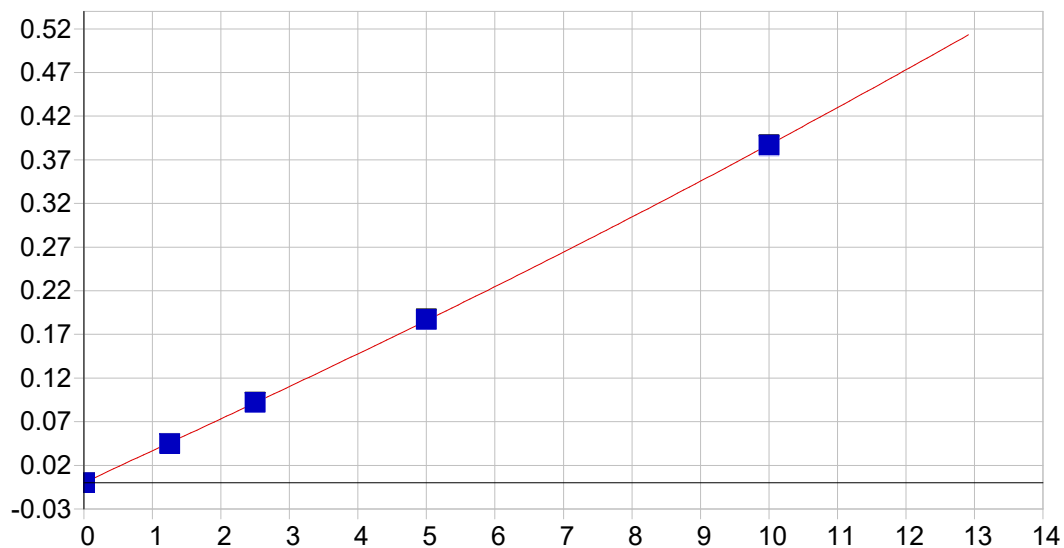




**As 189.042 {479}**

Date of Fit: 05/20/2019 11:57:21

Type of Fit: Full Fit

Weighting: 1/Conc

A0 (Offset): -0.000294

Re-Slope: 1.000000

A1 (Gain): 0.036511

Y-int: 0.000000

A2 (Curvature): 0.000537

n (Exponent): 0.970000

Correlation: 0.999950

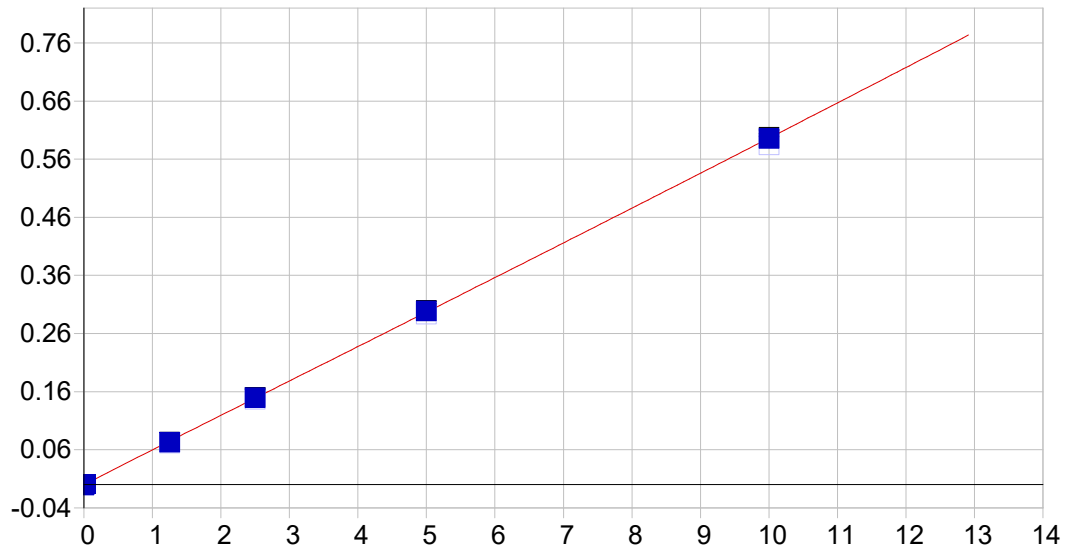
Status: Warning Positive Curvature

Std Error of Est: 0.000009

Predicted MDL: 0.003176

Predicted MQL: 0.010586

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00029 | .000    | 1        |
| S1        | .01000       | .01282      | .003       | 28.2    | .00024  | .000    | 1        |
| S2        | 1.2500       | 1.2197      | -.030      | -2.42   | .04460  | .000    | 1        |
| S3        | 2.5000       | 2.5078      | .008       | .314    | .09165  | .000    | 1        |
| S4        | 5.0000       | 5.0341      | .034       | .682    | .18652  | .001    | 1        |
| S5        | 10.000       | 9.9856      | -.014      | -.144   | .38534  | .001    | 1        |

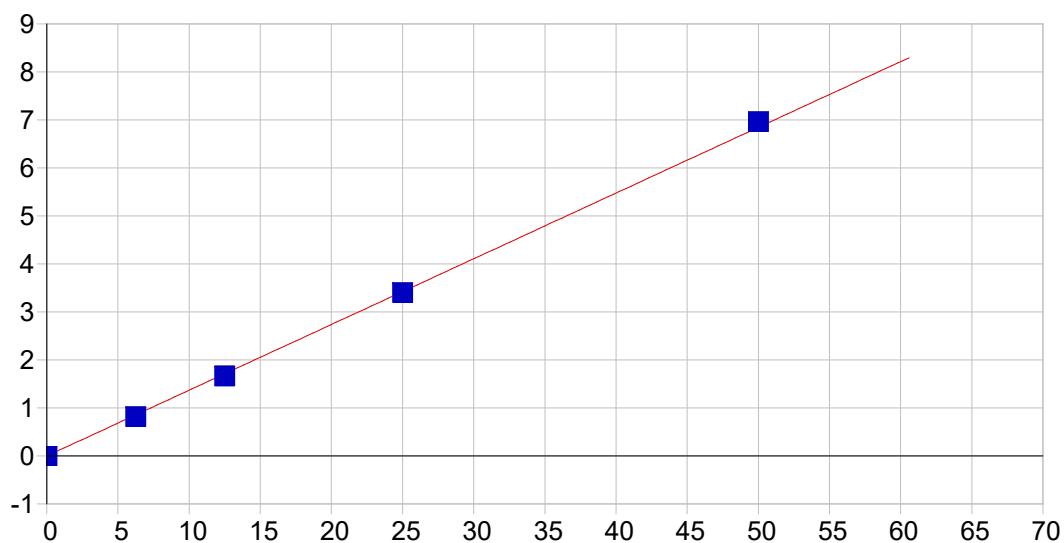


TI 190.856 {477}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Full Fit Weighting: 1/Conc

A0 (Offset): -0.000732 Re-Slope: 1.000000  
 A1 (Gain): 0.060391 Y-int: 0.000000  
 A2 (Curvature): 0.000222  
 n (Exponent): 0.980000  
 Correlation: 0.999936 Status: Warning Positive Curvature  
 Std Error of Est: 0.000025  
 Predicted MDL: 0.002012  
 Predicted MQL: 0.006707

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00073 | .000    | 1        |
| S1        | .02500       | .03018      | .005       | 20.7    | .00116  | .000    | 1        |
| S2        | 1.2500       | 1.2181      | -.032      | -2.55   | .07147  | .000    | 1        |
| S3        | 2.5000       | 2.5078      | .008       | .311    | .14652  | .001    | 1        |
| S4        | 5.0000       | 5.0340      | .034       | .679    | .29330  | .001    | 1        |
| S5        | 10.000       | 9.9851      | -.015      | -.149   | .58417  | .002    | 1        |

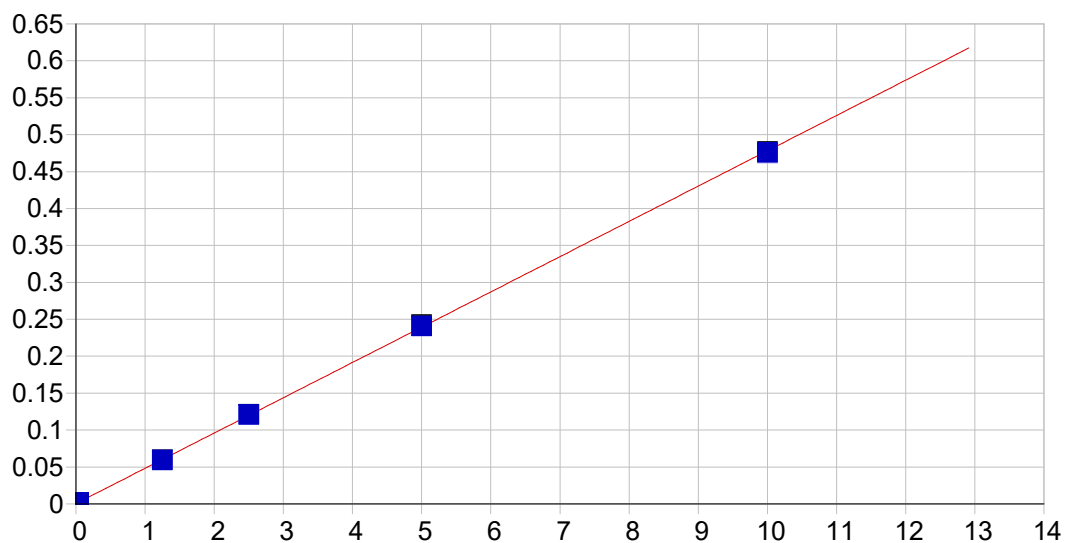


### Pb 220.353 {453}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000191 Re-Slope: 1.000000  
 A1 (Gain): 0.136907 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999780 Status: OK.  
 Std Error of Est: 0.000108  
 Predicted MDL: 0.001934  
 Predicted MQL: 0.006448

