 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-13 Acquired: 1/12/2025 18:27:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0912771 | -.003919 | 2.521246 | .0428216 | .0035945 | 69.14456 |
| Stddev | .0012331 | .000673 | .003109 | .0018135 | .0006009 | .33248 |
| %RSD | 1.350886 | 17.17941 | .1233286 | 4.234900 | 16.71724 | .4808543 |
| #1 | .0900934 | -.004010 | 2.524690 | .0411181 | .0041728 | 68.82108 |
| #2 | .0911837 | -.003205 | 2.520404 | .0426189 | .0036372 | 69.48537 |
| #3 | .0925542 | -.004542 | 2.518645 | .0447279 | .0029733 | 69.12722 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.905717 | .0036729 | .0157130 | 125.7372 | .1773966 | .0671495 |
| Stddev | .008931 | .0000972 | .0001468 | .6122 | .0002260 | .0003839 |
| %RSD | .4686241 | 2.646547 | .9340141 | .4869200 | .1274133 | .5717519 |
| #1 | 1.902530 | .0037790 | .0158776 | 125.3569 | .1775047 | .0675892 |
| #2 | 1.915803 | .0035880 | .0155958 | 126.4435 | .1775483 | .0668806 |
| #3 | 1.898816 | .0036519 | .0156656 | 125.4113 | .1771368 | .0669787 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3562009 | 195.6268 | 5.875616 | 46.06000 | .1755086 | -.014812 |
| Stddev | .0014911 | .9749 | .028720 | .18122 | .0007908 | .000346 |
| %RSD | .4185979 | .4983517 | .4888012 | .3934354 | .4505746 | 2.337717 |
| #1 | .3563728 | 194.8727 | 5.866786 | 45.99632 | .1764134 | -.014671 |
| #2 | .3546313 | 196.7277 | 5.907715 | 46.26445 | .1749497 | -.014559 |
| #3 | .3575985 | 195.2801 | 5.852349 | 45.91921 | .1751625 | -.015207 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.027754 | .1968098 | 3.655185 | 4.389995 | F 11.14692 | .8292287 |
| Stddev | .058109 | .0013380 | .004207 | .033200 | .00205 | .0057789 |
| %RSD | 5.653973 | .6798346 | .1150999 | .7562624 | .0183912 | .6969066 |
| #1 | 1.085583 | .1955119 | 3.656994 | 4.351912 | 11.14767 | .8254505 |
| #2 | .969369 | .1967330 | 3.658186 | 4.405230 | 11.14460 | .8358812 |
| #3 | 1.028309 | .1981845 | 3.650377 | 4.412844 | 11.14848 | .8263543 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-13 Acquired: 1/12/2025 18:27:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0091425 | 5.621665 | F 24.25625 | .0857789 | .9632954 | .0702309 |
| Stddev | .0003231 | .017171 | .04997 | .0015064 | .0015430 | .0007706 |
| %RSD | 3.534082 | .3054427 | .2060261 | 1.756161 | .1601839 | 1.097232 |
| #1 | .0090303 | 5.606672 | 24.31369 | .0845881 | .9625755 | .0694729 |
| #2 | .0088904 | 5.640397 | 24.23227 | .0874724 | .9650668 | .0710135 |
| #3 | .0095068 | 5.617925 | 24.22278 | .0852762 | .9622438 | .0702063 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2710072 |
| Stddev | .0013450 |
| %RSD | .4963035 |
| #1 | .2695766 |
| #2 | .2722460 |
| #3 | .2711991 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2900.618 | 67003.70 | 9780.164 | 3179.347 | 3463.483 |
| Stddev | 3.198 | 223.55 | 24.405 | 11.024 | 1.450 |
| %RSD | .1102471 | .3336435 | .2495405 | .3467495 | .0418692 |
| #1 | 2899.917 | 67115.94 | 9753.820 | 3189.194 | 3465.138 |
| #2 | 2904.108 | 66746.27 | 9802.004 | 3167.437 | 3462.874 |
| #3 | 2897.829 | 67148.90 | 9784.667 | 3181.410 | 3462.436 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-14 Acquired: 1/12/2025 18:31:33 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1274117** | **-.004227** | **3.946671** | **.0789578** | **.0055325** | **52.94733** |
| Stddev | .0030400 | .002362 | .014994 | .0016111 | .0012990 | .18334 |
| %RSD | 2.385929 | 55.88364 | .3799274 | 2.040514 | 23.48017 | .3462637 |
| #1 | .1261075 | -.003056 | 3.941151 | .0773934 | .0057742 | 53.13143 |
| #2 | .1308861 | -.002679 | 3.963643 | .0806119 | .0041295 | 52.94580 |
| #3 | .1252414 | -.006946 | 3.935219 | .0788681 | .0066936 | 52.76476 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.913811** | **.0025029** | **.0320383** | **146.5364** | **.2160939** | **.0694082** |
| Stddev | .005128 | .0000293 | .0000986 | .3595 | .0009235 | .0004480 |
| %RSD | .1759726 | 1.170720 | .3078882 | .2452977 | .4273435 | .6454458 |
| #1 | 2.918410 | .0025285 | .0320862 | 146.9514 | .2171546 | .0688913 |
| #2 | 2.908282 | .0024710 | .0321038 | 146.3329 | .2156582 | .0696831 |
| #3 | 2.914740 | .0025093 | .0319248 | 146.3248 | .2154688 | .0696502 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5252175** | **404.1007** | **5.355818** | **53.13428** | **.2189077** | **-.037114** |
| Stddev | .0027155 | .3632 | .008478 | .13168 | .0011555 | .000221 |
| %RSD | .5170280 | .0898674 | .1582984 | .2478335 | .5278373 | .5964480 |
| #1 | .5279306 | 403.7025 | 5.360590 | 53.28491 | .2180248 | -.037343 |
| #2 | .5224996 | 404.4137 | 5.346029 | 53.07696 | .2202155 | -.036901 |
| #3 | .5252224 | 404.1859 | 5.360834 | 53.04096 | .2184828 | -.037098 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.376043** | **.1373333** | **5.861122** | **3.680855** | F **11.77572** | **1.663783** |
| Stddev | .183627 | .0020056 | .005730 | .020479 | .04853 | .001862 |
| %RSD | 13.34454 | 1.460415 | .0977564 | .5563539 | .4120777 | .1119370 |
| #1 | 1.269508 | .1360911 | 5.859104 | 3.685665 | 11.72219 | 1.665267 |
| #2 | 1.270545 | .1396472 | 5.856674 | 3.658400 | 11.81681 | 1.664388 |
| #3 | 1.588076 | .1362617 | 5.867588 | 3.698500 | 11.78817 | 1.661693 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-14 Acquired: 1/12/2025 18:31:33 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0115396 | 5.885429 | F 23.90905 | .1336183 | .8523177 | .0699764 |
| Stddev | .0001549 | .018558 | .06219 | .0015022 | .0022374 | .0015507 |
| %RSD | 1.342369 | .3153294 | .2601087 | 1.124220 | .2625083 | 2.216049 |
| #1 | .0116244 | 5.866906 | 23.86575 | .1339387 | .8498075 | .0697232 |
| #2 | .0113608 | 5.904023 | 23.88108 | .1349344 | .8530433 | .0716381 |
| #3 | .0116336 | 5.885358 | 23.98031 | .1319817 | .8541022 | .0685678 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3293284 |
| Stddev | .0020543 |
| %RSD | .6237777 |
| #1 | .3314715 |
| #2 | .3291376 |
| #3 | .3273762 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2772.712 | 66389.36 | 9496.507 | 3114.105 | 3350.421 |
| Stddev | 6.996 | 92.45 | 38.386 | 5.437 | 15.522 |
| %RSD | .2523035 | .1392558 | .4042079 | .1745964 | .4632881 |
| #1 | 2778.832 | 66356.54 | 9528.305 | 3120.293 | 3363.451 |
| #2 | 2765.086 | 66493.74 | 9507.350 | 3111.933 | 3333.248 |
| #3 | 2774.219 | 66317.80 | 9453.866 | 3110.090 | 3354.564 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-15 Acquired: 1/12/2025 18:35:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1405266 | -.002399 | 5.732639 | .0340091 | .0160638 | 50.03617 |
| Stddev | .0012845 | .000913 | .045654 | .0020790 | .0004311 | .25885 |
| %RSD | .9140782 | 38.05419 | .7963800 | 6.113114 | 2.683806 | .5173280 |
| #1 | .1396925 | -.001662 | 5.691593 | .0356316 | .0155697 | 49.84279 |
| #2 | .1420058 | -.002114 | 5.781809 | .0347301 | .0163636 | 49.93548 |
| #3 | .1398814 | -.003420 | 5.724513 | .0316655 | .0162580 | 50.33024 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.962813 | .0050093 | .0221113 | 89.94323 | .2018504 | .0760856 |
| Stddev | .004786 | .0001718 | .0000990 | .12133 | .0006737 | .0007060 |
| %RSD | .1615384 | 3.430210 | .4478986 | .1348961 | .3337619 | .9279657 |
| #1 | 2.967248 | .0050689 | .0221133 | 89.86668 | .2013828 | .0754115 |
| #2 | 2.957740 | .0048156 | .0222093 | 89.87989 | .2026226 | .0768198 |
| #3 | 2.963452 | .0051434 | .0220113 | 90.08312 | .2015458 | .0760256 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7199393 | 166.9214 | 6.248574 | 22.34576 | .1885668 | -.011613 |
| Stddev | .0105117 | .7457 | .015616 | .05448 | .0015438 | .000365 |
| %RSD | 1.460074 | .4467247 | .2499145 | .2438081 | .8186958 | 3.145026 |
| #1 | .7231863 | 166.3164 | 6.263029 | 22.32063 | .1877417 | -.012034 |
| #2 | .7081873 | 166.6933 | 6.232011 | 22.30839 | .1903478 | -.011380 |
| #3 | .7284444 | 167.7545 | 6.250681 | 22.40827 | .1876109 | -.011424 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.706566 | .1539622 | 5.364926 | 4.379391 | F 14.49209 | .7138153 |
| Stddev | .079284 | .0009097 | .018928 | .033272 | .11580 | .0023824 |
| %RSD | 4.645850 | .5908618 | .3528177 | .7597456 | .7990660 | .3337519 |
| #1 | 1.757563 | .1540335 | 5.350734 | 4.342617 | 14.39324 | .7115207 |
| #2 | 1.746912 | .1530189 | 5.357626 | 4.388148 | 14.61950 | .7136487 |
| #3 | 1.615223 | .1548342 | 5.386417 | 4.407410 | 14.46353 | .7162767 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-15 Acquired: 1/12/2025 18:35:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0105364 | 3.590218 | F 21.86253 | .3037476 | .8670286 | .0761192 |
| Stddev | .0002534 | .032916 | .34499 | .0021288 | .0152674 | .0002869 |
| %RSD | 2.404962 | .9168358 | 1.578010 | .7008382 | 1.760893 | .3768804 |
| #1 | .0104251 | 3.556433 | 22.14073 | .3031972 | .8787278 | .0760888 |
| #2 | .0103578 | 3.622191 | 21.47650 | .3060975 | .8497579 | .0764200 |
| #3 | .0108264 | 3.592031 | 21.97035 | .3019480 | .8726001 | .0758487 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4236457 |
| Stddev | .0030662 |
| %RSD | .7237623 |
| #1 | .4208467 |
| #2 | .4231675 |
| #3 | .4269229 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2982.215 | 70559.05 | 9944.082 | 3338.964 | 3402.548 |
| Stddev | 14.768 | 41.89 | 132.702 | 10.621 | 23.014 |
| %RSD | .4951988 | .0593678 | 1.334483 | .3180994 | .6763704 |
| #1 | 2992.149 | 70581.53 | 9832.433 | 3345.817 | 3418.632 |
| #2 | 2965.245 | 70510.72 | 10090.80 | 3344.346 | 3376.186 |
| #3 | 2989.251 | 70584.89 | 9909.02 | 3326.729 | 3412.826 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-16 Acquired: 1/12/2025 18:39:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0434585** | **-.007954** | **.3215607** | **.0145628** | **-.001497** | **52.25783** |
| Stddev | .0015657 | .001353 | .0024564 | .0020578 | .001230 | .25259 |
| %RSD | 3.602645 | 17.00540 | .7638885 | 14.13049 | 82.17122 | .4833468 |
| #1 | .0416569 | -.008678 | .3206592 | .0127442 | -.001930 | 51.97343 |
| #2 | .0444898 | -.008790 | .3196824 | .0141477 | -.000109 | 52.45603 |
| #3 | .0442288 | -.006393 | .3243404 | .0167965 | -.002454 | 52.34404 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6832576** | **.0040050** | **.0055433** | **638.7595** | **.1093102** | **.0840050** |
| Stddev | .0027335 | .0000730 | .0000797 | 1.9993 | .0001960 | .0001972 |
| %RSD | .4000691 | 1.823656 | 1.438245 | .3129994 | .1792770 | .2347102 |
| #1 | .6801758 | .0040029 | .0056113 | 636.6941 | .1092465 | .0841601 |
| #2 | .6853892 | .0040790 | .0054556 | 640.6854 | .1091540 | .0840717 |
| #3 | .6842079 | .0039330 | .0055629 | 638.8992 | .1095301 | .0837831 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2243527** | **127.0906** | **13.13629** | **128.4466** | **.1513694** | **-.012056** |
| Stddev | .0012055 | .4910 | .02787 | .5252 | .0001742 | .000351 |
| %RSD | .5373295 | .3863183 | .2121615 | .4089113 | .1150539 | 2.913508 |
| #1 | .2230325 | 126.5558 | 13.10608 | 127.8537 | .1511706 | -.012248 |
| #2 | .2246308 | 127.5209 | 13.16100 | 128.8538 | .1514949 | -.012269 |
| #3 | .2253949 | 127.1950 | 13.14178 | 128.6322 | .1514427 | -.011650 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.385982** | **.1391096** | **.5363407** | **8.245992** | **6.727538** | **.5469213** |
| Stddev | .232658 | .0006013 | .0012804 | .025129 | .011030 | .0035391 |
| %RSD | 16.78648 | .4322497 | .2387329 | .3047454 | .1639585 | .6470946 |
| #1 | 1.524167 | .1387374 | .5362458 | 8.229972 | 6.732043 | .5432050 |
| #2 | 1.516410 | .1387879 | .5376659 | 8.274954 | 6.714969 | .5502516 |
| #3 | 1.117370 | .1398033 | .5351104 | 8.233048 | 6.735603 | .5473073 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-16 Acquired: 1/12/2025 18:39:29 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038797 | 1.021884 | F 21.18550 | .0034139 | 1.187678 | .0998456 |
| Stddev | .0003613 | .004510 | .09407 | .0015620 | .002833 | .0003483 |
| %RSD | 9.313614 | .4413385 | .4440231 | 45.75410 | .2385345 | .3488414 |
| #1 | .0037492 | 1.025377 | 21.23327 | .0016217 | 1.190630 | .0999508 |
| #2 | .0036018 | 1.023483 | 21.07713 | .0041348 | 1.184981 | .0994568 |
| #3 | .0042882 | 1.016792 | 21.24610 | .0044853 | 1.187425 | .1001292 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5403456 |
| Stddev | .0027456 |
| %RSD | .5081149 |
| #1 | .5373384 |
| #2 | .5427184 |
| #3 | .5409800 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2813.416 | 67109.04 | 9669.613 | 3165.168 | 2980.819 |
| Stddev | 4.052 | 131.98 | 33.814 | 9.746 | 1.840 |
| %RSD | .1440082 | .1966713 | .3496934 | .3079276 | .0617276 |
| #1 | 2809.392 | 67235.12 | 9636.395 | 3174.610 | 2979.823 |
| #2 | 2813.360 | 66971.85 | 9703.993 | 3155.143 | 2982.943 |
| #3 | 2817.495 | 67120.16 | 9668.449 | 3165.753 | 2979.692 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-20 Acquired: 1/12/2025 18:43:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0603406** | **-.010093** | **.1365869** | **.0196678** | **-.000202** | **48.70553** |
| Stddev | .0015583 | .002757 | .0015263 | .0016639 | .000313 | .39836 |
| %RSD | 2.582511 | 27.31438 | 1.117480 | 8.460038 | 155.0352 | .8178955 |
| #1 | .0600883 | -.011501 | .1377590 | .0215021 | -.000155 | 49.16524 |
| #2 | .0589239 | -.011861 | .1371407 | .0192458 | -.000535 | 48.48934 |
| #3 | .0620097 | -.006916 | .1348610 | .0182555 | .000085 | 48.46200 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8500614** | **.0040179** | **.0062474** | **711.3941** | **.1141970** | **.0753171** |
| Stddev | .0070254 | .0000688 | .0001014 | 4.8855 | .0003999 | .0004777 |
| %RSD | .8264622 | 1.711182 | 1.622466 | .6867554 | .3501647 | .6342604 |
| #1 | .8577394 | .0040002 | .0061328 | 713.8496 | .1143265 | .0757482 |
| #2 | .8484902 | .0039598 | .0063251 | 714.5648 | .1145160 | .0753996 |
| #3 | .8439545 | .0040938 | .0062844 | 705.7679 | .1137484 | .0748035 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2255044** | **149.9984** | **15.17645** | **109.2207** | **.1446571** | **-.012944** |
| Stddev | .0032517 | 1.0715 | .11282 | .6172 | .0004438 | .000411 |
| %RSD | 1.441976 | .7143706 | .7434127 | .5650748 | .3068073 | 3.174655 |
| #1 | .2279897 | 151.2351 | 15.29424 | 109.9245 | .1444195 | -.012495 |
| #2 | .2218243 | 149.4123 | 15.16576 | 108.9657 | .1443826 | -.013300 |
| #3 | .2266991 | 149.3477 | 15.06936 | 108.7719 | .1451691 | -.013038 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.244465** | **.1255703** | **.5593411** | **8.429532** | **5.175384** | **.6504073** |
| Stddev | .297881 | .0015497 | .0014435 | .132333 | .024752 | .0060401 |
| %RSD | 23.93650 | 1.234114 | .2580747 | 1.569876 | .4782619 | .9286641 |
| #1 | 1.118343 | .1248368 | .5605891 | 8.554888 | 5.203720 | .6572722 |
| #2 | 1.030391 | .1273506 | .5577602 | 8.291181 | 5.157980 | .6480417 |
| #3 | 1.584659 | .1245237 | .5596738 | 8.442527 | 5.164451 | .6459081 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-20 Acquired: 1/12/2025 18:43:36 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0043531 | 1.128751 | F 22.15965 | .0016970 | .6419750 | .0920098 |
| Stddev | .0001438 | .006788 | .07926 | .0020010 | .0020113 | .0013482 |
| %RSD | 3.303330 | .6014024 | .3576917 | 117.9167 | .3133050 | 1.465307 |
| #1 | .0043056 | 1.134187 | 22.08703 | .0022984 | .6410962 | .0934515 |
| #2 | .0045147 | 1.121142 | 22.24420 | .0033283 | .6442762 | .0907801 |
| #3 | .0042391 | 1.130926 | 22.14772 | -.000536 | .6405527 | .0917979 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .6708219 |
| Stddev | .0063029 |
| %RSD | .9395819 |
| #1 | .6780786 |
| #2 | .6667126 |
| #3 | .6676743 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2767.956 | 65312.27 | 9642.380 | 3108.812 | 2957.439 |
| Stddev | 4.097 | 237.48 | 60.641 | 6.268 | 7.347 |
| %RSD | .1480101 | .3636102 | .6288960 | .2016326 | .2484085 |
| #1 | 2764.533 | 65055.70 | 9707.560 | 3103.767 | 2949.195 |
| #2 | 2772.495 | 65356.73 | 9587.632 | 3115.829 | 2963.291 |
| #3 | 2766.840 | 65524.38 | 9631.949 | 3106.838 | 2959.833 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-21 Acquired: 1/12/2025 18:47:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1322473** | **-.009169** | **.4379246** | **.0423784** | **-.004271** | **71.25182** |
| Stddev | .0018911 | .001583 | .0013744 | .0034492 | .002208 | .47248 |
| %RSD | 1.429993 | 17.26426 | .3138426 | 8.139057 | 51.70910 | .6631150 |
| #1 | .1305715 | -.008620 | .4363959 | .0435089 | -.004418 | 71.79541 |
| #2 | .1342977 | -.010954 | .4390583 | .0451206 | -.006401 | 70.93979 |
| #3 | .1318728 | -.007934 | .4383194 | .0385059 | -.001992 | 71.02025 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.581754** | **.0058228** | **.0128762** | **42.15600** | **.1314760** | **.1395033** |
| Stddev | .016427 | .0000070 | .0000927 | .35445 | .0002143 | .0008651 |
| %RSD | 1.038499 | .1207795 | .7201737 | .8408042 | .1630211 | .6201238 |
| #1 | 1.600546 | .0058259 | .0127723 | 42.56381 | .1312582 | .1399690 |
| #2 | 1.574594 | .0058278 | .0129506 | 41.92208 | .1314832 | .1400359 |
| #3 | 1.570123 | .0058148 | .0129057 | 41.98210 | .1316866 | .1385052 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2403226** | **207.9538** | **14.51848** | **20.01441** | **.1990458** | **-.014330** |
| Stddev | .0013282 | 1.4257 | .12887 | .15792 | .0011280 | .000538 |
| %RSD | .5526861 | .6855906 | .8876446 | .7890488 | .5666864 | 3.754843 |
| #1 | .2402774 | 209.5894 | 14.66720 | 20.19489 | .1993282 | -.013722 |
| #2 | .2416728 | 206.9740 | 14.43967 | 19.90154 | .2000057 | -.014524 |
| #3 | .2390175 | 207.2980 | 14.44856 | 19.94681 | .1978034 | -.014745 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9322488** | **.1649568** | **1.519616** | **5.510201** | **7.949710** | **.8595997** |
| Stddev | .0522535 | .0025255 | .003612 | .048019 | .014079 | .0084580 |
| %RSD | 5.605103 | 1.531011 | .2377172 | .8714538 | .1770975 | .9839524 |
| #1 | .8782096 | .1658304 | 1.515474 | 5.565388 | 7.960741 | .8693410 |
| #2 | .9825117 | .1621104 | 1.521260 | 5.487260 | 7.954538 | .8541206 |
| #3 | .9360250 | .1669295 | 1.522114 | 5.477956 | 7.933853 | .8553377 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-21 Acquired: 1/12/2025 18:47:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038988 | 1.731697 | F 22.40177 | .0206961 | .7264532 | .0768833 |
| Stddev | .0001050 | .008157 | .05237 | .0003245 | .0019891 | .0009060 |
| %RSD | 2.692823 | .4710324 | .2337627 | 1.568136 | .2738115 | 1.178374 |
| #1 | .0038457 | 1.739958 | 22.45868 | .0203292 | .7287033 | .0779031 |
| #2 | .0038310 | 1.731483 | 22.39101 | .0209456 | .7257277 | .0765756 |
| #3 | .0040197 | 1.723649 | 22.35562 | .0208135 | .7249287 | .0761713 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1470165 |
| Stddev | .0008449 |
| %RSD | .5747198 |
| #1 | .1479921 |
| #2 | .1465290 |
| #3 | .1465283 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3449.085 | 80499.70 | 11357.52 | 3840.063 | 3477.585 |
| Stddev | 8.354 | 232.50 | 48.97 | 5.822 | 8.828 |
| %RSD | .2422207 | .2888222 | .4311312 | .1516080 | .2538446 |
| #1 | 3450.510 | 80280.25 | 11406.11 | 3842.267 | 3475.658 |
| #2 | 3440.110 | 80743.36 | 11358.27 | 3844.461 | 3469.881 |
| #3 | 3456.636 | 80475.49 | 11308.18 | 3833.461 | 3487.217 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV011 Acquired: 1/12/2025 18:51:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV011 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.671328** | **4.508012** | **22.92716** | **4.690383** | **4.645953** | **362.2799** |
| Stddev | .005835 | .029718 | .02626 | .014143 | .001904 | 2.1348 |
| %RSD | .1249092 | .6592363 | .1145244 | .3015352 | .0409768 | .5892754 |
| #1 | 4.672353 | 4.520734 | 22.90035 | 4.702804 | 4.644460 | 361.0041 |
| #2 | 4.665048 | 4.474051 | 22.92831 | 4.674990 | 4.645303 | 364.7445 |
| #3 | 4.676581 | 4.529253 | 22.95283 | 4.693355 | 4.648097 | 361.0911 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.339766** | **.5258261** | **2.591379** | **365.0037** | **14.72878** | **2.324038** |
| Stddev | .073469 | .0008836 | .002727 | 4.3446 | .04017 | .002766 |
| %RSD | .7866273 | .1680357 | .1052399 | 1.190288 | .2727349 | .1190239 |
| #1 | 9.423656 | .5259778 | 2.590130 | 366.5625 | 14.72599 | 2.321766 |
| #2 | 9.286883 | .5266240 | 2.589499 | 368.3538 | 14.77027 | 2.323230 |
| #3 | 9.308760 | .5248765 | 2.594506 | 360.0947 | 14.69008 | 2.327119 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.97000** | **366.3877** | **13.87769** | **230.6436** | **2.318950** | **1.314839** |
| Stddev | .04000 | 1.2352 | .05878 | .9791 | .000640 | .002251 |
| %RSD | .2863414 | .3371305 | .4235699 | .4245267 | .0275988 | .1711754 |
| #1 | 13.92856 | 365.7377 | 13.87240 | 229.9081 | 2.318334 | 1.312632 |
| #2 | 14.00839 | 367.8121 | 13.93894 | 231.7550 | 2.319611 | 1.317131 |
| #3 | 13.97304 | 365.6131 | 13.82174 | 230.2676 | 2.318906 | 1.314754 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **365.6051** | **2.276920** | **14.89004** | **136.9998** | **4.562735** | F **5.620782** |
| Stddev | .5696 | .002462 | .04152 | .3789 | .012505 | .012015 |
| %RSD | .1558099 | .1081160 | .2788585 | .2766049 | .2740732 | .2137575 |
| #1 | 365.2682 | 2.277336 | 14.91654 | 136.7858 | 4.559272 | 5.613951 |
| #2 | 366.2628 | 2.279147 | 14.84219 | 137.4374 | 4.552326 | 5.634655 |
| #3 | 365.2843 | 2.274277 | 14.91140 | 136.7764 | 4.576607 | 5.613741 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV011 Acquired: 1/12/2025 18:51:37 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV011 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 4.392978 | 4.562478 | 4.574124 | 4.560187 | 4.553971 | F 4.139289 |
| Stddev | .006442 | .009959 | .017102 | .002307 | .007080 | .010171 |
| %RSD | .1466379 | .2182845 | .3738819 | .0505887 | .1554701 | .2457253 |
| #1 | 4.390168 | 4.563303 | 4.587638 | 4.558552 | 4.552441 | 4.138389 |
| #2 | 4.388418 | 4.552132 | 4.579837 | 4.562826 | 4.561692 | 4.149880 |
| #3 | 4.400347 | 4.571999 | 4.554897 | 4.559183 | 4.547782 | 4.129597 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 4.748569 |
| Stddev | .037648 |
| %RSD | .7928318 |
| #1 | 4.787699 |
| #2 | 4.712602 |
| #3 | 4.745407 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2152.574 | 52452.25 | 7985.774 | 2490.392 | 2884.709 |
| Stddev | 3.211 | 112.92 | 17.781 | 13.814 | 4.236 |
| %RSD | .1491862 | .2152803 | .2226563 | .5547090 | .1468579 |
| #1 | 2154.850 | 52414.95 | 7971.881 | 2479.328 | 2888.977 |
| #2 | 2153.972 | 52362.70 | 7979.629 | 2505.875 | 2884.645 |
| #3 | 2148.901 | 52579.10 | 8005.812 | 2485.972 | 2880.504 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB011 Acquired: 1/12/2025 18:55:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB011 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000614** | **.0003645** | **.0004286** | **.0022550** | **.0006301** | **.0009700** | **-.005356** |
| Stddev | .000521 | .0009303 | .0008121 | .0033134 | .0006336 | .0007302 | .000902 |
| %RSD | 84.82408 | 255.2250 | 189.4489 | 146.9364 | 100.5649 | 75.28430 | 16.83423 |
| #1 | -.000284 | .0001789 | .0013562 | -.000161 | -.000101 | .0018073 | -.004434 |
| #2 | -.000344 | .0013736 | .0000839 | .000894 | .000968 | .0006370 | -.005398 |
| #3 | -.001214 | -.000459 | -.000154 | .006032 | .001023 | .0004655 | -.006236 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000053** | **.0000723** | **.0291987** | **.0006447** | **.0000400** | **.0005817** | **.0261216** |
| Stddev | .000052 | .0000230 | .0032277 | .0001083 | .0001285 | .0013294 | .0009166 |
| %RSD | 99.10222 | 31.82095 | 11.05421 | 16.79241 | 321.5771 | 228.5466 | 3.509107 |
| #1 | -.000100 | .0000923 | .0275588 | .0006391 | -.000099 | .0002320 | .0268863 |
| #2 | -.000061 | .0000774 | .0271202 | .0005393 | .000063 | .0020509 | .0251055 |
| #3 | .000003 | .0000472 | .0329171 | .0007556 | .000155 | -.000538 | .0263729 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0007289** | **.0176944** | **.0001562** | **.0002557** | **.0349951** | **-.002499** | **.0003895** |
| Stddev | .0000983 | .0057413 | .0000515 | .0001235 | .2459725 | .001299 | .0002678 |
| %RSD | 13.48890 | 32.44728 | 32.95850 | 48.27815 | 702.8777 | 52.00272 | 68.75914 |
| #1 | .0008005 | .0242701 | .0002155 | .0003261 | -.090145 | -.003911 | .0002316 |
| #2 | .0007693 | .0136763 | .0001298 | .0001132 | .318376 | -.001354 | .0002381 |
| #3 | .0006168 | .0151368 | .0001232 | .0003279 | -.123246 | -.002231 | .0006986 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003611** | **-.001901** | **.0012064** | **.0002862** | **-.001341** | **.0101609** | **.0002836** |
| Stddev | .051832 | .000075 | .0004855 | .0002992 | .000673 | .0077318 | .0003982 |
| %RSD | 1435.321 | 3.952560 | 40.24389 | 104.5472 | 50.22035 | 76.09397 | 140.4075 |
| #1 | -.033389 | -.001885 | .0017047 | .0006008 | -.000702 | .0092145 | -.000130 |
| #2 | -.033684 | -.001983 | .0011795 | .0000051 | -.001276 | .0183224 | .000664 |
| #3 | .056239 | -.001835 | .0007349 | .0002527 | -.002044 | .0029458 | .000317 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB011 Acquired: 1/12/2025 18:55:56 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB011 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0003974 | -.002175 | .0000715 |
| Stddev | .0004928 | .000608 | .0000861 |
| %RSD | 124.0158 | 27.97995 | 120.4617 |
| #1 | .0009136 | -.001725 | .0000864 |
| #2 | .0003465 | -.001932 | .0001492 |
| #3 | -.000068 | -.002867 | -.000021 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2671.185 | 62465.43 | 8406.812 | 2973.936 | 3768.526 |
| Stddev | 22.882 | 53.05 | 57.022 | 6.087 | 36.390 |
| %RSD | .8566255 | .0849191 | .6782883 | .2046764 | .9656413 |
| #1 | 2652.352 | 62504.45 | 8353.328 | 2971.829 | 3739.504 |
| #2 | 2664.553 | 62405.03 | 8466.813 | 2969.182 | 3756.720 |
| #3 | 2696.651 | 62486.81 | 8400.295 | 2980.796 | 3809.353 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-22 Acquired: 1/12/2025 19:00:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNM0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0701616** | **-.005619** | **.3567141** | **.0238990** | **-.003244** | **59.02167** |
| Stddev | .0001825 | .001316 | .0029636 | .0028231 | .000811 | .57839 |
| %RSD | .2601116 | 23.41593 | .8308066 | 11.81263 | 24.99358 | .9799584 |
| #1 | .0702969 | -.006305 | .3593716 | .0216310 | -.002332 | 59.46033 |
| #2 | .0702338 | -.004102 | .3572526 | .0270608 | -.003519 | 59.23848 |
| #3 | .0699540 | -.006450 | .3535182 | .0230052 | -.003882 | 58.36620 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.432664** | **.0063119** | **.0106355** | **34.88874** | **.1289988** | **.0792286** |
| Stddev | .012540 | .0001150 | .0000226 | .29782 | .0001587 | .0012053 |
| %RSD | .8752883 | 1.822328 | .2127844 | .8536221 | .1229911 | 1.521283 |
| #1 | 1.442704 | .0061921 | .0106139 | 35.13560 | .1288167 | .0802866 |
| #2 | 1.436681 | .0063222 | .0106590 | 34.97265 | .1290725 | .0794828 |
| #3 | 1.418608 | .0064215 | .0106335 | 34.55797 | .1291072 | .0779165 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1681193** | **127.2919** | **18.14727** | **17.39685** | **.1738747** | **-.008341** |
| Stddev | .0018977 | 1.2621 | .16148 | .15326 | .0013468 | .000250 |
| %RSD | 1.128765 | .9914816 | .8898342 | .8809776 | .7745899 | 2.992698 |
| #1 | .1664799 | 128.2571 | 18.27552 | 17.51044 | .1747419 | -.008084 |
| #2 | .1676798 | 127.7548 | 18.20037 | 17.45757 | .1745592 | -.008357 |
| #3 | .1701982 | 125.8637 | 17.96593 | 17.22253 | .1723231 | -.008583 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6550780** | **.1458240** | **.6951233** | **5.142562** | **8.736523** | **.5354243** |
| Stddev | .0207639 | .0008455 | .0021801 | .047301 | .052689 | .0066022 |
| %RSD | 3.169676 | .5797887 | .3136245 | .9197913 | .6030891 | 1.233074 |
| #1 | .6586452 | .1465435 | .6942299 | 5.185683 | 8.763961 | .5408846 |
| #2 | .6327617 | .1460356 | .6976082 | 5.150033 | 8.769831 | .5373016 |
| #3 | .6738272 | .1448928 | .6935319 | 5.091970 | 8.675778 | .5280868 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-22 Acquired: 1/12/2025 19:00:06 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNM0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0078626 | 2.302901 | F 23.61430 | .0146771 | .6378164 | .0816257 |
| Stddev | .0002075 | .026911 | .07862 | .0003109 | .0009450 | .0007736 |
| %RSD | 2.638803 | 1.168577 | .3329334 | 2.118324 | .1481548 | .9477747 |
| #1 | .0079333 | 2.322391 | 23.69367 | .0148950 | .6377481 | .0823998 |
| #2 | .0080255 | 2.314115 | 23.53645 | .0143211 | .6387937 | .0816247 |
| #3 | .0076290 | 2.272196 | 23.61278 | .0148154 | .6369075 | .0808526 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1530195 |
| Stddev | .0018630 |
| %RSD | 1.217507 |
| #1 | .1542459 |
| #2 | .1539368 |
| #3 | .1508757 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3370.282 | 82040.25 | 11037.51 | 3858.404 | 3500.612 |
| Stddev | 21.203 | 344.15 | 35.05 | 16.733 | 23.889 |
| %RSD | .6291074 | .4194912 | .3175200 | .4336775 | .6824348 |
| #1 | 3358.249 | 81782.35 | 11054.04 | 3850.490 | 3483.853 |
| #2 | 3357.833 | 81907.38 | 11061.23 | 3847.096 | 3490.016 |
| #3 | 3394.763 | 82431.03 | 10997.25 | 3877.626 | 3527.967 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-23 Acquired: 1/12/2025 19:04:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN18 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1354548** | **-.024015** | **.8409573** | **.0354246** | **-.004863** | **57.61523** |
| Stddev | .0004497 | .001332 | .0043770 | .0011557 | .001483 | .25259 |
| %RSD | .3319824 | 5.544996 | .5204761 | 3.262518 | 30.48737 | .4384079 |
| #1 | .1354156 | -.022501 | .8459198 | .0340901 | -.004403 | 57.33505 |
| #2 | .1350260 | -.024539 | .8393054 | .0360876 | -.003666 | 57.82549 |
| #3 | .1359228 | -.025005 | .8376466 | .0360962 | -.006522 | 57.68517 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.275779** | **.0078422** | **.0173159** | **88.50253** | **.1341469** | **.1581278** |
| Stddev | .021735 | .0000683 | .0003612 | .41074 | .0004059 | .0011541 |
| %RSD | .6634943 | .8713614 | 2.085903 | .4640990 | .3025553 | .7298533 |
| #1 | 3.253850 | .0077831 | .0177167 | 88.03848 | .1336911 | .1594603 |
| #2 | 3.297314 | .0079170 | .0172157 | 88.81943 | .1344692 | .1574835 |
| #3 | 3.276174 | .0078265 | .0170155 | 88.64968 | .1342805 | .1574398 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3487571** | **187.5696** | F **53.98705** | **31.13796** | **.2300345** | **-.009581** |
| Stddev | .0012568 | .8829 | .42391 | .15679 | .0006647 | .000106 |
| %RSD | .3603760 | .4707167 | .7852005 | .5035437 | .2889593 | 1.105364 |
| #1 | .3500035 | 186.5516 | 54.47527 | 30.96134 | .2307785 | -.009665 |
| #2 | .3474901 | 188.1266 | 53.77336 | 31.19181 | .2294990 | -.009462 |
| #3 | .3487776 | 188.0306 | 53.71251 | 31.26074 | .2298261 | -.009616 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.006727** | **.1461454** | **2.043630** | **5.223699** | F **10.84752** | **.7737710** |
| Stddev | .174416 | .0014634 | .005422 | .018627 | .05886 | .0044467 |
| %RSD | 17.32511 | 1.001301 | .2653276 | .3565872 | .5426329 | .5746786 |
| #1 | 1.144119 | .1477530 | 2.049175 | 5.223460 | 10.91468 | .7686724 |
| #2 | .810501 | .1457923 | 2.038339 | 5.242445 | 10.82301 | .7768460 |
| #3 | 1.065559 | .1448909 | 2.043375 | 5.205193 | 10.80487 | .7757947 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-23 Acquired: 1/12/2025 19:04:12 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN18 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0203883 | 1.392949 | F 22.62990 | .0401342 | .7694790 | .0969551 |
| Stddev | .0004304 | .007925 | .03175 | .0009228 | .0002739 | .0004785 |
| %RSD | 2.110964 | .5689230 | .1402812 | 2.299314 | .0355976 | .4935459 |
| #1 | .0204931 | 1.400598 | 22.66504 | .0391578 | .7691627 | .0969110 |
| #2 | .0199151 | 1.393475 | 22.62135 | .0409920 | .7696366 | .0974542 |
| #3 | .0207565 | 1.384774 | 22.60330 | .0402529 | .7696377 | .0965002 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2137722 |
| Stddev | .0010913 |
| %RSD | .5105164 |
| #1 | .2125184 |
| #2 | .2145087 |
| #3 | .2142896 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3347.603 | 78946.70 | 10895.97 | 3698.700 | 3409.726 |
| Stddev | 8.724 | 109.78 | 67.83 | 13.975 | 12.295 |
| %RSD | .2605953 | .1390611 | .6224836 | .3778477 | .3605963 |
| #1 | 3338.263 | 78884.61 | 10825.70 | 3682.800 | 3395.550 |
| #2 | 3355.541 | 79073.46 | 10961.05 | 3709.039 | 3417.497 |
| #3 | 3349.004 | 78882.04 | 10901.16 | 3704.260 | 3416.129 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07DLX2 Acquired: 1/12/2025 19:08:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0298532 | -.003842 | .1140765 | .0034204 | -.001964 | 22.50254 |
| Stddev | .0008233 | .002055 | .0007678 | .0010473 | .000895 | .10740 |
| %RSD | 2.757843 | 53.48326 | .6730252 | 30.61793 | 45.57629 | .4772796 |
| #1 | .0305378 | -.002546 | .1133245 | .0022497 | -.002972 | 22.44280 |
| #2 | .0289396 | -.002769 | .1140458 | .0037435 | -.001260 | 22.62653 |
| #3 | .0300820 | -.006211 | .1148591 | .0042680 | -.001662 | 22.43829 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1906033 | .0019950 | .0025026 | 600.2869 | .0376914 | .0320170 |
| Stddev | .0017538 | .0000789 | .0001092 | 3.2113 | .0003046 | .0002718 |
| %RSD | .9201533 | 3.955559 | 4.363460 | .5349595 | .8081837 | .8489123 |
| #1 | .1909013 | .0019872 | .0024507 | 603.9712 | .0373707 | .0321198 |
| #2 | .1921890 | .0020775 | .0024291 | 598.8078 | .0377268 | .0317088 |
| #3 | .1887195 | .0019203 | .0026281 | 598.0817 | .0379768 | .0322225 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1685600 | 60.60018 | 5.225527 | 78.06114 | .0665270 | -.005469 |
| Stddev | .0010194 | .29851 | .032957 | .44649 | .0004054 | .000141 |
| %RSD | .6047649 | .4925923 | .6306828 | .5719762 | .6094132 | 2.570045 |
| #1 | .1693874 | 60.40288 | 5.220642 | 77.75143 | .0663828 | -.005624 |
| #2 | .1688714 | 60.94361 | 5.260654 | 78.57294 | .0662133 | -.005350 |
| #3 | .1674212 | 60.45406 | 5.195286 | 77.85904 | .0669847 | -.005433 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8162441 | .0479931 | .2647920 | 3.142448 | F 14.81767 | .2700340 |
| Stddev | .2140389 | .0011422 | .0021644 | .025567 | .00789 | .0023681 |
| %RSD | 26.22241 | 2.379884 | .8173887 | .8136049 | .0532486 | .8769453 |
| #1 | .7522896 | .0467626 | .2626382 | 3.112935 | 14.82433 | .2688871 |
| #2 | 1.054970 | .0481973 | .2647710 | 3.157873 | 14.81973 | .2727572 |
| #3 | .641473 | .0490194 | .2669668 | 3.156535 | 14.80896 | .2684578 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-07DLX2 Acquired: 1/12/2025 19:08:14 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMZ8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015774 | .7942965 | 3.148138 | .0012785 | .2302993 | .0484923 |
| Stddev | .0002061 | .0029495 | .012251 | .0009269 | .0011289 | .0017917 |
| %RSD | 13.06801 | .3713280 | .3891456 | 72.49818 | .4902019 | 3.694775 |
| #1 | .0015051 | .7916888 | 3.153831 | .0002492 | .2311935 | .0465514 |
| #2 | .0018099 | .7974974 | 3.156507 | .0020471 | .2306736 | .0500830 |
| #3 | .0014171 | .7937032 | 3.134077 | .0015392 | .2290307 | .0488427 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5095682 |
| Stddev | .0029482 |
| %RSD | .5785683 |
| #1 | .5070677 |
| #2 | .5128191 |
| #3 | .5088179 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2853.459 | 66173.28 | 9709.561 | 3155.949 | 3051.187 |
| Stddev | 5.890 | 96.75 | 27.666 | 7.590 | 2.770 |
| %RSD | .2064213 | .1462087 | .2849371 | .2404848 | .0907864 |
| #1 | 2846.759 | 66251.80 | 9698.400 | 3164.697 | 3050.009 |
| #2 | 2857.820 | 66065.20 | 9741.064 | 3151.129 | 3054.352 |
| #3 | 2855.798 | 66202.83 | 9689.219 | 3152.021 | 3049.201 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01DLX5 Acquired: 1/12/2025 19:12:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0203530 | -.000320 | .0256782 | .0014673 | -.000597 | 3.975306 | .1349581 |
| Stddev | .0013950 | .000750 | .0026714 | .0029865 | .002401 | .033522 | .0007346 |
| %RSD | 6.853837 | 233.9948 | 10.40342 | 203.5455 | 402.1787 | .8432458 | .5443511 |
| #1 | .0203835 | .000223 | .0226197 | .0043238 | -.003322 | 3.940334 | .1346602 |
| #2 | .0189431 | -.000008 | .0275548 | -.001634 | .000324 | 4.007159 | .1357948 |
| #3 | .0217325 | -.001176 | .0268600 | .001712 | .001207 | 3.978427 | .1344191 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0006809 | .0004097 | 377.3413 | .0100104 | .0070567 | .0318348 | 20.65108 |
| Stddev | .0000760 | .0000566 | 2.0435 | .0003692 | .0005257 | .0028743 | .07774 |
| %RSD | 11.15461 | 13.81667 | .5415534 | 3.687848 | 7.448922 | 9.028706 | .3764523 |
| #1 | .0007596 | .0003495 | 378.1027 | .0104311 | .0076549 | .0331733 | 20.69770 |
| #2 | .0006752 | .0004177 | 378.8949 | .0097406 | .0066687 | .0337958 | 20.69420 |
| #3 | .0006080 | .0004618 | 375.0265 | .0098596 | .0068465 | .0285354 | 20.56133 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.968342 | 171.9243 | .0152782 | -.001857 | .4208515 | .0179208 | .0606105 |
| Stddev | .011796 | .5358 | .0003674 | .000303 | .0704790 | .0027132 | .0005364 |
| %RSD | .5992999 | .3116547 | 2.404729 | 16.31584 | 16.74676 | 15.14015 | .8850235 |
| #1 | 1.973837 | 172.2152 | .0150781 | -.001710 | .3563811 | .0205916 | .0608840 |
| #2 | 1.976389 | 172.2518 | .0157022 | -.001654 | .4100756 | .0151670 | .0599925 |
| #3 | 1.954801 | 171.3060 | .0150543 | -.002205 | .4960979 | .0180037 | .0609550 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4619339 | .6755173 | .0883970 | .0036332 | .6141842 | 1.755811 | -.003495 |
| Stddev | .0418052 | .0020013 | .0001905 | .0004523 | .0058002 | .034227 | .001016 |
| %RSD | 9.050030 | .2962677 | .2154591 | 12.44849 | .9443725 | 1.949373 | 29.06370 |
| #1 | .5097212 | .6749535 | .0882416 | .0041482 | .6203527 | 1.768829 | -.002803 |
| #2 | .4439522 | .6738584 | .0883399 | .0034510 | .6133594 | 1.781620 | -.003021 |
| #3 | .4321283 | .6777401 | .0886095 | .0033005 | .6088406 | 1.716985 | -.004661 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-01DLX5 Acquired: 1/12/2025 19:12:24 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN53 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0643326 | .0135343 | .2897374 |
| Stddev | .0019781 | .0008138 | .0010809 |
| %RSD | 3.074785 | 6.012652 | .3730644 |
| #1 | .0656662 | .0143470 | .2898551 |
| #2 | .0652716 | .0135363 | .2907546 |
| #3 | .0620599 | .0127195 | .2886025 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2455.349 | 57274.89 | 8225.470 | 2710.667 | 3117.835 |
| Stddev | 3.531 | 235.49 | 101.728 | 12.278 | 6.589 |
| %RSD | .1438073 | .4111533 | 1.236739 | .4529618 | .2113344 |
| #1 | 2451.816 | 57099.52 | 8149.755 | 2718.963 | 3110.356 |
| #2 | 2458.878 | 57182.61 | 8185.552 | 2696.562 | 3120.361 |
| #3 | 2455.355 | 57542.54 | 8341.102 | 2716.475 | 3122.787 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10DLX2 Acquired: 1/12/2025 19:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0314037 | -.001827 | .1407652 | .0062060 | .0007045 | 19.04433 | .1487248 |
| Stddev | .0032644 | .001232 | .0013112 | .0022673 | .0010091 | .04339 | .0003966 |
| %RSD | 10.39509 | 67.43264 | .9314787 | 36.53437 | 143.2465 | .2278168 | .2666512 |
| #1 | .0350862 | -.000450 | .1408476 | .0073760 | -.000430 | 19.08396 | .1489528 |
| #2 | .0302595 | -.002207 | .1420333 | .0035927 | .001503 | 18.99798 | .1482669 |
| #3 | .0288653 | -.002825 | .1394148 | .0076493 | .001040 | 19.05106 | .1489548 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014395 | .0027547 | 474.2955 | .0426952 | .0326685 | .1607388 | 61.25252 |
| Stddev | .0000309 | .0000625 | .9841 | .0001447 | .0001984 | .0018356 | .06630 |
| %RSD | 2.148905 | 2.269396 | .2074866 | .3389608 | .6074258 | 1.141975 | .1082388 |
| #1 | .0014460 | .0026826 | 473.2868 | .0426325 | .0324424 | .1621573 | 61.27587 |
| #2 | .0014058 | .0027946 | 474.3469 | .0428608 | .0327497 | .1586656 | 61.17771 |
| #3 | .0014666 | .0027868 | 475.2529 | .0425925 | .0328135 | .1613936 | 61.30400 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.711778 | 124.0421 | .0616398 | -.005351 | .7048481 | .0449620 | .3937853 |
| Stddev | .009029 | .1993 | .0005780 | .000266 | .2338105 | .0012203 | .0007573 |
| %RSD | .2432608 | .1606909 | .9377878 | 4.980353 | 33.17176 | 2.714009 | .1923040 |
| #1 | 3.716029 | 124.2703 | .0610148 | -.005611 | .9373082 | .0454878 | .3943325 |
| #2 | 3.701408 | 123.9535 | .0617493 | -.005078 | .7075257 | .0435670 | .3929211 |
| #3 | 3.717897 | 123.9024 | .0621552 | -.005362 | .4697102 | .0458313 | .3941025 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.579422 | 4.145460 | .2694166 | .0027543 | .6583415 | 6.448192 | .0059718 |
| Stddev | .056848 | .032841 | .0004010 | .0001290 | .0035753 | .015927 | .0017548 |
| %RSD | 1.588194 | .7922158 | .1488333 | 4.685580 | .5430821 | .2469973 | 29.38518 |
| #1 | 3.607216 | 4.107597 | .2697729 | .0026096 | .6577143 | 6.449467 | .0079403 |
| #2 | 3.514024 | 4.166228 | .2694946 | .0028575 | .6621890 | 6.431665 | .0045714 |
| #3 | 3.617025 | 4.162553 | .2689824 | .0027957 | .6551213 | 6.463442 | .0054037 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-10DLX2 Acquired: 1/12/2025 19:16:38 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN88 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2273369 | .0438963 | .2956948 |
| Stddev | .0007277 | .0020439 | .0007755 |
| %RSD | .3201216 | 4.656236 | .2622769 |
| #1 | .2281771 | .0461082 | .2958443 |
| #2 | .2269023 | .0435031 | .2948554 |
| #3 | .2269314 | .0420775 | .2963848 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2651.029 | 62150.26 | 8948.287 | 2950.292 | 3129.064 |
| Stddev | 27.366 | 99.80 | 17.027 | 6.899 | 33.347 |
| %RSD | 1.032285 | .1605849 | .1902845 | .2338399 | 1.065720 |
| #1 | 2682.369 | 62041.86 | 8932.472 | 2942.375 | 3166.994 |
| #2 | 2638.862 | 62170.57 | 8966.311 | 2955.017 | 3115.846 |
| #3 | 2631.856 | 62238.34 | 8946.080 | 2953.483 | 3104.352 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20DLX2 Acquired: 1/12/2025 19:20:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0163070** | **-.001707** | **.0392384** | **-.004989** | **.0013717** | **11.85122** |
| Stddev | .0004027 | .000498 | .0005190 | .003246 | .0017764 | .02630 |
| %RSD | 2.469677 | 29.17616 | 1.322824 | 65.06329 | 129.5101 | .2219415 |
| #1 | .0167533 | -.001556 | .0394227 | -.001248 | -.000664 | 11.87816 |
| #2 | .0159707 | -.002263 | .0396401 | -.006655 | .002169 | 11.82560 |
| #3 | .0161969 | -.001301 | .0386523 | -.007063 | .002610 | 11.84990 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1145242** | **.0010311** | **.0010560** | F **1039.003** | **.0268072** | **.0121416** |
| Stddev | .0001637 | .0001355 | .0000737 | 4.494 | .0003676 | .0004817 |
| %RSD | .1429353 | 13.13653 | 6.976447 | .4325564 | 1.371172 | 3.967586 |
| #1 | .1146730 | .0011499 | .0010359 | 1043.693 | .0269668 | .0121972 |
| #2 | .1145509 | .0008836 | .0009945 | 1038.583 | .0263868 | .0125931 |
| #3 | .1143489 | .0010598 | .0011376 | 1034.734 | .0270681 | .0116345 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0589396** | **39.73581** | **2.699066** | **210.4871** | **.0289713** | **-.003897** |
| Stddev | .0010714 | .08743 | .007943 | .2741 | .0003531 | .000192 |