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00019 | .000    | 1        |
| S1        | .01000       | .01063      | .001       | 6.31    | .00126  | .000    | 1        |
| S2        | 6.2500       | 5.9486      | -.301      | -4.82   | .81413  | .000    | 1        |
| S3        | 12.500       | 12.129      | -.371      | -2.97   | 1.6602  | .001    | 1        |
| S4        | 25.000       | 24.821      | -.179      | -.717   | 3.3976  | .003    | 1        |
| S5        | 50.000       | 50.851      | .851       | 1.70    | 6.9609  | .006    | 1        |

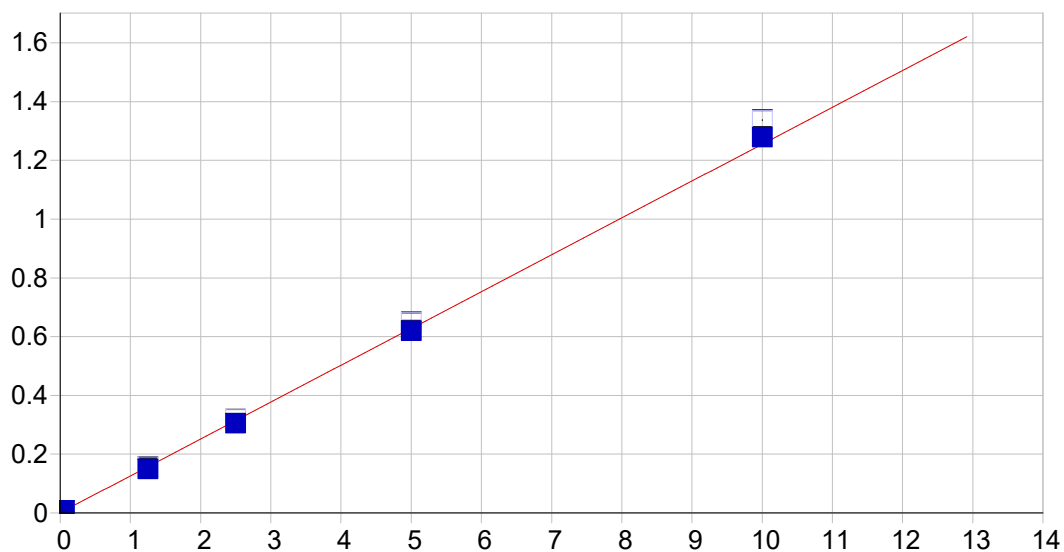


**Se 196.090 {472}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.000430 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.047775 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999961 | Status:   | OK.      |
| Std Error of Est: | 0.000013 |           |          |
| Predicted MDL:    | 0.002999 |           |          |
| Predicted MQL:    | 0.009997 |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00043 | .000    | 1        |
| S1        | .03500       | .03950      | .005       | 12.9    | .00232 | .000    | 1        |
| S2        | 1.2500       | 1.2344      | -.016      | -1.25   | .05925 | .000    | 1        |
| S3        | 2.5000       | 2.5204      | .020       | .815    | .12053 | .001    | 1        |
| S4        | 5.0000       | 5.0376      | .038       | .752    | .24047 | .001    | 1        |
| S5        | 10.000       | 9.9531      | -.047      | -.469   | .47468 | .001    | 1        |

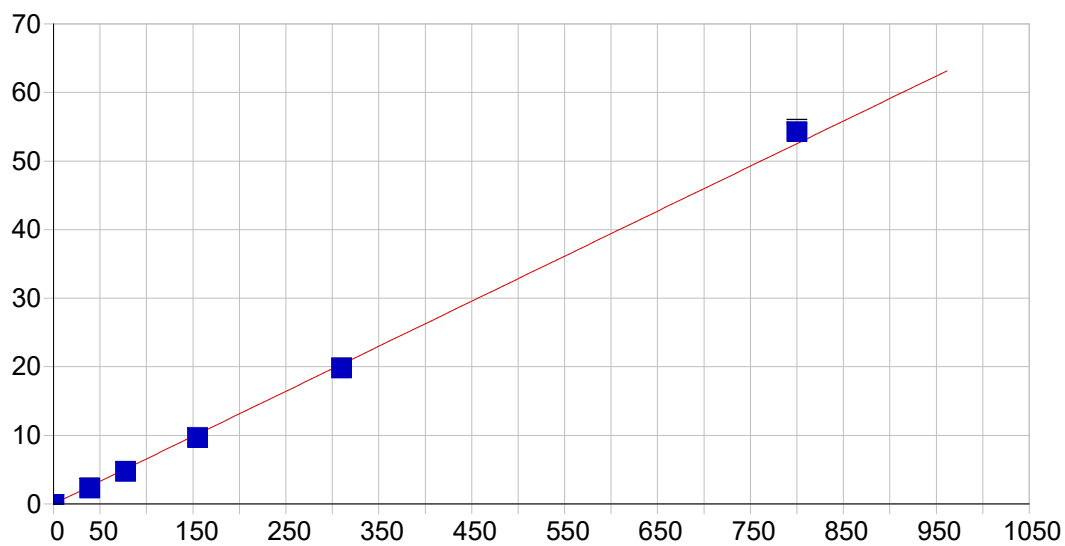


**Sb 206.833 {463}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000715 Re-Slope: 1.000000  
 A1 (Gain): 0.125439 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999709 Status: OK.  
 Std Error of Est: 0.000130  
 Predicted MDL: 0.001647  
 Predicted MQL: 0.005490

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00071 | .000    | 1        |
| S1        | .06000       | .07083      | .011       | 18.1    | .00961 | .000    | 1        |
| S2        | 1.2500       | 1.1874      | -.063      | -5.01   | .15688 | .001    | 1        |
| S3        | 2.5000       | 2.4227      | -.077      | -3.09   | .31906 | .000    | 1        |
| S4        | 5.0000       | 4.9371      | -.063      | -1.26   | .64890 | .002    | 1        |
| S5        | 10.000       | 10.192      | .192       | 1.92    | 1.3370 | .002    | 1        |

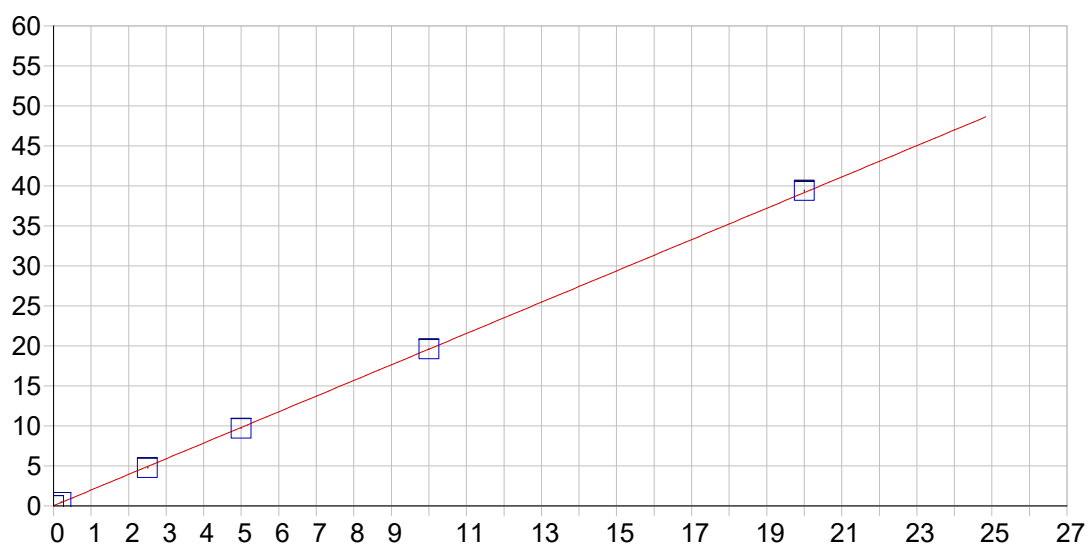


AI 396.152 { 85}

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.003661 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.065680 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999147 | Status:   | OK.      |
| Std Error of Est: | 0.001689 |           |          |
| Predicted MDL:    | 0.009890 |           |          |
| Predicted MQL:    | 0.032966 |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00003      | .000       | .000    | .00366 | .000    | 1        |
| S1        | .20000       | .21880      | .019       | 9.40    | .01826 | .000    | 1        |
| S2        | 38.750       | 34.980      | -3.77      | -9.73   | 2.3062 | .001    | 1        |
| S3        | 77.500       | 71.868      | -5.63      | -7.27   | 4.7341 | .012    | 1        |
| S4        | 155.00       | 146.67      | -8.33      | -5.38   | 9.6572 | .029    | 1        |
| S5        | 310.00       | 301.13      | -8.87      | -2.86   | 19.823 | .043    | 1        |
| S6        | 800.00       | 826.62      | 26.6       | 3.33    | 54.329 | .300    | 1        |

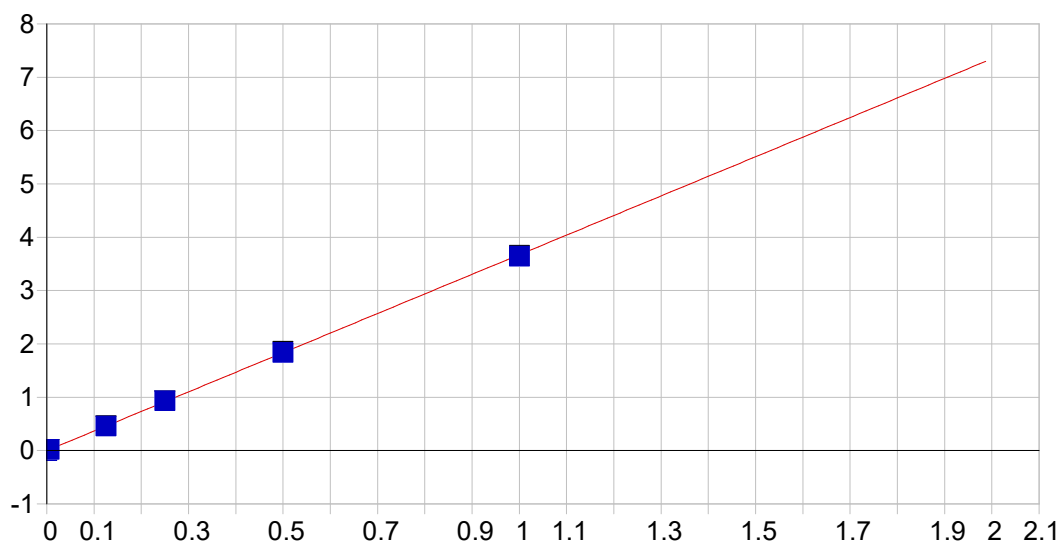


**Ba 493.409 { 68}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.029362 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 1.956695 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999853 | Status:   | OK.      |
| Std Error of Est: | 0.003567 |           |          |
| Predicted MDL:    | 0.000968 |           |          |
| Predicted MQL:    | 0.003228 |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00003     | -.000      | .000    | .02931 | .001    | 1        |
| S1        | .20000       | .23567      | .036       | 17.8    | .49049 | .000    | 1        |
| S2        | 2.5000       | 2.4117      | -.088      | -3.53   | 4.7482 | .004    | 1        |
| S3        | 5.0000       | 4.9338      | -.066      | -1.32   | 9.6833 | .022    | 1        |
| S4        | 10.000       | 9.9981      | -.002      | -.019   | 19.593 | .045    | 1        |
| S5        | 20.000       | 20.121      | .121       | .604    | 39.400 | .095    | 1        |



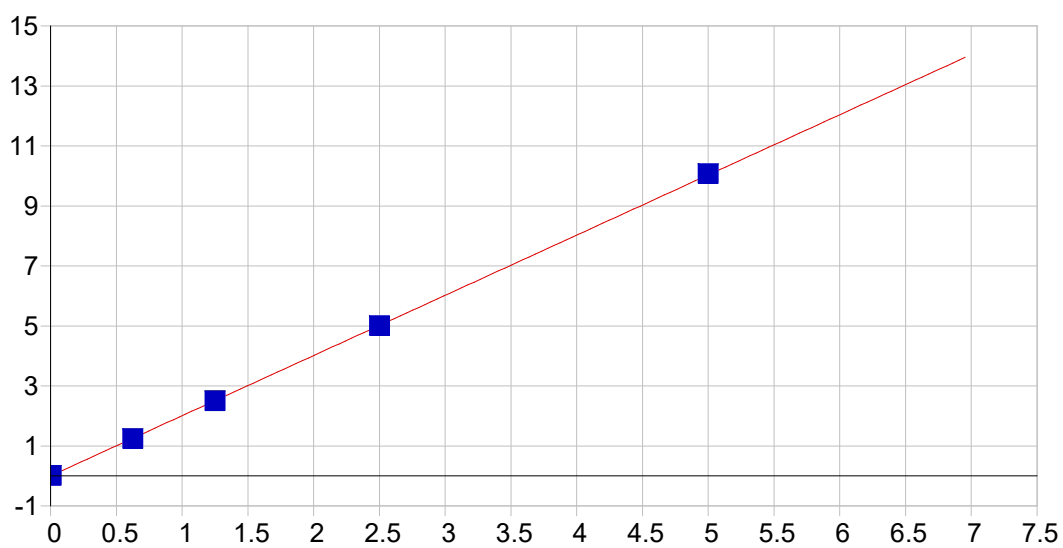
**Be 234.861 {144}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |           |           |          |
|-------------------|-----------|-----------|----------|
| A0 (Offset):      | -0.001427 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 3.673922  | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000  |           |          |
| n (Exponent):     | 1.000000  |           |          |
| Correlation:      | 0.999884  | Status:   | OK.      |
| Std Error of Est: | 0.000209  |           |          |
| Predicted MDL:    | 0.000069  |           |          |
| Predicted MQL:    | 0.000230  |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00143 | .000    | 1        |
| S1        | .00500       | .00623      | .001       | 24.6    | .02146  | .000    | 1        |
| S2        | .12500       | .12583      | .001       | .663    | .45934  | .003    | 1        |
| S3        | .25000       | .25416      | .004       | 1.66    | .92927  | .006    | 1        |
| S4        | .50000       | .50107      | .001       | .214    | 1.8334  | .022    | 1        |
| S5        | 1.0000       | .99271      | -.007      | -.729   | 3.6335  | .018    | 1        |



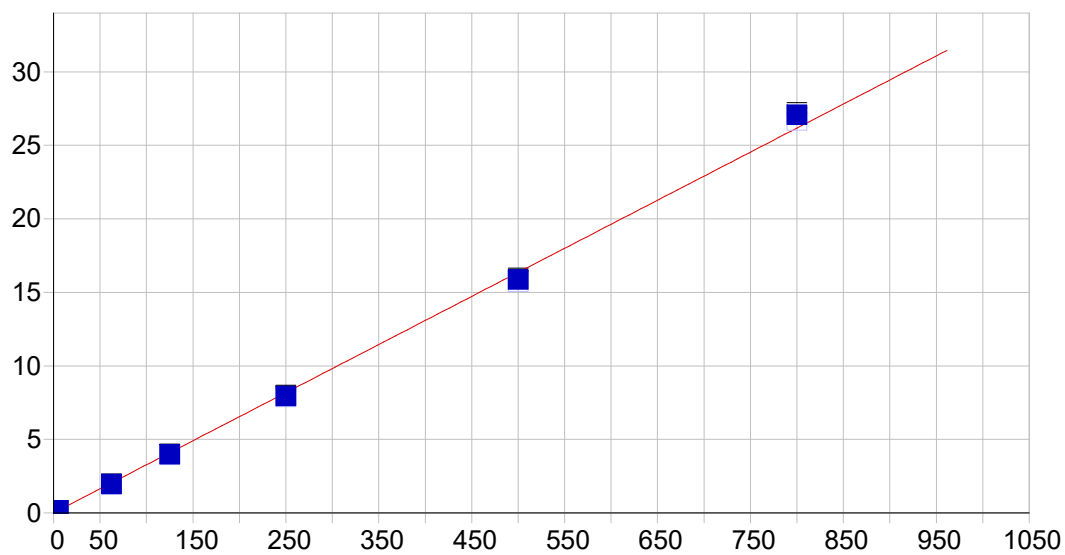


**Cd 214.438 {457}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.000198 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 2.006500 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999970 | Status:   | OK.      |
| Std Error of Est: | 0.000131 |           |          |
| Predicted MDL:    | 0.000092 |           |          |
| Predicted MQL:    | 0.000306 |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00020 | .000    | 1        |
| S1        | .00500       | .00636      | .001       | 27.1    | .01296 | .000    | 1        |
| S2        | .62500       | .61702      | -.008      | -1.28   | 1.2402 | .002    | 1        |
| S3        | 1.2500       | 1.2440      | -.006      | -.477   | 2.5002 | .001    | 1        |
| S4        | 2.5000       | 2.4950      | -.005      | -.200   | 5.0141 | .002    | 1        |
| S5        | 5.0000       | 5.0176      | .018       | .352    | 10.083 | .004    | 1        |

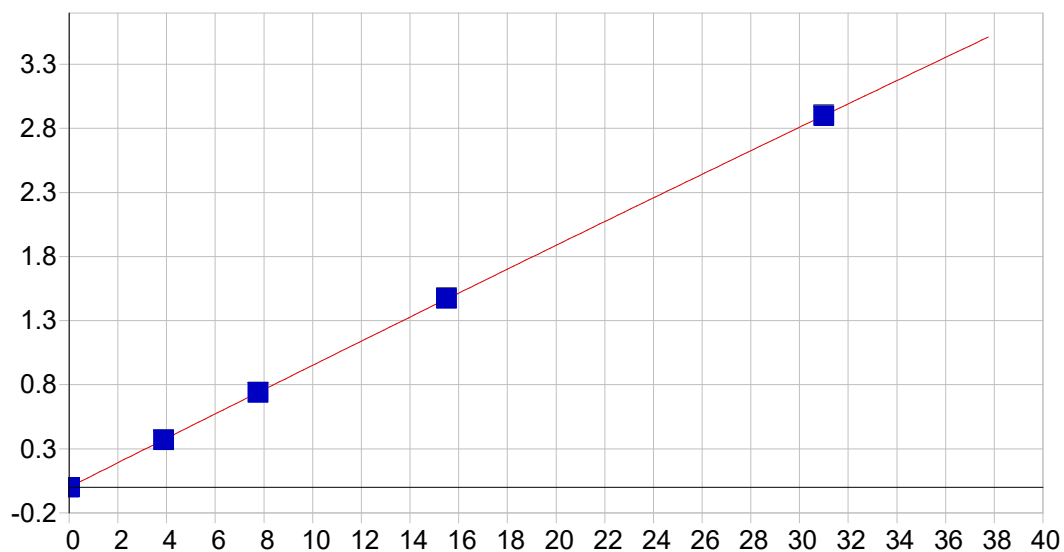


Ca 373.690 { 90}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000975 Re-Slope: 1.000000  
 A1 (Gain): 0.032721 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999408 Status: OK.  
 Std Error of Est: 0.003887  
 Predicted MDL: 0.014847  
 Predicted MQL: 0.049491