| %RSD | 1.817711 | .2200330 | .2942872 | .1302198 | 1.218736 | 4.933936 |
| #1 | .0597928 | 39.80525 | 2.704762 | 210.7407 | .0292028 | -.003913 |
| #2 | .0592889 | 39.63762 | 2.689993 | 210.1963 | .0285649 | -.004080 |
| #3 | .0577372 | 39.76456 | 2.702443 | 210.5243 | .0291461 | -.003697 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2605022** | **.0326576** | **.1213521** | **2.322850** | **1.628974** | **.1805527** |
| Stddev | .0939917 | .0009333 | .0001206 | .026456 | .009754 | .0008585 |
| %RSD | 36.08096 | 2.857770 | .0994043 | 1.138929 | .5987773 | .4755021 |
| #1 | .3509738 | .0337332 | .1214880 | 2.351722 | 1.623781 | .1808884 |
| #2 | .2671859 | .0320626 | .1212575 | 2.317058 | 1.622916 | .1795770 |
| #3 | .1633471 | .0321769 | .1213109 | 2.299770 | 1.640226 | .1811926 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-20DLX2 Acquired: 1/12/2025 19:20:47 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMS7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0009766 | .4553119 | 4.648063 | -.003631 | .1121754 | .0368759 |
| Stddev | .0001253 | .0032772 | .013711 | .001735 | .0012465 | .0008238 |
| %RSD | 12.82714 | .7197752 | .2949754 | 47.77848 | 1.111241 | 2.233998 |
| #1 | .0008996 | .4547561 | 4.649556 | -.004737 | .1124735 | .0374820 |
| #2 | .0011212 | .4523482 | 4.633667 | -.004523 | .1108068 | .0372078 |
| #3 | .0009091 | .4588315 | 4.660966 | -.001631 | .1132459 | .0359380 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4630510 |
| Stddev | .0012195 |
| %RSD | .2633688 |
| #1 | .4644452 |
| #2 | .4625257 |
| #3 | .4621821 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2400.250 | 56215.16 | 8336.084 | 2667.327 | 2854.362 |
| Stddev | 9.768 | 141.11 | 14.585 | 5.294 | 16.188 |
| %RSD | .4069701 | .2510095 | .1749587 | .1984600 | .5671396 |
| #1 | 2411.389 | 56102.70 | 8333.292 | 2669.395 | 2872.990 |
| #2 | 2393.141 | 56373.49 | 8351.863 | 2671.275 | 2843.702 |
| #3 | 2396.221 | 56169.27 | 8323.097 | 2661.312 | 2846.394 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12DLX2 Acquired: 1/12/2025 19:24:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1322002 | -.002917 | 10.46257 | .0277679 | .0188306 | 24.14721 |
| Stddev | .0016749 | .000685 | .02421 | .0020914 | .0018850 | .08448 |
| %RSD | 1.266914 | 23.49267 | .2313898 | 7.531595 | 10.01030 | .3498527 |
| #1 | .1331041 | -.003438 | 10.49028 | .0261303 | .0204454 | 24.16175 |
| #2 | .1332289 | -.002141 | 10.44555 | .0301237 | .0192872 | 24.05640 |
| #3 | .1302676 | -.003172 | 10.45188 | .0270496 | .0167592 | 24.22348 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7634603 | .0049183 | .0258956 | 7.780606 | .0296968 | .0275406 |
| Stddev | .0024940 | .0000548 | .0001843 | .037897 | .0007923 | .0001794 |
| %RSD | .3266686 | 1.115119 | .7117972 | .4870760 | 2.668110 | .6513518 |
| #1 | .7643895 | .0049714 | .0260871 | 7.811460 | .0297524 | .0276936 |
| #2 | .7606351 | .0049216 | .0258801 | 7.738304 | .0304598 | .0273432 |
| #3 | .7653563 | .0048618 | .0257194 | 7.792053 | .0288780 | .0275851 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.327753 | 132.9727 | 9.146837 | 13.90395 | .0231816 | .0374065 |
| Stddev | .003743 | .5744 | .034118 | .08534 | .0001821 | .0007118 |
| %RSD | .2819188 | .4319770 | .3730018 | .6137659 | .7856706 | 1.902934 |
| #1 | 1.326598 | 133.0769 | 9.150662 | 13.93381 | .0230794 | .0367159 |
| #2 | 1.331937 | 132.3533 | 9.110968 | 13.80769 | .0230736 | .0373659 |
| #3 | 1.324722 | 133.4879 | 9.178882 | 13.97034 | .0233919 | .0381378 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3437176 | .0633466 | 6.533344 | 3.324826 | 3.966099 | .5322057 |
| Stddev | .0931039 | .0006869 | .003908 | .005749 | .016867 | .0033436 |
| %RSD | 27.08734 | 1.084418 | .0598107 | .1729074 | .4252750 | .6282474 |
| #1 | .4153590 | .0641233 | 6.537594 | 3.327079 | 3.985475 | .5336535 |
| #2 | .2384781 | .0630979 | 6.529907 | 3.329108 | 3.954709 | .5283822 |
| #3 | .3773156 | .0628187 | 6.532531 | 3.318292 | 3.958112 | .5345814 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5388-12DLX2 Acquired: 1/12/2025 19:24:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MH2D59 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1053817 | F 12.20725 | 8.112384 | .0093788 | .8703345 | .0432853 |
| Stddev | .0006285 | .05717 | .040786 | .0005122 | .0015207 | .0005784 |
| %RSD | .5964354 | .4683609 | .5027680 | 5.461169 | .1747304 | 1.336321 |
| #1 | .1059444 | 12.27299 | 8.109803 | .0099702 | .8695457 | .0439178 |
| #2 | .1054974 | 12.17966 | 8.072950 | .0090749 | .8720875 | .0431551 |
| #3 | .1047034 | 12.16911 | 8.154400 | .0090914 | .8693701 | .0427831 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0775398 |
| Stddev | .0002804 |
| %RSD | .3615716 |
| #1 | .0774346 |
| #2 | .0773272 |
| #3 | .0778575 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2782.007 | 64224.25 | 8854.459 | 3049.346 | 3665.184 |
| Stddev | 4.580 | 222.58 | 19.010 | 12.249 | 5.835 |
| %RSD | .1646258 | .3465657 | .2146908 | .4016996 | .1592032 |
| #1 | 2780.983 | 64332.56 | 8872.560 | 3055.472 | 3663.101 |
| #2 | 2787.013 | 64371.95 | 8856.161 | 3057.324 | 3671.775 |
| #3 | 2778.026 | 63968.25 | 8834.655 | 3035.243 | 3660.677 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05DLX2 Acquired: 1/12/2025 19:28:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1033251** | **-.002650** | **.5651891** | **.0187736** | **-.001437** | **27.30833** |
| Stddev | .0020046 | .001438 | .0039457 | .0017619 | .001545 | .06147 |
| %RSD | 1.940051 | 54.27716 | .6981198 | 9.384965 | 107.4749 | .2250799 |
| #1 | .1049786 | -.002974 | .5607052 | .0175770 | -.000453 | 27.36655 |
| #2 | .1010956 | -.003899 | .5681308 | .0179470 | -.003218 | 27.31439 |
| #3 | .1039010 | -.001077 | .5667312 | .0207968 | -.000641 | 27.24406 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3891219** | **.0027464** | **.0034167** | **520.8460** | **.0526729** | **.0415511** |
| Stddev | .0007961 | .0000427 | .0000793 | .9588 | .0005333 | .0003355 |
| %RSD | .2045970 | 1.553232 | 2.321345 | .1840780 | 1.012439 | .8073289 |
| #1 | .3900218 | .0027130 | .0034005 | 521.4858 | .0530591 | .0419374 |
| #2 | .3885092 | .0027944 | .0035029 | 521.3085 | .0528952 | .0413331 |
| #3 | .3888348 | .0027317 | .0033467 | 519.7436 | .0520645 | .0413829 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1430278** | **108.3416** | **3.596774** | **66.82305** | **.0965527** | **-.009808** |
| Stddev | .0018304 | .3282 | .007583 | .31047 | .0007202 | .000231 |
| %RSD | 1.279742 | .3029609 | .2108146 | .4646197 | .7459639 | 2.360091 |
| #1 | .1410220 | 108.6952 | 3.605300 | 67.18003 | .0967376 | -.009989 |
| #2 | .1434537 | 108.2831 | 3.590789 | 66.67316 | .0957580 | -.009547 |
| #3 | .1446077 | 108.0466 | 3.594231 | 66.61596 | .0971624 | -.009888 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7648159** | **.0571264** | **.6103237** | **6.256250** | **2.744283** | **.4906134** |
| Stddev | .0518885 | .0019957 | .0038297 | .082200 | .007287 | .0015634 |
| %RSD | 6.784441 | 3.493546 | .6274918 | 1.313890 | .2655419 | .3186614 |
| #1 | .7453035 | .0548304 | .6147422 | 6.350200 | 2.744662 | .4922631 |
| #2 | .8236319 | .0584461 | .6079587 | 6.197570 | 2.751373 | .4904233 |
| #3 | .7255122 | .0581026 | .6082701 | 6.220981 | 2.736813 | .4891537 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-05DLX2 Acquired: 1/12/2025 19:28:54 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0036467 | 2.167617 | F 11.03400 | .0198771 | .1377547 | .0639239 |
| Stddev | .0005704 | .004498 | .12286 | .0011746 | .0024594 | .0007951 |
| %RSD | 15.64120 | .2075071 | 1.113434 | 5.909534 | 1.785325 | 1.243820 |
| #1 | .0031130 | 2.169639 | 10.89305 | .0212289 | .1351682 | .0633567 |
| #2 | .0042478 | 2.170750 | 11.09059 | .0191046 | .1400634 | .0648327 |
| #3 | .0035793 | 2.162463 | 11.11837 | .0192978 | .1380324 | .0635823 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5340470 |
| Stddev | .0009818 |
| %RSD | .1838430 |
| #1 | .5349347 |
| #2 | .5342140 |
| #3 | .5329925 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2642.906 | 60940.27 | 8835.815 | 2892.747 | 3140.111 |
| Stddev | 5.588 | 432.16 | 63.172 | 18.015 | 6.340 |
| %RSD | .2114268 | .7091604 | .7149593 | .6227636 | .2018963 |
| #1 | 2649.304 | 60442.17 | 8906.856 | 2873.564 | 3147.114 |
| #2 | 2638.983 | 61215.45 | 8814.636 | 2909.306 | 3134.763 |
| #3 | 2640.431 | 61163.21 | 8785.953 | 2895.370 | 3138.455 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06DLX2 Acquired: 1/12/2025 19:33:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0567353 | -.003034 | .2944124 | .0076973 | .0002912 | 22.16979 |
| Stddev | .0021290 | .001671 | .0008898 | .0031009 | .0019073 | .05067 |
| %RSD | 3.752527 | 55.07867 | .3022241 | 40.28530 | 654.9100 | .2285741 |
| #1 | .0548648 | -.001111 | .2939384 | .0053209 | .0009919 | 22.22795 |
| #2 | .0562891 | -.003861 | .2938599 | .0112050 | .0017490 | 22.14633 |
| #3 | .0590521 | -.004131 | .2954388 | .0065661 | -.001867 | 22.13510 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2121881 | .0024296 | .0019955 | 596.9154 | .0386758 | .0341104 |
| Stddev | .0012215 | .0000418 | .0001105 | 2.5798 | .0001301 | .0005944 |
| %RSD | .5756657 | 1.719644 | 5.538860 | .4321849 | .3363883 | 1.742721 |
| #1 | .2135418 | .0024615 | .0018680 | 594.6849 | .0385304 | .0340835 |
| #2 | .2118543 | .0024449 | .0020546 | 596.3207 | .0387811 | .0335299 |
| #3 | .2111682 | .0023823 | .0020638 | 599.7406 | .0387160 | .0347179 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0595769 | 71.78251 | 2.551189 | 72.86059 | .0816120 | -.006975 |
| Stddev | .0036976 | .14894 | .005537 | .15247 | .0005770 | .000258 |
| %RSD | 6.206423 | .2074858 | .2170239 | .2092672 | .7069616 | 3.701624 |
| #1 | .0558823 | 71.90689 | 2.557566 | 73.03109 | .0810994 | -.007000 |
| #2 | .0595708 | 71.82318 | 2.548395 | 72.81338 | .0814999 | -.006705 |
| #3 | .0632775 | 71.61746 | 2.547607 | 72.73731 | .0822368 | -.007220 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5134002 | .0394344 | .3241996 | 6.171933 | 1.502994 | .3439290 |
| Stddev | .0657149 | .0003503 | .0017123 | .033910 | .011145 | .0021991 |
| %RSD | 12.79995 | .8883864 | .5281582 | .5494199 | .7415141 | .6394141 |
| #1 | .5691206 | .0391314 | .3229012 | 6.169328 | 1.494944 | .3451288 |
| #2 | .5301481 | .0393538 | .3235574 | 6.139401 | 1.498323 | .3452671 |
| #3 | .4409319 | .0398180 | .3261401 | 6.207070 | 1.515714 | .3413909 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-06DLX2 Acquired: 1/12/2025 19:33:00 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNC8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0023316 | 1.544150 | F 10.44104 | .0017850 | .0721893 | .0574314 |
| Stddev | .0004232 | .003215 | .02968 | .0006747 | .0010775 | .0001844 |
| %RSD | 18.15260 | .2082186 | .2843033 | 37.79612 | 1.492646 | .3210320 |
| #1 | .0020392 | 1.544590 | 10.40706 | .0022676 | .0710080 | .0572442 |
| #2 | .0028169 | 1.540737 | 10.46194 | .0010141 | .0724416 | .0576128 |
| #3 | .0021387 | 1.547123 | 10.45412 | .0020733 | .0731183 | .0574372 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .5049707 |
| Stddev | .0014109 |
| %RSD | .2794100 |
| #1 | .5065646 |
| #2 | .5044658 |
| #3 | .5038817 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2524.071 | 59440.00 | 8538.784 | 2837.286 | 3006.804 |
| Stddev | 11.935 | 86.65 | 24.883 | 4.427 | 20.868 |
| %RSD | .4728412 | .1457700 | .2914115 | .1560198 | .6940116 |
| #1 | 2528.708 | 59346.89 | 8565.487 | 2842.371 | 3012.555 |
| #2 | 2532.991 | 59454.87 | 8534.618 | 2834.293 | 3024.193 |
| #3 | 2510.514 | 59518.26 | 8516.247 | 2835.194 | 2983.664 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07A Acquired: 1/12/2025 19:37:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1097240** | **.0003338** | **5.998810** | **.0865026** | **.0784811** | **54.10231** |
| Stddev | .0028265 | .0016866 | .012842 | .0020096 | .0003140 | .20068 |
| %RSD | 2.576007 | 505.2399 | .2140798 | 2.323196 | .4001495 | .3709352 |
| #1 | .1099152 | -.000424 | 6.013601 | .0851000 | .0783393 | 53.90799 |
| #2 | .1068068 | -.000841 | 5.990499 | .0856028 | .0782629 | 54.30880 |
| #3 | .1124500 | .002266 | 5.992330 | .0888049 | .0788410 | 54.09014 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.314452** | **.0046116** | **.0180650** | **32.15377** | **.1395359** | **.0709001** |
| Stddev | .005207 | .0001327 | .0001075 | .10420 | .0008205 | .0003710 |
| %RSD | .3961486 | 2.878419 | .5950410 | .3240614 | .5880572 | .5232923 |
| #1 | 1.310520 | .0047524 | .0181851 | 32.08949 | .1387121 | .0712137 |
| #2 | 1.320358 | .0045938 | .0179779 | 32.27399 | .1403531 | .0704906 |
| #3 | 1.312479 | .0044887 | .0180319 | 32.09784 | .1395425 | .0709961 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5193736** | **136.2060** | **4.926955** | **13.91346** | **.1692389** | **.0035287** |
| Stddev | .0012266 | .4917 | .013889 | .02533 | .0008988 | .0002904 |
| %RSD | .2361729 | .3609979 | .2818951 | .1820556 | .5310673 | 8.229429 |
| #1 | .5203331 | 135.6869 | 4.916265 | 13.89330 | .1702762 | .0038560 |
| #2 | .5179916 | 136.6647 | 4.942653 | 13.94190 | .1686934 | .0034284 |
| #3 | .5197962 | 136.2664 | 4.921946 | 13.90519 | .1687470 | .0033018 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4981828** | **.1912213** | **2.988332** | **6.207116** | **7.546808** | **.5705281** |
| Stddev | .0338155 | .0010046 | .008244 | .027261 | .027223 | .0030074 |
| %RSD | 6.787772 | .5253633 | .2758737 | .4391819 | .3607218 | .5271252 |
| #1 | .4591654 | .1915329 | 2.979369 | 6.188383 | 7.578226 | .5687857 |
| #2 | .5190051 | .1900978 | 2.995592 | 6.238390 | 7.531986 | .5740007 |
| #3 | .5163778 | .1920332 | 2.990034 | 6.194574 | 7.530212 | .5687979 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5197-07A Acquired: 1/12/2025 19:37:10 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMQ9A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0075172 | 2.455288 | F 17.59420 | .1521777 | .8285745 | .0685520 |
| Stddev | .0002450 | .001498 | .01341 | .0018509 | .0056831 | .0019186 |
| %RSD | 3.259756 | .0610192 | .0762107 | 1.216257 | .6858948 | 2.798674 |
| #1 | .0072609 | 2.454777 | 17.58672 | .1543130 | .8255255 | .0672869 |
| #2 | .0077492 | 2.456975 | 17.58619 | .1510320 | .8351315 | .0707595 |
| #3 | .0075414 | 2.454112 | 17.60968 | .1511882 | .8250666 | .0676096 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1483898 |
| Stddev | .0007368 |
| %RSD | .4965167 |
| #1 | .1477844 |
| #2 | .1492102 |
| #3 | .1481748 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2986.412 | 71328.35 | 9692.681 | 3402.863 | 3548.284 |
| Stddev | 3.236 | 149.77 | 26.283 | 12.991 | 2.999 |
| %RSD | .1083554 | .2099709 | .2711595 | .3817755 | .0845126 |
| #1 | 2986.700 | 71422.93 | 9667.564 | 3415.441 | 3545.063 |
| #2 | 2983.043 | 71155.67 | 9719.992 | 3389.495 | 3548.796 |
| #3 | 2989.495 | 71406.44 | 9690.487 | 3403.655 | 3550.994 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19A Acquired: 1/12/2025 19:41:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1513828** | **-.006988** | **.2804026** | **.0966560** | **.0686738** | **92.97953** |
| Stddev | .0028003 | .001940 | .0011986 | .0020505 | .0012871 | .18916 |
| %RSD | 1.849802 | 27.76231 | .4274715 | 2.121411 | 1.874201 | .2034432 |
| #1 | .1481597 | -.006868 | .2817787 | .0987963 | .0676496 | 92.78513 |
| #2 | .1527707 | -.005111 | .2795860 | .0964625 | .0682533 | 92.99049 |
| #3 | .1532181 | -.008985 | .2798431 | .0947091 | .0701185 | 93.16298 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.318668** | **.0064565** | **.0079046** | **22.20537** | **.1489925** | **.1256301** |
| Stddev | .002706 | .0000197 | .0000872 | .01255 | .0004662 | .0003492 |
| %RSD | .2052036 | .3057443 | 1.103187 | .0565300 | .3128806 | .2779580 |
| #1 | 1.316053 | .0064380 | .0079844 | 22.19088 | .1486471 | .1256727 |
| #2 | 1.321456 | .0064773 | .0078115 | 22.21275 | .1488077 | .1252615 |
| #3 | 1.318494 | .0064541 | .0079180 | 22.21249 | .1495228 | .1259560 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3955571** | **235.9785** | **12.66928** | **26.40913** | **.1988662** | **-.008596** |
| Stddev | .0011366 | .4131 | .02863 | .08117 | .0002503 | .000096 |
| %RSD | .2873364 | .1750372 | .2259587 | .3073606 | .1258842 | 1.114192 |
| #1 | .3960713 | 235.5754 | 12.64047 | 26.31540 | .1989253 | -.008654 |
| #2 | .3942543 | 235.9592 | 12.69772 | 26.45563 | .1990818 | -.008486 |
| #3 | .3963458 | 236.4008 | 12.66965 | 26.45635 | .1985917 | -.008649 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5424169** | **.2226051** | **.4295550** | **6.245089** | **3.264229** | **.9642211** |
| Stddev | .0612623 | .0011851 | .0006720 | .033788 | .008657 | .0017725 |
| %RSD | 11.29432 | .5323766 | .1564472 | .5410411 | .2651977 | .1838235 |
| #1 | .6131340 | .2217164 | .4298513 | 6.267943 | 3.254509 | .9632766 |
| #2 | .5086005 | .2239507 | .4300280 | 6.206277 | 3.271110 | .9631209 |
| #3 | .5055160 | .2221483 | .4287858 | 6.261046 | 3.267066 | .9662658 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5201-19A Acquired: 1/12/2025 19:41:05 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038409 | .5003363 | F 17.24800 | .0139136 | 1.140569 | .0830469 |
| Stddev | .0001323 | .0052672 | .09400 | .0007527 | .002214 | .0002388 |
| %RSD | 3.443320 | 1.052725 | .5450122 | 5.409455 | .1941420 | .2874832 |
| #1 | .0039337 | .5040706 | 17.29715 | .0139352 | 1.142711 | .0829081 |
| #2 | .0036895 | .5026264 | 17.30724 | .0131504 | 1.138289 | .0833225 |
| #3 | .0038997 | .4943117 | 17.13961 | .0146552 | 1.140708 | .0829100 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0902486 |
| Stddev | .0002445 |
| %RSD | .2709236 |
| #1 | .0899785 |
| #2 | .0903122 |
| #3 | .0904550 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3292.379 | 78026.04 | 10865.03 | 3739.261 | 3359.783 |
| Stddev | 6.791 | 48.66 | 29.39 | 10.846 | 6.339 |
| %RSD | .2062686 | .0623606 | .2705186 | .2900452 | .1886640 |
| #1 | 3286.843 | 78077.02 | 10833.57 | 3730.219 | 3358.263 |
| #2 | 3290.336 | 77980.10 | 10869.73 | 3736.279 | 3354.342 |
| #3 | 3299.957 | 78021.01 | 10891.79 | 3751.286 | 3366.743 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02A Acquired: 1/12/2025 19:44:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2127591 | -.003657 | 3.233008 | .0866192 | .0752889 | 50.20947 |
| Stddev | .0015934 | .001757 | .004542 | .0018257 | .0006369 | .21061 |
| %RSD | .7489438 | 48.04380 | .1404920 | 2.107729 | .8459048 | .4194578 |
| #1 | .2110722 | -.002243 | 3.227789 | .0874846 | .0754882 | 50.08386 |
| #2 | .2142388 | -.003104 | 3.235168 | .0878512 | .0745762 | 50.09194 |
| #3 | .2129662 | -.005624 | 3.236068 | .0845217 | .0758023 | 50.45261 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.265578 | .0044602 | .0124260 | 62.92878 | .1706027 | .0808116 |
| Stddev | .003764 | .0001877 | .0000880 | .18350 | .0004635 | .0003722 |
| %RSD | .2974446 | 4.208021 | .7084197 | .2916032 | .2716828 | .4606103 |
| #1 | 1.261232 | .0043899 | .0125186 | 62.75982 | .1710260 | .0805898 |
| #2 | 1.267705 | .0046730 | .0123433 | 62.90252 | .1706748 | .0812413 |
| #3 | 1.267798 | .0043179 | .0124162 | 63.12400 | .1701074 | .0806036 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.138144 | 140.1594 | 7.569806 | 23.67173 | .2057832 | .0039617 |
| Stddev | .003519 | .4193 | .025568 | .08530 | .0006037 | .0001540 |
| %RSD | .3092017 | .2991780 | .3377665 | .3603643 | .2933565 | 3.887929 |
| #1 | 1.142164 | 139.7955 | 7.540573 | 23.57593 | .2050868 | .0038486 |
| #2 | 1.136643 | 140.0646 | 7.580844 | 23.69976 | .2061036 | .0038995 |
| #3 | 1.135623 | 140.6180 | 7.588001 | 23.73949 | .2061591 | .0041371 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4602639 | .1426755 | 7.904541 | 7.343239 | F 14.26608 | .5975481 |
| Stddev | .0198114 | .0016570 | .022431 | .017421 | .04236 | .0028072 |
| %RSD | 4.304361 | 1.161404 | .2837748 | .2372344 | .2969504 | .4697955 |
| #1 | .4395269 | .1445420 | 7.930307 | 7.337058 | 14.27559 | .5950878 |
| #2 | .4622675 | .1413776 | 7.893947 | 7.329752 | 14.30288 | .5969505 |
| #3 | .4789974 | .1421069 | 7.889369 | 7.362908 | 14.21977 | .6006061 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5206-02A Acquired: 1/12/2025 19:44:59 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN82A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071750 | 4.012262 | F 20.87752 | .1612363 | .8558778 | .0634868 |
| Stddev | .0000761 | .010800 | .08189 | .0013125 | .0051219 | .0009487 |
| %RSD | 1.061019 | .2691836 | .3922232 | .8140099 | .5984420 | 1.494379 |
| #1 | .0070872 | 4.006057 | 20.92936 | .1597227 | .8547225 | .0624114 |
| #2 | .0072233 | 4.024733 | 20.92009 | .1619276 | .8614787 | .0638433 |
| #3 | .0072144 | 4.005996 | 20.78312 | .1620587 | .8514322 | .0642056 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1738408 |
| Stddev | .0009716 |
| %RSD | .5588788 |
| #1 | .1736442 |
| #2 | .1729827 |
| #3 | .1748957 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3078.430 | 71771.18 | 10174.88 | 3446.660 | 3498.467 |
| Stddev | 3.526 | 23.49 | 46.19 | 12.396 | 7.403 |
| %RSD | .1145445 | .0327293 | .4540007 | .3596667 | .2116109 |
| #1 | 3082.469 | 71794.99 | 10138.87 | 3432.368 | 3507.012 |
| #2 | 3075.963 | 71770.52 | 10158.80 | 3453.118 | 3494.388 |
| #3 | 3076.859 | 71748.02 | 10226.96 | 3454.494 | 3494.000 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11A Acquired: 1/12/2025 19:48:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0747562 | -.002461 | 2.206177 | .0861239 | .0738739 | 64.14216 |
| Stddev | .0008868 | .000342 | .008280 | .0010608 | .0034280 | .14634 |
| %RSD | 1.186311 | 13.89698 | .3753278 | 1.231710 | 4.640317 | .2281432 |
| #1 | .0757625 | -.002169 | 2.213361 | .0852764 | .0724047 | 63.97320 |
| #2 | .0744175 | -.002375 | 2.197120 | .0873135 | .0777916 | 64.22847 |
| #3 | .0740887 | -.002837 | 2.208049 | .0857817 | .0714254 | 64.22481 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.372545 | .0049074 | .0092687 | 84.73635 | .1300400 | .0791001 |
| Stddev | .004686 | .0000569 | .0000868 | .15431 | .0006226 | .0004559 |
| %RSD | .3413838 | 1.159926 | .9364477 | .1821048 | .4788103 | .5763869 |
| #1 | 1.374136 | .0049513 | .0093583 | 84.72791 | .1307334 | .0794746 |
| #2 | 1.367271 | .0049278 | .0092628 | 84.58643 | .1298582 | .0785924 |
| #3 | 1.376228 | .0048431 | .0091850 | 84.89470 | .1295286 | .0792333 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2512302 | 161.6849 | 7.075330 | 22.12630 | .1618818 | .0008803 |
| Stddev | .0010490 | .3323 | .024345 | .09364 | .0011555 | .0000839 |
| %RSD | .4175267 | .2055300 | .3440894 | .4232214 | .7138007 | 9.532733 |
| #1 | .2517246 | 161.3570 | 7.085186 | 22.09854 | .1624156 | .0009635 |
| #2 | .2500254 | 161.6762 | 7.047601 | 22.04968 | .1605559 | .0007957 |
| #3 | .2519406 | 162.0214 | 7.093201 | 22.23069 | .1626739 | .0008816 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5876275 | .1560280 | 6.593541 | 5.196386 | 8.362048 | .6885114 |
| Stddev | .0794629 | .0013253 | .013049 | .042909 | .035378 | .0016070 |
| %RSD | 13.52266 | .8494140 | .1979079 | .8257450 | .4230767 | .2334064 |
| #1 | .4991907 | .1554598 | 6.602963 | 5.147284 | 8.367831 | .6868648 |
| #2 | .6530249 | .1550814 | 6.599014 | 5.215202 | 8.324135 | .6885936 |
| #3 | .6106670 | .1575426 | 6.578647 | 5.226673 | 8.394178 | .6900757 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5208-11A Acquired: 1/12/2025 19:48:53 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNK4A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024361 | 1.760345 | F 21.38301 | .1100114 | .7441915 | .0802011 |
| Stddev | .0002901 | .005416 | .08584 | .0008703 | .0027822 | .0006632 |
| %RSD | 11.90816 | .3076385 | .4014515 | .7910932 | .3738614 | .8269847 |
| #1 | .0025105 | 1.766565 | 21.42731 | .1110139 | .7439501 | .0794402 |
| #2 | .0026816 | 1.756675 | 21.28407 | .1095710 | .7415378 | .0805066 |
| #3 | .0021160 | 1.757795 | 21.43765 | .1094494 | .7470866 | .0806566 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2629395 |
| Stddev | .0008316 |
| %RSD | .3162689 |
| #1 | .2619832 |
| #2 | .2634926 |
| #3 | .2633428 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3249.452 | 76452.20 | 10872.88 | 3662.009 | 3432.172 |
| Stddev | 12.197 | 90.50 | 12.29 | 4.479 | 12.595 |
| %RSD | .3753439 | .1183774 | .1130454 | .1223193 | .3669590 |
| #1 | 3236.777 | 76550.76 | 10863.86 | 3661.808 | 3418.835 |
| #2 | 3261.106 | 76433.03 | 10886.88 | 3657.633 | 3443.862 |
| #3 | 3250.473 | 76372.82 | 10867.90 | 3666.585 | 3433.820 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14A Acquired: 1/12/2025 19:52:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0490018** | **-.004450** | **.5361122** | **.0829130** | **.0683900** | **63.60232** |
| Stddev | .0020305 | .000749 | .0021746 | .0016429 | .0014838 | .14764 |
| %RSD | 4.143809 | 16.83471 | .4056232 | 1.981425 | 2.169608 | .2321255 |
| #1 | .0484795 | -.005157 | .5376406 | .0825753 | .0690796 | 63.50017 |
| #2 | .0472834 | -.004527 | .5336227 | .0846984 | .0694035 | 63.77159 |
| #3 | .0512424 | -.003665 | .5370734 | .0814652 | .0666869 | 63.53519 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5925612** | **.0040611** | **.0055106** | **60.83671** | **.1325139** | **.0778984** |
| Stddev | .0015626 | .0001141 | .0001433 | .11620 | .0005132 | .0003880 |
| %RSD | .2636957 | 2.809524 | 2.599594 | .1910004 | .3872626 | .4980698 |
| #1 | .5916703 | .0040444 | .0054318 | 60.75762 | .1319236 | .0778802 |
| #2 | .5943654 | .0041827 | .0056760 | 60.97012 | .1328532 | .0782951 |
| #3 | .5916479 | .0039564 | .0054242 | 60.78240 | .1327651 | .0775198 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1407070** | **165.2706** | **3.652505** | **36.66101** | **.1836008** | **-.001644** |
| Stddev | .0008073 | .4338 | .009311 | .13286 | .0004499 | .000106 |
| %RSD | .5737782 | .2624535 | .2549208 | .3624072 | .2450596 | 6.454043 |
| #1 | .1399680 | 164.9042 | 3.645189 | 36.59466 | .1830980 | -.001706 |
| #2 | .1415687 | 165.7496 | 3.662986 | 36.81398 | .1837387 | -.001522 |
| #3 | .1405843 | 165.1581 | 3.649340 | 36.57438 | .1839656 | -.001706 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6386353** | **.1438989** | **.7018863** | **8.090127** | **7.850274** | **.6969240** |
| Stddev | .1060805 | .0015573 | .0017139 | .031229 | .019029 | .0016523 |
| %RSD | 16.61050 | 1.082204 | .2441893 | .3860120 | .2423941 | .2370784 |
| #1 | .7151530 | .1449916 | .7000506 | 8.108495 | 7.861371 | .6955542 |
| #2 | .5175401 | .1445893 | .7034446 | 8.107817 | 7.861150 | .6987590 |
| #3 | .6832126 | .1421157 | .7021638 | 8.054069 | 7.828302 | .6964589 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5209-14A Acquired: 1/12/2025 19:52:49 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHN81A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0007103 | .8430872 | F 22.19191 | .0174434 | 1.108195 | .1028157 |
| Stddev | .0003224 | .0033360 | .14309 | .0001531 | .004006 | .0008788 |
| %RSD | 45.38846 | .3956929 | .6447942 | .8774930 | .3614646 | .8547131 |
| #1 | .0006219 | .8402498 | 22.08873 | .0172684 | 1.104349 | .1030458 |
| #2 | .0010677 | .8422497 | 22.35526 | .0175519 | 1.112343 | .1035566 |
| #3 | .0004413 | .8467622 | 22.13173 | .0175101 | 1.107893 | .1018448 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1141628 |
| Stddev | .0002319 |
| %RSD | .2031622 |
| #1 | .1141023 |
| #2 | .1144190 |
| #3 | .1139672 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3296.006 | 76481.29 | 10786.82 | 3658.348 | 3493.388 |
| Stddev | 3.044 | 288.40 | 45.31 | 4.629 | 6.668 |
| %RSD | .0923470 | .3770846 | .4200716 | .1265342 | .1908632 |
| #1 | 3293.731 | 76792.30 | 10822.77 | 3661.783 | 3494.248 |
| #2 | 3294.823 | 76222.69 | 10735.93 | 3653.084 | 3486.332 |
| #3 | 3299.464 | 76428.89 | 10801.77 | 3660.176 | 3499.584 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20A Acquired: 1/12/2025 19:56:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0910298** | **-.005970** | **.8892528** | **.0866433** | **.0870638** | **41.11264** |
| Stddev | .0031848 | .001207 | .0018809 | .0023487 | .0011948 | .22003 |
| %RSD | 3.498687 | 20.22330 | .2115202 | 2.710778 | 1.372383 | .5351792 |
| #1 | .0937196 | -.007218 | .8909646 | .0857404 | .0879961 | 40.85894 |
| #2 | .0875130 | -.005886 | .8872392 | .0848799 | .0857168 | 41.25130 |
| #3 | .0918566 | -.004807 | .8895545 | .0893094 | .0874784 | 41.22767 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7539421** | **.0031312** | **.0074011** | **191.9027** | **.1001771** | **.0656442** |
| Stddev | .0039559 | .0001287 | .0000403 | .7069 | .0004937 | .0001948 |
| %RSD | .5247025 | 4.111206 | .5442110 | .3683554 | .4928691 | .2967619 |
| #1 | .7499113 | .0030472 | .0073675 | 191.0957 | .1000756 | .0654557 |
| #2 | .7578187 | .0032794 | .0073901 | 192.4124 | .0997420 | .0656322 |
| #3 | .7540964 | .0030669 | .0074457 | 192.1999 | .1007137 | .0658447 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2063469** | **154.9382** | **10.72229** | **45.45957** | **.1108701** | **.0004011** |
| Stddev | .0013845 | .7454 | .04348 | .19488 | .0003224 | .0003751 |
| %RSD | .6709696 | .4810965 | .4054638 | .4286829 | .2907631 | 93.52433 |
| #1 | .2079126 | 154.0776 | 10.67407 | 45.23458 | .1109592 | .0000097 |
| #2 | .2052840 | 155.3772 | 10.75849 | 45.57564 | .1111385 | .0004361 |
| #3 | .2058442 | 155.3600 | 10.73432 | 45.56848 | .1105125 | .0007575 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.003925** | **.0934056** | **1.093037** | **4.146845** | **9.081730** | **.6379326** |
| Stddev | .083591 | .0004199 | .002010 | .037768 | .013489 | .0041363 |
| %RSD | 8.326459 | .4495566 | .1839213 | .9107692 | .1485318 | .6483892 |
| #1 | 1.025449 | .0938076 | 1.094645 | 4.138927 | 9.086928 | .6331567 |
| #2 | 1.074650 | .0929698 | 1.093683 | 4.113664 | 9.091847 | .6403652 |
| #3 | .911677 | .0934396 | 1.090783 | 4.187945 | 9.066415 | .6402758 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5211-20A Acquired: 1/12/2025 19:56:45 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNL7A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0058645 | 1.407470 | F 22.56216 | .0296920 | .7833471 | .0657450 |
| Stddev | .0001485 | .006509 | .03052 | .0013537 | .0007919 | .0009445 |
| %RSD | 2.532405 | .4624908 | .1352556 | 4.559084 | .1010964 | 1.436640 |
| #1 | .0057906 | 1.404830 | 22.52878 | .0301434 | .7837439 | .0658293 |
| #2 | .0060355 | 1.414885 | 22.58863 | .0281703 | .7838621 | .0666446 |
| #3 | .0057675 | 1.402696 | 22.56908 | .0307623 | .7824352 | .0647612 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2680222 |
| Stddev | .0014931 |
| %RSD | .5570944 |
| #1 | .2662981 |
| #2 | .2688737 |
| #3 | .2688948 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2996.659 | 70256.09 | 9838.724 | 3366.284 | 3305.509 |
| Stddev | 4.377 | 105.85 | 35.862 | 11.077 | 6.286 |
| %RSD | .1460537 | .1506654 | .3644979 | .3290649 | .1901809 |
| #1 | 2998.286 | 70252.39 | 9799.336 | 3353.499 | 3311.208 |
| #2 | 2991.702 | 70363.74 | 9869.486 | 3372.329 | 3298.766 |
| #3 | 2999.990 | 70152.13 | 9847.350 | 3373.023 | 3306.552 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05A Acquired: 1/12/2025 20:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1764872 | -.005665 | 1.775256 | .0735719 | .0665664 | 56.98121 |
| Stddev | .0004886 | .000289 | .002886 | .0017161 | .0010483 | .19188 |
| %RSD | .2768498 | 5.106447 | .1625614 | 2.332558 | 1.574795 | .3367425 |
| #1 | .1760122 | -.005522 | 1.771924 | .0744126 | .0656758 | 57.17453 |
| #2 | .1769883 | -.005476 | 1.776860 | .0747056 | .0677216 | 56.79081 |
| #3 | .1764612 | -.005998 | 1.776983 | .0715975 | .0663016 | 56.97828 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.263413 | .0107360 | .0087175 | 180.9410 | .3564381 | .1001389 |
| Stddev | .020053 | .0002113 | .0001021 | .6662 | .0013001 | .0003394 |
| %RSD | .6144801 | 1.968035 | 1.171647 | .3681814 | .3647460 | .3389209 |
| #1 | 3.281333 | .0109537 | .0088336 | 181.5893 | .3578260 | .1001068 |
| #2 | 3.241754 | .0107227 | .0086777 | 180.2582 | .3552487 | .0998167 |
| #3 | 3.267153 | .0105317 | .0086412 | 180.9754 | .3562396 | .1004933 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7586006 | 149.1734 | 9.945745 | 35.71803 | .1562822 | .0012154 |
| Stddev | .0077793 | .5165 | .057186 | .14750 | .0008657 | .0002939 |
| %RSD | 1.025485 | .3462362 | .5749754 | .4129492 | .5539662 | 24.18247 |
| #1 | .7630165 | 149.6714 | 10.00728 | 35.88833 | .1570842 | .0011788 |
| #2 | .7631670 | 148.6402 | 9.89423 | 35.63099 | .1563980 | .0015259 |
| #3 | .7496182 | 149.2085 | 9.93572 | 35.63476 | .1553643 | .0009415 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7494974 | .3117008 | 2.936757 | 6.086615 | F 18.57910 | .6471404 |
| Stddev | .2051609 | .0040127 | .015867 | .017774 | .03766 | .0029663 |
| %RSD | 27.37313 | 1.287343 | .5402943 | .2920101 | .2026936 | .4583689 |
| #1 | .6884961 | .3150507 | 2.955057 | 6.107051 | 18.61368 | .6497284 |
| #2 | .9782407 | .3127981 | 2.928384 | 6.074755 | 18.53898 | .6439033 |
| #3 | .5817555 | .3072537 | 2.926830 | 6.078041 | 18.58465 | .6477895 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5212-05A Acquired: 1/12/2025 20:00:42 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0071408** | **3.032109** | F **21.23547** | **.0944106** | **.7232282** | **.0857330** |
| Stddev | .0002974 | .008143 | .31735 | .0008389 | .0090373 | .0006019 |
| %RSD | 4.165013 | .2685534 | 1.494435 | .8885850 | 1.249581 | .7020881 |
| #1 | .0073267 | 3.040703 | 21.49498 | .0939379 | .7301877 | .0863817 |
| #2 | .0072978 | 3.031115 | 21.32978 | .0939147 | .7264824 | .0856248 |
| #3 | .0067977 | 3.024509 | 20.88166 | .0953792 | .7130144 | .0851926 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.3151422** |
| Stddev | .0008882 |
| %RSD | .2818543 |
| #1 | .3155660 |
| #2 | .3141215 |
| #3 | .3157392 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3410.886** | **79113.67** | **11535.77** | **3786.441** | **3350.719** |
| Stddev | 4.598 | 468.78 | 163.62 | 16.801 | 4.886 |
| %RSD | .1347988 | .5925378 | 1.418401 | .4437280 | .1458220 |
| #1 | 3411.001 | 78602.76 | 11407.88 | 3767.043 | 3350.621 |
| #2 | 3415.426 | 79523.99 | 11479.26 | 3796.450 | 3355.654 |
| #3 | 3406.232 | 79214.25 | 11720.15 | 3795.829 | 3345.883 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09A Acquired: 1/12/2025 20:04:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1232083 | -.003463 | .3153237 | .0821323 | .0921629 | 51.67628 |
| Stddev | .0033924 | .001916 | .0000139 | .0023818 | .0022013 | .27801 |
| %RSD | 2.753383 | 55.32923 | .0044176 | 2.899934 | 2.388499 | .5379742 |
| #1 | .1195456 | -.001792 | .3153184 | .0837831 | .0909998 | 51.98050 |
| #2 | .1262426 | -.005554 | .3153133 | .0794019 | .0907871 | 51.61294 |
| #3 | .1238366 | -.003041 | .3153396 | .0832119 | .0947018 | 51.43542 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8943926 | .0039424 | .0086013 | 513.4505 | .1325333 | .0727749 |
| Stddev | .0060854 | .0000485 | .0001121 | 1.3203 | .0004406 | .0001017 |
| %RSD | .6803987 | 1.229158 | 1.303681 | .2571388 | .3324106 | .1397571 |
| #1 | .8997669 | .0038884 | .0086439 | 512.6283 | .1330410 | .0727231 |
| #2 | .8956260 | .0039567 | .0086860 | 514.9734 | .1323072 | .0728921 |
| #3 | .8877849 | .0039821 | .0084742 | 512.7497 | .1322517 | .0727095 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4967250 | 169.3283 | 5.827658 | 57.78395 | .1805151 | -.000317 |
| Stddev | .0029993 | .8585 | .028196 | .21949 | .0003340 | .000243 |
| %RSD | .6038191 | .5070101 | .4838284 | .3798434 | .1850375 | 76.76913 |
| #1 | .4948717 | 170.1951 | 5.853442 | 58.00422 | .1803955 | -.000039 |
| #2 | .5001854 | 169.3114 | 5.831981 | 57.78237 | .1802573 | -.000493 |
| #3 | .4951178 | 168.4783 | 5.797550 | 57.56525 | .1808924 | -.000420 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8260912 | .1178056 | .6451016 | 10.62069 | 5.102202 | .7609987 |
| Stddev | .0876616 | .0022747 | .0026058 | .01754 | .008621 | .0036041 |
| %RSD | 10.61161 | 1.930898 | .4039387 | .1651042 | .1689614 | .4736017 |
| #1 | .8616165 | .1154175 | .6434596 | 10.60053 | 5.104704 | .7648320 |
| #2 | .7262431 | .1199468 | .6481062 | 10.63241 | 5.109295 | .7604852 |
| #3 | .8904139 | .1180524 | .6437390 | 10.62913 | 5.092607 | .7576789 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: P5210-09A Acquired: 1/12/2025 20:04:35 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNJ0A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0013390 | 1.229546 | F 23.71768 | .0356883 | 1.230728 | .1218268 |
| Stddev | .0002325 | .001783 | .04862 | .0008768 | .004381 | .0006105 |
| %RSD | 17.36279 | .1450110 | .2050013 | 2.456716 | .3559612 | .5011260 |
| #1 | .0012768 | 1.228870 | 23.66200 | .0354092 | 1.229376 | .1220059 |
| #2 | .0015963 | 1.231568 | 23.75178 | .0349850 | 1.235626 | .1211468 |
| #3 | .0011440 | 1.228200 | 23.73925 | .0366706 | 1.227183 | .1223278 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3422945 |
| Stddev | .0022826 |
| %RSD | .6668396 |
| #1 | .3448988 |
| #2 | .3413433 |
| #3 | .3406414 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2861.484 | 66664.75 | 9707.061 | 3175.459 | 3139.055 |
| Stddev | 5.824 | 200.37 | 70.950 | 6.086 | 3.700 |
| %RSD | .2035414 | .3005564 | .7309080 | .1916534 | .1178848 |
| #1 | 2858.184 | 66706.59 | 9783.327 | 3177.320 | 3136.229 |
| #2 | 2858.060 | 66446.76 | 9643.014 | 3168.660 | 3137.693 |
| #3 | 2868.209 | 66840.88 | 9694.843 | 3180.397 | 3143.244 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV012 Acquired: 1/12/2025 20:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.667025** | **4.519356** | **23.16771** | **4.696248** | **4.635686** | **365.3823** |
| Stddev | .009372 | .056738 | .02638 | .004925 | .003499 | 2.6924 |
| %RSD | .2008032 | 1.255444 | .1138724 | .1048700 | .0754868 | .7368692 |
| #1 | 4.656796 | 4.534411 | 23.19310 | 4.690615 | 4.638598 | 363.8178 |
| #2 | 4.669082 | 4.567048 | 23.16958 | 4.699740 | 4.631804 | 363.8379 |
| #3 | 4.675198 | 4.456608 | 23.14044 | 4.698389 | 4.636656 | 368.4912 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.375638** | **.5191879** | **2.582739** | **373.2064** | **14.85616** | **2.343717** |
| Stddev | .067152 | .0029018 | .005582 | 4.3874 | .01622 | .003106 |
| %RSD | .7162385 | .5589173 | .2161163 | 1.175602 | .1091552 | .1325224 |
| #1 | 9.314617 | .5221991 | 2.587083 | 368.5319 | 14.86474 | 2.347024 |
| #2 | 9.364716 | .5189552 | 2.584691 | 373.8521 | 14.83746 | 2.343265 |
| #3 | 9.447582 | .5164095 | 2.576444 | 377.2352 | 14.86629 | 2.340861 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.21991** | **372.3190** | **14.12104** | **235.5054** | **2.340250** | **1.343183** |
| Stddev | .02081 | 1.5810 | .06284 | .9363 | .005990 | .001355 |
| %RSD | .1463208 | .4246245 | .4450310 | .3975791 | .2559419 | .1009142 |
| #1 | 14.23466 | 371.7831 | 14.11297 | 234.8972 | 2.346787 | 1.344338 |
| #2 | 14.19611 | 371.0757 | 14.06263 | 235.0354 | 2.338937 | 1.343521 |
| #3 | 14.22896 | 374.0983 | 14.18753 | 236.5836 | 2.335026 | 1.341691 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **372.3941** | **2.331108** | **14.88257** | **136.4781** | **4.559156** | F **5.656138** |
| Stddev | .3613 | .002361 | .03486 | .7290 | .014114 | .013680 |
| %RSD | .0970117 | .1012614 | .2342422 | .5341591 | .3095824 | .2418604 |
| #1 | 372.8113 | 2.333652 | 14.84354 | 136.2959 | 4.564794 | 5.671094 |
| #2 | 372.1825 | 2.328989 | 14.89354 | 135.8574 | 4.569580 | 5.653063 |
| #3 | 372.1886 | 2.330683 | 14.91063 | 137.2808 | 4.543094 | 5.644258 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCV012 Acquired: 1/12/2025 20:08:39 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV012 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F 4.414754 | 4.580148 | 4.718338 | 4.611493 | 4.658730 | F 4.207049 |
| Stddev | .001143 | .012322 | .010730 | .011966 | .009027 | .018654 |
| %RSD | .0258852 | .2690278 | .2274191 | .2594911 | .1937641 | .4434071 |
| #1 | 4.413691 | 4.586096 | 4.717653 | 4.625170 | 4.669056 | 4.210004 |
| #2 | 4.415963 | 4.565981 | 4.729395 | 4.606354 | 4.654796 | 4.187093 |
| #3 | 4.414609 | 4.588368 | 4.707967 | 4.602955 | 4.652337 | 4.224049 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 4.694409 |
| Stddev | .043672 |
| %RSD | .9302903 |
| #1 | 4.644687 |
| #2 | 4.726548 |
| #3 | 4.711994 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2141.691 | 52487.44 | 7928.627 | 2509.619 | 2862.811 |
| Stddev | 1.439 | 160.11 | 7.077 | 9.302 | 6.382 |
| %RSD | .0671899 | .3050496 | .0892539 | .3706478 | .2229248 |
| #1 | 2141.629 | 52573.08 | 7925.215 | 2520.345 | 2857.410 |
| #2 | 2140.283 | 52586.52 | 7923.903 | 2504.749 | 2861.169 |
| #3 | 2143.159 | 52302.72 | 7936.763 | 2503.764 | 2869.853 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB012 Acquired: 1/12/2025 20:17:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000715** | **.0001848** | **.0012931** | **.0018952** | **.0002425** | **.0117406** | **-.004781** |
| Stddev | .000667 | .0015642 | .0004286 | .0014385 | .0024812 | .0017616 | .000726 |
| %RSD | 93.30599 | 846.4117 | 33.14681 | 75.89964 | 1023.204 | 15.00454 | 15.18897 |
| #1 | -.001041 | .0013643 | .0008432 | .0035378 | .0031005 | .0119792 | -.005483 |
| #2 | -.001155 | .0007796 | .0013394 | .0012873 | -.001014 | .0133707 | -.004032 |
| #3 | .000052 | -.001590 | .0016967 | .0008605 | -.001360 | .0098718 | -.004829 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000027** | **.0000873** | **.0245608** | **.0007246** | **.0000927** | **-.000630** | **.0255236** |
| Stddev | .0000781 | .0000576 | .0071470 | .0003095 | .0001677 | .001815 | .0051259 |
| %RSD | 2933.752 | 65.96534 | 29.09930 | 42.71142 | 180.9421 | 288.0418 | 20.08299 |
| #1 | .0000924 | .0001530 | .0298499 | .0006890 | .0000847 | -.002611 | .0222400 |
| #2 | -.000035 | .0000456 | .0274025 | .0010504 | .0002642 | .000954 | .0314302 |
| #3 | -.000049 | .0000632 | .0164300 | .0004345 | -.000071 | -.000234 | .0229006 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006179** | **.0337978** | **.0001442** | **.0003779** | **-.019646** | **-.001221** | **.0008531** |
| Stddev | .0003396 | .0245150 | .0003704 | .0001781 | .064861 | .001098 | .0001774 |
| %RSD | 54.96049 | 72.53445 | 256.8524 | 47.12826 | 330.1560 | 89.87036 | 20.79404 |
| #1 | .0002366 | .0516724 | .0003759 | .0005699 | .023420 | -.000575 | .0009862 |
| #2 | .0008877 | .0438699 | -.000283 | .0002181 | -.094244 | -.002489 | .0009213 |
| #3 | .0007294 | .0058510 | .000340 | .0003458 | .011888 | -.000600 | .0006517 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.048154** | **-.002154** | **.0037220** | **.0004114** | **-.001882** | **.0089243** | **-.000363** |
| Stddev | .011380 | .000640 | .0009525 | .0002678 | .002042 | .0048414 | .000630 |
| %RSD | 23.63244 | 29.72091 | 25.59063 | 65.10713 | 108.5436 | 54.24984 | 173.4979 |
| #1 | -.052350 | -.002134 | .0048218 | .0005239 | -.001436 | .0143835 | .000188 |
| #2 | -.056841 | -.001524 | .0031591 | .0006045 | -.000099 | .0072373 | -.000228 |
| #3 | -.035272 | -.002803 | .0031853 | .0001056 | -.004110 | .0051521 | -.001050 |