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00055     | -.001      | .000    | .00096 | .000    | 1        |
| S1        | 5.0000       | 6.0226      | 1.02       | 20.5    | .19799 | .001    | 1        |
| S2        | 62.500       | 59.769      | -2.73      | -4.37   | 1.9384 | .011    | 1        |
| S3        | 125.00       | 121.63      | -3.37      | -2.70   | 3.9441 | .015    | 1        |
| S4        | 250.00       | 243.06      | -6.94      | -2.78   | 7.8809 | .058    | 1        |
| S5        | 500.00       | 484.75      | -15.3      | -3.05   | 15.716 | .115    | 1        |
| S6        | 800.00       | 827.43      | 27.4       | 3.43    | 26.685 | .147    | 1        |

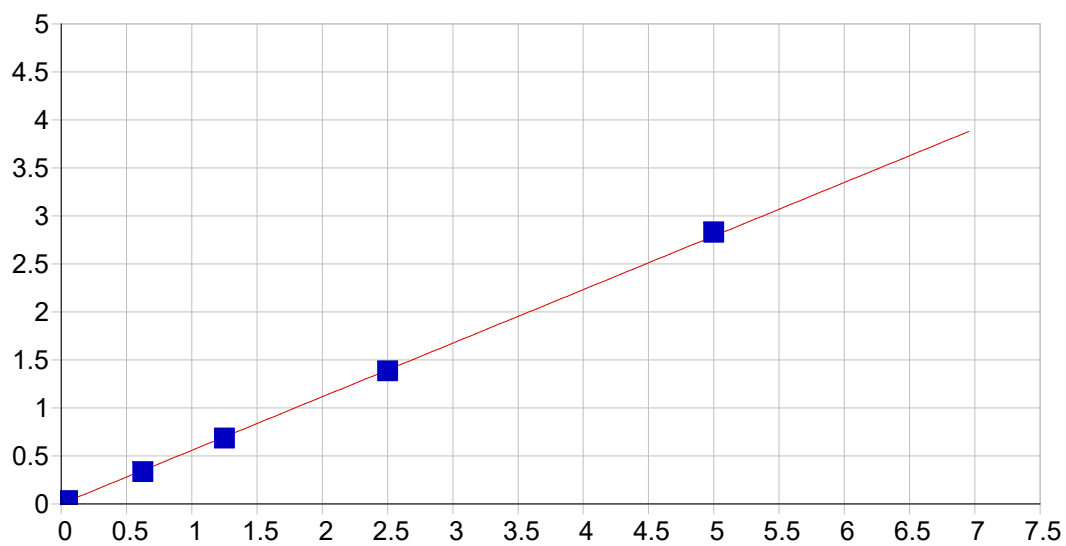


**Cr 267.716 {126}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Full Fit Weighting: 1/Conc

A0 (Offset): 0.000017 Re-Slope: 1.000000  
 A1 (Gain): 0.095929 Y-int: 0.000000  
 A2 (Curvature): -0.000076  
 n (Exponent): 1.000000  
 Correlation: 0.999990 Status: OK.  
 Std Error of Est: 0.000018  
 Predicted MDL: 0.000990  
 Predicted MQL: 0.003301

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00002 | .000    | 1        |
| S1        | .01000       | .01290      | .003       | 29.0    | .00126 | .000    | 1        |
| S2        | 3.8750       | 3.8501      | -.025      | -.642   | .36869 | .001    | 1        |
| S3        | 7.7500       | 7.7481      | -.002      | -.025   | .73961 | .002    | 1        |
| S4        | 15.500       | 15.541      | .041       | .267    | 1.4743 | .004    | 1        |
| S5        | 31.000       | 30.983      | -.017      | -.056   | 2.9024 | .003    | 1        |

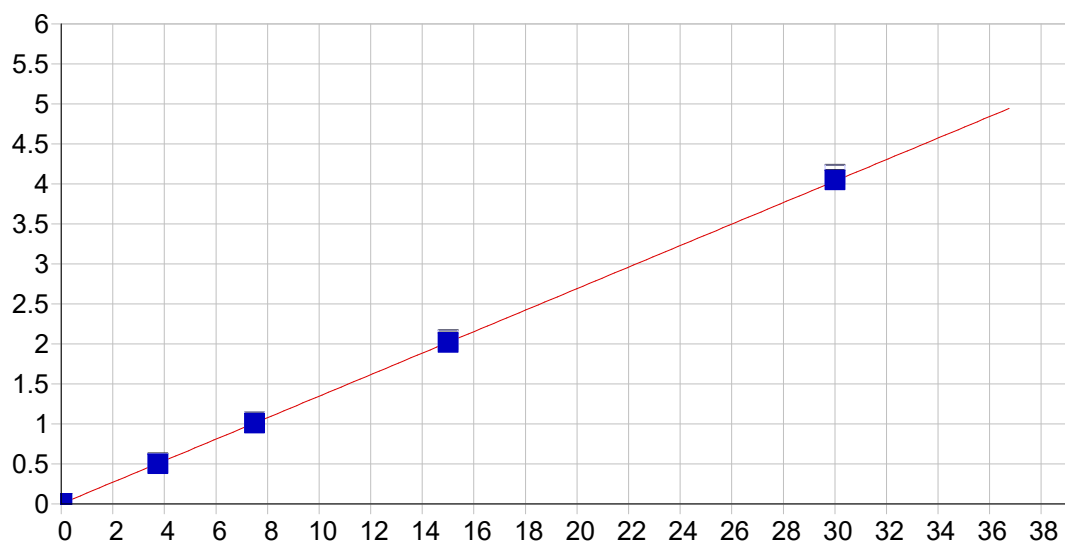


**Co 228.616 {448}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.000222 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.558025 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999781 | Status:   | OK.      |
| Std Error of Est: | 0.000311 |           |          |
| Predicted MDL:    | 0.000319 |           |          |
| Predicted MQL:    | 0.001065 |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00022 | .000    | 1        |
| S1        | .05000       | .05822      | .008       | 16.4    | .03281 | .000    | 1        |
| S2        | .62500       | .59854      | -.026      | -4.23   | .33477 | .001    | 1        |
| S3        | 1.2500       | 1.2216      | -.028      | -2.27   | .68303 | .000    | 1        |
| S4        | 2.5000       | 2.4806      | -.019      | -.776   | 1.3867 | .001    | 1        |
| S5        | 5.0000       | 5.0660      | .066       | 1.32    | 2.8316 | .002    | 1        |

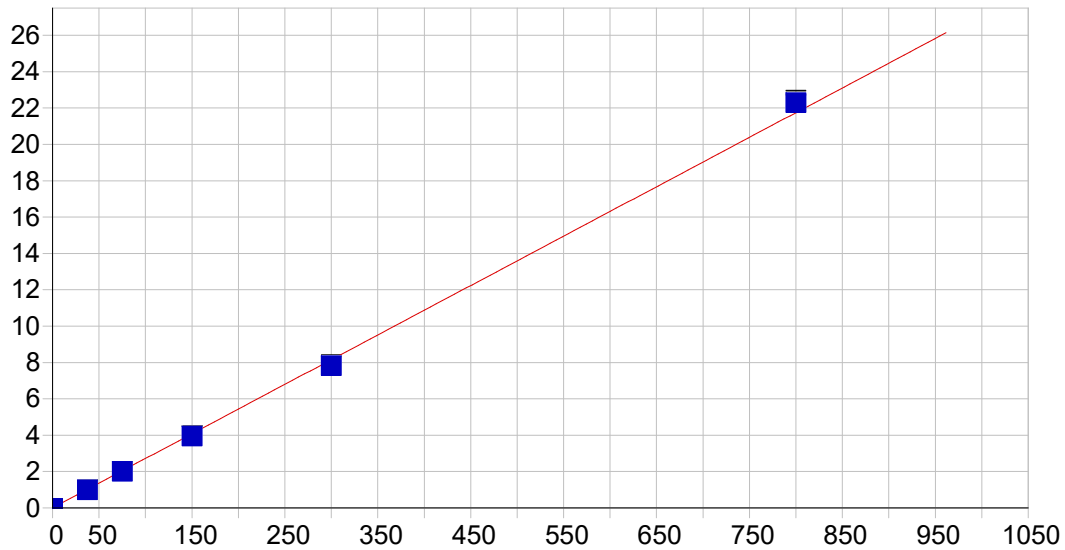


**Cu 324.754 {104}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002320 Re-Slope: 1.000000  
 A1 (Gain): 0.134429 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999991 Status: OK.  
 Std Error of Est: 0.000026  
 Predicted MDL: 0.002802  
 Predicted MQL: 0.009342

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00232 | .000    | 1        |
| S1        | .02500       | .02667      | .002       | 6.68    | .00658 | .000    | 1        |
| S2        | 3.7500       | 3.7111      | -.039      | -1.04   | .50928 | .002    | 1        |
| S3        | 7.5000       | 7.4700      | -.030      | -.400   | 1.0227 | .002    | 1        |
| S4        | 15.000       | 14.969      | -.031      | -.207   | 2.0469 | .006    | 1        |
| S5        | 30.000       | 30.098      | .098       | .327    | 4.1130 | .006    | 1        |

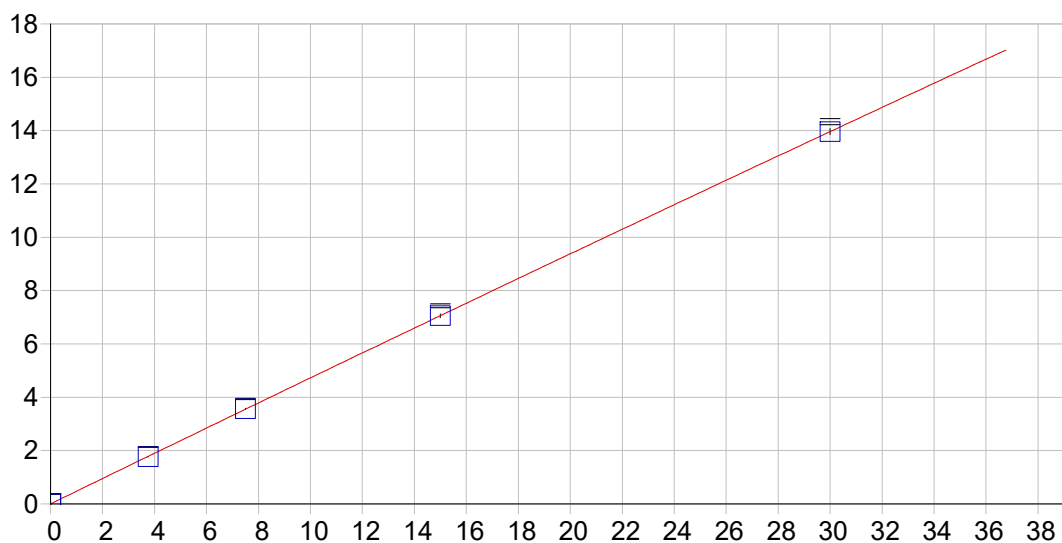


### Fe 259.837 {130}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001930 Re-Slope: 1.000000  
 A1 (Gain): 0.027179 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999549 Status: OK.  
 Std Error of Est: 0.000357  
 Predicted MDL: 0.007716  
 Predicted MQL: 0.025720

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00193 | .000    | 1        |
| S1        | .10000       | .10681      | .007       | 6.81    | .00495 | .000    | 1        |
| S2        | 37.500       | 36.504      | -.996      | -2.66   | .99618 | .006    | 1        |
| S3        | 75.000       | 73.643      | -1.36      | -1.81   | 2.0077 | .007    | 1        |
| S4        | 150.00       | 145.16      | -4.84      | -3.23   | 3.9558 | .028    | 1        |
| S5        | 300.00       | 287.35      | -12.6      | -4.22   | 7.8288 | .045    | 1        |
| S6        | 800.00       | 819.85      | 19.8       | 2.48    | 22.312 | .112    | 1        |

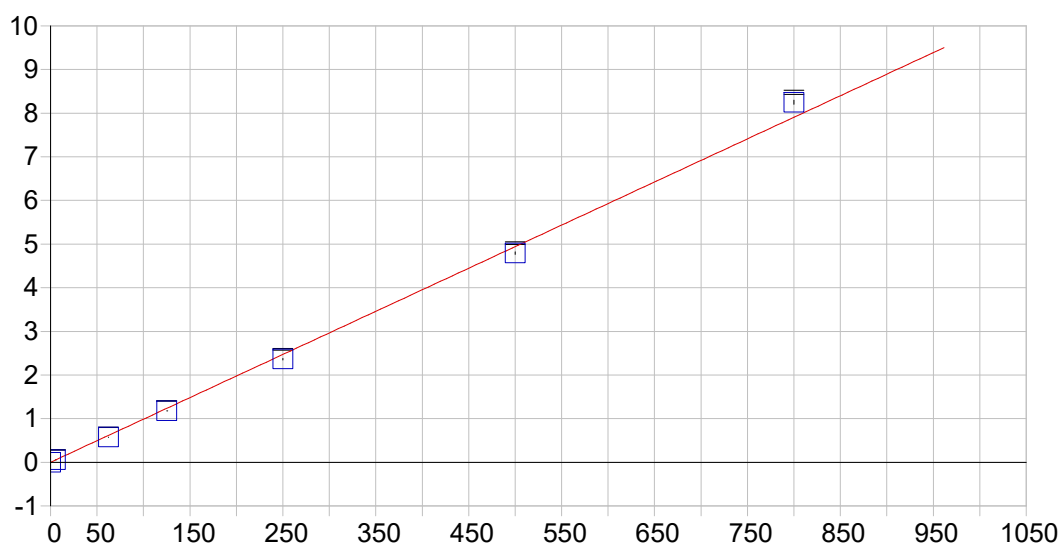


### Mn 257.610 {131}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Curvilinear Weighting: 1/Conc

A0 (Offset): 0.000824 Re-Slope: 1.000000  
 A1 (Gain): 0.475930 Y-int: 0.000000  
 A2 (Curvature): -0.000353  
 n (Exponent): 1.000000  
 Correlation: 0.999986 Status: OK.  
 Std Error of Est: 0.000102  
 Predicted MDL: 0.000417  
 Predicted MQL: 0.001390

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00082 | .000    | 1        |
| S1        | .01500       | .01935      | .004       | 29.0    | .01003 | .000    | 1        |
| S2        | 3.7500       | 3.7249      | -.025      | -.669   | 1.7687 | .012    | 1        |
| S3        | 7.5000       | 7.5265      | .027       | .354    | 3.5629 | .019    | 1        |
| S4        | 15.000       | 14.995      | -.005      | -.030   | 7.0581 | .074    | 1        |
| S5        | 30.000       | 29.999      | -.001      | -.004   | 13.960 | .117    | 1        |



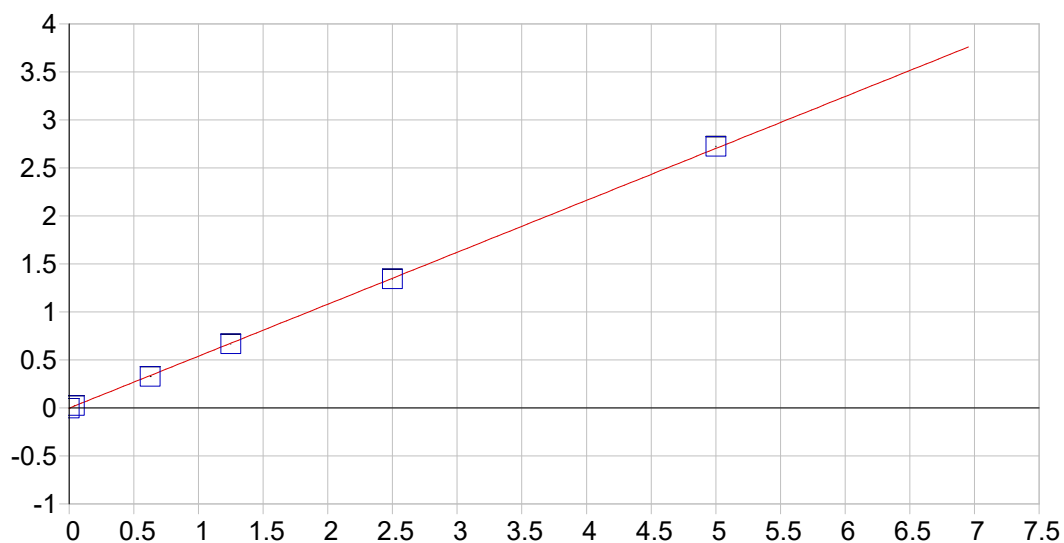
### Mg 279.079 {121}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000031 Re-Slope: 1.000000  
 A1 (Gain): 0.009882 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999091 Status: OK.  
 Std Error of Est: 0.001472  
 Predicted MDL: 0.024211  
 Predicted MQL: 0.080703

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00020     | -.000      | .000    | -.00003 | .000    | 1        |
| S1        | 5.0000       | 5.9189      | .919       | 18.4    | .05846  | .000    | 1        |
| S2        | 62.500       | 58.287      | -4.21      | -6.74   | .57596  | .003    | 1        |
| S3        | 125.00       | 119.04      | -5.96      | -4.77   | 1.1763  | .002    | 1        |
| S4        | 250.00       | 239.15      | -10.8      | -4.34   | 2.3633  | .018    | 1        |
| S5        | 500.00       | 485.17      | -14.8      | -2.97   | 4.7944  | .032    | 1        |
| S6        | 800.00       | 834.94      | 34.9       | 4.37    | 8.2508  | .045    | 1        |