Reviewed By:Mohan
On:1/13/2025 6:55:51 AM
Inst Id :P4

Sample Name: CCB012 Acquired: 1/12/2025 20:17:15 Type: Unk
Method: EPA SFAM01.0(v33) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB012 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000385 | -.001672 | .0001605 |
| Stddev | .001554 | .000912 | .0000298 |
| %RSD | 404.0819 | 54.54491 | 18.59176 |
| #1 | .000913 | -.002686 | .0001298 |
| #2 | -.002106 | -.000918 | .0001894 |
| #3 | .000040 | -.001413 | .0001624 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2666.229 | 61820.33 | 8198.951 | 2961.982 | 3783.952 |
| Stddev | 9.845 | 254.45 | 13.246 | 12.028 | 6.385 |
| %RSD | .3692417 | .4116004 | .1615515 | .4060793 | .1687369 |
| #1 | 2654.971 | 61613.86 | 8214.154 | 2956.035 | 3776.703 |
| #2 | 2673.222 | 61742.54 | 8189.904 | 2954.086 | 3786.415 |
| #3 | 2670.495 | 62104.60 | 8192.794 | 2975.825 | 3788.739 |

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# Prep Standard - Chemical Standard Summary

**Order ID :** P5209

**Test :** Metals CLP Full

**Prepbatch ID :** PB165886,

**Sequence ID/Qc Batch ID:** LB134242,

**Standard ID :**
MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP83508,MP83509,MP835
10,MP83511,MP83512,MP83513,MP83514,MP84003,

**Chemical ID :**
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5496,M5497,M5498,M5513,M5515,M5519
,M5658,M5697,M5698,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M581
9,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M6023,M6025,M60
28,M6030,M6121,M6125,M6126,W3112,

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 169 | 1:1HNO3 | MP83498 | 12/09/2024 | 01/31/2025 | Janvi Patel | None | None | Sarabjit Jaswal 12/09/2024 |

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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 902 | ICP AES CAL BLK ( SO/ICB/CCB) | MP83500 | 12/06/2024 | 01/14/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2480 | ICP AES STD 6 ISM01.3 | MP83501 | 12/06/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1004 | ICPAES ISM01.2 (S5) | MP83502 | 12/06/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1005 | ICPAES ISM01.2(S4) | MP83503 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1007 | ICPAES ISM01.2(S3) | MP83504 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1008 | ICPAES ISM01.2(S2) | MP83505 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 994 | ICPAES ISM01.2 S1 (CONC.) | MP83506 | 12/09/2024 | 01/13/2025 | 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 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1003 | ICPAES ISM01.2 S1 | MP83507 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2054 | ICV-ICPAES | MP83508 | 12/09/2024 | 01/13/2025 | 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

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 904 | ICP AES ICSA SOLN | MP83509 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 12/09/2024 |

**FROM** 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 905 | ICP AES ICSAB SOLN | MP83510 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1119 | ICPAES ISM01.2(CCV) | MP83511 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 921 | ICPAES SPIKE SOL#6 | MP83512 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 919 | ICP AES INTERNAL STD | MP83513 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 513 | RINSE SOLN | MP83514 | 12/09/2024 | 01/13/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

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

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3559 | SE 100PPM | MP84003 | 01/11/2025 | 01/14/2025 | Sarabjit Jaswal | None | None | Mohan Bera 01/12/2025 |

**FROM** 1.00000ml of M5962 + 9.00000ml of MP83500 = Final Quantity: 10.000 ml

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti | S2-MEB711674 | 11/02/2026 | 07/01/2022 / bin | 09/10/2021 / bin | M5218 |

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

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

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

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

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 072122 | 07/21/2025 | 08/07/2024 / jaswal | 09/18/2022 / bin | M5390 |

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

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57138 / Sr, 10000 PPM, 125 ml | 082922 | 08/29/2025 | 03/16/2023 / jaswal | 03/16/2023 / jaswal | M5473 |

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

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

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 08/15/2023 / jaswal | 03/17/2023 / bin | M5498 |

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 092122 | 09/21/2025 | 08/01/2024 / Jaswal | 03/17/2023 / bin | M5515 |

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026 | 08/28/2023 / jaswal | 08/25/2023 / jaswal | M5658 |

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

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58025 / Mn, 1000 PPM, 500 ml | 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. | 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 |

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# CHEMICAL RECEIPT LOG BOOK

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57014 / Si, 1000 PPM, 125 ml | 122023 | 12/20/2026 | 03/06/2024 / jaswal | 02/09/2024 / jaswal | M5818 |

| 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 |

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# CHEMICAL RECEIPT LOG BOOK

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57003 / Li, 1000 PPM, 125 ml | 061224 | 06/21/2027 | 07/01/2024 / Jaswal | 07/01/2024 / Jaswal | M5970 |

| 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 | CGIN10-5 / INDIUM 1 x 500 ml | U2-IN729349 | 02/21/2028 | 10/08/2024 / Jaswal | 06/14/2024 / Jaswal | M5985 |

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# CHEMICAL RECEIPT LOG BOOK

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

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL | T2-MEB721963 | 07/27/2027 | 09/04/2024 / Jaswal | 02/22/2024 / kareem | M5999 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 11/09/2026 | 08/05/2024 / Jaswal | 08/05/2024 / Jaswal | M6025 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6028 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025 | 11/13/2024 / Eman | 10/13/2024 / Eman | M6121 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 1403 / Hydrogen Peroxide, 30% 1 gal | 820803 | 05/25/2025 | 11/26/2024 / Eman | 11/22/2024 / Eman | M6125 |

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

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

INORGANIC VENTURES™
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# Certificate of Analysis

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

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

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

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

**Assay Information:**



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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 12, 2024

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

**11.2 Lot Expiration Date**

**- March 12, 2029**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Joseph Burns
Custom VS Manager



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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