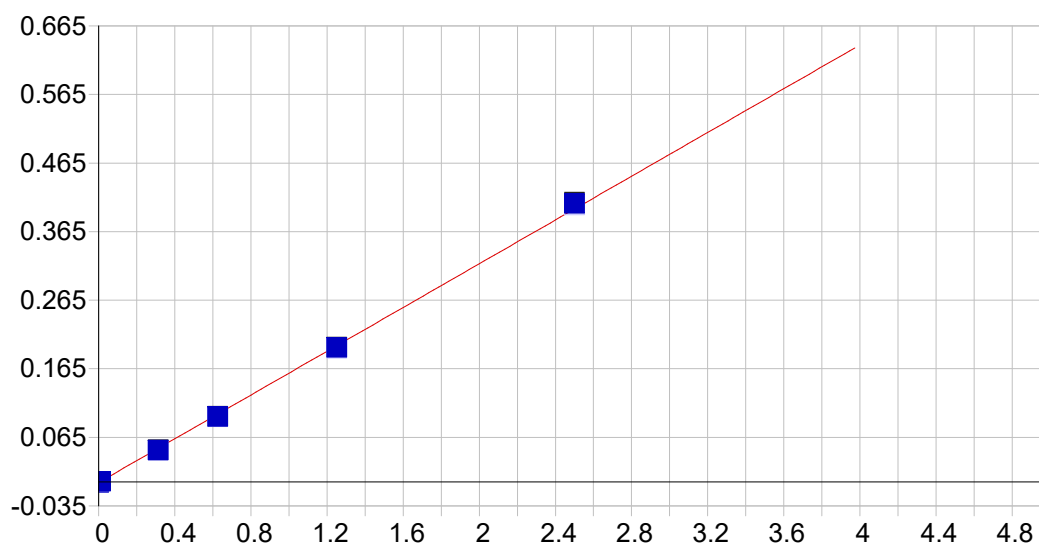


**Ni 231.604 {446}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |           |           |          |
|-------------------|-----------|-----------|----------|
| A0 (Offset):      | -0.001838 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.540922  | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000  |           |          |
| n (Exponent):     | 1.000000  |           |          |
| Correlation:      | 0.999824  | Status:   | OK.      |
| Std Error of Est: | 0.000241  |           |          |
| Predicted MDL:    | 0.000432  |           |          |
| Predicted MQL:    | 0.001440  |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | -.00184 | .000    | 1        |
| S1        | .04000       | .04955      | .010       | 23.9    | .02496  | .000    | 1        |
| S2        | .62500       | .60797      | -.017      | -2.73   | .32703  | .001    | 1        |
| S3        | 1.2500       | 1.2333      | -.017      | -1.33   | .66530  | .000    | 1        |
| S4        | 2.5000       | 2.4866      | -.013      | -.538   | 1.3432  | .002    | 1        |
| S5        | 5.0000       | 5.0376      | .038       | .752    | 2.7231  | .003    | 1        |

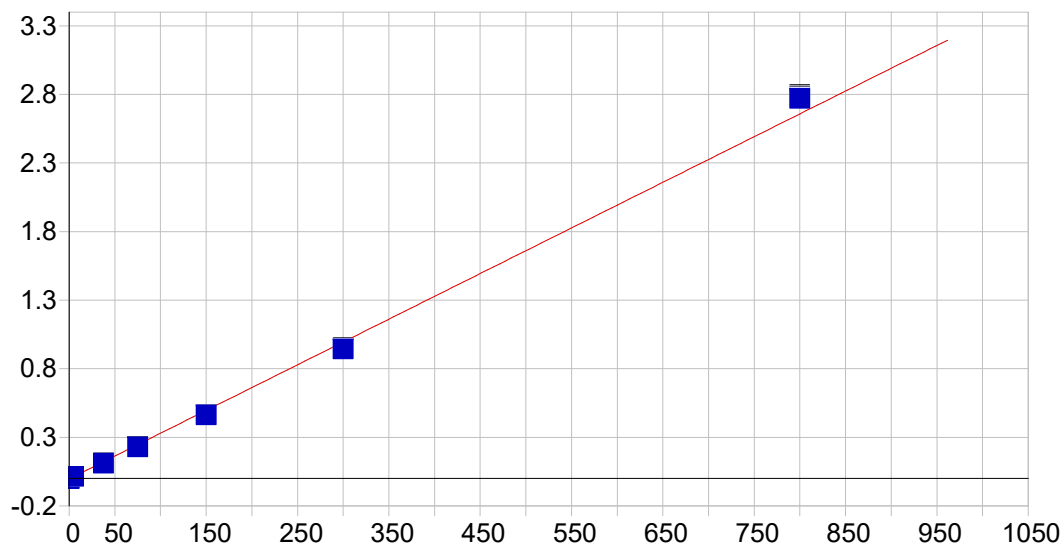


**Ag 328.068 {103}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000937 Re-Slope: 1.000000  
 A1 (Gain): 0.159545 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999634 Status: OK.  
 Std Error of Est: 0.000036  
 Predicted MDL: 0.000659  
 Predicted MQL: 0.002197

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00094 | .000    | 1        |
| S1        | .01000       | .01226      | .002       | 22.6    | .00101  | .000    | 1        |
| S2        | .31250       | .29657      | -.016      | -5.10   | .04605  | .000    | 1        |
| S3        | .62500       | .60230      | -.023      | -3.63   | .09451  | .000    | 1        |
| S4        | 1.2500       | 1.2348      | -.015      | -1.22   | .19476  | .000    | 1        |
| S5        | 2.5000       | 2.5516      | .052       | 2.06    | .40356  | .002    | 1        |

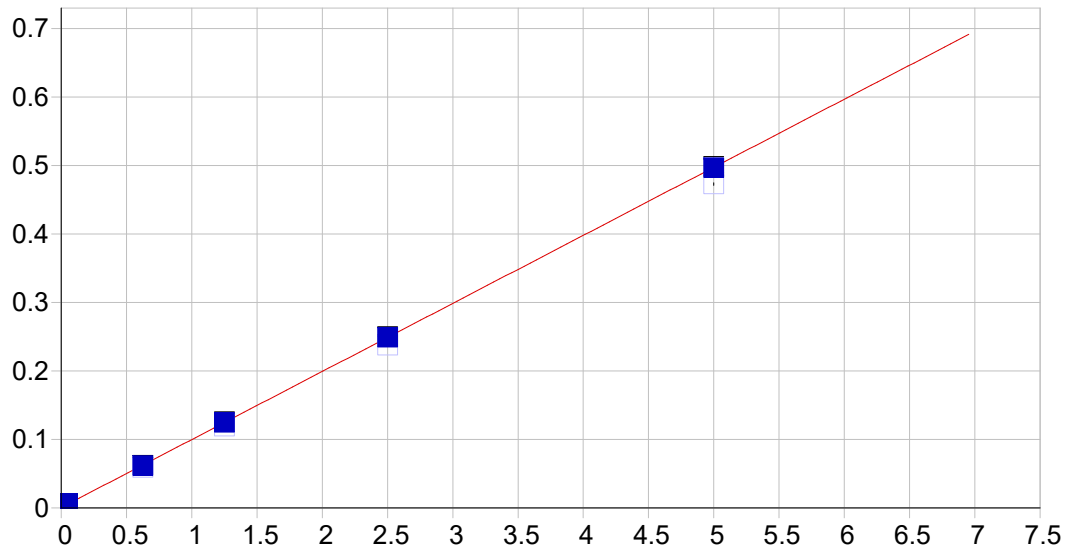


**Na 818.326 { 41}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |           |           |          |
|-------------------|-----------|-----------|----------|
| A0 (Offset):      | -0.002564 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.003326  | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000  |           |          |
| n (Exponent):     | 1.000000  |           |          |
| Correlation:      | 0.998699  | Status:   | OK.      |
| Std Error of Est: | 0.000527  |           |          |
| Predicted MDL:    | 0.320810  |           |          |
| Predicted MQL:    | 1.069367  |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00071      | .001       | .000    | -.00256 | .001    | 1        |
| S1        | 5.0000       | 5.4747      | .475       | 9.49    | .01565  | .001    | 1        |
| S2        | 37.500       | 34.155      | -3.35      | -8.92   | .11158  | .001    | 1        |
| S3        | 75.000       | 69.608      | -5.39      | -7.19   | .23005  | .002    | 1        |
| S4        | 150.00       | 140.16      | -9.84      | -6.56   | .46581  | .000    | 1        |
| S5        | 300.00       | 284.46      | -15.5      | -5.18   | .94793  | .004    | 1        |
| S6        | 800.00       | 833.64      | 33.6       | 4.21    | 2.7818  | .016    | 1        |

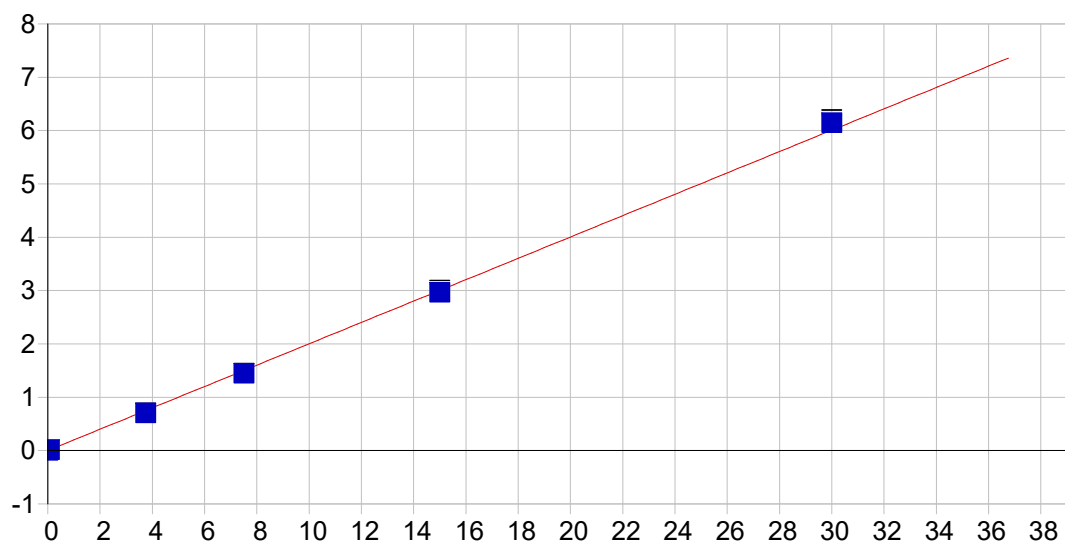


V 292.402 {115}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000485 Re-Slope: 1.000000  
 A1 (Gain): 0.099392 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999890 Status: OK.  
 Std Error of Est: 0.000037  
 Predicted MDL: 0.002842  
 Predicted MQL: 0.009473