***Certified Reference Material CRM***

M6028

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

R 8/5/24

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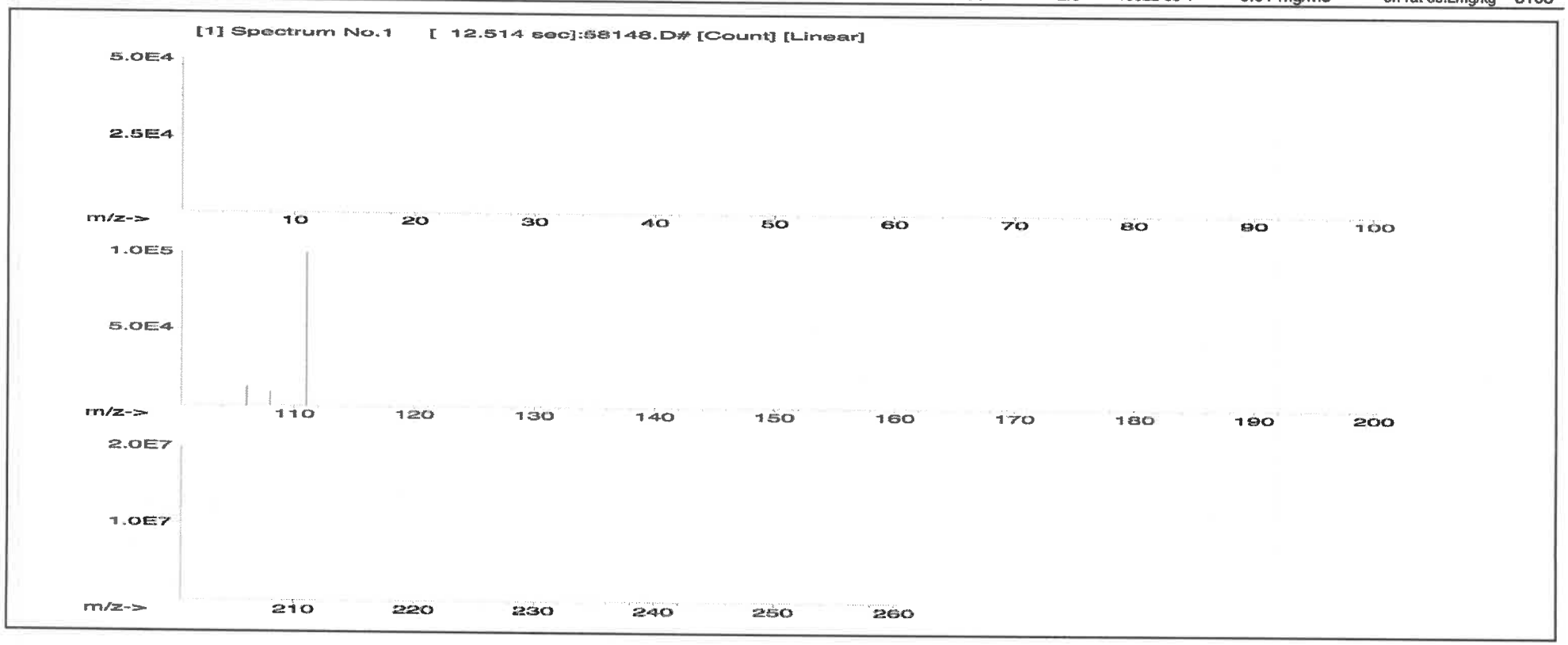
CERTIFIED WEIGHT REPORT:

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

Aleah O'Brady

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

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



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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

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

M5296 OP: 09/19/2022 BH

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-CLP-4 |
| Lot Number: | S2-MEB711673 |
| Matrix: | 3% (v/v) HNO3<br>3% (v/v) HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Boron, Molybdenum,<br>Silicon, Tin,<br>Titanium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| **Boron, B** | **1 000 ± 6 µg/mL** | **Molybdenum, Mo** | **1 000 ± 6 µg/mL** |
| **Silicon, Si** | **1 000 ± 7 µg/mL** | **Tin, Sn** | **1 000 ± 6 µg/mL** |
| **Titanium, Ti** | **1 000 ± 7 µg/mL** | | |

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

### Assay Information:

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

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



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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

## 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



INORGANIC VENTURES™
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# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

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

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES



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

**Density:** 1.118 g/mL (measured at 20 ± 4 ºC)

## Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cr | Calculated | | See Sec. 4.2 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 27, 2022

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

### 11.2 Lot Expiration Date

- **January 27, 2027**

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

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

### 11.3 Period of Validity

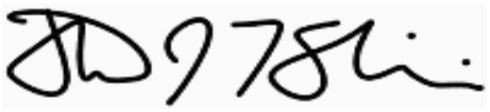
- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

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

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

### Assay Information:

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

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

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

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

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

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

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

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

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

$k$ = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

$k$ = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 13, 2022

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

### 11.2 Lot Expiration Date

- **January 13, 2027**

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

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

### 11.3 Period of Validity

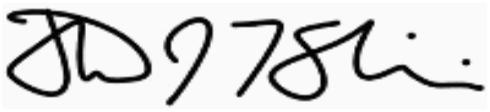
- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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

***Certified Reference Material CRM***

R: 8/5/24 M6025

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

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CERTIFIED WEIGHT REPORT:

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

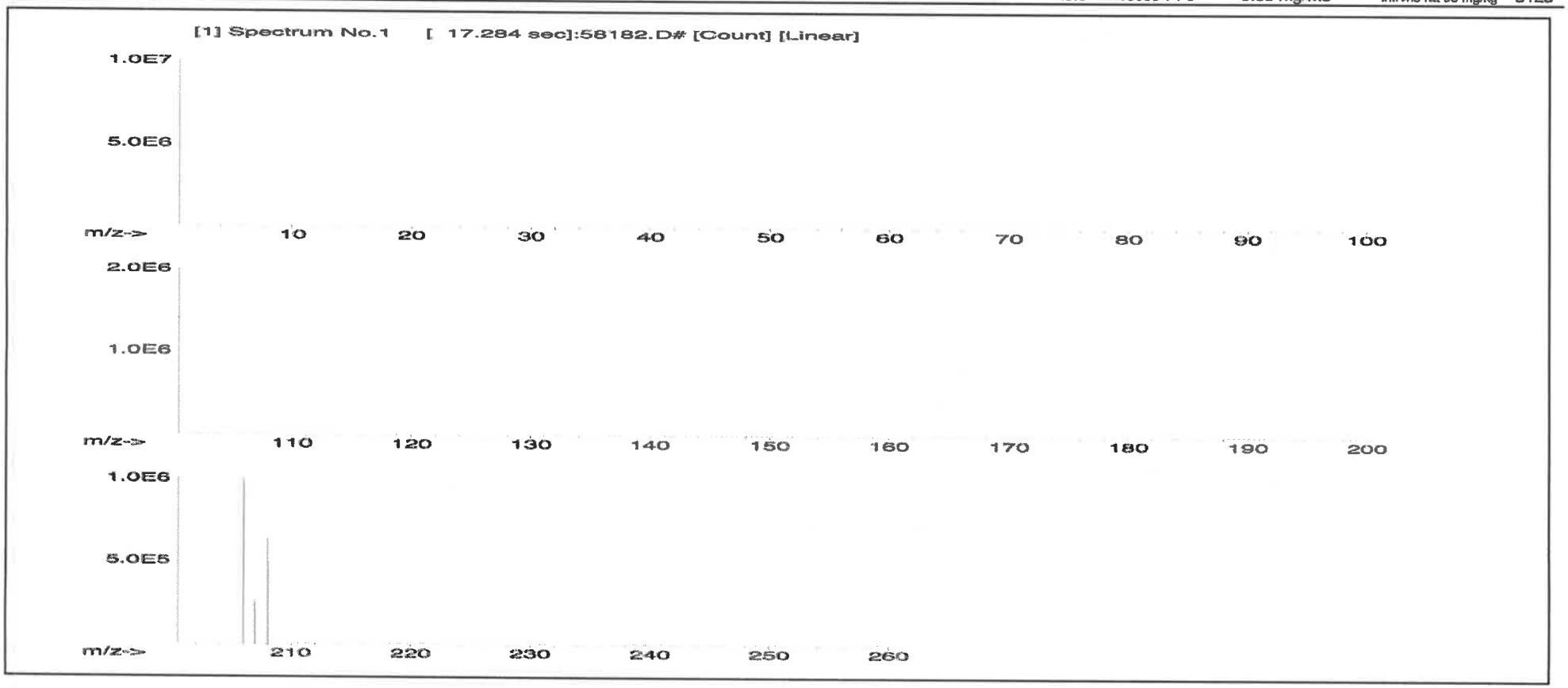
**Expiration Date:** 110926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawence Barry | 110923 |
| Reviewed By: | Pedro L. Rentas | 110923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

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

## QATS LABORATORY INORGANIC REFERENCE MATERIAL
## INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

### (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

### (B) *BREAKAGE OR MISSING ITEMS*

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

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

### (C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

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

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

**ICSB-0710, Analytes, mixed with ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v $HNO_3$. Analyze this ICSAB solution by ICP-AES.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710**

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

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-QC-4 |
| Lot Number: | S2-MEB711674 |
| Matrix: | 3% (v/v) HNO3<br>3% (v/v) HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Boron, Molybdenum,<br>Silicon, Tin,<br>Titanium |

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

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| **Boron, B** | **1 000 ± 7 µg/mL** | **Molybdenum, Mo** | **1 000 ± 5 µg/mL** |
| **Silicon, Si** | **1 000 ± 7 µg/mL** | **Tin, Sn** | **1 000 ± 5 µg/mL** |
| **Titanium, Ti** | **1 001 ± 6 µg/mL** | | |

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

### Assay Information:

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

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

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

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

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

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

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

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

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

**k** = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

**k** = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

November 02, 2021

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

### 11.2 Lot Expiration Date

- **November 02, 2026**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director





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

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

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

### (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

### (B) *BREAKAGE OR MISSING ITEMS*

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

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**APTIM Federal Services, LLC**
**2700 Chandler Avenue - Building C**
**Las Vegas, NV 89120**

### (C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,





Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

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

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

**ICSB-0710, Analytes, mixed with ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v $HNO_3$. Analyze this ICSAB solution by ICP-AES.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710**

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

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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M5289 R: 07/12/22 (BH)

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CERTIFIED WEIGHT REPORT:

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

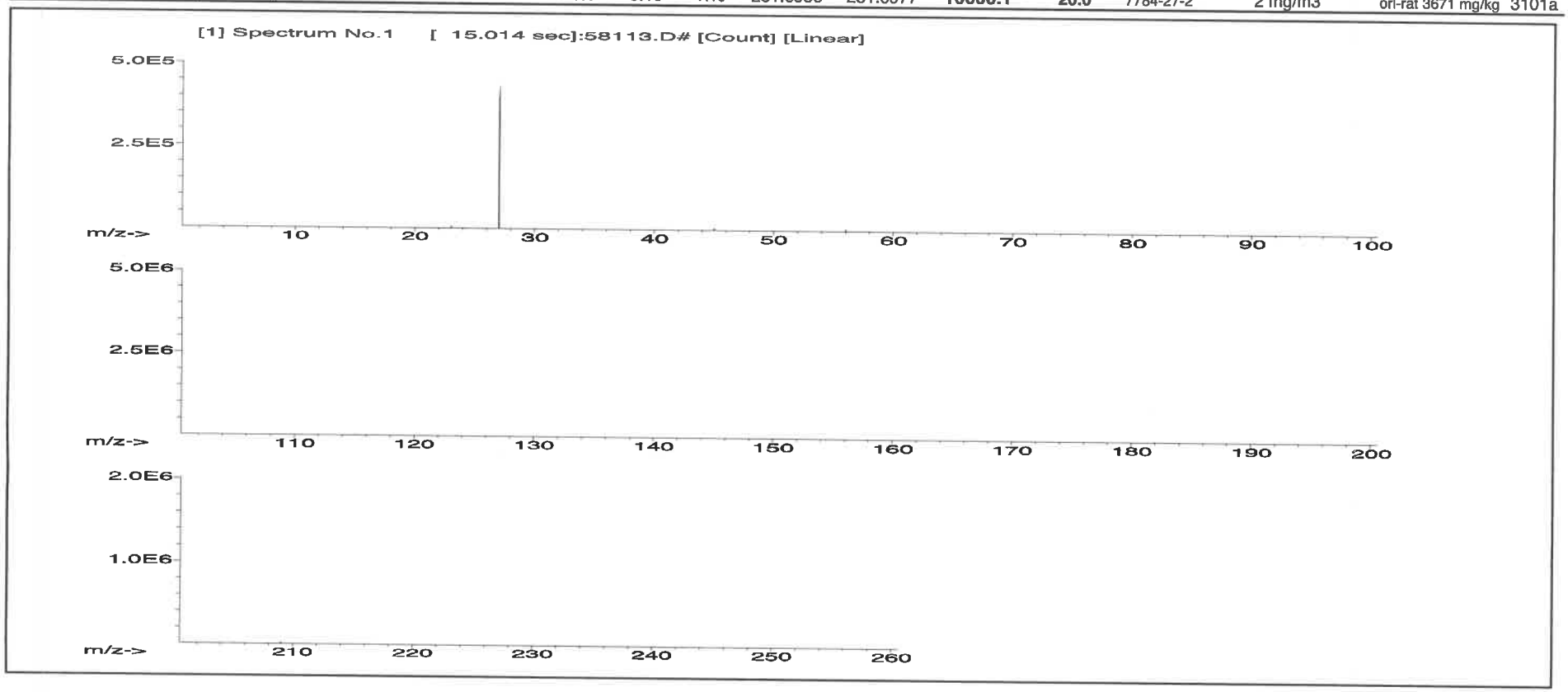
**Expiration Date:** 070625
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02 ± 0.058 Flask Uncertainty

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 20370011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

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

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



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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

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

## QATS LABORATORY INORGANIC REFERENCE MATERIAL
## INITIAL CALIBRATION VERIFICATION SOLUTIONS
## (ICV1, ICV5, AND ICV6)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

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

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

### (A) *SAMPLE DESCRIPTION*

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

### (B) *BREAKAGE OR MISSING ITEMS*

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

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

### (C) *ANALYSIS OF SAMPLES*

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

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

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

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

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

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

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

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

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

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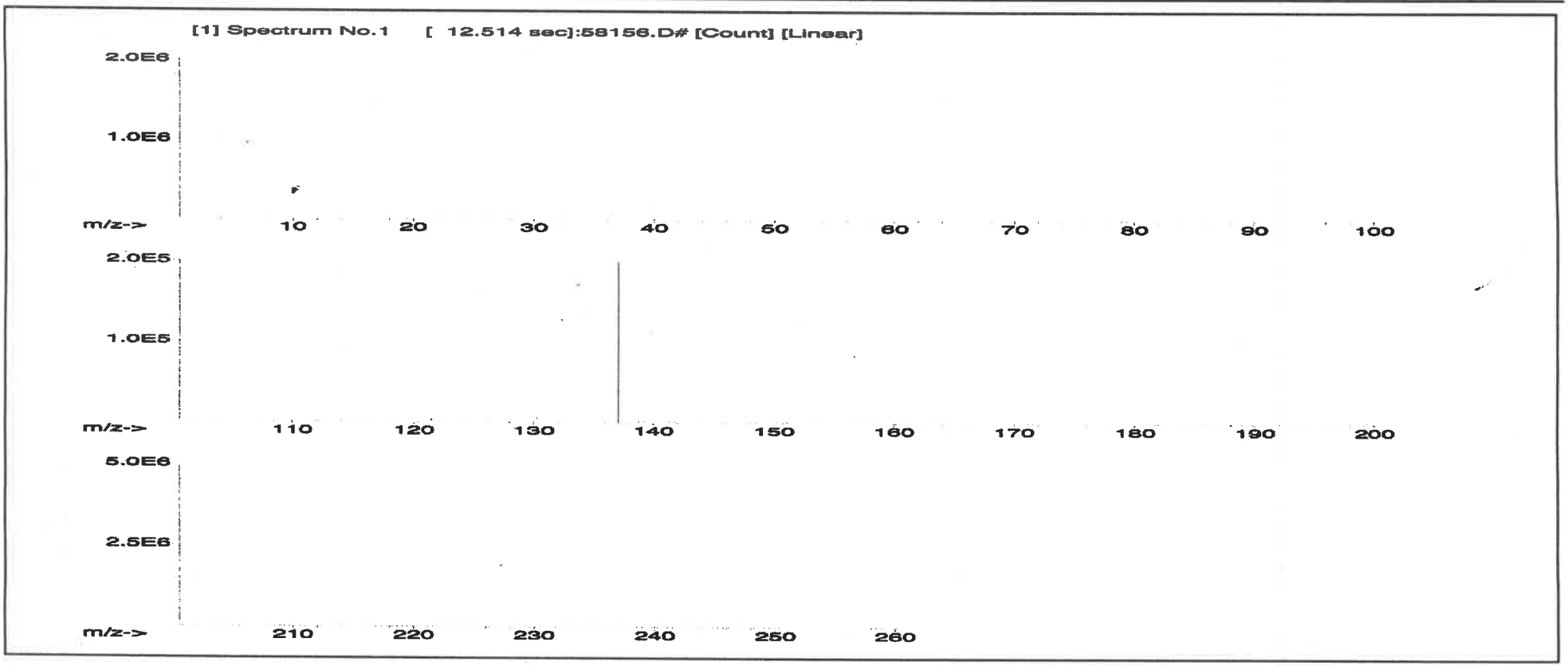
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57056** | | **Lot #** | | |
| **Lot Number:** | **072122** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Barium (Ba)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072125 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 072122 |
| Reviewed By: | Pedro L. Rentas | 072122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Barium nitrate (Ba) | IN023 | BAD022019A1 | 1000 | 99.999 | 0.10 | 52.3 | 3.82417 | 3.82426 | **1000.0** | **2.0** | 10022-31-8 | 0.5 mg/m3 | orl-rat 355 mg/kg | 3104a |



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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

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

T1297

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CERTIFIED WEIGHT REPORT:

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

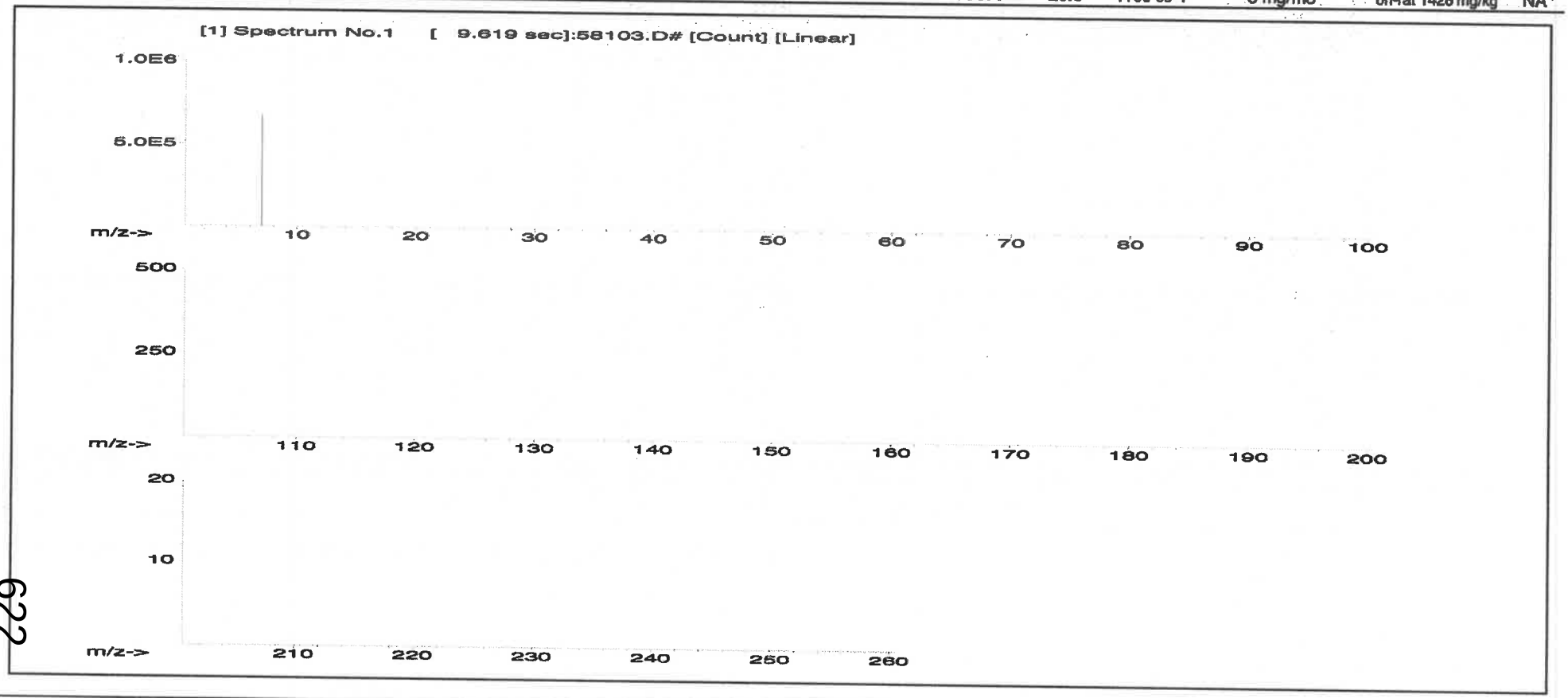
**Expiration Date:** 070625
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 1000.12

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

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

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

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




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

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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

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

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IN5497 - IN5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

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

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

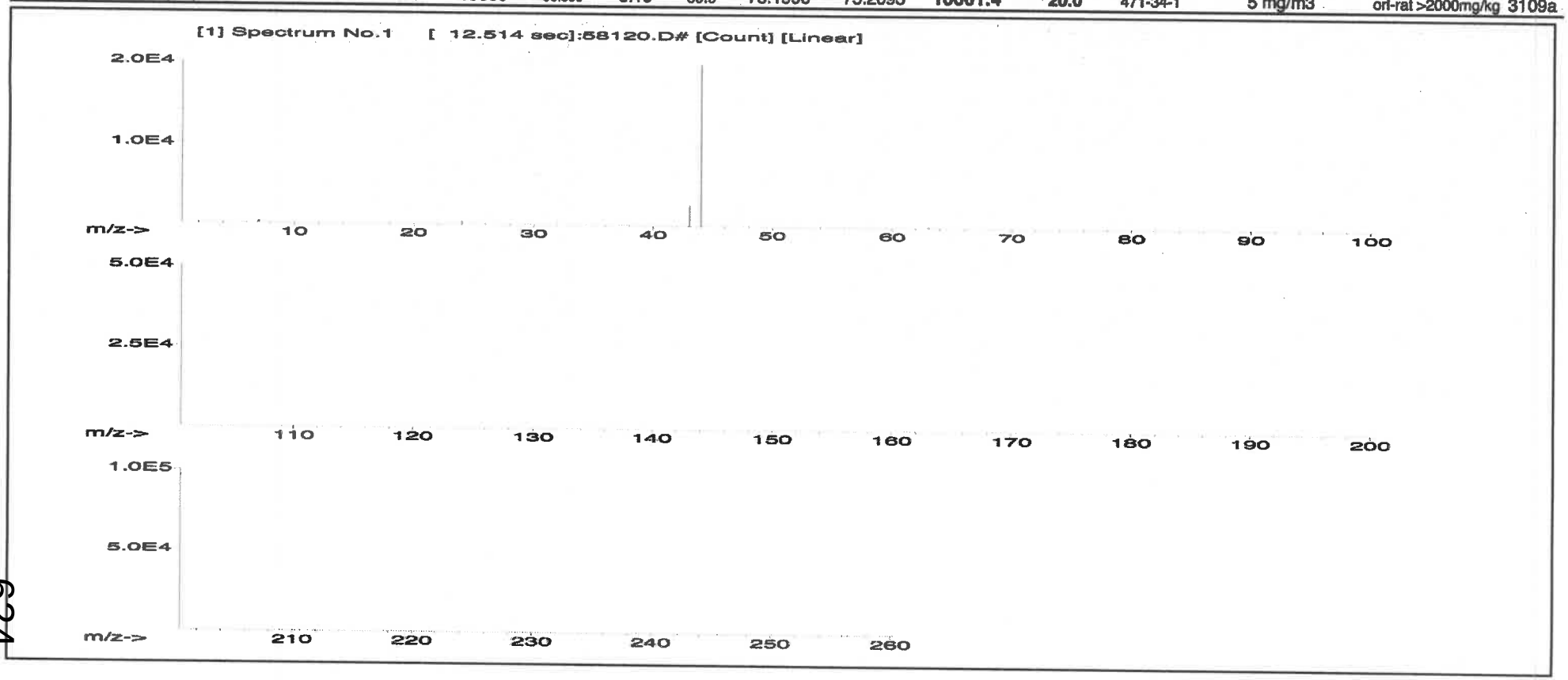
| | Lot # | |
|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid |
| 2% | 60.0 (mL) | Nitric Acid |

5E-05 Balance Uncertainty

Giovanni Esposito

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

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




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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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



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

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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

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

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

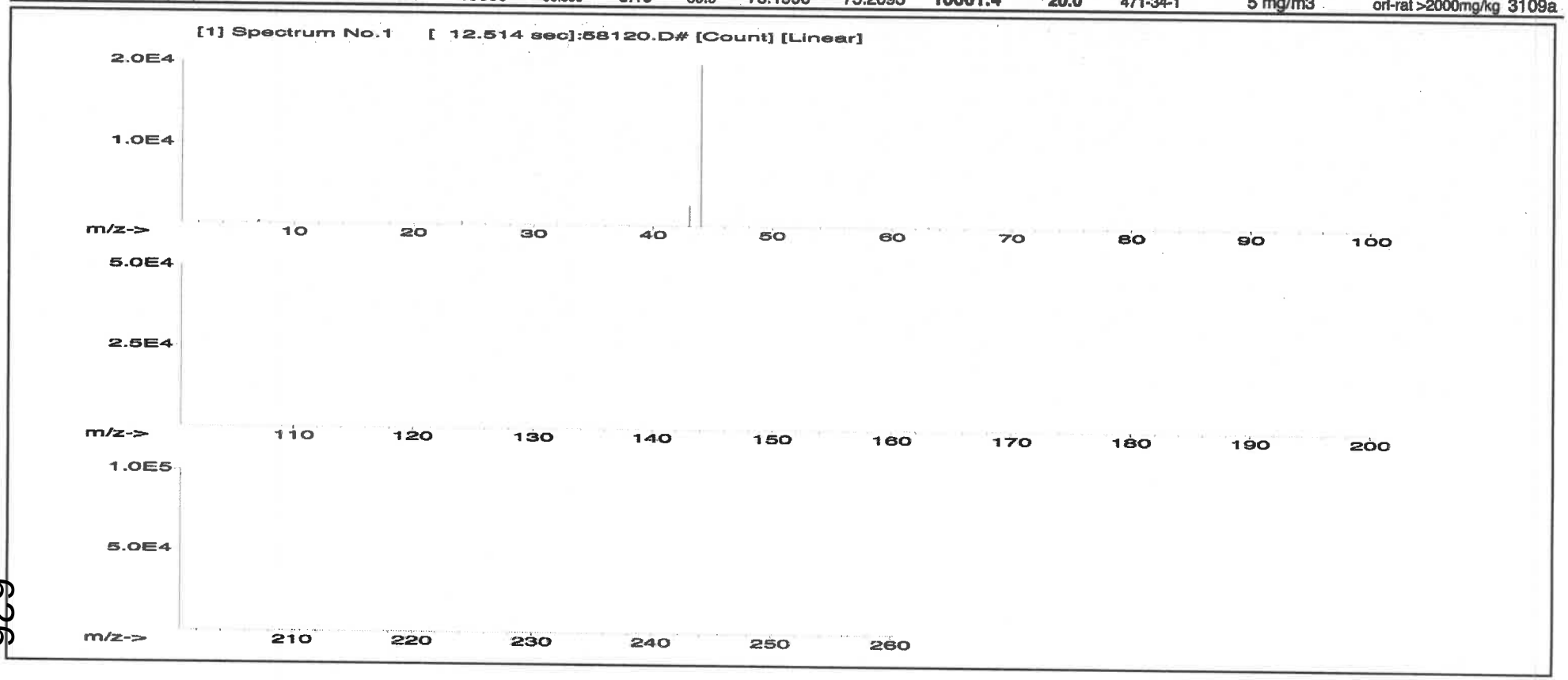
| | Lot # | |
|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid |
| 2% | 60.0 (mL) | Nitric Acid |

5E-05 Balance Uncertainty

Giovanni Esposito

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

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




626

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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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

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MA513 R:03/17/23 BR

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CERTIFIED WEIGHT REPORT:

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

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

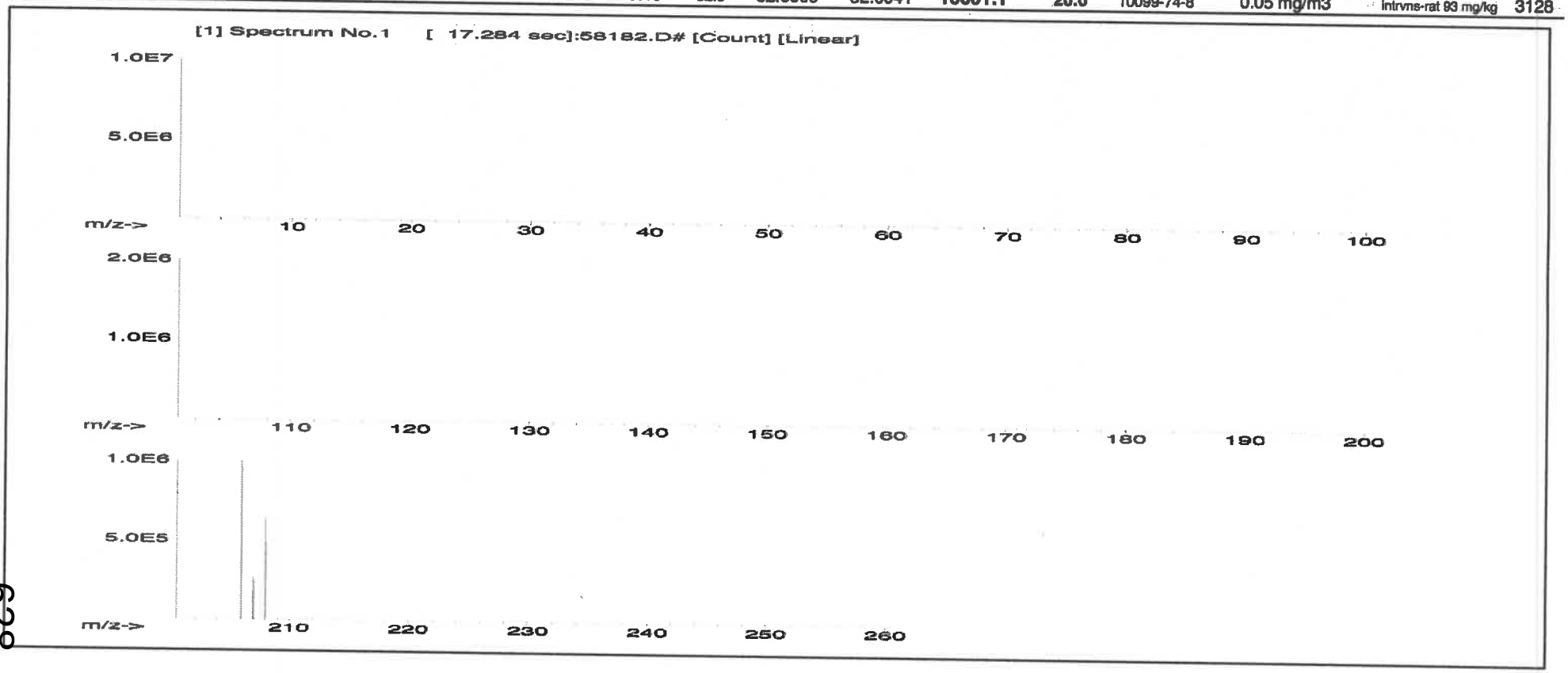
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

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

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




628

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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

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

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630

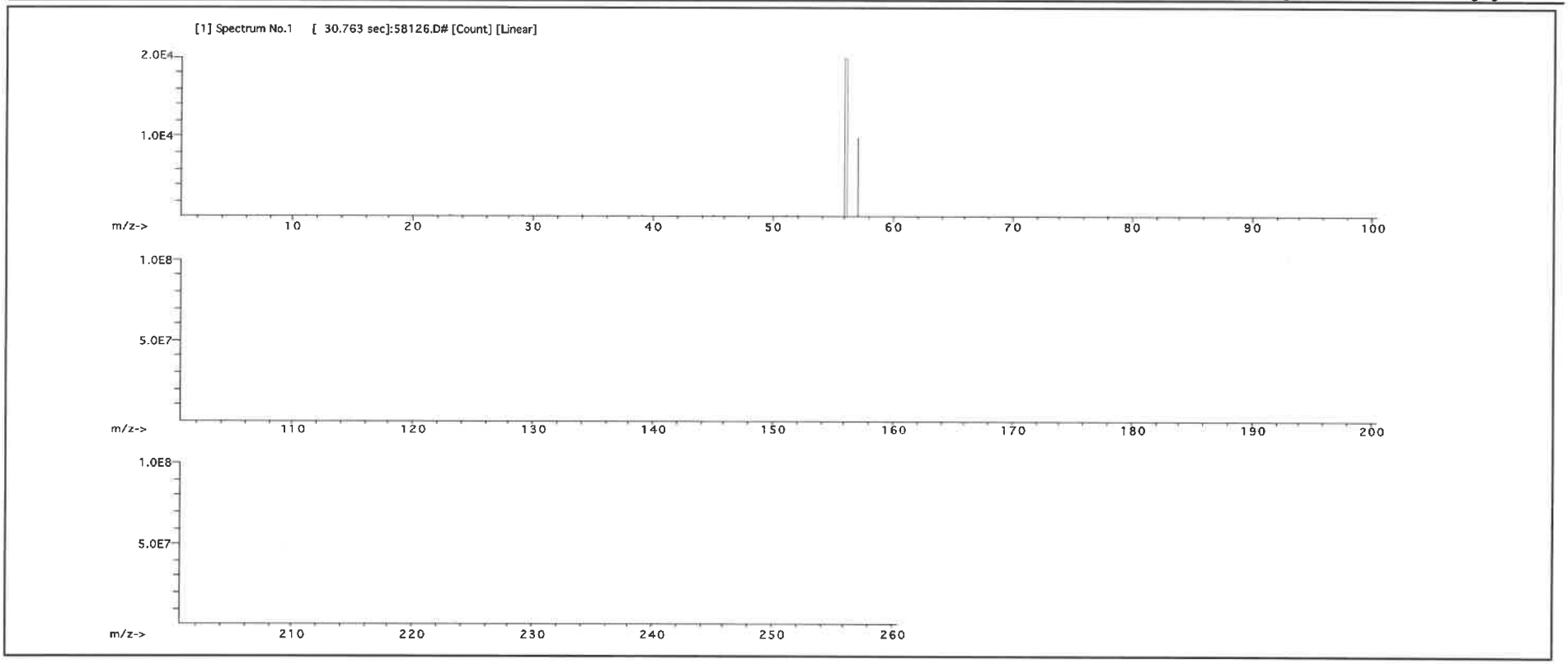
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58126** | | **Lot #** | | |
| **Lot Number:** | **092122** | | **Solvent:** | 20510011 | Nitric Acid |
| **Description:** | **Iron (Fe)** | | 7.0% | 350.0 (mL) | Nitric Acid |
| **Expiration Date:** | 092125 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 5000.1 | 0.12 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 092122 |
| Reviewed By: | Pedro L. Rentas | 092122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2224912-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |



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

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.10 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.10 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.05 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.05 |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**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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632

CERTIFIED WEIGHT REPORT:

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

**Expiration Date:** 120825
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.4

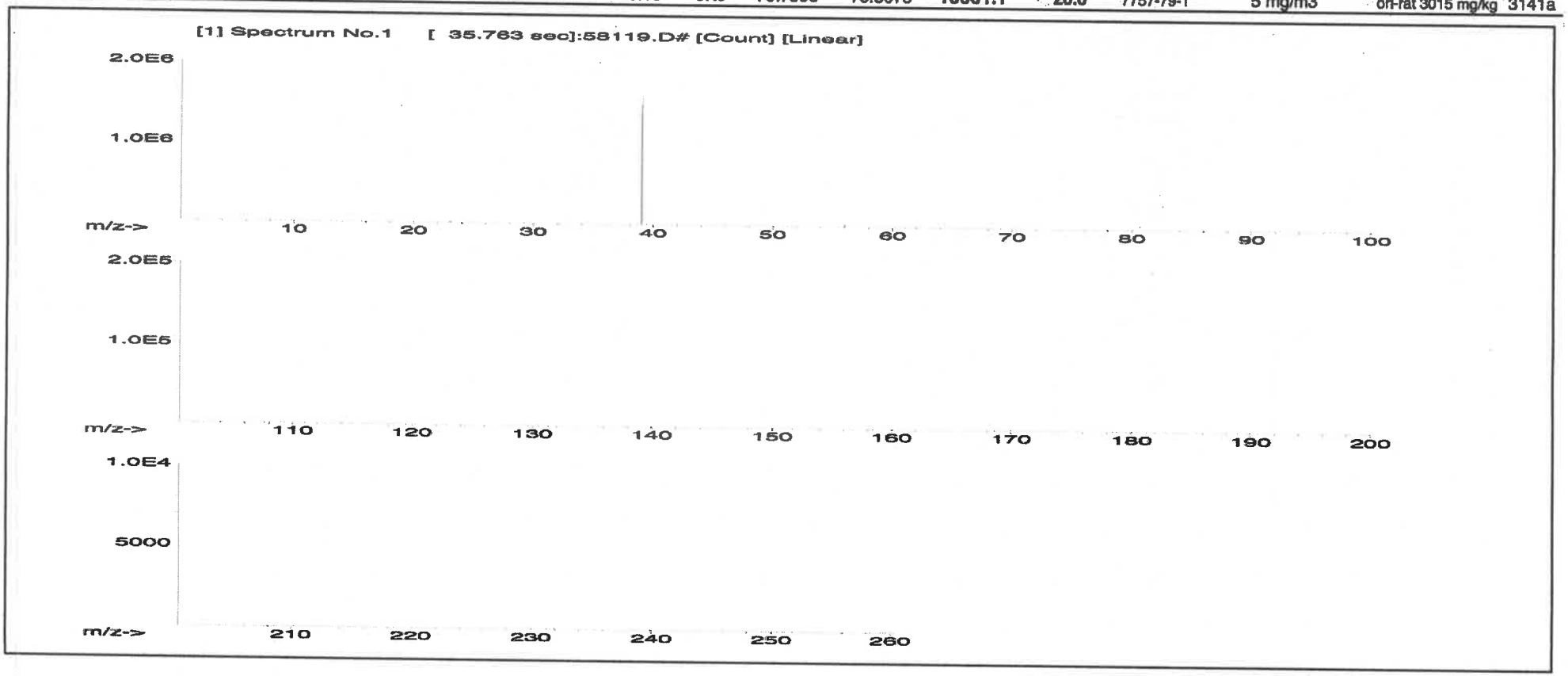
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 120822

Pedro Rentas
Reviewed By: Pedro L. Rentas 120822

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



633

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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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M5658 R ! 8/25/23

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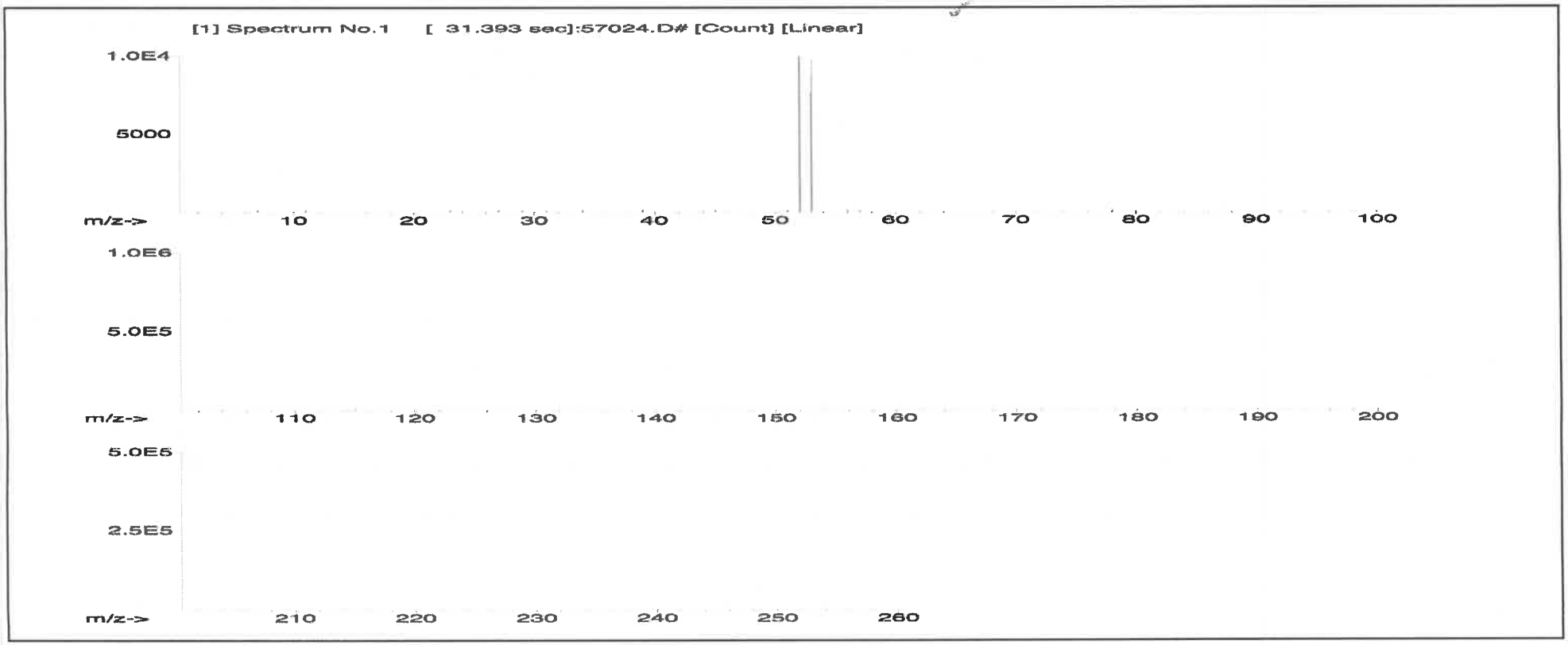
634

CERTIFIED WEIGHT REPORT:

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

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

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



635

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

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

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M5697 R: 10/27/23

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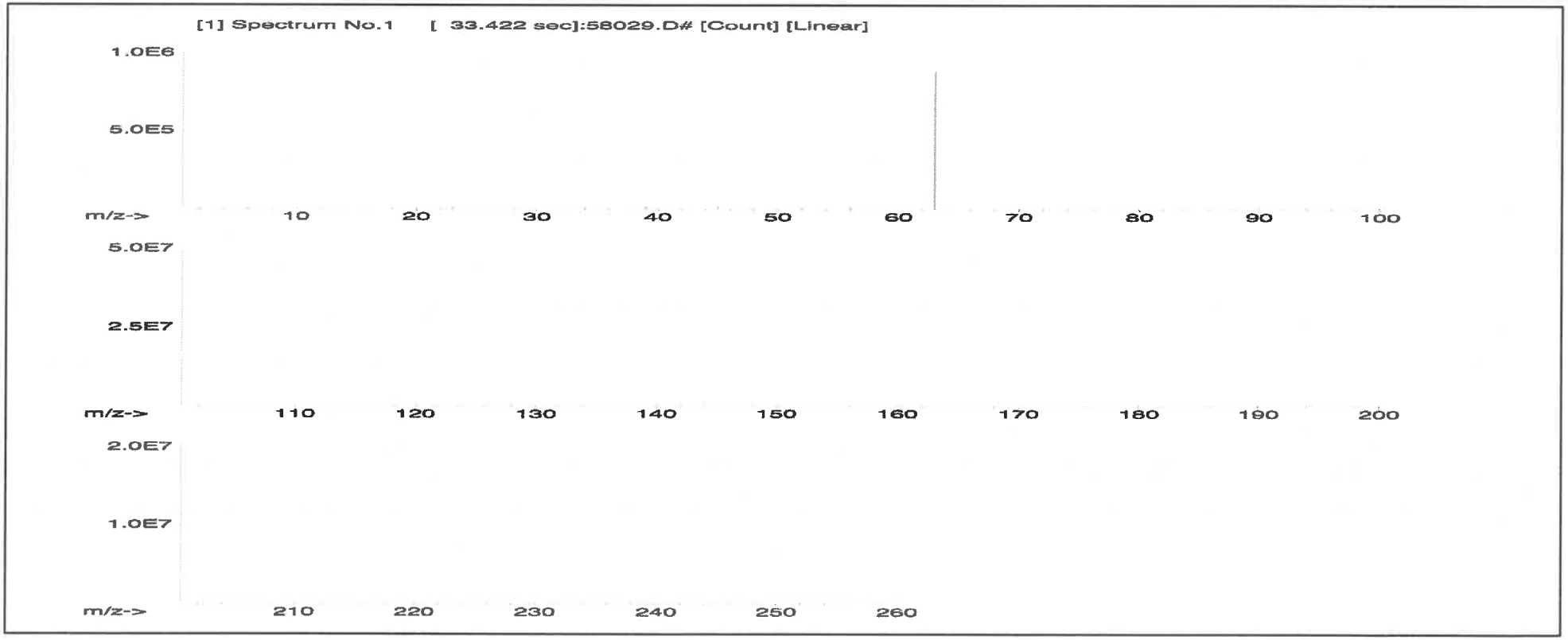
636

CERTIFIED WEIGHT REPORT:

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

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Copper(II) nitrate trihydrate (Cu) | 58129 | 100223 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 10031-43-3 | 1 mg/m3 | orl-rat 794 mg/kg | 3114 |



637

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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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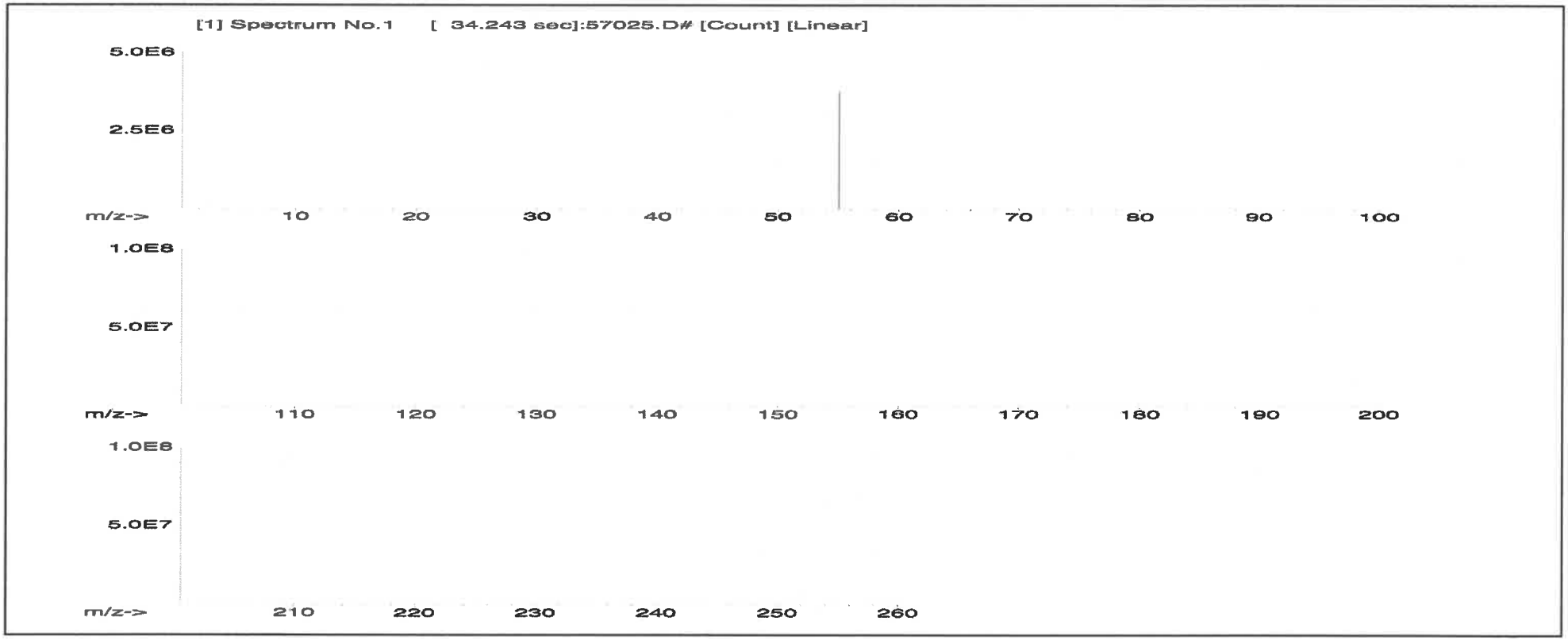
638

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58025** | 24002546 | Nitric Acid | |
| **Lot Number:** | **102623** | | | |
| **Description:** | **Manganese (Mn)** | | | |
| | | 2.0% | 60.0 (mL) | Nitric Acid |
| **Expiration Date:** | 102626 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 3000.41 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102623 |
| Reviewed By: | Pedro L. Rentas | 102623 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Manganese(II) nitrate tetrahydrate (Mn) | 58125 | 071123 | 0.1000 | 300.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.1** | 20694-39-7 | 5 mg/m3 | orl-rat >300mg/kg | 3132 |



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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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

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M5768 M5769 (BP) R:1/3/24

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58112
**Lot Number:** 091823
**Description:** Magnesium (Mg)

**Expiration Date:** 091826
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02 0.058 Flask Uncertainty

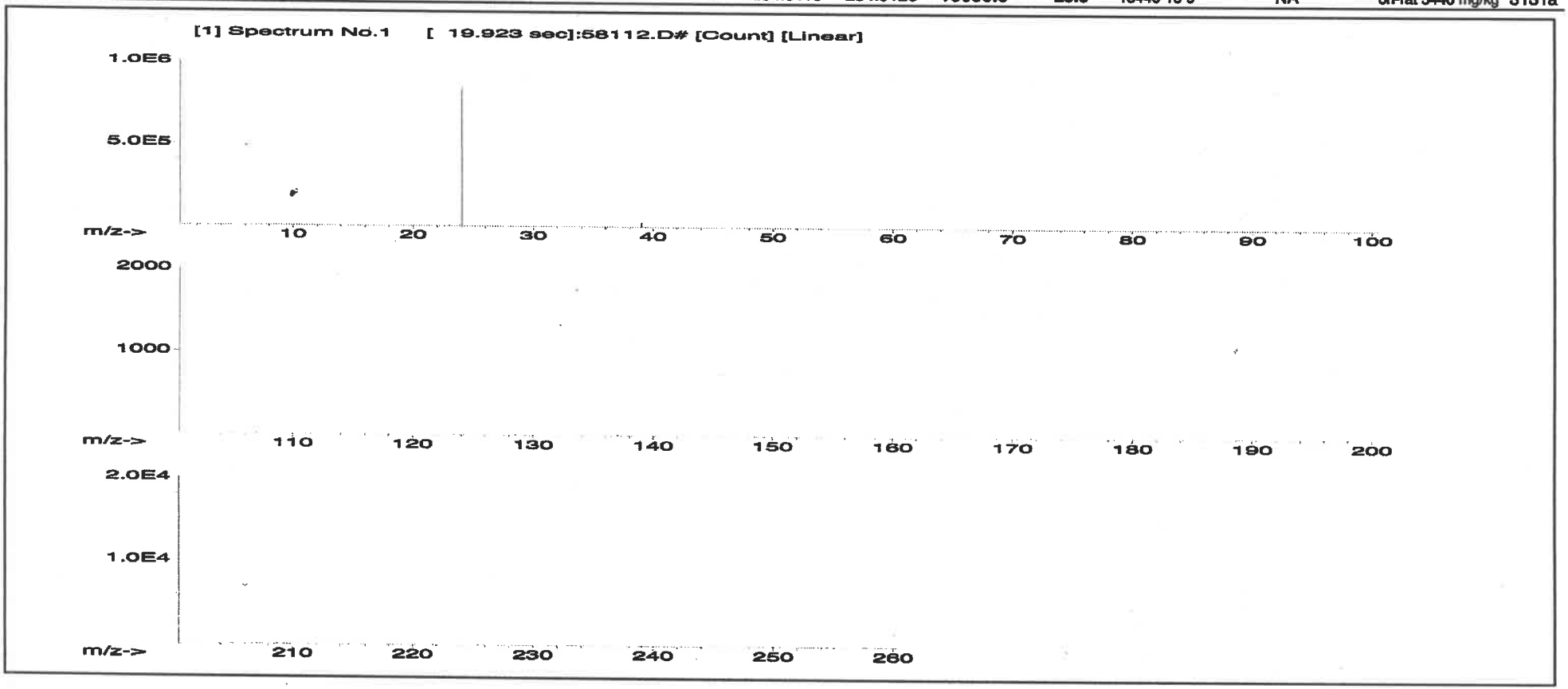
| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| | 2% | 40.0 (mL) | Nitric Acid |

5E-05 Balance Uncertainty

M5768, M5769 (BP) R: 1/3/24

Formulated By: Lawrence Barry 091823
Reviewed By: Pedro L. Rentas 091823

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9118 | 234.9126 | **10000.0** | **20.0** | 13446-18-9 | NA | ori-rat 5440 mg/kg | 3131a |



641

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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

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

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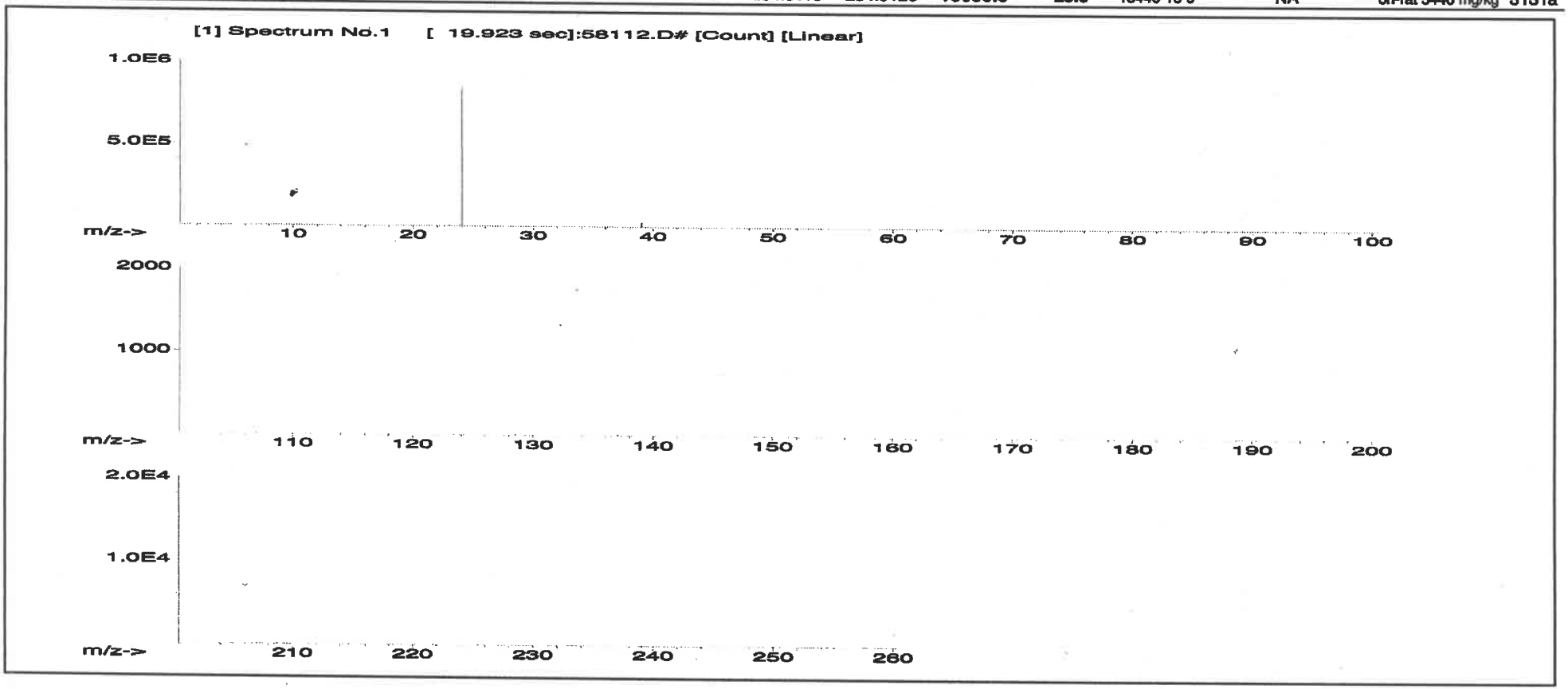
642

CERTIFIED WEIGHT REPORT:

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **58112** | **Solvent:** | 24002546 | Nitric Acid |
| **Lot Number:** | **091823** | | | |
| **Description:** | **Magnesium (Mg)** | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 091826 | | | |
| **Recommended Storage:** | Ambient (20 °C) | M5768, M5769 (BP) R: 1/3/24 | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 091823 |
| Reviewed By: | Pedro L. Rentas | 091823 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9118 | 234.9126 | **10000.0** | **20.0** | 13446-18-9 | NA | orl-rat 5440 mg/kg | 3131a |



643

**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.
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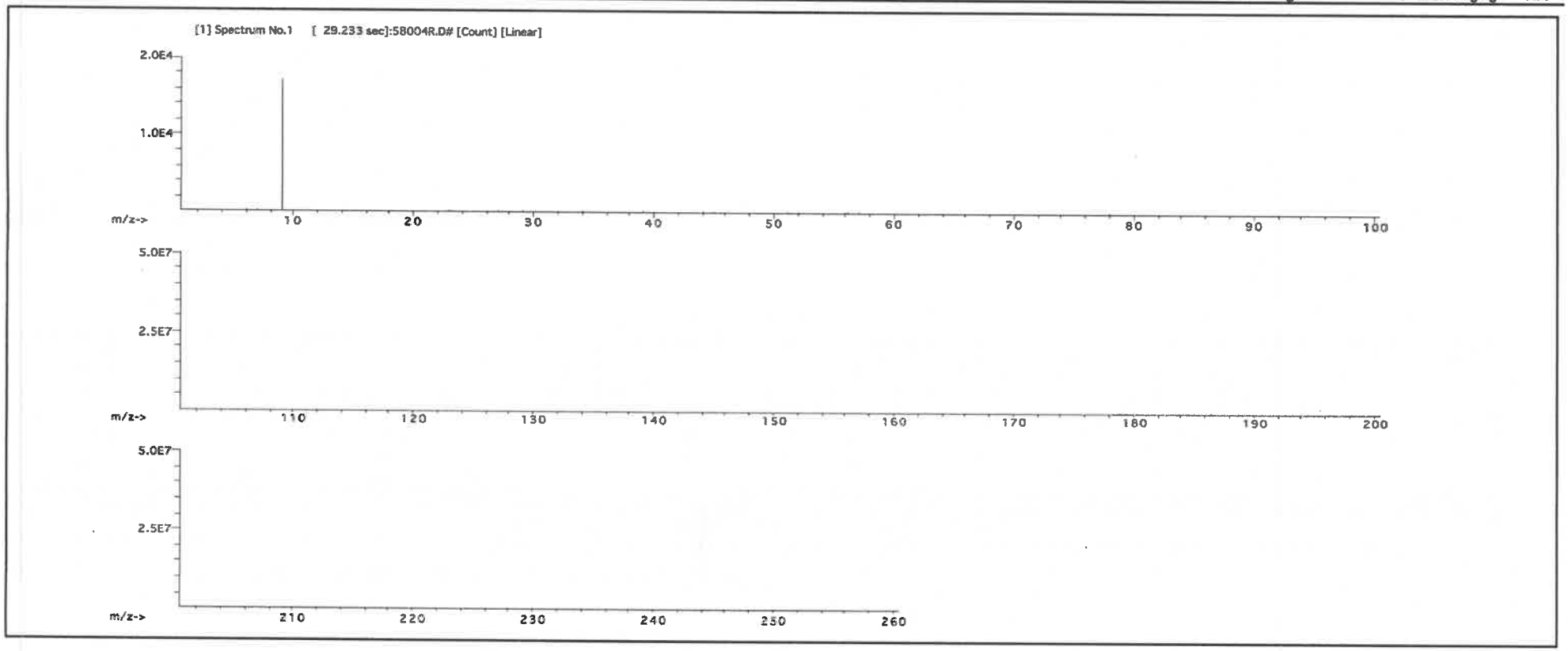
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## CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57004** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **102523** | | | | |
| **Description:** | **Beryllium (Be)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 102526 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13597-99-4 | 0.2ug/m3 | intrvns-rat 3.16mg/kg | NA |



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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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R? 02/09/24 IV15799 (BA)

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646

**CERTIFIED WEIGHT REPORT:**

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

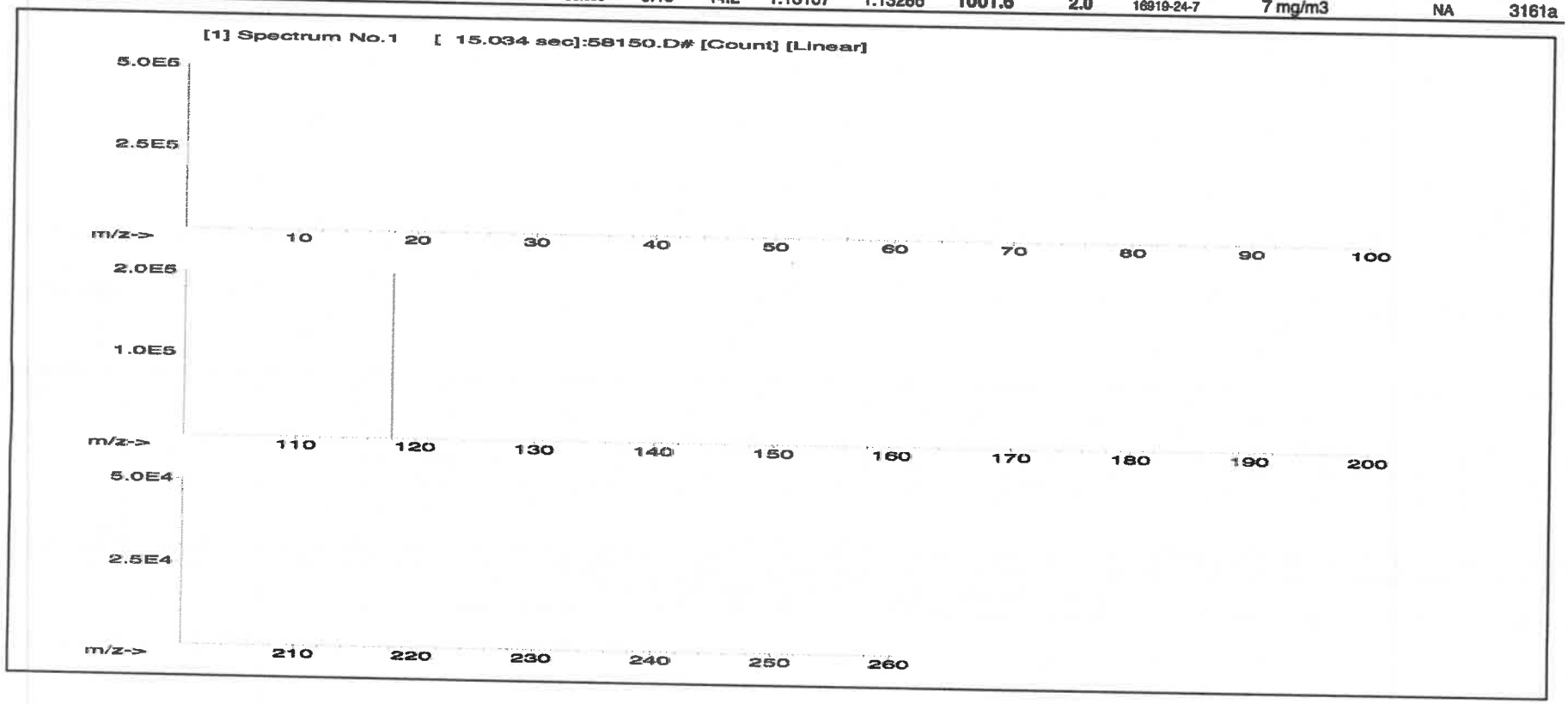
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | Lot # | |
|---|---|---|
| **Solvents:** | 21110221 | Nitric Acid |
| | 22D0562008 | Hydrochloric acid |
| 2% | 10.0 | Nitric Acid |
| 6% | 30.0 | Hydrochloric acid |
| | (mL) | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 071123 |
| Reviewed By: | Pedro L. Rentas | 071123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorostannate(IV) (Sn) | IN010 | SND042023A1 | 1000 | 99.999 | 0.10 | 44.2 | 1.13107 | 1.13286 | **1001.6** | **2.0** | 16919-24-7 | 7 mg/m3 | NA | 3161a |



647

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

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | T | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

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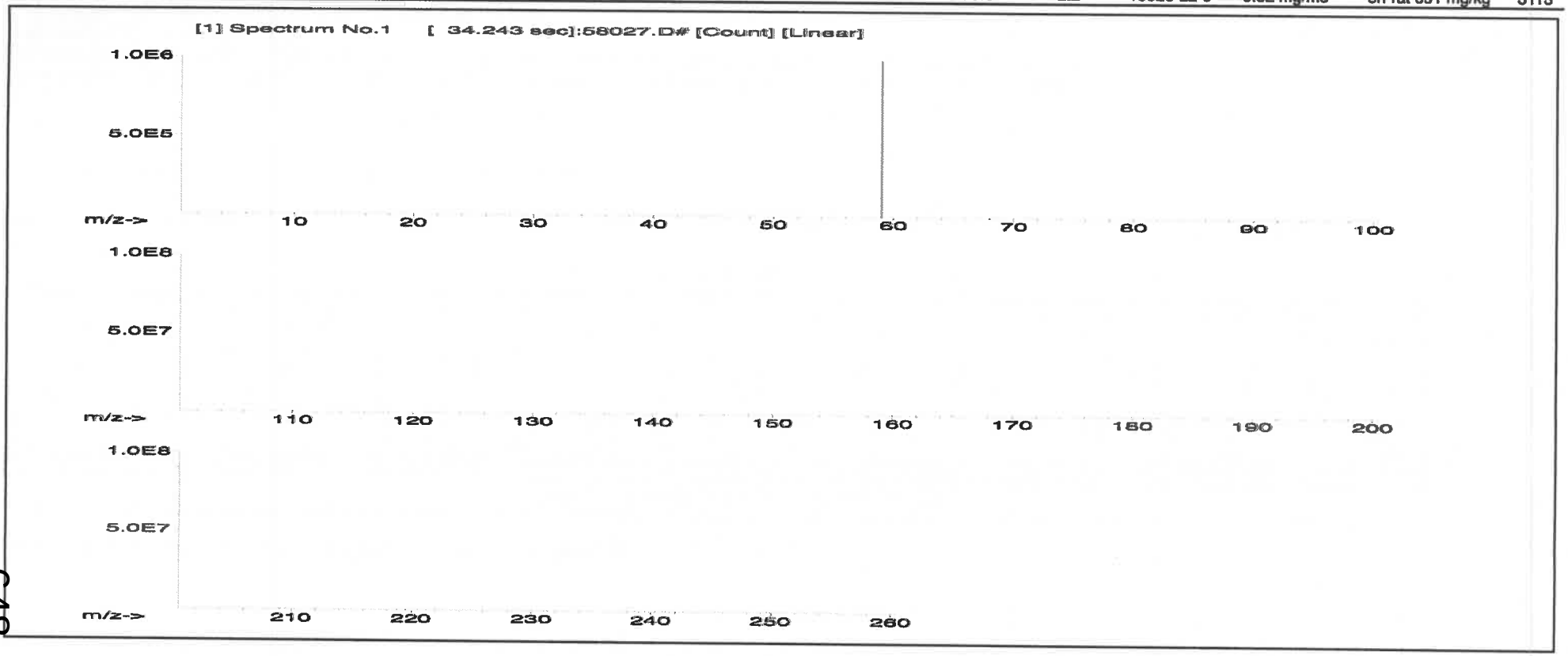
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57027** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **091923** | | | | |
| **Description:** | **Cobalt (Co)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091926 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cobalt(II) nitrate hexahydrate (Co) | 58127 | 050923 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.0 | **1000.0** | **2.2** | 10026-22-9 | 0.02 mg/m3 | orl-rat 691 mg/kg | 3113 |




648

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* 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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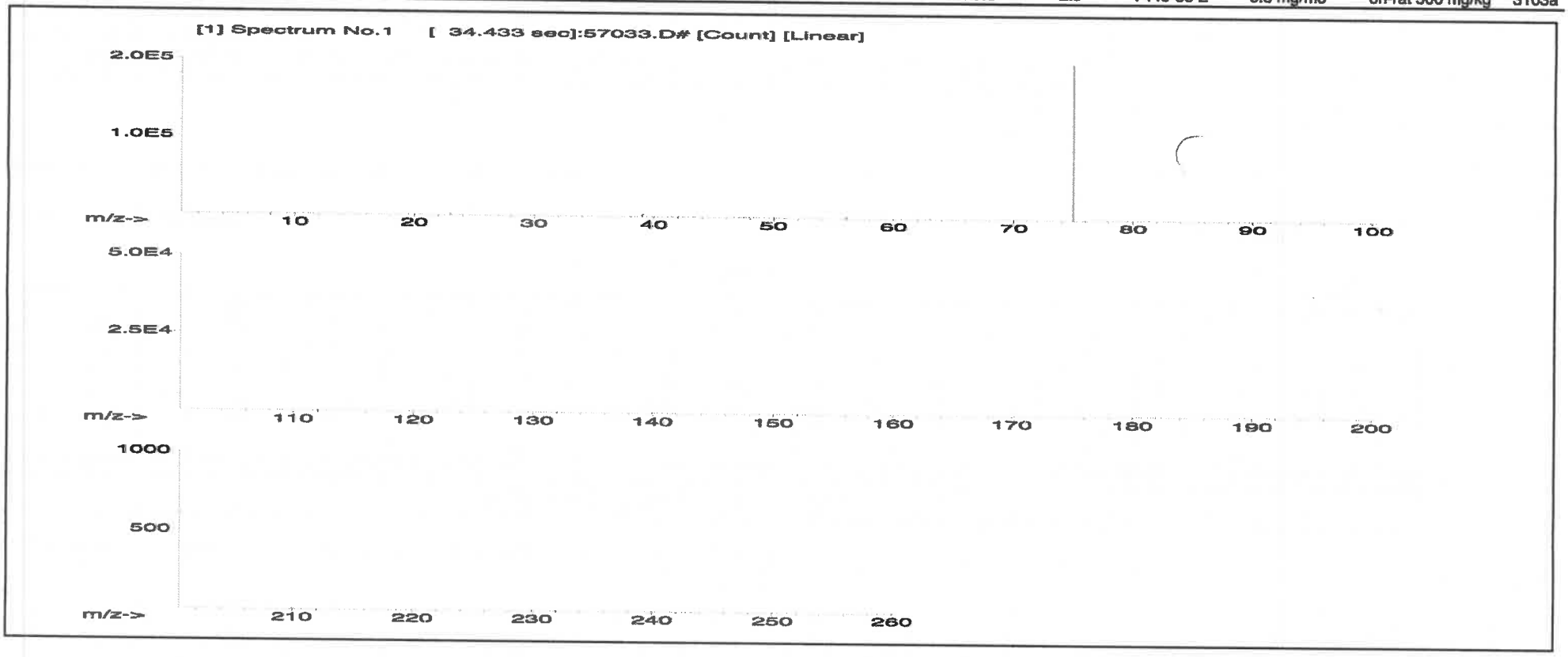
650

CERTIFIED **WEIGHT** REPORT:

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

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

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



651

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

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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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

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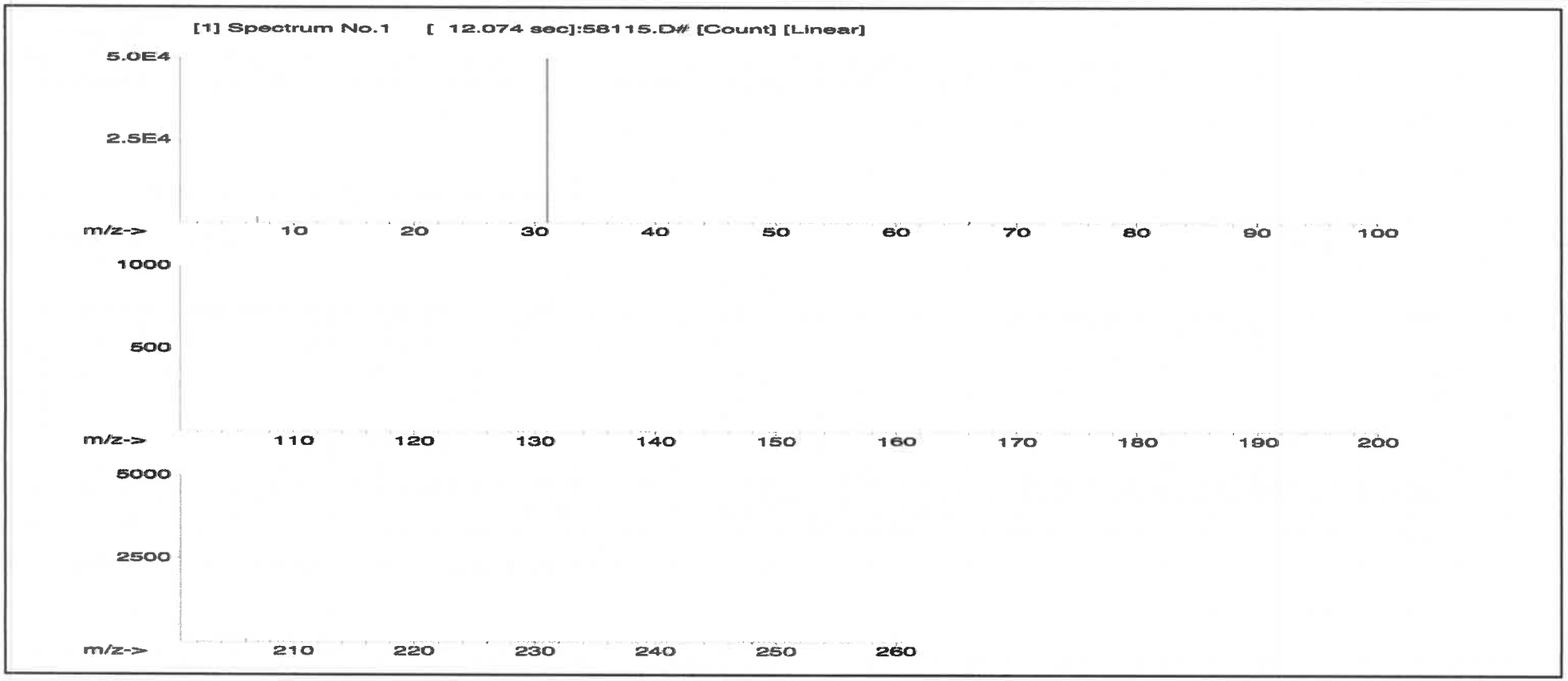
652