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00048 | .000    | 1        |
| S1        | .05000       | .05942      | .009       | 18.8    | .00638 | .000    | 1        |
| S2        | .62500       | .61769      | -.007      | -1.17   | .05890 | .000    | 1        |
| S3        | 1.2500       | 1.2521      | .002       | .167    | .11898 | .001    | 1        |
| S4        | 2.5000       | 2.5015      | .002       | .062    | .23721 | .001    | 1        |
| S5        | 5.0000       | 4.9938      | -.006      | -.124   | .47300 | .002    | 1        |

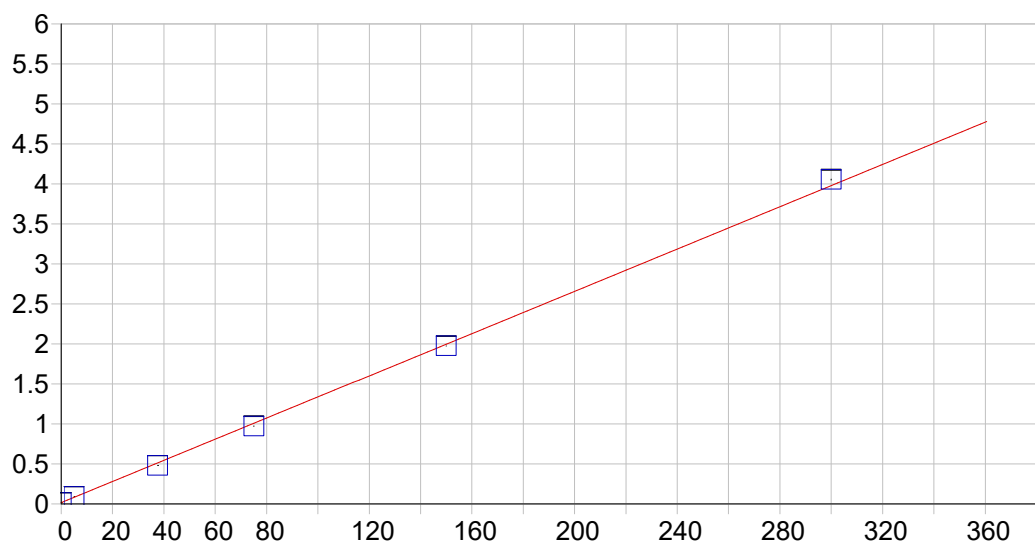


### Zn 213.856 {158}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000047 Re-Slope: 1.000000  
 A1 (Gain): 0.200241 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999584 Status: OK.  
 Std Error of Est: 0.000412  
 Predicted MDL: 0.001780  
 Predicted MQL: 0.005932

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00005 | .000    | 1        |
| S1        | .06000       | .07042      | .010       | 17.4    | .01418 | .000    | 1        |
| S2        | 3.7500       | 3.5039      | -.246      | -6.56   | .70290 | .004    | 1        |
| S3        | 7.5000       | 7.2214      | -.279      | -3.72   | 1.4485 | .001    | 1        |
| S4        | 15.000       | 14.814      | -.186      | -1.24   | 2.9713 | .038    | 1        |
| S5        | 30.000       | 30.700      | .700       | 2.33    | 6.1574 | .048    | 1        |

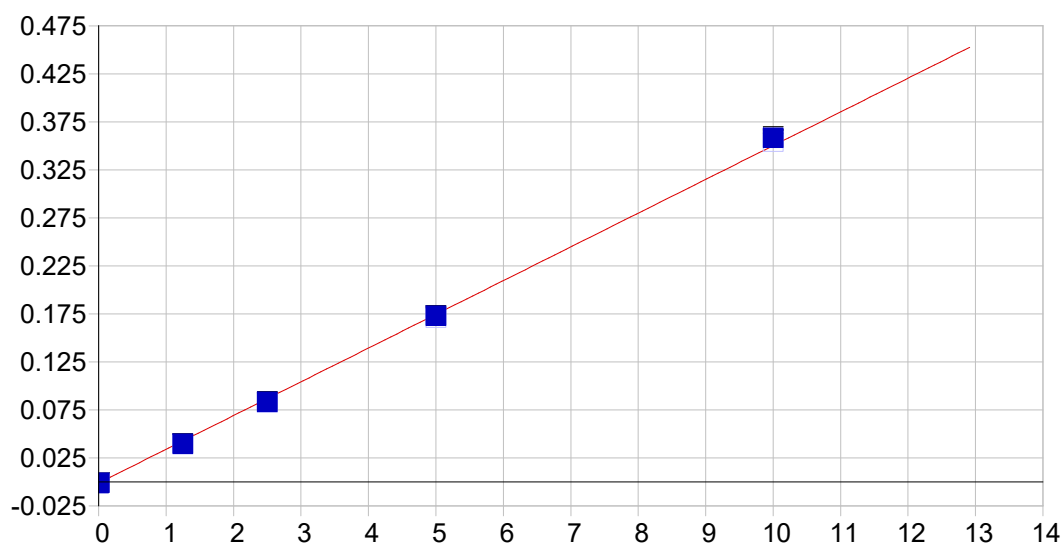


K 769.896 { 44}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.015291 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.013212 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999568 | Status:   | OK.      |
| Std Error of Est: | 0.000801 |           |          |
| Predicted MDL:    | 0.074018 |           |          |
| Predicted MQL:    | 0.246725 |           |          |

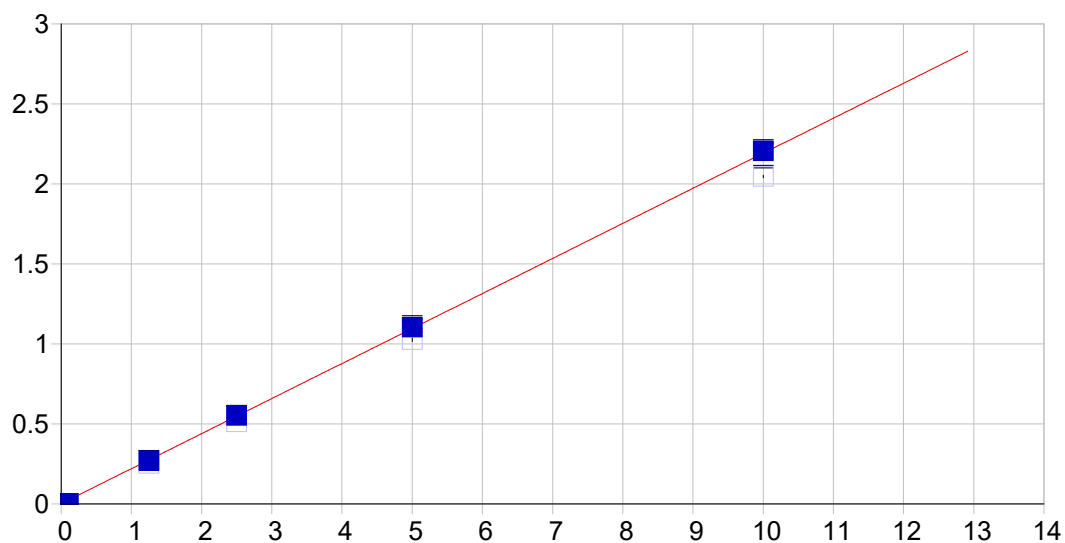
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00035     | -.000      | .000    | .01529 | .001    | 1        |
| S1        | 5.0000       | 5.7962      | .796       | 15.9    | .09187 | .001    | 1        |
| S2        | 37.500       | 35.160      | -2.34      | -6.24   | .47983 | .002    | 1        |
| S3        | 75.000       | 72.428      | -2.57      | -3.43   | .97222 | .002    | 1        |
| S4        | 150.00       | 148.33      | -1.67      | -1.11   | 1.9751 | .003    | 1        |
| S5        | 300.00       | 305.78      | 5.78       | 1.93    | 4.0553 | .007    | 1        |



Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001199 Re-Slope: 1.000000  
 A1 (Gain): 0.035141 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999568 Status: OK.  
 Std Error of Est: 0.000017  
 Predicted MDL: 0.002617  
 Predicted MQL: 0.008725

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00120 | .000    | 1        |
| S1        | .01000       | .00862      | -.001      | -13.8   | -.00090 | .000    | 1        |
| S2        | 1.2500       | 1.1591      | -.091      | -7.27   | .03904  | .000    | 1        |
| S3        | 2.5000       | 2.4073      | -.093      | -3.71   | .08241  | .000    | 1        |
| S4        | 5.0000       | 4.9560      | -.044      | -.880   | .17099  | .000    | 1        |
| S5        | 10.000       | 10.229      | .229       | 2.29    | .35432  | .001    | 1        |



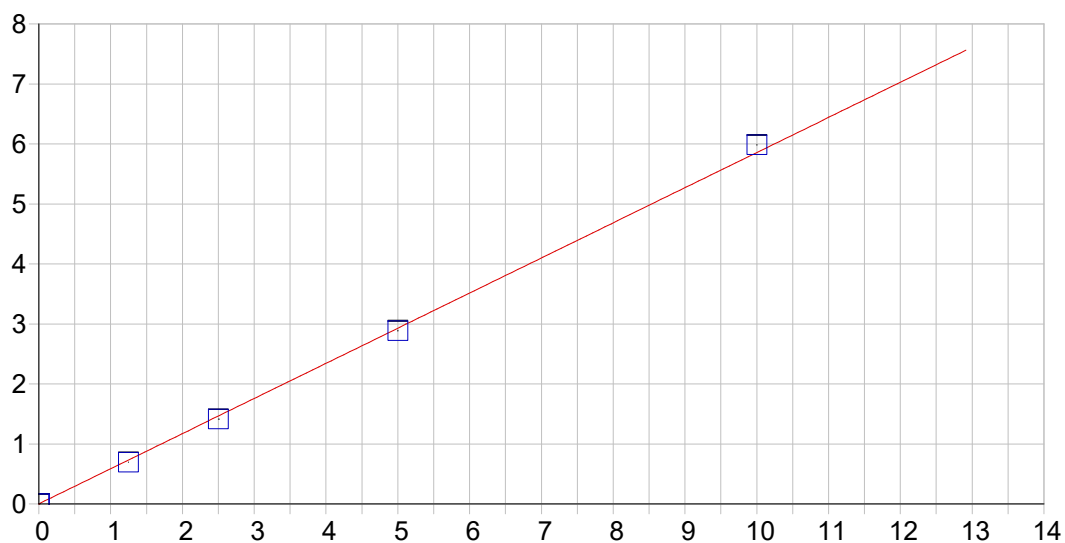
**B 249.678 {135}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001188 Re-Slope: 1.000000  
 A1 (Gain): 0.219018 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.997486 Status: OK.  
 Std Error of Est: 0.000767  
 Predicted MDL: 0.001284  
 Predicted MQL: 0.004279