CERTIFIED WEIGHT REPORT:

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **57115** | **Solvent:** | 21110221 | Nitric Acid |
| **Lot Number:** | **041723** | | | |
| **Description:** | **Phosphorous (P)** | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 041726 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 041723 |
| Reviewed By: | Pedro L. Rentas | 041723 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 10000 | 99.999 | 0.10 | 27.5 | 72.7287 | 72.7289 | **10000.0** | **20.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3186 |



653

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

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

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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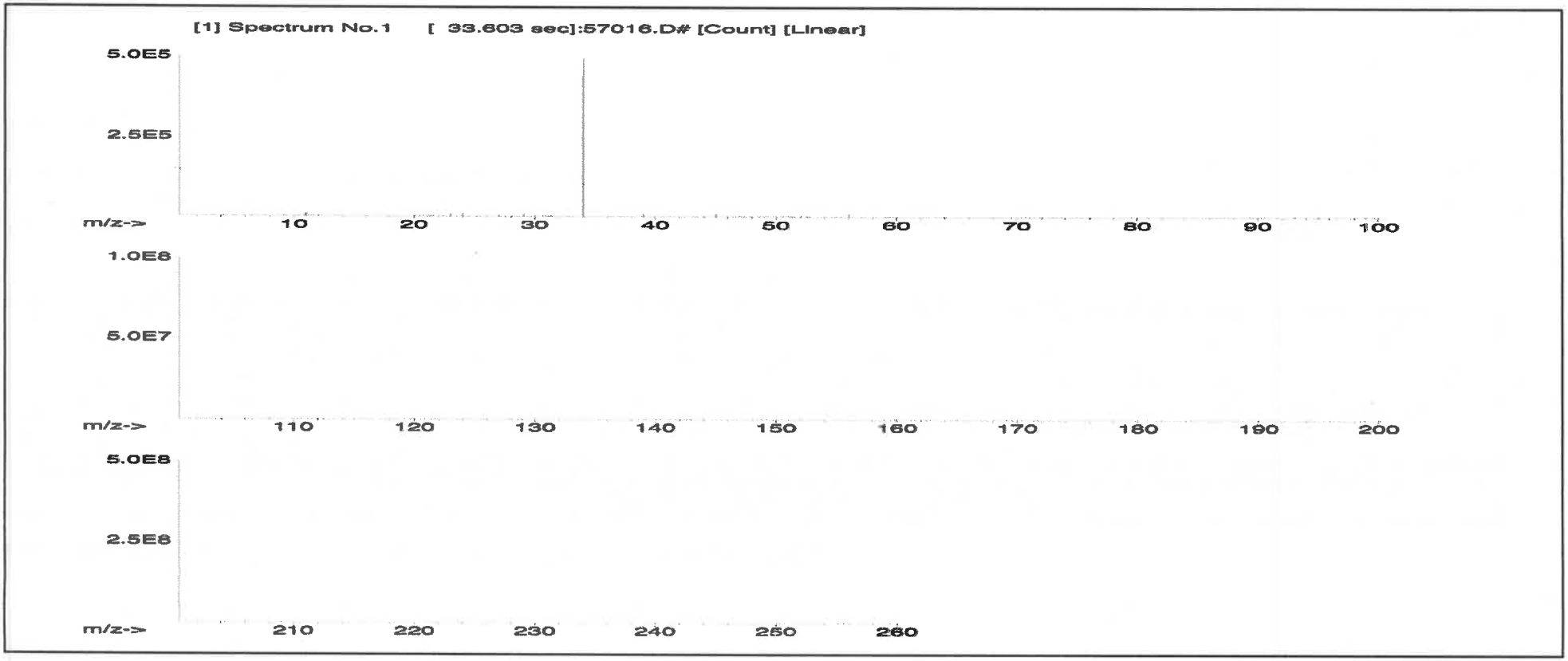
654

CERTIFIED WEIGHT REPORT:

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **57016** | **Solvent:** | **Lot #** 122923 | ASTM Type 1 Water |
| **Lot Number:** | **122923** | | | |
| **Description:** | **Sulfur (S)** | | | |
| **Expiration Date:** | 122926 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122923 |
| Reviewed By: | Pedro L. Rentas | 122923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 1000 | 99.9 | 0.10 | 24.3 | 16.4979 | 16.4980 | **1000.0** | **2.0** | 7783-20-2 | NA | orl-rat 4250mg/kg | 3181 |



655

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

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

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959

CERTIFIED WEIGHT REPORT:

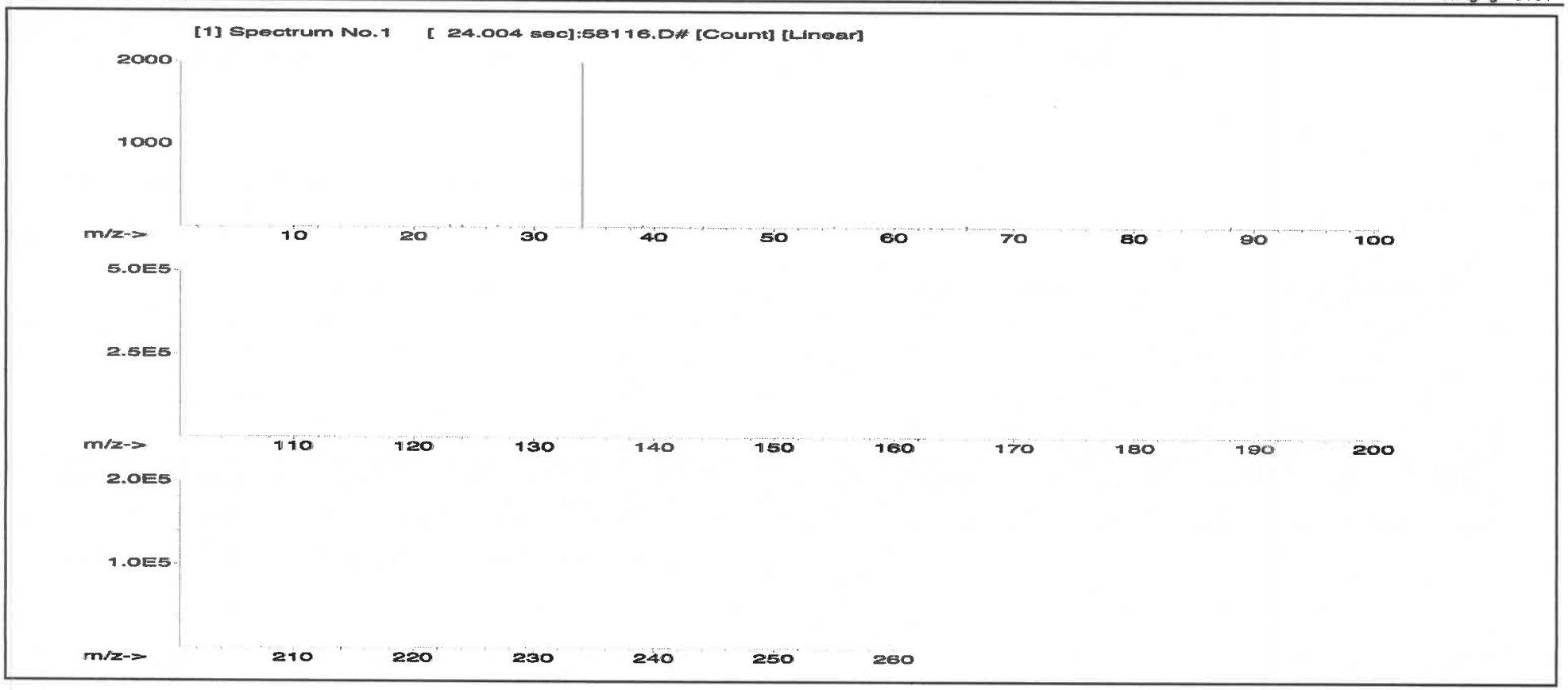
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

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

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

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

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



657

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

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

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

(T)= Target analyte

**Physical Characterization:**

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

Certified by:

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

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 57014
**Lot Number:** 122023
**Description:** Silicon (Si)

**Expiration Date:** 122026
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 1999.48 0.058 Flask Uncertainty

**Solvent:** 24002546 Nitric Acid

5E-05 Balance Uncertainty

2% 40.0 (mL) Nitric Acid

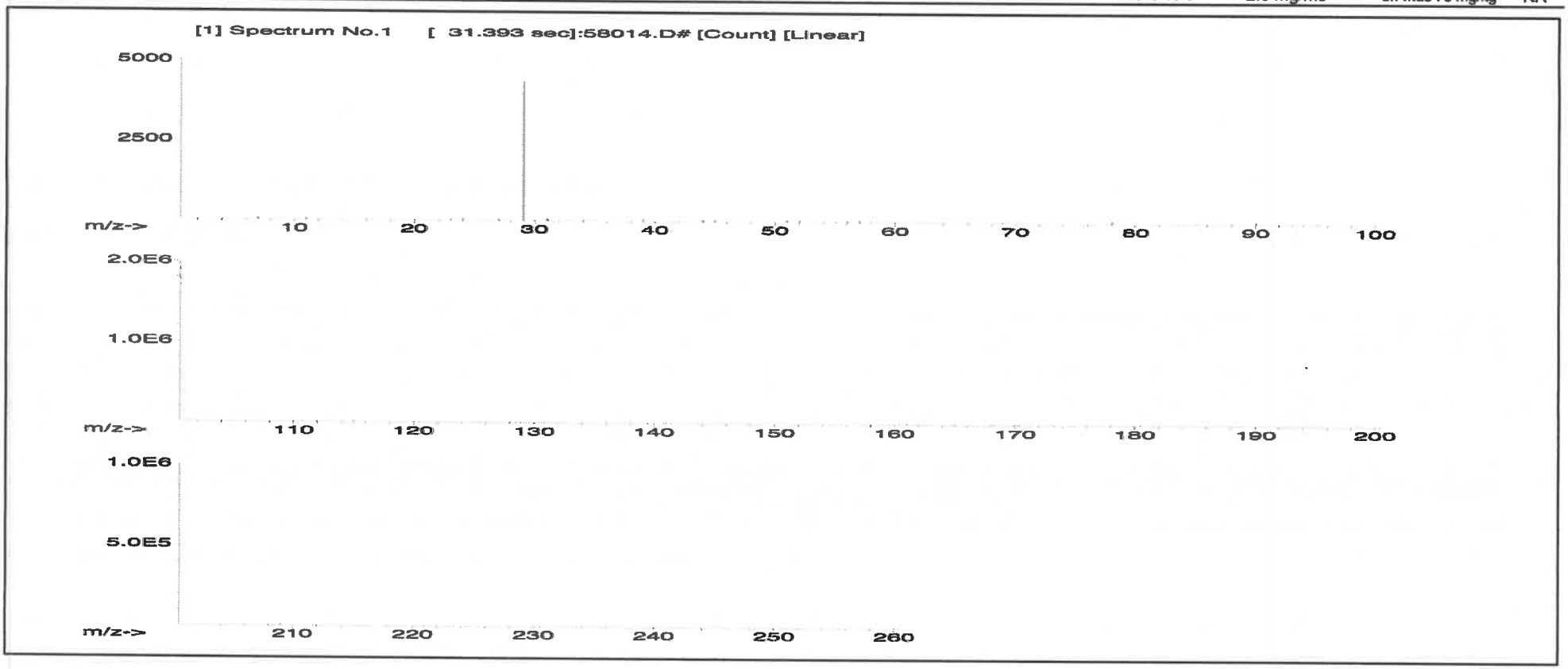
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorosilicate (Si) | IN009 | SID082022A1 | 1000 | 99.999 | 0.10 | 14.4 | 13.8854 | 13.8855 | **1000.0** | **2.0** | 16919-19-0 | 2.5 mg/m3 | orl-mus 70 mg/kg | NA |



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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

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

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58030
**Lot Number:** 111623
**Description:** Zinc (Zn)

**Expiration Date:** 111626
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

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

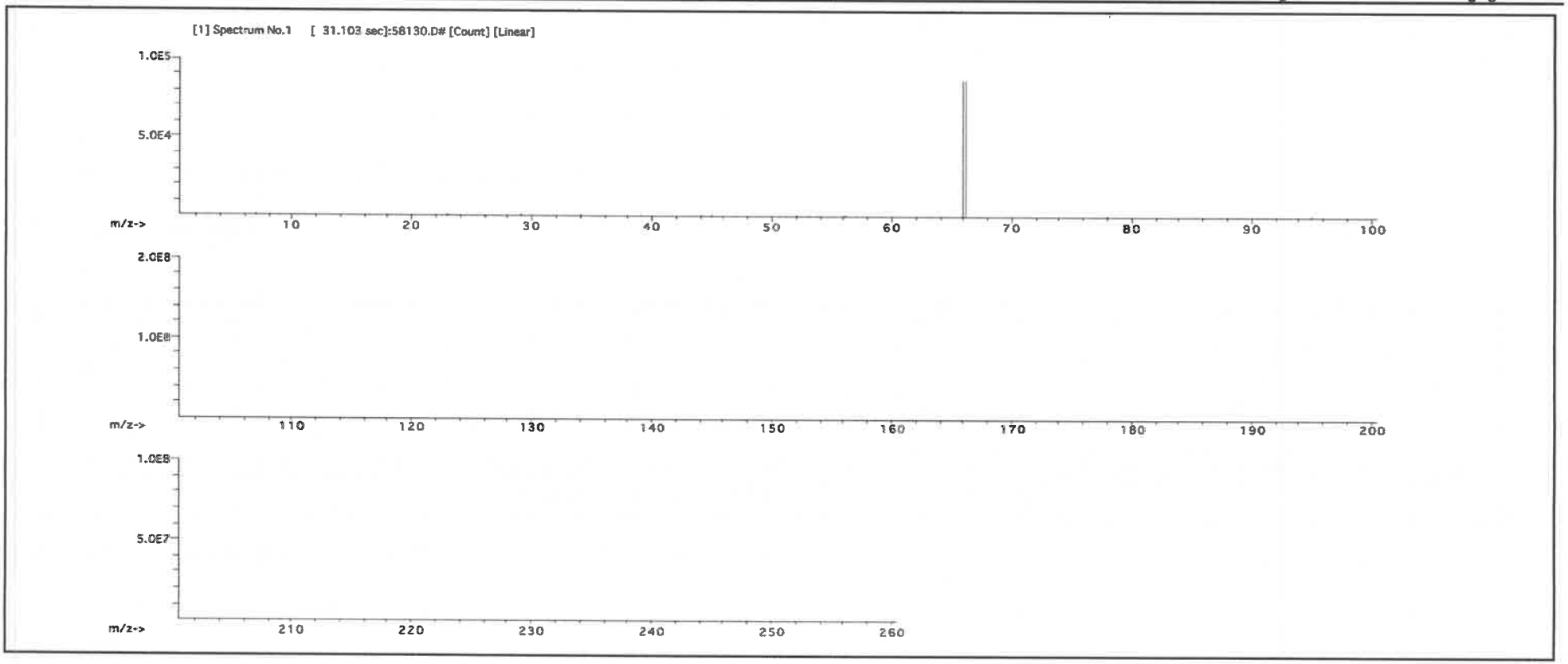
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| | 2% | 60.0 (mL) | Nitric Acid |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 111623 |
| Reviewed By: | Pedro L. Rentas | 111623 |

099

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zinc nitrate hexahydrate (Zn) | IN016 | ZNE032021A1 | 1000 | 99.999 | 0.10 | 24.3 | 12.3475 | 12.3502 | **1000.2** | **2.0** | 10196-18-6 | 1 mg/m3 | orl-rat 1190mg/kg | 3168 |



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

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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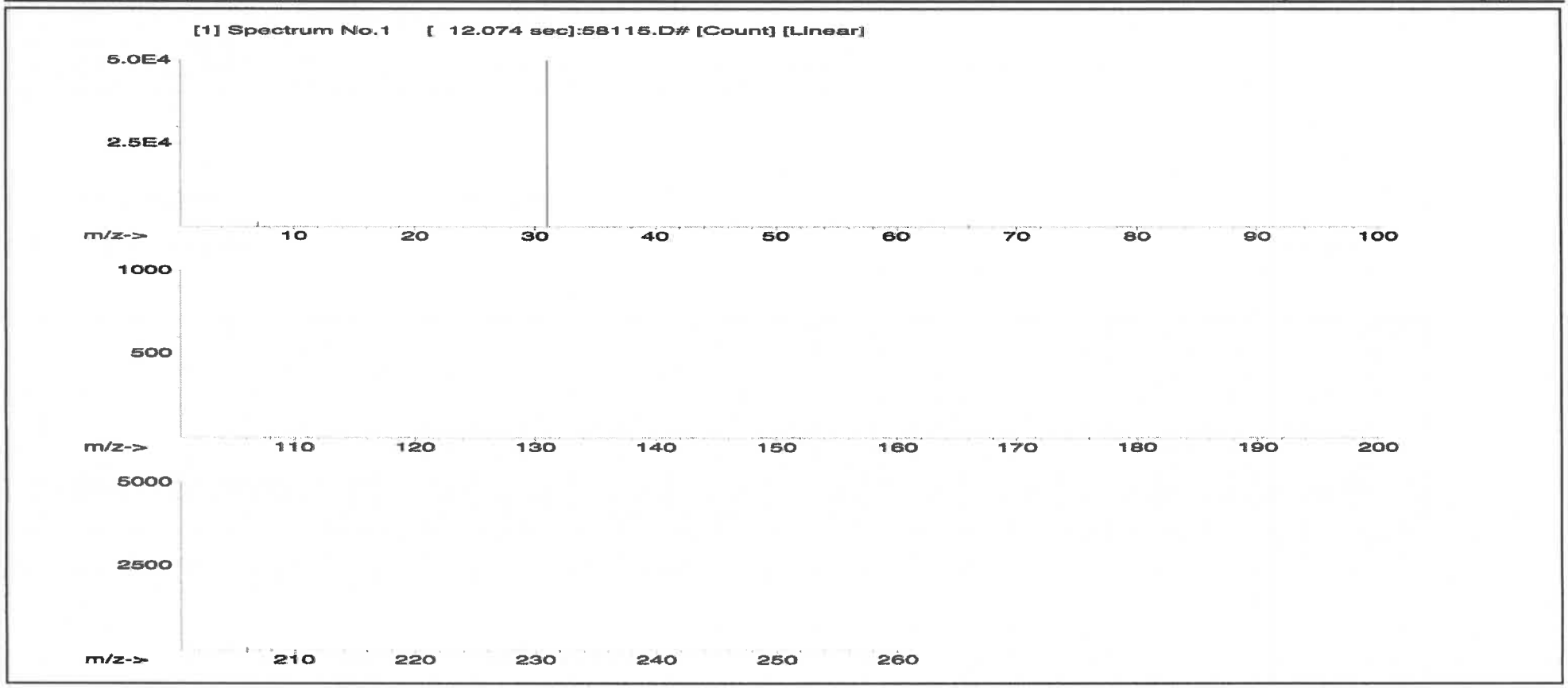
662

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57015** | | | **Lot #** | |
| **Lot Number:** | **091123** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Phosphorous (P)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091126 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 091123 |
| Reviewed By: | Pedro L. Rentas | 091123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 1000 | 99.999 | 0.10 | 27.5 | 7.2729 | 7.2730 | **1000.0** | **2.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/k | 3186 |



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

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

(T) = Target analyte

**Physical Characterization:**

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

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# Certificate of Analysis

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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGY10 |
| Lot Number: | V2-Y740548 |
| Matrix: | 2% (v/v) HNO3 |
| Value / Analyte(s): | 10 000 µg/mL ea:<br>Yttrium |
| Starting Material: | Yttrium Oxide |
| Starting Material Lot#: | 2661 and 06230520YL |
| Starting Material Purity: | 99.9984% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10000 ± 30 µg/mL

**Density:** 1.032 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| | |
|---|---|
| **Assay Method #1** | **10011 ± 25 µg/mL**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #2** | **9997 ± 50 µg/mL**<br>ICP Assay NIST SRM 3167a Lot Number: 190730 |
| **Assay Method #3** | **9984 ± 31 µg/mL**<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.004600 | M | Eu | | 0.009037 | M | Na | | 0.086360 | M | Se | < | 0.005200 | M | Zn | | 0.030125 |
| M | Al | | 0.014862 | O | Fe | | 0.002410 | M | Nb | < | 0.000570 | O | Si | | 0.024100 | O | Zr | < | 0.002600 |
| M | As | < | 0.003500 | M | Ga | < | 0.000570 | M | Nd | | 0.000923 | M | Sm | | 0.000461 | | | | |
| M | Au | < | 0.001700 | M | Gd | < | 0.003500 | M | Ni | < | 0.005700 | M | Sn | < | 0.002300 | | | | |
| O | B | | 0.002209 | M | Ge | < | 0.005200 | M | Os | < | 0.001200 | M | Sr | < | 0.004600 | | | | |
| O | Ba | < | 0.002500 | M | Hf | < | 0.000570 | n | P | < | | M | Ta | < | 0.000570 | | | | |
| O | Be | < | 0.001400 | M | Hg | < | 0.000570 | M | Pb | | 0.005020 | M | Tb | | 0.001044 | | | | |
| M | Bi | < | 0.003500 | M | Ho | | 0.009037 | M | Pd | < | 0.005100 | M | Te | < | 0.002300 | | | | |
| O | Ca | | 0.009841 | M | In | < | 0.002300 | M | Pr | < | 0.002300 | M | Th | < | 0.000570 | | | | |
| M | Cd | < | 0.000570 | M | Ir | < | 0.000570 | M | Pt | < | 0.000570 | M | Ti | < | 0.003500 | | | | |
| M | Ce | < | 0.002300 | O | K | | 0.018677 | M | Rb | < | 0.000570 | M | Tl | < | 0.000570 | | | | |
| M | Co | < | 0.000570 | M | La | | 0.000461 | M | Re | < | 0.000570 | M | Tm | < | 0.003500 | | | | |
| M | Cr | < | 0.004000 | O | Li | < | 0.009300 | M | Rh | < | 0.008000 | M | U | < | 0.000570 | | | | |
| M | Cs | < | 0.000570 | M | Lu | | 0.000582 | M | Ru | < | 0.000570 | M | V | | 0.001265 | | | | |
| M | Cu | | 0.002610 | O | Mg | | 0.001486 | n | S | < | | M | W | < | 0.002300 | | | | |
| M | Dy | | 0.003815 | M | Mn | | 0.000582 | M | Sb | | 0.005422 | s | Y | < | | | | | |
| M | Er | | 0.003615 | M | Mo | < | 0.005700 | M | Sc | < | 0.001200 | M | Yb | | 0.001827 | | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 88.91 +3 6 Y(OH)(H2O)x+2

**Chemical Compatibility -**Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

**Stability -** 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

**Y Containing Samples (Preparation and Solution) -** Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

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

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 89 amu | 0.8 ppt | N/A | 73Ge16O, 178Hf+2 |
| ICP-OES 360.073 nm | 0.005 / 0.000036 µg/mL | 1 | Ce, Th |
| ICP-OES 371.030 nm | 0.004 / 0.00007 µg/mL | 1 | Ce |
| ICP-OES 377.433 nm | 0.005 / 0.0009 µg/mL | 1 | Ta, Th |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 20, 2024

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

**11.2 Lot Expiration Date**

**- February 20, 2029**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Custom Processing Supervisor



**Certificate Approved By:**

Muzzammil Khan
Stock Laboratory Supervisor



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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***Certified Reference Material CRM***

M5960 KK R. 6/11/24

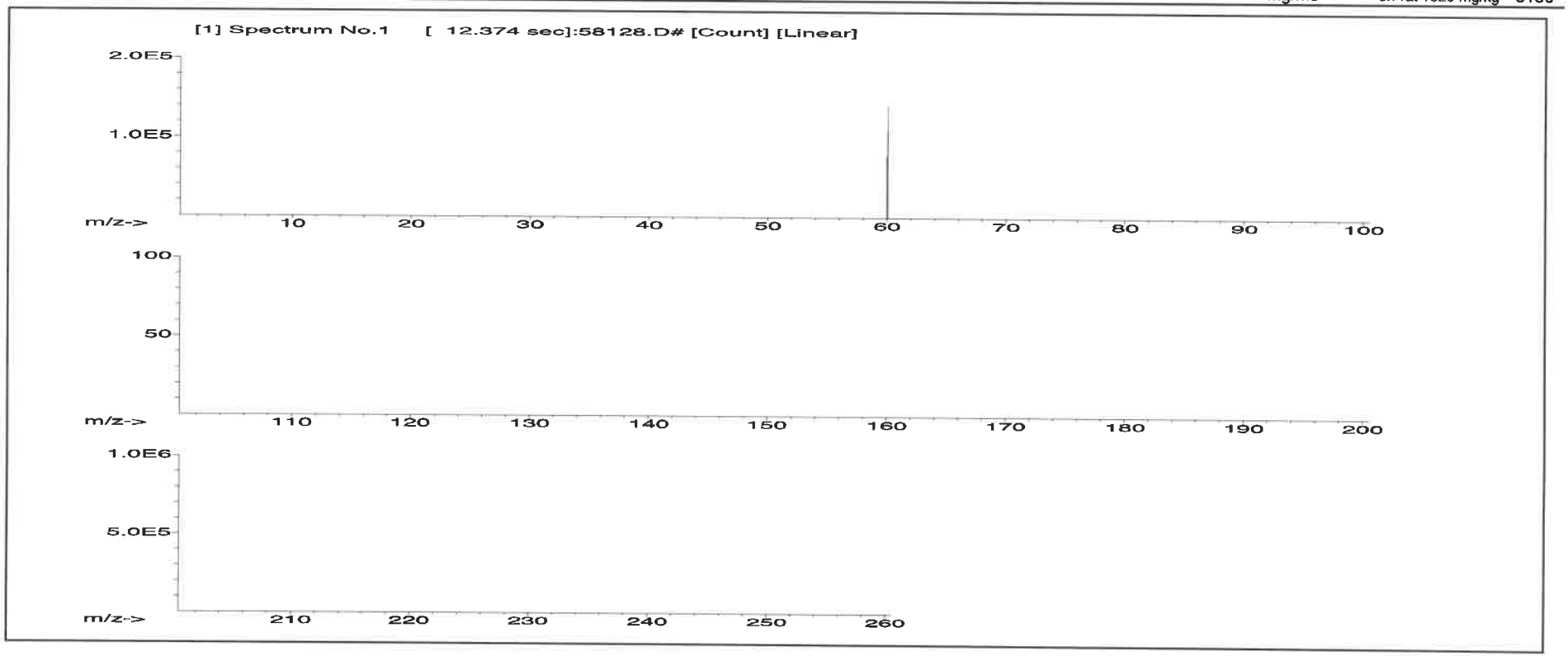
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CERTIFIED WEIGHT REPORT:

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

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

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




899

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

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:



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

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***Certified Reference Material CRM***

M5962 R! 06/14/24.

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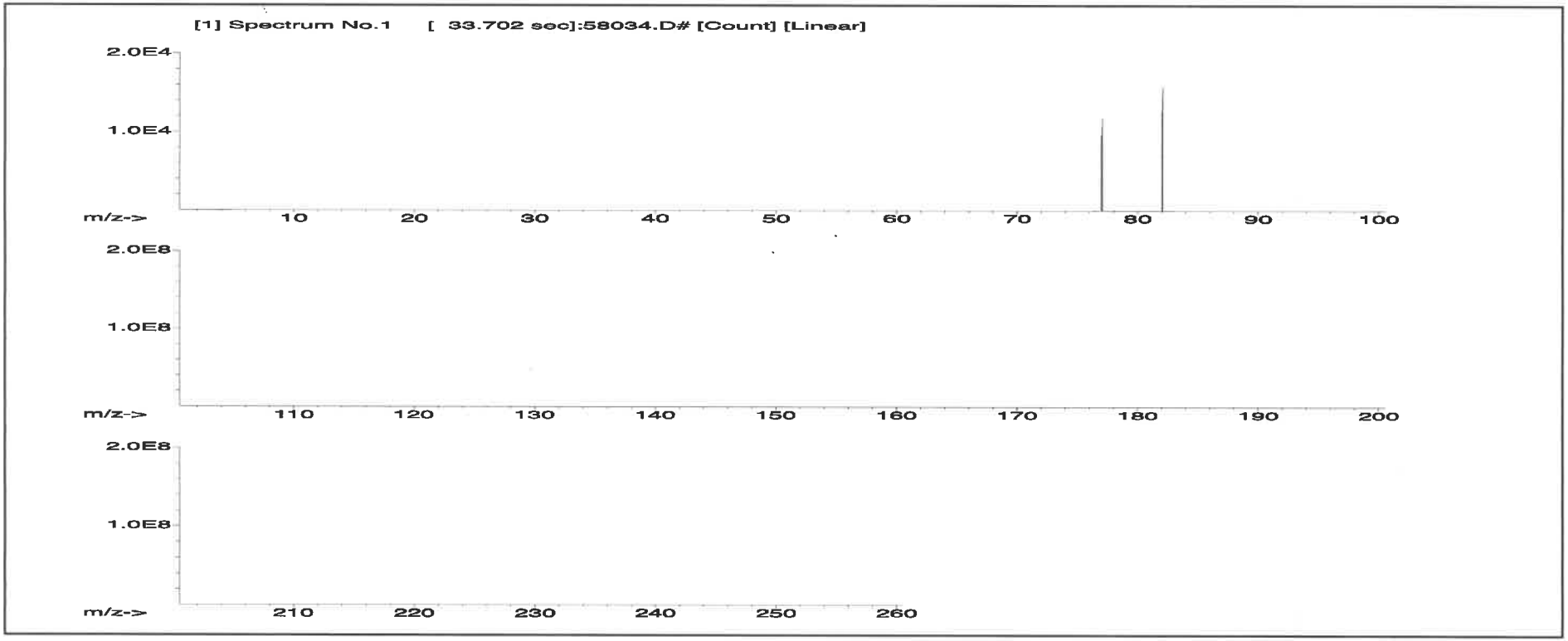
670

CERTIFIED WEIGHT REPORT:

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

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

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



671

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**



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

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***Certified Reference Material CRM***

M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57003
**Lot Number:** 062124
**Description:** Lithium (Li)
**Expiration Date:** 062127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 250.11

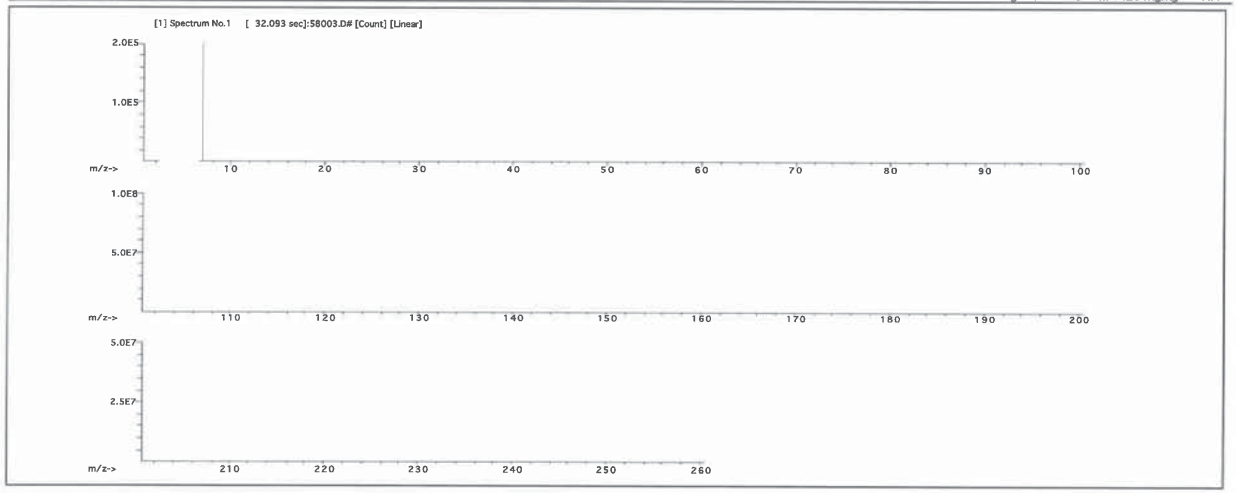
| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 5.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lithium nitrate (Li) | 58103 | 070622 | 0.1000 | 25.0 | 0.004 | 1000 | 10000.4 | **1000.0** | **2.0** | 7790-69-4 | 5 mg/m3 | orl-rat 1426 mg/kg | NA |



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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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# Certificate of Analysis

M5976, M5977
R: 02/22/24

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inorganicventures.com

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

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

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

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL

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

**Assay Information:**

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

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

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

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

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

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

**11.2 Lot Expiration Date**

**- July 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth
Director, Technical



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



M5978, M5979

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/24

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGTI1 |
| Lot Number: | T2-TI719972 |
| Matrix: | 2% (v/v) HNO3<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Titanium |
| Starting Material: | Ti Metal |
| Starting Material Lot#: | 2094 |
| Starting Material Purity: | 99.9975% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1002 ± 5 µg/mL

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

**Assay Information:**

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

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

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

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

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

089

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

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

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

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

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

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

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 17, 2022

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

**11.2 Lot Expiration Date**

**- June 17, 2027**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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

***Certified Reference Material CRM***

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

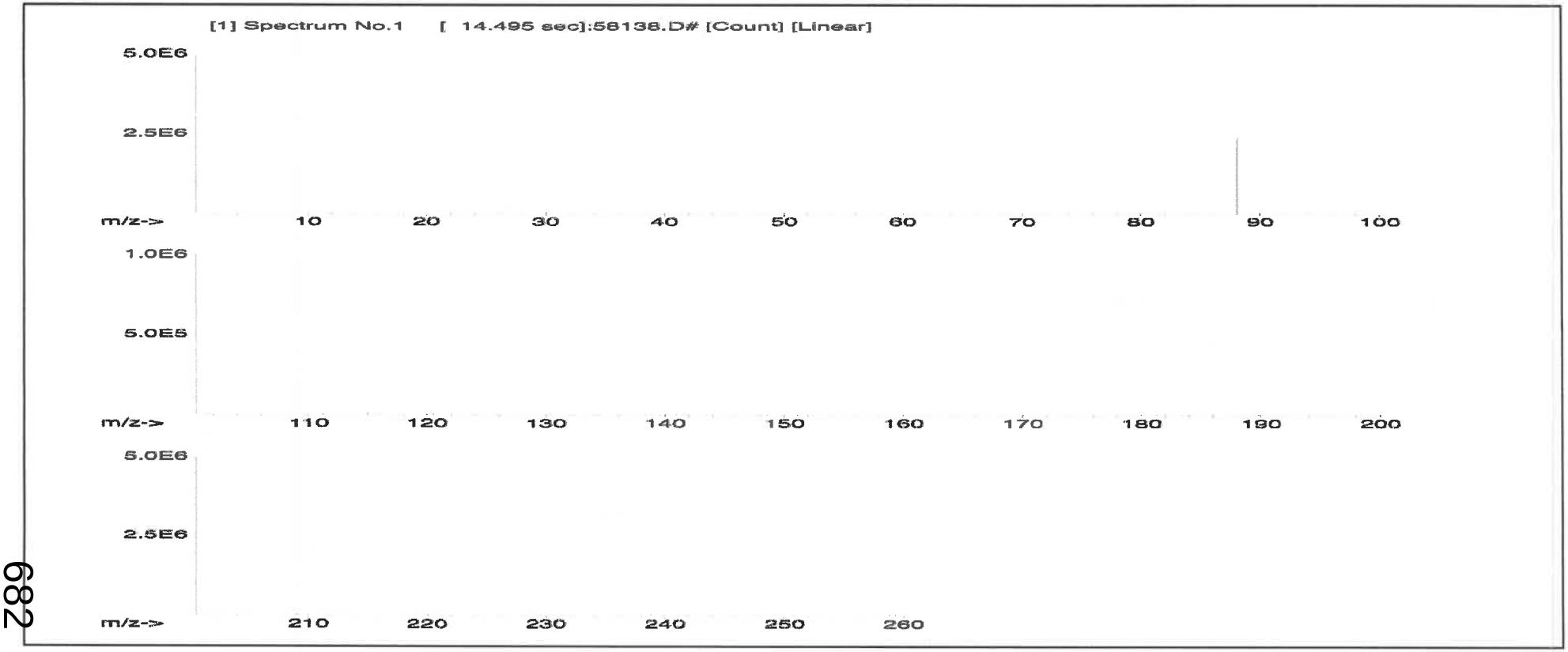
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57038** | | **Lot #** | | |
| **Lot Number:** | **031524** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Strontium (Sr)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 031527 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 031524 |
| Reviewed By: | Pedro L. Rentas | 031524 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 1000 | 99.997 | 0.10 | 41.2 | 4.85470 | 4.85502 | **1000.1** | **2.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |




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

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

(T) = Target analyte

**Physical Characterization:**

Certified by:

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

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

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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

MS985
R: 6/14/24

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGIN10 |
| Lot Number: | U2-IN729349 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 10 000 µg/mL ea: Indium |
| Starting Material: | Indium Metal |
| Starting Material Lot#: | 2511 |
| Starting Material Purity: | 99.9995% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10022 ± 30 µg/mL

**Density:** 1.044 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| | |
|---|---|
| **Assay Method #1** | **10021 ± 56 µg/mL**<br>ICP Assay NIST SRM 3124a Lot Number: 110516 |
| **Assay Method #2** | **10035 ± 25 µg/mL**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #3** | **10001 ± 33 µg/mL**<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

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

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000760 | M | Eu | < | 0.000760 | O | Na | | 0.012771 | M | Se | < | 0.023000 | M | Zn | < | 0.006100 |
| M | Al | | 0.003385 | O | Fe | | 0.004462 | M | Nb | < | 0.000760 | O | Si | | 0.024619 | M | Zr | < | 0.000760 |
| M | As | < | 0.004600 | M | Ga | < | 0.000760 | M | Nd | < | 0.000760 | M | Sm | < | 0.000760 | | | | |
| M | Au | < | 0.002300 | M | Gd | < | 0.000760 | O | Ni | < | 0.005100 | M | Sn | < | 0.000760 | | | | |
| O | B | | 0.003692 | M | Ge | < | 0.001600 | M | Os | < | 0.000760 | O | Sr | < | 0.000610 | | | | |
| M | Ba | < | 0.001600 | M | Hf | < | 0.000760 | n | P | < | | M | Ta | < | 0.000760 | | | | |
| O | Be | < | 0.000130 | M | Hg | < | 0.003100 | M | Pb | | 0.001400 | M | Tb | < | 0.000760 | | | | |
| M | Bi | < | 0.000760 | M | Ho | < | 0.000760 | M | Pd | < | 0.001600 | M | Te | < | 0.000760 | | | | |
| O | Ca | | 0.004616 | s | In | < | | M | Pr | < | 0.000760 | M | Th | < | 0.000760 | | | | |
| M | Cd | < | 0.000760 | M | Ir | < | 0.000760 | M | Pt | < | 0.000760 | O | Ti | < | 0.001100 | | | | |
| M | Ce | < | 0.000760 | O | K | | 0.007078 | M | Rb | < | 0.000760 | M | Tl | < | 0.000760 | | | | |
| M | Co | < | 0.000760 | M | La | < | 0.000760 | M | Re | < | 0.000760 | M | Tm | < | 0.000760 | | | | |
| O | Cr | < | 0.001300 | O | Li | < | 0.000130 | M | Rh | < | 0.000760 | M | U | < | 0.000760 | | | | |
| M | Cs | < | 0.000760 | M | Lu | < | 0.000760 | M | Ru | < | 0.000760 | M | V | < | 0.001600 | | | | |
| M | Cu | < | 0.003800 | O | Mg | | 0.000707 | n | S | < | | M | W | < | 0.001600 | | | | |
| M | Dy | < | 0.000760 | O | Mn | | 0.000149 | M | Sb | < | 0.000760 | M | Y | < | 0.000760 | | | | |
| M | Er | < | 0.000760 | M | Mo | < | 0.002300 | M | Sc | < | 0.000760 | M | Yb | < | 0.000760 | | | | |

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

## 6.0 INTENDED USE

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

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 114.82 +3 6 In(H2O)6+3

**Chemical Compatibility -**Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

**Stability -** 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

**In Containing Samples (Preparation and Solution) -**Metal (Best dissolved in HCl / HNO3 ); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

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

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 115 amu | 1 ppt | n/a | 115Sn, 99Ru16O |
| ICP-OES 158.583 nm | 0.05 / 0.002 µg/mL | 1 | |
| ICP-OES 230.606 nm | 0.1 / 0.03 µg/mL | 1 | Ni, Os |
| ICP-OES 325.609 nm | 0.2 / 0.05 µg/mL | 1 | Mn, Mo, Th |

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 21, 2023

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

**11.2 Lot Expiration Date**

**- February 21, 2028**

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

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

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

R: 2/22/2024
M5999

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

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

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

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

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

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

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

**Assay Information:**



688

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

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

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

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

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

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

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

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

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

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

$X_a$ = mean of Assay Method A with

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

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

k = coverage factor = 2

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

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

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

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

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

### 4.1 Thermometer Calibration

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

### 4.2 Balance Calibration

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

### 4.3 Glassware Calibration

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

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

N/A

## 6.0 INTENDED USE

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

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

### 7.1 Storage and Handling Recommendations

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

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

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

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

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

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

## 8.0 HAZARDOUS INFORMATION

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

## 9.0 HOMOGENEITY

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

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

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

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

July 27, 2022

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

### 11.2 Lot Expiration Date

**- July 27, 2027**

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

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

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.190 |
| ACS - Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as $Cl_2$) | <= 0.5 ppm | < 0.5 |
| Phosphate ($PO_4$) | <= 0.05 ppm | < 0.03 |
| Sulfate ($SO_4$) | <= 0.5 ppm | < 0.3 |
| Sulfite ($SO_3$) | <= 0.8 ppm | 0.3 |
| Ammonium ($NH_4$) | <= 3 ppm | < 1 |
| Trace Impurities - Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities - Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 29.7 |
| Trace Impurities - Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 1.0 ppb | < 0.2 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

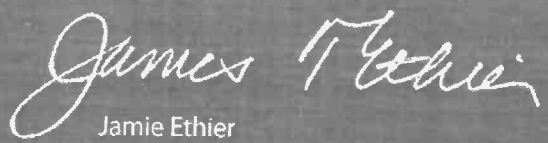
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Material No.: 9530-33
Batch No.: 0000275677

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 4.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities - Iron (Fe) | <= 15.0 ppb | <1 |
| Trace Impurities - Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 1.0 ppb | 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 10.0 ppb | 0.4 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Potassium (K) | <= 9.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | < 10.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Trace Impurities - Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 5.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 1.0 ppb | 0.2 |
| Trace Impurities - Vanadium (V) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 0.3 |
| Trace Impurities - Zirconium (Zr) | <= 1.0 ppb | < 0.1 |

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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M6125 Receive -> 11/22/24

# CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

## Hydrogen Peroxide 30%, ACS

Reagent Grade

| SPECIFICATION | MAXIMUM LIMITS |
|---|---|
| Appearance | Colorless and free from suspended matter or sediment |
| Assay | 29-32% |
| Color (APHA) | 10 |
| Residue after Evaporation | 0.002% |
| Titratable Acid | 0.0006 meq/g |
| Chloride (Cl) | 3 ppm |
| Nitrate ($NO_3$) | 2 ppm |
| Phosphate | 2 ppm |
| Sulfate ($SO_4$) | 5 ppm |
| Ammonium ($NH_4$) | 5 ppm |
| Heavy Metals (as Pb) | 1 ppm |
| Iron (Fe) | 0.5 ppm |

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.7 % |
| Appearance | Passes Test | Passes Test |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Ignition | ≤ 2 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.08 ppm | < 0.03 ppm |
| Phosphate ($PO_4$) | ≤ 0.10 ppm | < 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.2 ppm | < 0.2 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 40.0 ppb | < 1.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities - Barium (Ba) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Beryllium (Be) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 50 ppb | < 1 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 2.3 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Copper (Cu) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 20 ppb | < 10 ppb |
| Trace Impurities - Gold (Au) | ≤ 20 ppb | < 5 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | 100 ppb |
| Trace Impurities - Iron (Fe) | ≤ 40.0 ppb | < 1.0 ppb |
| Trace Impurities - Lead (Pb) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Lithium (Li) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Magnesium (Mg) | ≤ 20 ppb | < 1 ppb |
| Trace Impurities - Manganese (Mn) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 20.0 ppb | < 5.0 ppb |

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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R: 01/03/24 M5806, M5807

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868

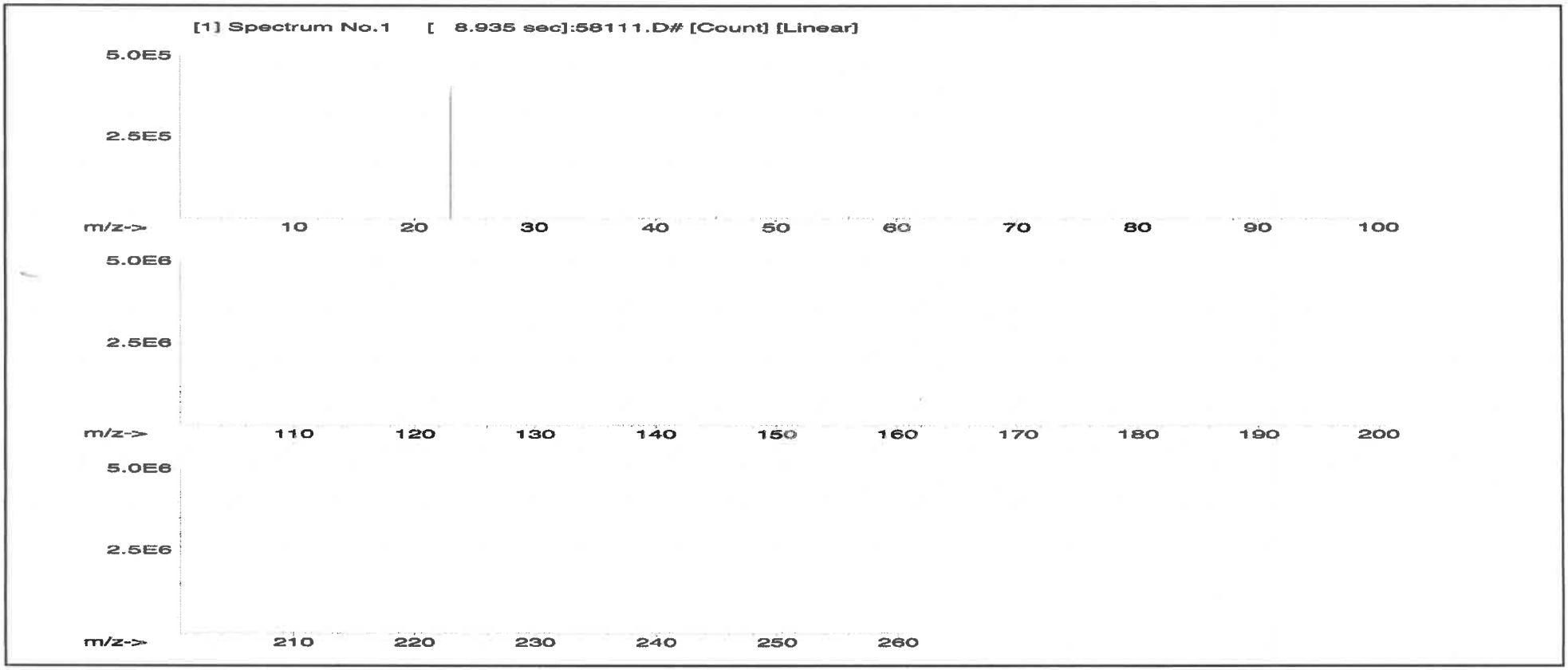
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | **Lot #** | | |
| **Lot Number:** | **122223** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Sodium (Na)** | | | | |
| | | 2% | 60.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 122226 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 3000.4 | 0.06 | Flask Uncertainty | | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 122223 |
| Reviewed By: | Pedro L. Rentas | 122223 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Sodium nitrate (Na) | IN036 | NAV012015I1 | 10000 | 99.999 | 0.10 | 26.9 | 111.5406 | 111.5479 | **10000.7** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



669

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

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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R: 01/03/24 M5802, M5803

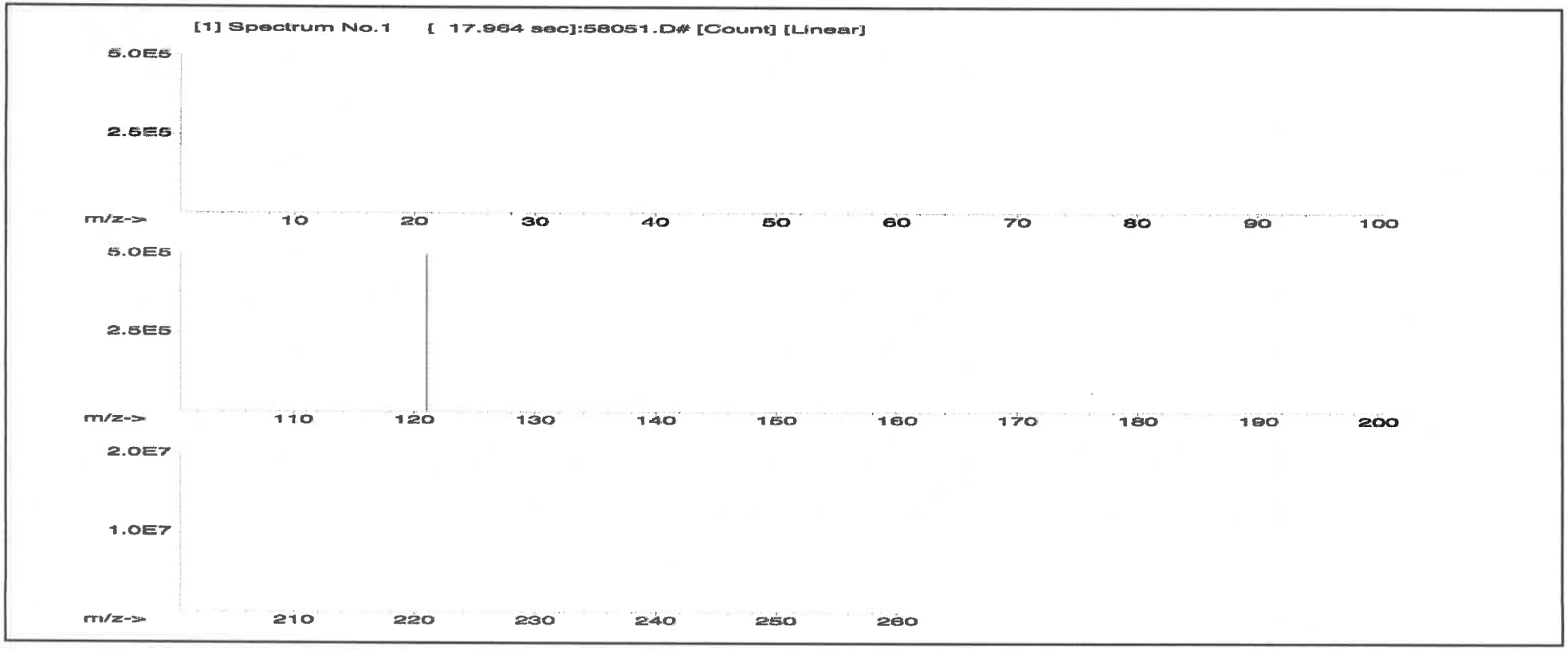
700

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57051** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **120523** | | | | |
| **Description:** | **Antimony (Sb)** | | | | |
| | | 2.0% | 60.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 120526 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 3000.41 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 120523 |
| Reviewed By: | Pedro L. Rentas | 120523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Antimony (Sb) | 58151 | 100923 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.4 | **1000.0** | 2.1 | 7440-36-0 | 0.5 mg/m3 | orl-rat 7000 mg/kg | 3102a |



701

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

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

(T) = Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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R: 8/5/24

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702

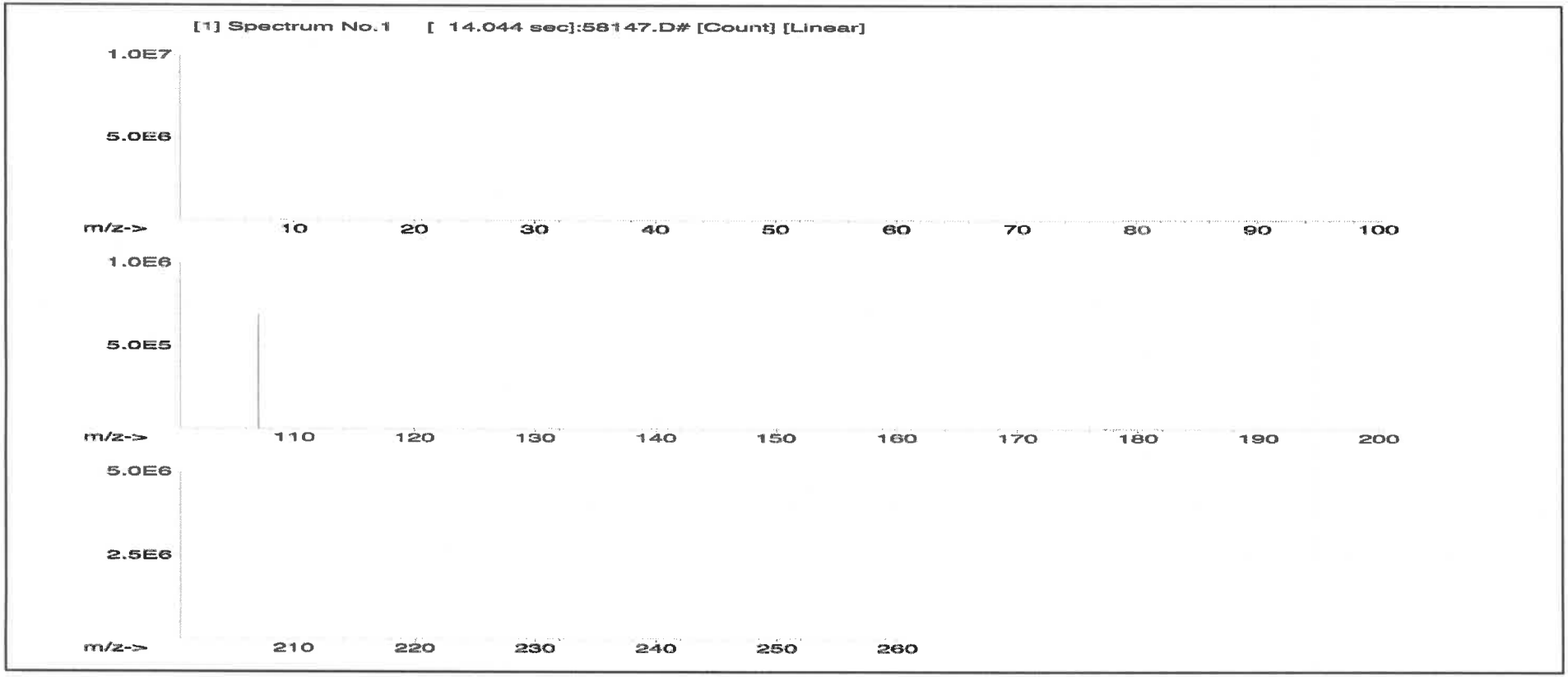
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57047** | | **Solvent:** | 24002546 | Nitric Acid |
| **Lot Number:** | **122823** | | | | |
| **Description:** | **Silver (Ag)** | | 2% | 80.0 (mL) | Nitric Acid |
| **Expiration Date:** | 122826 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 Balance Uncertainty | | | |
| **Weight shown below was diluted to (mL):** | 4000.30 | 0.058 Flask Uncertainty | | | |

Lot #

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122823 |
| Reviewed By: | Pedro L. Rentas | 122823 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Silver nitrate (Ag) | IN035 | J0612AGA1 | 1000.0 | 99.9999 | 0.10 | 63.7 | 6.27992 | 6.27998 | **1000.0** | **2.0** | 7761-88-8 | 10 ug/m3 | NA | 3151 |



703

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

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

(T)= Target analyte

**Physical Characterization:**

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

**Certified by:**

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

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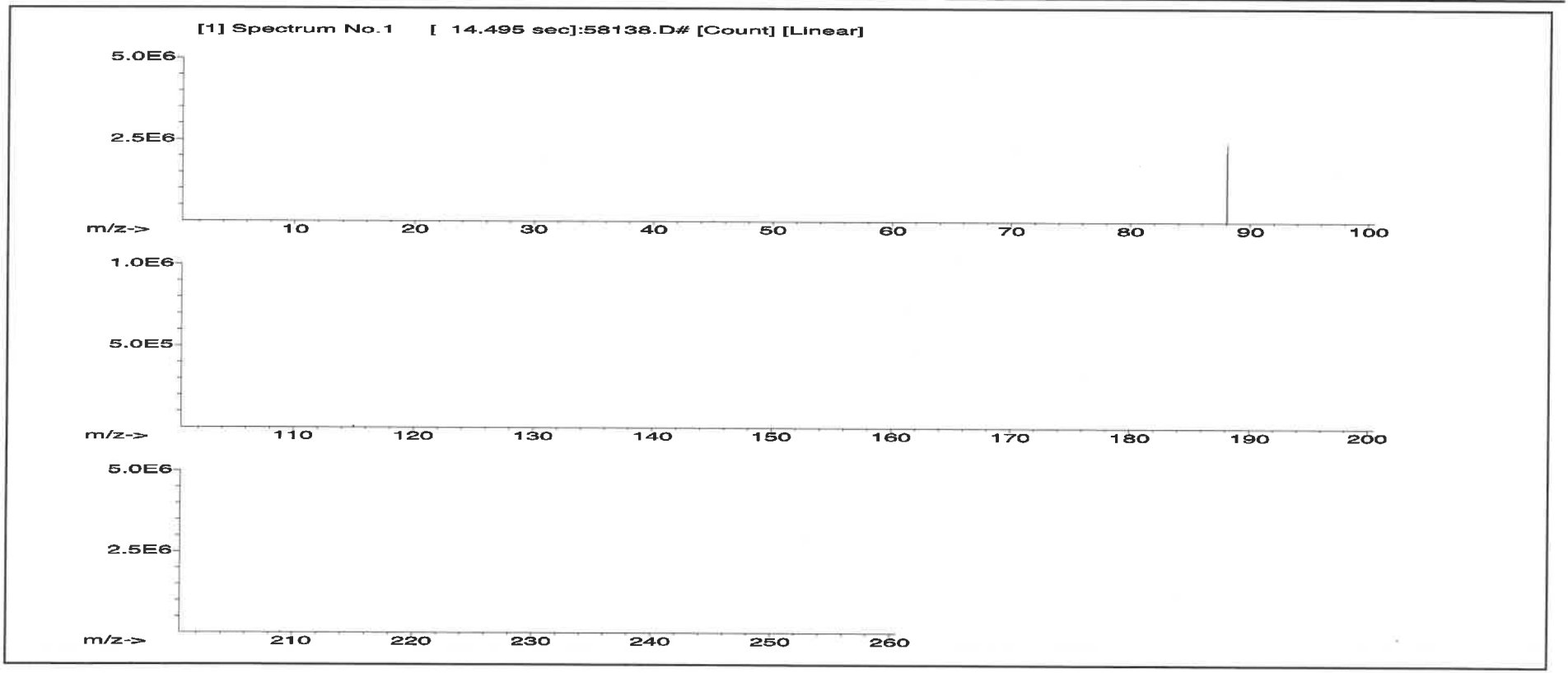
704

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **56138** | | **Lot #** | | |
| **Lot Number:** | **082922** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Strontium (Sr)** | 2% | 20.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 082925 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 1000.12 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 082922 |
| Reviewed By: | Pedro L. Rentas | 082922 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 10000 | 99.997 | 0.10 | 41.2 | 24.2756 | 24.2758 | **10000.1** | **20.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |



705

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

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

(T)= Target analyte

**Physical Characterization:**

Certified by:

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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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706

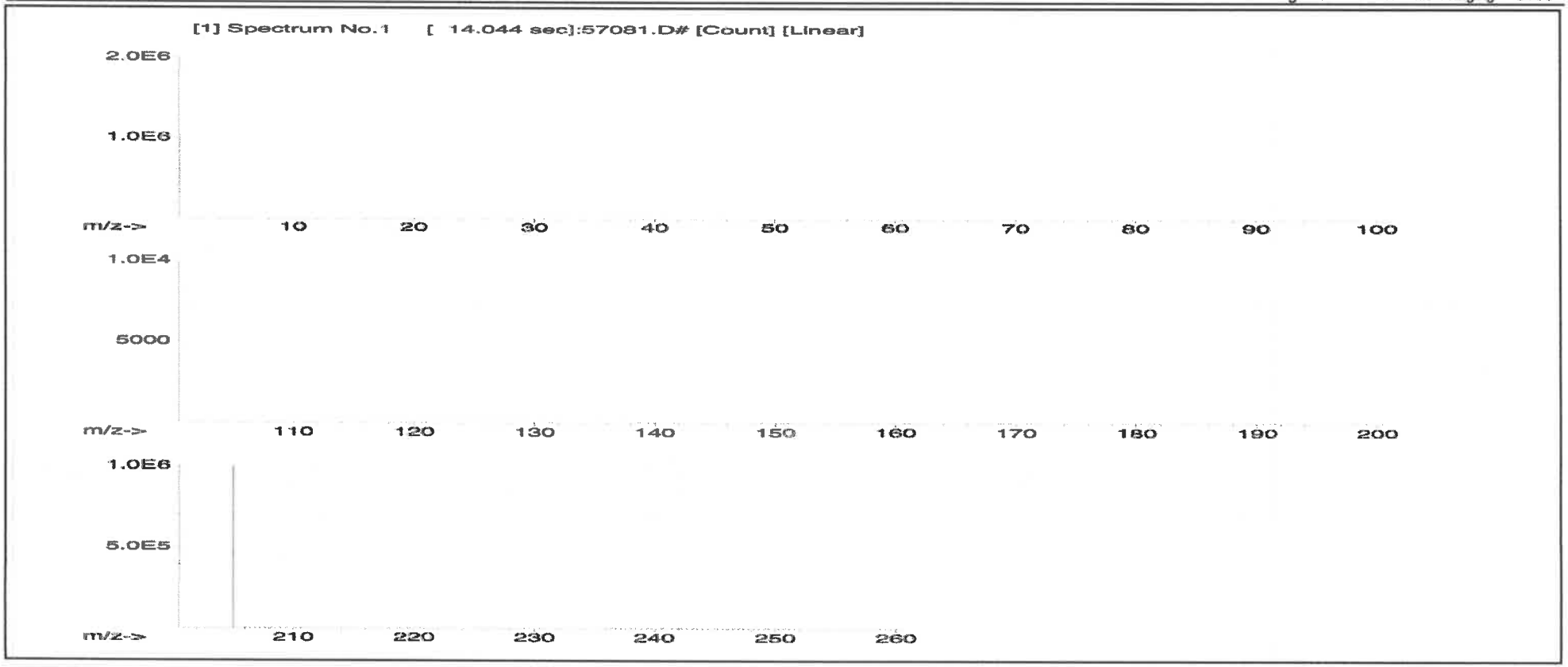
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57081** | | **Lot #** | | |
| **Lot Number:** | **062724** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Thallium (Tl)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 062727 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.1 | 0.10 | Flask Uncertainty | | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 062724 |
| Reviewed By: | Pedro L. Rentas | 062724 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Thallium nitrate (Tl) | IN037 | BCCF4399 | 1000 | 99.999 | 0.10 | 77.0 | 2.5975 | 2.5977 | **1000.1** | **2.0** | 10102-45-1 | 0.1 mg/m3 | orl-mus 15mg/kg | 3158 |



707

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

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

(T) = Target analyte

**Physical Characterization:**

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

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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708

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57023** | | | |
| **Lot Number:** | **062424** | | | |
| **Description:** | **Vanadium (V)** | 24002546 | Nitric Acid | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 062427 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.3 | 0.06 | Flask Uncertainty | |

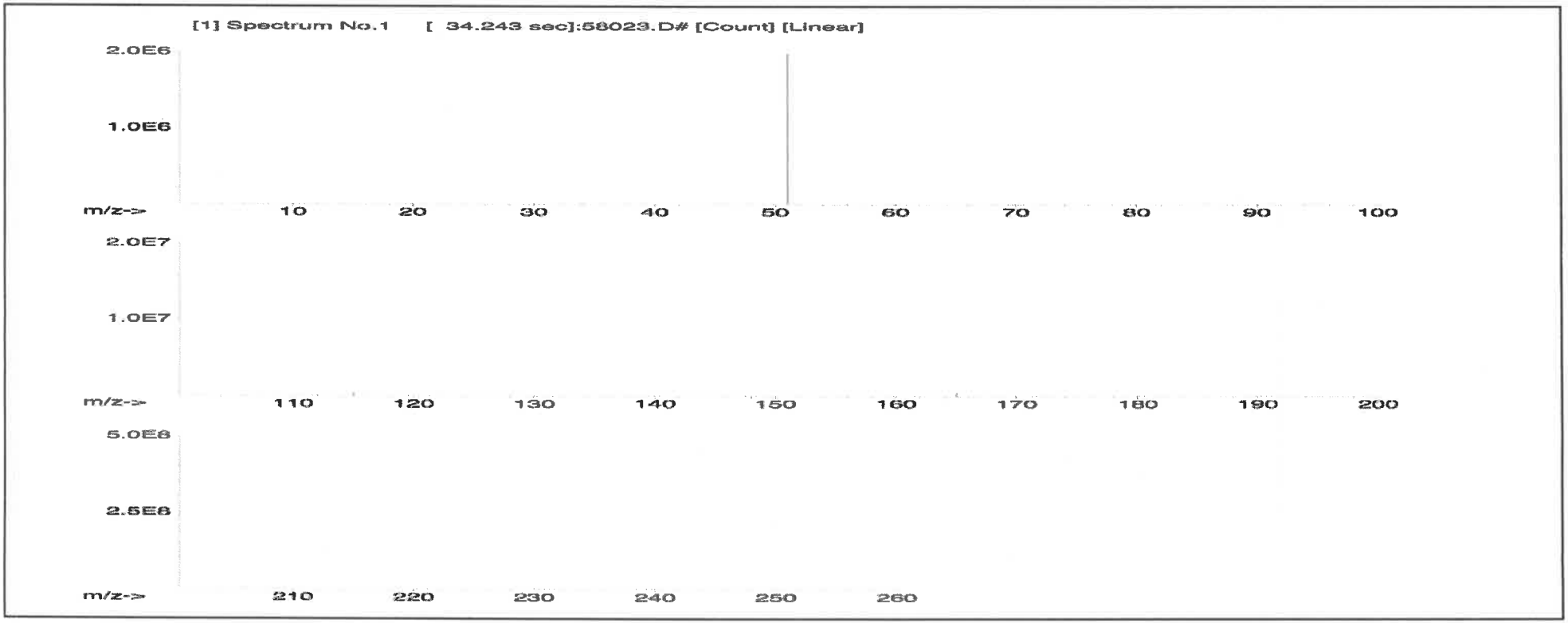
Aleah O'Brady

| Formulated By: | Aleah O'Brady | 062424 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 062424 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium metavanadate (V) | 58123 | 021224 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 7803-55-6 | 0.05 mg/m3 | orl-rat 58.1mg/kg | 3165 |



709

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

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

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

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

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

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

PB165886

**SOP ID :** M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

**SDG No :** MBHMZ2

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-2

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #3 2. N/A

**Start Digest Date:** 12/27/2024 **Time :** 12:30 **Temp :** 96 °C

**End Digest Date:** 12/27/2024 **Time :** 14:35 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. # 3

**Dig Technician Signature:** SLD.

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.00 | MP83506 |
| Spike Sol 6 | 1.00 | MP83512 |
| 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 | MP83498 |
| Conc. HNO3 | 5.00 | M6126 |
| 30% H2O2 | 3.00 | M6125 |
| Conc. HCL | 10.00 | M6121 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK #3 CELL #35 : 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 12/27/24 15:35 | SLD. MET digestion | Metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB165886**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P5209-01 | MBHMZ2 | N/A | 1.19 | 100 | Brown | Yellow | Medium | N/A | N/A | 1 |
| P5209-02 | MBHMZ3 | N/A | 1.11 | 100 | Brown | Yellow | Medium | N/A | N/A | 2 |
| P5209-03 | MBHMZ4 | N/A | 1.36 | 100 | Brown | Yellow | Medium | N/A | N/A | 3 |
| P5209-04 | MBHMZ5 | N/A | 1.15 | 100 | Brown | Yellow | Medium | N/A | N/A | 4 |
| P5209-05 | MBHMZ6 | N/A | 1.40 | 100 | Brown | Yellow | Medium | N/A | N/A | 5 |
| P5209-06 | MBHMZ7 | N/A | 1.17 | 100 | Brown | Yellow | Medium | N/A | N/A | 6 |
| P5209-07 | MBHMZ8 | N/A | 1.17 | 100 | Brown | Yellow | Medium | N/A | N/A | 7 |
| P5209-08 | MBHN75 | N/A | 1.14 | 100 | Brown | Yellow | Medium | N/A | N/A | 8 |
| P5209-09 | MBHN76 | N/A | 1.12 | 100 | Brown | Yellow | Medium | N/A | N/A | 9 |
| P5209-10 | MBHN77 | N/A | 1.13 | 100 | Brown | Yellow | Medium | N/A | N/A | 10 |
| P5209-11 | MBHN78 | N/A | 1.12 | 100 | Brown | Yellow | Medium | N/A | N/A | 11 |
| P5209-12 | MBHN79 | N/A | 1.18 | 100 | Brown | Yellow | Medium | N/A | N/A | 12 |
| P5209-13 | MBHN80 | N/A | 1.15 | 100 | Brown | Yellow | Medium | N/A | N/A | 13 |
| P5209-14 | MBHN81 | N/A | 1.26 | 100 | Brown | Yellow | Medium | N/A | N/A | 14 |
| P5209-15 | MBHN81D | N/A | 1.27 | 100 | Brown | Yellow | Medium | N/A | N/A | 15 |
| P5209-16 | MBHN81S | N/A | 1.04 | 100 | Brown | Yellow | Medium | N/A | MP83512 | 16 |
| P5209-17 | MBHN96 | N/A | 1.16 | 100 | Brown | Yellow | Medium | N/A | N/A | 17 |
| P5209-18 | MBHN97 | N/A | 1.20 | 100 | Brown | Yellow | Medium | N/A | N/A | 18 |
| P5209-19 | MBHN98 | N/A | 1.22 | 100 | Brown | Yellow | Medium | N/A | N/A | 19 |
| P5209-20 | MBHN99 | N/A | 1.13 | 100 | Brown | Yellow | Medium | N/A | N/A | 20 |
| P5209-21 | MBHNA0 | N/A | 1.14 | 100 | Brown | Yellow | Medium | N/A | N/A | 21 |
| P5209-22 | MBHNC2 | N/A | 1.12 | 100 | Brown | Yellow | Medium | N/A | N/A | 22 |
| PB165886BL | PBS886 | N/A | 1.00 | 100 | Colorless | Colorless | Fine | N/A | N/A | 23 |
| PB165886BS | LCS886 | N/A | 1.00 | 100 | Colorless | Colorless | Fine | N/A | MP83506 | 24 |

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Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 01/12/25 02:00 | | Kareem | OK |
| 2 | S1 | S01 | CAL2 | 01/12/25 02:04 | | Kareem | OK |
| 3 | S2 | S02 | CAL3 | 01/12/25 02:08 | | Kareem | OK |
| 4 | S3 | S03 | CAL4 | 01/12/25 02:12 | | Kareem | OK |
| 5 | S4 | S04 | CAL5 | 01/12/25 02:16 | | Kareem | OK |
| 6 | S5 | S05 | CAL6 | 01/12/25 02:20 | | Kareem | OK |
| 7 | S6 | S06 | CAL7 | 01/12/25 02:25 | | Kareem | OK |
| 8 | ICV001 | ICV001 | ICV | 01/12/25 03:02 | Inst. paused for calibration review | Kareem | OK |
| 9 | ICB001 | ICB001 | ICB | 01/12/25 03:06 | | Kareem | OK |
| 10 | ICSA001 | ICSA001 | ICSA | 01/12/25 03:10 | | Kareem | OK |
| 11 | ICSAB001 | ICSAB001 | ICSAB | 01/12/25 03:14 | | Kareem | OK |
| 12 | CCV001 | CCV001 | CCV | 01/12/25 03:30 | Inst. paused for review | Kareem | OK |
| 13 | CCB001 | CCB001 | CCB | 01/12/25 03:34 | | Kareem | OK |
| 14 | PB165909BL | PBS909 | MB | 01/12/25 03:38 | | Kareem | OK |
| 15 | PB165909BS | LCS909 | LCS | 01/12/25 03:42 | | Kareem | OK |
| 16 | PB165911BL | PBS911 | MB | 01/12/25 03:46 | | Kareem | OK |
| 17 | PB165911BS | LCS911 | LCS | 01/12/25 03:51 | | Kareem | OK |
| 18 | PB165923BL | PBS923 | MB | 01/12/25 03:55 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB165923BS | LCS923 | LCS | 01/12/25 03:59 | | Kareem | OK |
| 20 | PB165891BL | PBS891 | MB | 01/12/25 04:03 | | Kareem | OK |
| 21 | PB165891BS | LCS891 | LCS | 01/12/25 04:07 | | Kareem | OK |
| 22 | PB165885BL | PBS885 | MB | 01/12/25 04:11 | | Kareem | OK |
| 23 | PB165885BS | LCS885 | LCS | 01/12/25 04:15 | | Kareem | OK |
| 24 | PB165884BL | PBS884 | MB | 01/12/25 04:19 | | Kareem | OK |
| 25 | PB165884BS | LCS884 | LCS | 01/12/25 04:23 | | Kareem | OK |
| 26 | PB165886BL | PBS886 | MB | 01/12/25 04:27 | | Kareem | OK |
| 27 | PB165886BS | LCS886 | LCS | 01/12/25 04:32 | | Kareem | OK |
| 28 | P5209-01 | MBHMZ2 | SAM | 01/12/25 04:36 | | Kareem | OK |
| 29 | P5209-02 | MBHMZ3 | SAM | 01/12/25 04:40 | | Kareem | OK |
| 30 | P5209-03 | MBHMZ4 | SAM | 01/12/25 04:43 | | Kareem | OK |
| 31 | P5209-04 | MBHMZ5 | SAM | 01/12/25 04:47 | | Kareem | OK |
| 32 | P5209-05 | MBHMZ6 | SAM | 01/12/25 04:51 | | Kareem | OK |
| 33 | P5209-06 | MBHMZ7 | SAM | 01/12/25 04:55 | | Kareem | OK |
| 34 | CCV002 | CCV002 | CCV | 01/12/25 04:59 | | Kareem | OK |
| 35 | CCB002 | CCB002 | CCB | 01/12/25 05:04 | | Kareem | OK |
| 36 | P5209-07 | MBHMZ8 | SAM | 01/12/25 05:08 | Ca high | Kareem | Dilution |
| 37 | P5209-08 | MBHN75 | SAM | 01/12/25 05:12 | | Kareem | OK |
| 38 | P5209-09 | MBHN76 | SAM | 01/12/25 05:16 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | P5209-10 | MBHN77 | SAM | 01/12/25 05:20 | | Kareem | OK |
| 40 | P5209-11 | MBHN78 | SAM | 01/12/25 05:24 | | Kareem | OK |
| 41 | P5209-12 | MBHN79 | SAM | 01/12/25 05:28 | | Kareem | OK |
| 42 | P5209-13 | MBHN80 | SAM | 01/12/25 05:32 | | Kareem | OK |
| 43 | P5209-14 | MBHN81 | SAM | 01/12/25 05:36 | | Kareem | OK |
| 44 | P5209-15 | MBHN81D | DUP | 01/12/25 05:40 | | Kareem | OK |
| 45 | P5209-14L | MBHN81L | SD | 01/12/25 05:44 | | Kareem | OK |
| 46 | P5209-16 | MBHN81S | MS | 01/12/25 05:48 | MS fail for Se | Kareem | OK |
| 47 | P5209-17 | MBHN96 | SAM | 01/12/25 05:52 | | Kareem | OK |
| 48 | P5209-18 | MBHN97 | SAM | 01/12/25 05:55 | | Kareem | OK |
| 49 | P5209-19 | MBHN98 | SAM | 01/12/25 06:00 | | Kareem | OK |
| 50 | P5209-20 | MBHN99 | SAM | 01/12/25 06:04 | | Kareem | OK |
| 51 | P5209-21 | MBHNA0 | SAM | 01/12/25 06:08 | | Kareem | OK |
| 52 | P5209-22 | MBHNC2 | SAM | 01/12/25 06:11 | | Kareem | OK |
| 53 | P5208-01 | MBHN68 | SAM | 01/12/25 06:15 | | Kareem | OK |
| 54 | P5208-02 | MBHN69 | SAM | 01/12/25 06:19 | | Kareem | OK |
| 55 | P5208-03 | MBHN70 | SAM | 01/12/25 06:23 | | Kareem | OK |
| 56 | CCV003 | CCV003 | CCV | 01/12/25 06:36 | | Kareem | OK |
| 57 | CCB003 | CCB003 | CCB | 01/12/25 06:40 | | Kareem | OK |
| 58 | P5208-04 | MBHN71 | SAM | 01/12/25 06:44 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

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|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | P5208-05 | MBHN72 | SAM | 01/12/25 06:48 | | Kareem | OK |
| 60 | P5208-06 | MBHN73 | SAM | 01/12/25 06:52 | | Kareem | OK |
| 61 | P5208-07 | MBHN74 | SAM | 01/12/25 06:56 | | Kareem | OK |
| 62 | P5208-08 | MBHNK1 | SAM | 01/12/25 07:00 | | Kareem | OK |
| 63 | P5208-09 | MBHNK2 | SAM | 01/12/25 07:04 | | Kareem | OK |
| 64 | P5208-10 | MBHNK3 | SAM | 01/12/25 07:08 | | Kareem | OK |
| 65 | P5208-11 | MBHNK4 | SAM | 01/12/25 07:12 | | Kareem | OK |
| 66 | P5208-12 | MBHNK4D | DUP | 01/12/25 07:16 | | Kareem | OK |
| 67 | P5208-11L | MBHNK4L | SD | 01/12/25 07:20 | | Kareem | OK |
| 68 | P5208-13 | MBHNK4S | MS | 01/12/25 07:24 | MS fail for Se,Zn | Kareem | OK |
| 69 | P5208-14 | MBHNK5 | SAM | 01/12/25 07:28 | | Kareem | OK |
| 70 | P5208-15 | MBHNK6 | SAM | 01/12/25 07:32 | | Kareem | OK |
| 71 | P5208-16 | MBHNK7 | SAM | 01/12/25 07:36 | | Kareem | OK |
| 72 | P5208-17 | MBHNK8 | SAM | 01/12/25 07:40 | | Kareem | OK |
| 73 | P5208-18 | MBHNK9 | SAM | 01/12/25 07:44 | | Kareem | OK |
| 74 | P5206-01 | MBHN53 | SAM | 01/12/25 07:48 | Ca,Mg high | Kareem | Dilution |
| 75 | P5206-02 | MBHN82 | SAM | 01/12/25 07:52 | | Kareem | OK |
| 76 | P5206-03 | MBHN82D | DUP | 01/12/25 07:56 | | Kareem | OK |
| 77 | P5206-02L | MBHN82L | SD | 01/12/25 08:00 | | Kareem | OK |
| 78 | CCV004 | CCV004 | CCV | 01/12/25 08:04 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 79 | CCB004 | CCB004 | CCB | 01/12/25 08:08 | | Kareem | OK |
| 80 | P5206-04 | MBHN82S | MS | 01/12/25 08:12 | MS fail for As,Cu,Se,Zn | Kareem | OK |
| 81 | P5206-05 | MBHN83 | SAM | 01/12/25 08:16 | | Kareem | OK |
| 82 | P5206-06 | MBHN84 | SAM | 01/12/25 08:20 | | Kareem | OK |
| 83 | P5206-07 | MBHN85 | SAM | 01/12/25 08:24 | | Kareem | OK |
| 84 | P5206-08 | MBHN86 | SAM | 01/12/25 08:28 | | Kareem | OK |
| 85 | P5206-09 | MBHN87 | SAM | 01/12/25 08:32 | | Kareem | OK |
| 86 | P5206-10 | MBHN88 | SAM | 01/12/25 08:36 | Ca high | Kareem | Dilution |
| 87 | P5206-11 | MBHNA1 | SAM | 01/12/25 08:40 | | Kareem | OK |
| 88 | P5206-12 | MBHNA2 | SAM | 01/12/25 08:44 | | Kareem | OK |
| 89 | P5206-13 | MBHNA3 | SAM | 01/12/25 08:48 | | Kareem | OK |
| 90 | P5206-14 | MBHNA4 | SAM | 01/12/25 08:52 | | Kareem | OK |
| 91 | P5206-15 | MBHNA5 | SAM | 01/12/25 08:56 | | Kareem | OK |
| 92 | P5206-16 | MBHNA6 | SAM | 01/12/25 09:00 | | Kareem | OK |
| 93 | P5206-17 | MBHNA7 | SAM | 01/12/25 09:04 | | Kareem | OK |
| 94 | P5206-18 | MBHNJ9 | SAM | 01/12/25 09:08 | | Kareem | OK |
| 95 | P5206-19 | MBHNK0 | SAM | 01/12/25 09:12 | | Kareem | OK |
| 96 | P5197-01 | MBHMP6 | SAM | 01/12/25 09:16 | | Kareem | OK |
| 97 | P5197-02 | MBHMP7 | SAM | 01/12/25 09:20 | | Kareem | OK |
| 98 | P5197-03 | MBHMP8 | SAM | 01/12/25 09:24 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99 | P5197-04 | MBHMP9 | SAM | 01/12/25 09:28 | | Kareem | OK |
| 100 | CCV005 | CCV005 | CCV | 01/12/25 09:32 | | Kareem | OK |
| 101 | CCB005 | CCB005 | CCB | 01/12/25 09:36 | | Kareem | OK |
| 102 | P5197-05 | MBHMQ7 | SAM | 01/12/25 09:41 | | Kareem | OK |
| 103 | P5197-06 | MBHMQ8 | SAM | 01/12/25 09:44 | | Kareem | OK |
| 104 | P5197-07 | MBHMQ9 | SAM | 01/12/25 09:48 | | Kareem | OK |
| 105 | P5197-08 | MBHMQ9D | DUP | 01/12/25 09:52 | | Kareem | OK |
| 106 | P5197-07L | MBHMQ9L | SD | 01/12/25 09:56 | | Kareem | OK |
| 107 | P5197-09 | MBHMQ9S | MS | 01/12/25 10:00 | MS fail for Se | Kareem | OK |
| 108 | P5197-10 | MBHMR0 | SAM | 01/12/25 10:04 | | Kareem | OK |
| 109 | P5197-11 | MBHMR1 | SAM | 01/12/25 10:08 | | Kareem | OK |
| 110 | P5197-12 | MBHMR2 | SAM | 01/12/25 10:12 | | Kareem | OK |
| 111 | P5197-13 | MBHMR3 | SAM | 01/12/25 10:16 | | Kareem | OK |
| 112 | P5197-14 | MBHMS1 | SAM | 01/12/25 10:20 | | Kareem | OK |
| 113 | P5197-15 | MBHMS2 | SAM | 01/12/25 10:24 | | Kareem | OK |
| 114 | P5197-16 | MBHMS3 | SAM | 01/12/25 10:28 | | Kareem | OK |
| 115 | P5197-17 | MBHMS4 | SAM | 01/12/25 10:32 | | Kareem | OK |
| 116 | P5197-18 | MBHMS5 | SAM | 01/12/25 10:36 | | Kareem | OK |
| 117 | P5197-19 | MBHMS6 | SAM | 01/12/25 10:40 | | Kareem | OK |
| 118 | P5197-20 | MBHMS7 | SAM | 01/12/25 10:44 | Ca high | Kareem | Dilution |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 119 | P5197-21 | MBHMT8 | SAM | 01/12/25 10:48 | | Kareem | OK |
| 120 | P5197-22 | MBHMT9 | SAM | 01/12/25 10:52 | | Kareem | OK |
| 121 | CCV006 | CCV006 | CCV | 01/12/25 10:56 | | Kareem | OK |
| 122 | CCB006 | CCB006 | CCB | 01/12/25 11:00 | | Kareem | OK |
| 123 | P5388-01 | MH2D26 | SAM | 01/12/25 11:04 | | Kareem | OK |
| 124 | P5388-02 | MH2D29 | SAM | 01/12/25 11:08 | | Kareem | OK |
| 125 | P5388-03 | MH2D32 | SAM | 01/12/25 11:13 | | Kareem | OK |
| 126 | P5388-04 | MH2D35 | SAM | 01/12/25 11:17 | | Kareem | OK |
| 127 | P5388-05 | MH2D38 | SAM | 01/12/25 11:21 | | Kareem | OK |
| 128 | P5388-06 | MH2D41 | SAM | 01/12/25 11:25 | | Kareem | OK |
| 129 | P5388-07 | MH2D44 | SAM | 01/12/25 11:29 | | Kareem | OK |
| 130 | P5388-08 | MH2D47 | SAM | 01/12/25 11:33 | | Kareem | OK |
| 131 | P5388-09 | MH2D50 | SAM | 01/12/25 11:38 | | Kareem | OK |
| 132 | P5388-10 | MH2D53 | SAM | 01/12/25 11:42 | | Kareem | OK |
| 133 | P5388-11 | MH2D56 | SAM | 01/12/25 11:46 | Fe high | Kareem | Dilution |
| 134 | P5388-12 | MH2D59 | SAM | 01/12/25 11:50 | | Kareem | OK |
| 135 | P5388-13 | MH2D62 | SAM | 01/12/25 11:54 | | Kareem | OK |
| 136 | P5388-14 | MH2D65 | SAM | 01/12/25 11:58 | | Kareem | OK |
| 137 | P5388-15 | MH2D68 | SAM | 01/12/25 12:02 | | Kareem | OK |
| 138 | P5388-16 | MH2D71 | SAM | 01/12/25 12:07 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 139 | P5388-17 | MH2D74 | SAM | 01/12/25 12:11 | | Kareem | OK |
| 140 | P5388-18 | MH2D74D | DUP | 01/12/25 12:15 | | Kareem | OK |
| 141 | P5388-17L | MH2D74L | SD | 01/12/25 12:19 | | Kareem | OK |
| 142 | P5388-19 | MH2D74S | MS | 01/12/25 12:23 | | Kareem | OK |
| 143 | P5393-01RE | MH2D28 | SAM | 01/12/25 12:27 | NOT USE | Kareem | Not Ok |
| 144 | CCV007 | CCV007 | CCV | 01/12/25 12:37 | | Kareem | OK |
| 145 | CCB007 | CCB007 | CCB | 01/12/25 12:41 | | Kareem | OK |
| 146 | P5201-01 | MBHMY5 | SAM | 01/12/25 12:45 | | Kareem | OK |
| 147 | P5201-02 | MBHMY6 | SAM | 01/12/25 12:49 | | Kareem | OK |
| 148 | P5201-03 | MBHMY7 | SAM | 01/12/25 12:53 | | Kareem | OK |
| 149 | P5201-04 | MBHMY8 | SAM | 01/12/25 12:57 | | Kareem | OK |
| 150 | P5201-05 | MBHMY9 | SAM | 01/12/25 13:01 | | Kareem | OK |
| 151 | P5201-06 | MBHMZ0 | SAM | 01/12/25 13:05 | | Kareem | OK |
| 152 | P5201-07 | MBHMZ1 | SAM | 01/12/25 13:09 | | Kareem | OK |
| 153 | P5201-08 | MBHNA8 | SAM | 01/12/25 13:13 | | Kareem | OK |
| 154 | P5201-09 | MBHNA9 | SAM | 01/12/25 13:17 | | Kareem | OK |
| 155 | P5201-10 | MBHNB0 | SAM | 01/12/25 13:21 | | Kareem | OK |
| 156 | P5201-11 | MBHNB1 | SAM | 01/12/25 13:25 | | Kareem | OK |
| 157 | P5201-12 | MBHNB2 | SAM | 01/12/25 13:29 | | Kareem | OK |
| 158 | P5201-13 | MBHNB3 | SAM | 01/12/25 13:33 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 159 | P5201-14 | MBHNB4 | SAM | 01/12/25 13:37 | | Kareem | OK |
| 160 | P5201-15 | MBHNE3 | SAM | 01/12/25 13:41 | | Kareem | OK |
| 161 | P5201-16 | MBHNE4 | SAM | 01/12/25 13:44 | | Kareem | OK |
| 162 | P5201-17 | MBHNE5 | SAM | 01/12/25 13:48 | | Kareem | OK |
| 163 | P5201-18 | MBHNE6 | SAM | 01/12/25 13:52 | | Kareem | OK |
| 164 | P5201-19 | MBHNE7 | SAM | 01/12/25 13:56 | | Kareem | OK |
| 165 | CCV008 | CCV008 | CCV | 01/12/25 14:00 | | Kareem | OK |
| 166 | CCB008 | CCB008 | CCB | 01/12/25 14:04 | | Kareem | OK |
| 167 | P5201-20 | MBHNE7D | DUP | 01/12/25 14:09 | | Kareem | OK |
| 168 | P5201-19L | MBHNE7L | SD | 01/12/25 14:13 | | Kareem | OK |
| 169 | P5201-21 | MBHNE7S | MS | 01/12/25 14:17 | MS fail for As,Ba,Cu,Se | Kareem | OK |
| 170 | P5201-22 | MBHNE8 | SAM | 01/12/25 14:20 | | Kareem | OK |
| 171 | P5210-01 | MBHNC3 | SAM | 01/12/25 14:24 | | Kareem | OK |
| 172 | P5210-02 | MBHNC4 | SAM | 01/12/25 14:28 | | Kareem | OK |
| 173 | P5210-03 | MBHNC5 | SAM | 01/12/25 14:32 | | Kareem | OK |
| 174 | P5210-04 | MBHNC6 | SAM | 01/12/25 14:36 | | Kareem | OK |
| 175 | P5210-05 | MBHNC7 | SAM | 01/12/25 14:40 | Ca high | Kareem | Dilution |
| 176 | P5210-06 | MBHNC8 | SAM | 01/12/25 14:44 | Ca high | Kareem | Dilution |
| 177 | P5210-07 | MBHNH8 | SAM | 01/12/25 14:48 | | Kareem | OK |
| 178 | P5210-08 | MBHNH9 | SAM | 01/12/25 14:52 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

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|---|---|---|---|---|---|---|---|
| 179 | P5210-09 | MBHNJ0 | SAM | 01/12/25 14:56 | | Kareem | OK |
| 180 | P5210-10 | MBHNJ0D | DUP | 01/12/25 15:00 | | Kareem | OK |
| 181 | P5210-09L | MBHNJ0L | SD | 01/12/25 15:05 | | Kareem | OK |
| 182 | P5210-11 | MBHNJ0S | MS | 01/12/25 15:09 | MS fail for As,Ba,Cu,Se | Kareem | OK |
| 183 | P5210-12 | MBHNJ1 | SAM | 01/12/25 15:13 | | Kareem | OK |
| 184 | P5210-13 | MBHNJ2 | SAM | 01/12/25 15:17 | | Kareem | OK |
| 185 | P5210-14 | MBHNL0 | SAM | 01/12/25 15:21 | Ca high | Kareem | Dilution |
| 186 | P5210-15 | MBHNL1 | SAM | 01/12/25 15:25 | | Kareem | OK |
| 187 | P5211-01 | MBHMR4 | SAM | 01/12/25 15:29 | | Kareem | OK |
| 188 | CCV009 | CCV009 | CCV | 01/12/25 15:55 | | Kareem | OK |
| 189 | CCB009 | CCB009 | CCB | 01/12/25 16:00 | | Kareem | OK |
| 190 | P5211-20 | MBHNL7 | SAM | 01/12/25 16:03 | | Kareem | OK |
| 191 | P5211-21 | MBHNL7D | DUP | 01/12/25 16:07 | | Kareem | OK |
| 192 | P5211-20L | MBHNL7L | SD | 01/12/25 16:11 | | Kareem | OK |
| 193 | P5211-22 | MBHNL7S | MS | 01/12/25 16:16 | MS fail for As,Mn,Se | Kareem | OK |
| 194 | P5212-05 | MBHNF3 | SAM | 01/12/25 16:19 | | Kareem | OK |
| 195 | P5212-06 | MBHNF3D | DUP | 01/12/25 16:23 | | Kareem | OK |
| 196 | P5212-05L | MBHNF3L | SD | 01/12/25 16:27 | | Kareem | OK |
| 197 | P5212-07 | MBHNF3S | MS | 01/12/25 16:31 | MS fail for As,Ba,Be,Cr,Cu,Se,V,Zn | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 198 | P5211-10 | MBHN08 | SAM | 01/12/25 16:35 | | Kareem | OK |
| 199 | P5211-11 | MBHN09 | SAM | 01/12/25 16:39 | | Kareem | OK |
| 200 | P5211-12 | MBHN10 | SAM | 01/12/25 16:43 | | Kareem | OK |
| 201 | P5211-13 | MBHN11 | SAM | 01/12/25 16:47 | | Kareem | OK |
| 202 | P5211-14 | MBHN12 | SAM | 01/12/25 16:51 | | Kareem | OK |
| 203 | P5211-15 | MBHN13 | SAM | 01/12/25 16:55 | | Kareem | OK |
| 204 | P5211-16 | MBHN14 | SAM | 01/12/25 16:59 | | Kareem | OK |
| 205 | P5211-17 | MBHN15 | SAM | 01/12/25 17:03 | | Kareem | OK |
| 206 | P5211-18 | MBHN16 | SAM | 01/12/25 17:07 | | Kareem | OK |
| 207 | P5211-19 | MBHN17 | SAM | 01/12/25 17:11 | | Kareem | OK |
| 208 | P5211-02 | MBHMR5 | SAM | 01/12/25 17:15 | | Kareem | OK |
| 209 | P5211-03 | MBHMR6 | SAM | 01/12/25 17:19 | | Kareem | OK |
| 210 | CCV010 | CCV010 | CCV | 01/12/25 17:23 | | Kareem | OK |
| 211 | CCB010 | CCB010 | CCB | 01/12/25 17:28 | | Kareem | OK |
| 212 | P5211-04 | MBHMR7 | SAM | 01/12/25 17:32 | | Kareem | OK |
| 213 | P5211-05 | MBHMR8 | SAM | 01/12/25 17:36 | | Kareem | OK |
| 214 | P5212-01 | MBHN19 | SAM | 01/12/25 17:40 | | Kareem | OK |
| 215 | P5212-02 | MBHNF0 | SAM | 01/12/25 17:44 | | Kareem | OK |
| 216 | P5212-03 | MBHNF1 | SAM | 01/12/25 17:48 | | Kareem | OK |
| 217 | P5212-04 | MBHNF2 | SAM | 01/12/25 17:52 | | Kareem | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 218 | P5211-06 | MBHMR9 | SAM | 01/12/25 17:55 | | Kareem | OK |
| 219 | P5211-07 | MBHMS0 | SAM | 01/12/25 17:59 | | Kareem | OK |
| 220 | P5211-08 | MBHN06 | SAM | 01/12/25 18:03 | | Kareem | OK |
| 221 | P5211-09 | MBHN07 | SAM | 01/12/25 18:07 | | Kareem | OK |
| 222 | P5212-09 | MBHNJ4 | SAM | 01/12/25 18:11 | | Kareem | OK |
| 223 | P5212-10 | MBHNF5 | SAM | 01/12/25 18:15 | | Kareem | OK |
| 224 | P5212-11 | MBHNF6 | SAM | 01/12/25 18:19 | | Kareem | OK |
| 225 | P5212-12 | MBHNL2 | SAM | 01/12/25 18:23 | | Kareem | OK |
| 226 | P5212-13 | MBHNL3 | SAM | 01/12/25 18:27 | | Kareem | OK |
| 227 | P5212-14 | MBHNL4 | SAM | 01/12/25 18:31 | | Kareem | OK |
| 228 | P5212-15 | MBHNL5 | SAM | 01/12/25 18:35 | | Kareem | OK |
| 229 | P5212-16 | MBHNL6 | SAM | 01/12/25 18:39 | | Kareem | OK |
| 230 | P5212-20 | MBHNL8 | SAM | 01/12/25 18:43 | | Kareem | OK |
| 231 | P5212-21 | MBHNL9 | SAM | 01/12/25 18:47 | | Kareem | OK |
| 232 | CCV011 | CCV011 | CCV | 01/12/25 18:51 | | Kareem | OK |
| 233 | CCB011 | CCB011 | CCB | 01/12/25 18:55 | | Kareem | OK |
| 234 | P5212-22 | MBHNM0 | SAM | 01/12/25 19:00 | | Kareem | OK |
| 235 | P5212-23 | MBHN18 | SAM | 01/12/25 19:04 | Mn high | Kareem | Dilution |
| 236 | P5209-07DL | MBHMZ8 | SAM | 01/12/25 19:08 | 2x for Ca | Kareem | Confirms |
| 237 | P5206-01DL | MBHN53 | SAM | 01/12/25 19:12 | 5x for Ca,Mg | Kareem | Confirms |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 238 | P5206-10DL | MBHN88 | SAM | 01/12/25 19:16 | 2x for Ca | Kareem | Confirms |
| 239 | P5197-20DL | MBHMS7 | SAM | 01/12/25 19:20 | 2x for Ca, Still Ca high | Kareem | Dilution |
| 240 | P5388-12DL | MH2D59 | SAM | 01/12/25 19:24 | NOT USE | Kareem | Not Ok |
| 241 | P5210-05DL | MBHNC7 | SAM | 01/12/25 19:28 | 2x for Ca | Kareem | Confirms |
| 242 | P5210-06DL | MBHNC8 | SAM | 01/12/25 19:33 | 2x for Ca | Kareem | Confirms |
| 243 | P5197-07A | MBHMQ9A | PS | 01/12/25 19:37 | Ps for Se-0.007 MP84003 - 10 ml sample | Kareem | OK |
| 244 | P5201-19A | MBHNE7A | PS | 01/12/25 19:41 | PS for As-0.014 MP84000, Ba-0.012 M6032, Cu-0.0033 M5697, Se-0.007 MP84003 - 10 ml sample | Kareem | OK |
| 245 | P5206-02A | MBHN82A | PS | 01/12/25 19:44 | PS for As-0.0019 M5801, Cu-0.01 M5697, Se-0.007 MP84003, Zn-0.066 M5819 - 10 ml sample | Kareem | OK |
| 246 | P5208-11A | MBHNK4A | PS | 01/12/25 19:48 | PS for Se-0.007 MP84003, Zn-0.055 M5819 - 10 ml sample | Kareem | OK |
| 247 | P5209-14A | MBHN81A | PS | 01/12/25 19:52 | PS for Se-0.007 MP84003 - 10 ml sample | Kareem | OK |
| 248 | P5211-20A | MBHNL7A | PS | 01/12/25 19:56 | PS for As-0.0051 MP84000, Mn-0.074 M5698, Se-0.007 MP84003 - 10 ml sample | Kareem | OK |
| | | | | | | | |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 249 | P5212-05A | MBHNF3A | PS | 01/12/25 20:00 | PS for As-0.0164 MP84000, Ba-0.03 M6032, Be-0.01 MP84001, Cr-0.003 M5658, Cu-0.007 M5697, Se-0.007 MP84003, V-0.0029 M6021, Zn-0.025 M5819 - 10 ml sample | Kareem | OK |
| 250 | P5210-09A | MBHNJ0A | PS | 01/12/25 20:04 | PS for As-0.011 MP84000, Ba-0.0082 M6032, Cu-0.004 M5697 , Se-0.007 MP84003 - 10 ml sample | Kareem | OK |
| 251 | CCV012 | CCV012 | CCV | 01/12/25 20:08 | | Kareem | OK |
| 252 | CCB012 | CCB012 | CCB | 01/12/25 20:17 | Inst. paused for review | Kareem | OK |
| 253 | P5393-01 | MH2D28 | SAM | 01/12/25 20:21 | NOT USE | Kareem | Not Ok |
| 254 | P5393-02 | MH2D31 | SAM | 01/12/25 20:25 | NOT USE | Kareem | Not Ok |
| 255 | P5393-03 | MH2D34 | SAM | 01/12/25 20:29 | NOT USE | Kareem | Not Ok |
| 256 | P5393-04 | MH2D37 | SAM | 01/12/25 20:33 | NOT USE | Kareem | Not Ok |
| 257 | P5393-05 | MH2D40 | SAM | 01/12/25 20:38 | NOT USE | Kareem | Not Ok |
| 258 | P5393-06 | MH2D43 | SAM | 01/12/25 20:42 | NOT USE | Kareem | Not Ok |
| 259 | P5393-07 | MH2D46 | SAM | 01/12/25 20:46 | NOT USE | Kareem | Not Ok |
| 260 | P5393-08 | MH2D49 | SAM | 01/12/25 20:50 | NOT USE | Kareem | Not Ok |
| 261 | P5393-09 | MH2D52 | SAM | 01/12/25 20:54 | NOT USE | Kareem | Not Ok |
| 262 | P5393-10 | MH2D55 | SAM | 01/12/25 20:58 | NOT USE | Kareem | Not Ok |
| 263 | P5393-11 | MH2D58 | SAM | 01/12/25 21:02 | NOT USE | Kareem | Not Ok |

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

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 264 | P5393-12 | MH2D61 | SAM | 01/12/25 21:06 | NOT USE | Kareem | Not Ok |
| 265 | P5393-13 | MH2D64 | SAM | 01/12/25 21:11 | NOT USE | Kareem | Not Ok |
| 266 | P5393-14 | MH2D67 | SAM | 01/12/25 21:15 | NOT USE | Kareem | Not Ok |
| 267 | P5393-15 | MH2D70 | SAM | 01/12/25 21:19 | NOT USE | Kareem | Not Ok |
| 268 | P5393-16 | MH2D73 | SAM | 01/12/25 21:24 | NOT USE | Kareem | Not Ok |
| 269 | P5393-17 | MH2D76 | SAM | 01/12/25 21:28 | NOT USE | Kareem | Not Ok |
| 270 | P5393-18 | MH2D76D | DUP | 01/12/25 21:32 | NOT USE | Kareem | Not Ok |
| 271 | P5393-17L | MH2D76L | SD | 01/12/25 21:36 | NOT USE | Kareem | Not Ok |
| 272 | CCV013 | CCV013 | CCV | 01/12/25 21:40 | | Kareem | OK |
| 273 | CCB013 | CCB013 | CCB | 01/12/25 21:45 | | Kareem | OK |
| 274 | P5393-19 | MH2D76S | MS | 01/12/25 21:49 | NOT USE | Kareem | Not Ok |
| 275 | PB165942TB | LEB942 | MB | 01/12/25 21:53 | NOT USE | Kareem | Not Ok |
| 276 | P5392-01 | MH2D27 | SAM | 01/12/25 21:57 | NOT USE | Kareem | Not Ok |
| 277 | P5392-02 | MH2D30 | SAM | 01/12/25 22:01 | NOT USE | Kareem | Not Ok |
| 278 | P5392-03 | MH2D33 | SAM | 01/12/25 22:06 | NOT USE | Kareem | Not Ok |
| 279 | P5392-04 | MH2D36 | SAM | 01/12/25 22:10 | NOT USE | Kareem | Not Ok |
| 280 | P5392-05 | MH2D39 | SAM | 01/12/25 22:14 | NOT USE | Kareem | Not Ok |
| 281 | P5392-06 | MH2D42 | SAM | 01/12/25 22:18 | NOT USE | Kareem | Not Ok |
| 282 | P5392-07 | MH2D45 | SAM | 01/12/25 22:22 | NOT USE | Kareem | Not Ok |
| 283 | P5392-08 | MH2D48 | SAM | 01/12/25 22:26 | NOT USE | Kareem | Not Ok |

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

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134242

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/13/2025 6:55:07 AM |
| Supervise By | Mohan Bera | Supervise On | 1/13/2025 6:55:51 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 | |
| LCS Standard | MP83506 |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 284 | P5392-09 | MH2D51 | SAM | 01/12/25 22:31 | NOT USE | Kareem | Not Ok |
| 285 | P5392-10 | MH2D54 | SAM | 01/12/25 22:35 | NOT USE | Kareem | Not Ok |
| 286 | P5392-11 | MH2D57 | SAM | 01/12/25 22:39 | NOT USE | Kareem | Not Ok |
| 287 | P5392-12 | MH2D60 | SAM | 01/12/25 22:43 | NOT USE | Kareem | Not Ok |
| 288 | P5392-13 | MH2D63 | SAM | 01/12/25 22:47 | NOT USE | Kareem | Not Ok |
| 289 | P5392-14 | MH2D66 | SAM | 01/12/25 22:51 | NOT USE | Kareem | Not Ok |
| 290 | P5392-15 | MH2D69 | SAM | 01/12/25 22:55 | NOT USE | Kareem | Not Ok |
| 291 | P5392-16 | MH2D72 | SAM | 01/12/25 23:00 | NOT USE | Kareem | Not Ok |
| 292 | P5392-17 | MH2D75 | SAM | 01/12/25 23:04 | NOT USE | Kareem | Not Ok |
| 293 | P5392-18 | MH2D75D | DUP | 01/12/25 23:08 | NOT USE | Kareem | Not Ok |
| 294 | P5392-17L | MH2D75L | SD | 01/12/25 23:13 | NOT USE | Kareem | Not Ok |
| 295 | CCV014 | CCV014 | CCV | 01/12/25 23:17 | K,Tl fail | Kareem | OK |
| 296 | CCB014 | CCB014 | CCB | 01/12/25 23:21 | | Kareem | OK |
| 297 | P5392-19 | MH2D75S | MS | 01/12/25 23:25 | NOT USE | Kareem | Not Ok |
| 298 | PB165941TB | LEB941 | MB | 01/12/25 23:29 | NOT USE | Kareem | Not Ok |
| 299 | P5212-23DL | MBHN18 | SAM | 01/12/25 23:34 | 5x for Mn | Kareem | Confirms |
| 300 | CCV015 | CCV015 | CCV | 01/12/25 23:38 | Al,Ca,K fail | Kareem | OK |
| 301 | CCB015 | CCB015 | CCB | 01/12/25 23:42 | | Kareem | OK |

ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 06DEC24
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 REF: US000650
INV: 03.02.02.EXP
PO: 31800192.009A DEPT: EMMANUEL GARCIA

58CJ4/EB78/C8C4

FedEx Express

7 of 8

MPS# 0263 7705 5866 1595
Mstr# 7705 5865 9768

**SATURDAY 1:30P**
**PRIORITY OVERNIGHT**

0201

**X0 KBCA**

07092
NJ-US EWR

After printing this label:
**CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH**
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Dem
12/7/24
9:55
2-3

728

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Login Summary Report

| | | | | | |
|---|---|---|---|---|---|
| Order ID : | P5209 | Order Date : | 12/7/2024 9:55:00 AM | Project Mgr : | Deepak |
| Client : | USEPA CLP SMO | Project : | 51879 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 12/7/2024 9:55:00 AM | EDD Type : | EPA CLP |
| Date Sign Off : | 12/9/2024 12:15:42 PM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|---|---|---|---|---|---|---|---|---|---|
| P5209-01 | MBHMZ2 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-02 | MBHMZ3 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-03 | MBHMZ4 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-04 | MBHMZ5 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-05 | MBHMZ6 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-06 | MBHMZ7 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-07 | MBHMZ8 | Solid | 11/20/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-08 | MBHN75 | Solid | 11/22/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-09 | MBHN76 | Solid | 11/22/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-10 | MBHN77 | Solid | 11/22/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P5209-11 | MBHN78 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-12 | MBHN79 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-13 | MBHN80 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-14 | MBHN81 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-15 | MBHN81D | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-16 | MBHN81S | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-17 | MBHN96 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-18 | MBHN97 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-19 | MBHN98 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-20 | MBHN99 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-21 | MBHNA0 | Solid | 11/22/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |
| P5209-22 | MBHNC2 | Solid | 11/19/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/13/2025 | 01/13/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/13/2025 | 01/13/2025 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB165886 **WorkList ID :** 186664 **Department :** Digestion **Date :** 12-27-2024 09:52:23

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5209-01 | MBHMZ2 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-02 | MBHMZ3 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-03 | MBHMZ4 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-04 | MBHMZ5 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-05 | MBHMZ6 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-06 | MBHMZ7 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-07 | MBHMZ8 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/20/2024 | SFAM_AES |
| P5209-08 | MBHN75 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-09 | MBHN76 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-10 | MBHN77 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-11 | MBHN78 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-12 | MBHN79 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-13 | MBHN80 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-14 | MBHN81 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-15 | MBHN81D | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-16 | MBHN81S | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-17 | MBHN96 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-18 | MBHN97 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-19 | MBHN98 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-20 | MBHN99 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |
| P5209-21 | MBHNA0 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/22/2024 | SFAM_AES |

731

**Date/Time** 12/27/24 10:15

**Raw Sample Received by:** SLG. met digestion

**Raw Sample Relinquished by:** RM SM

**Date/Time** 12/27/24 11:15

**Raw Sample Received by:** RM SM

**Raw Sample Relinquished by:** SLG. met digestion

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB165886 **WorkList ID :** 186664 **Department :** Digestion **Date :** 12-27-2024 09:52:23

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5209-22 | MBHNC2 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C32 | 11/19/2024 | SFAM_AES |

732

**Date/Time** 12/27/24 10:15

**Raw Sample Received by:** SRG. met digestion

**Raw Sample Relinquished by:** Rm 8m



**Date/Time** 12/27/24 11:15

**Raw Sample Received by:** Rm 8m

**Raw Sample Relinquished by:** SRG. met digestion