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00009      | .000       | .000    | .00121 | .000    | 1        |
| S1        | .10000       | .01014      | -.090      | -89.9   | .00336 | .000    | 1        |
| S2        | 1.2500       | 1.2316      | -.018      | -1.47   | .25107 | .002    | 1        |
| S3        | 2.5000       | 2.5140      | .014       | .559    | .51206 | .002    | 1        |
| S4        | 5.0000       | 5.0377      | .038       | .755    | 1.0251 | .010    | 1        |
| S5        | 10.000       | 10.063      | .063       | .633    | 2.0463 | .009    | 1        |



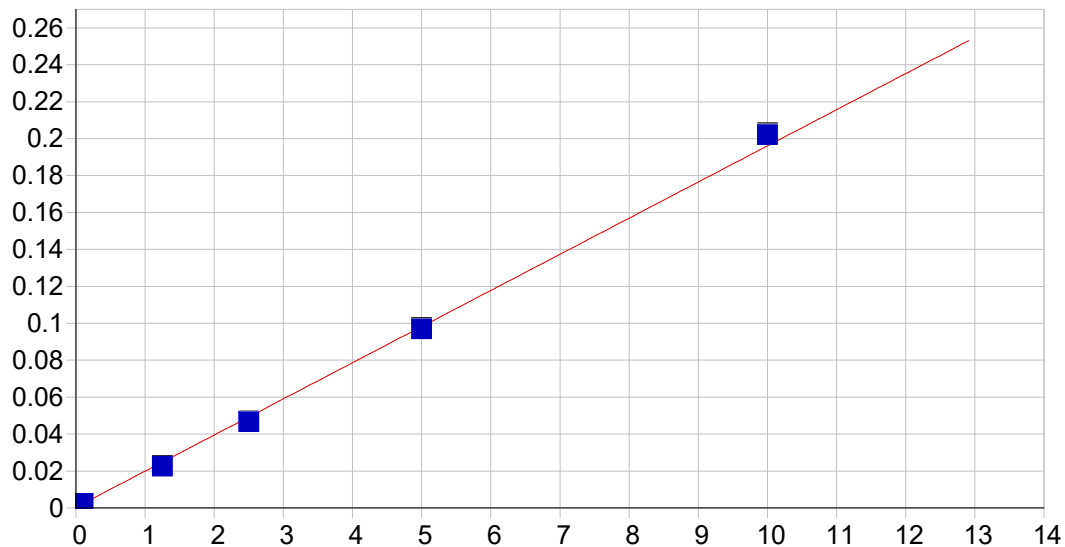


### Mo 202.030 {467}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000726 Re-Slope: 1.000000  
 A1 (Gain): 0.585525 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999673 Status: OK.  
 Std Error of Est: 0.000251  
 Predicted MDL: 0.000312  
 Predicted MQL: 0.001041

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00073 | .000    | 1        |
| S1        | .01000       | .01173      | .002       | 17.3    | .00759 | .000    | 1        |
| S2        | 1.2500       | 1.1843      | -.066      | -5.26   | .69417 | .003    | 1        |
| S3        | 2.5000       | 2.4163      | -.084      | -3.35   | 1.4155 | .000    | 1        |
| S4        | 5.0000       | 4.9298      | -.070      | -1.40   | 2.8873 | .009    | 1        |
| S5        | 10.000       | 10.218      | .218       | 2.18    | 5.9835 | .007    | 1        |

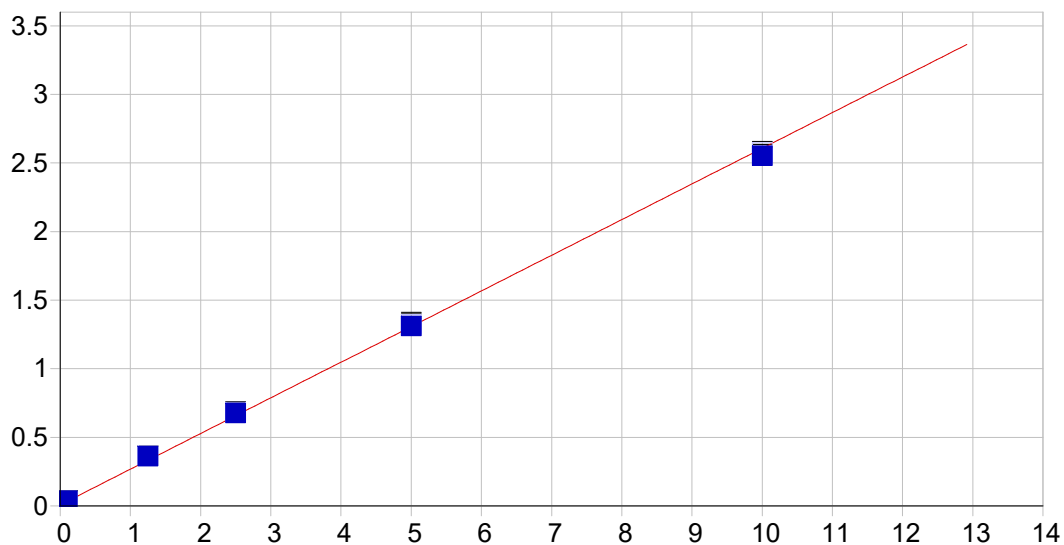


**S 182.034 {485}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000346 Re-Slope: 1.000000  
 A1 (Gain): 0.019571 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999257 Status: OK.  
 Std Error of Est: 0.000040  
 Predicted MDL: 0.004591  
 Predicted MQL: 0.015304

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00001      | .000       | .000    | .00035 | .000    | 1        |
| S1        | .10000       | .10440      | .004       | 4.40    | .00239 | .000    | 1        |
| S2        | 1.2500       | 1.1345      | -.115      | -9.24   | .02260 | .000    | 1        |
| S3        | 2.5000       | 2.3684      | -.132      | -5.26   | .04680 | .000    | 1        |
| S4        | 5.0000       | 4.9344      | -.066      | -1.31   | .09712 | .000    | 1        |
| S5        | 10.000       | 10.308      | .308       | 3.08    | .20250 | .001    | 1        |

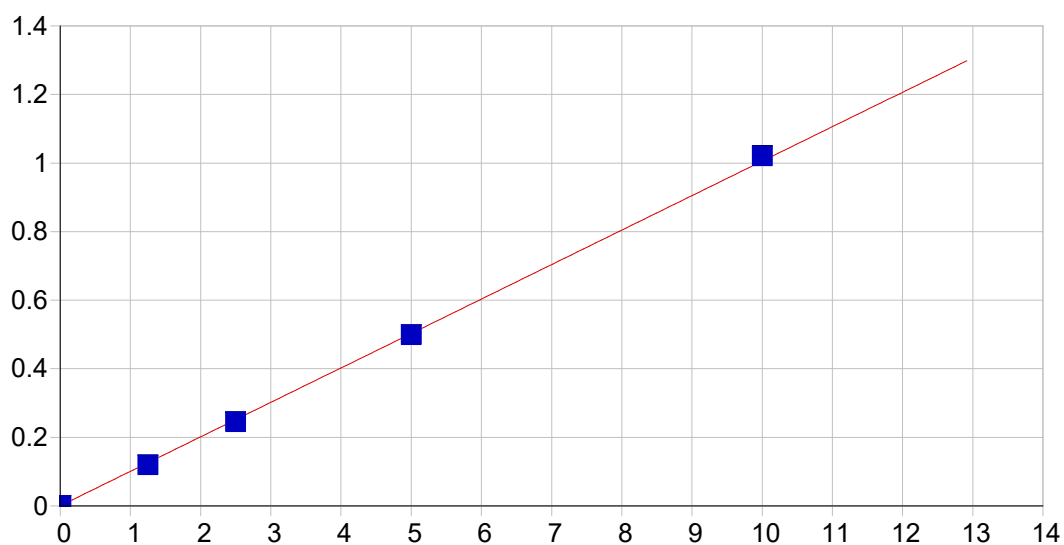


#### Si 251.611 {134}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.007799 Re-Slope: 1.000000  
 A1 (Gain): 0.259942 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999517 Status: OK.  
 Std Error of Est: 0.000433  
 Predicted MDL: 0.001174  
 Predicted MQL: 0.003913

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00002     | -.000      | .000    | .00779 | .000    | 1        |
| S1        | .10000       | .11185      | .012       | 11.9    | .03697 | .000    | 1        |
| S2        | 1.2500       | 1.3638      | .114       | 9.10    | .36518 | .001    | 1        |
| S3        | 2.5000       | 2.5748      | .075       | 2.99    | .68284 | .005    | 1        |
| S4        | 5.0000       | 5.0124      | .012       | .248    | 1.3222 | .016    | 1        |
| S5        | 10.000       | 9.7873      | -.213      | -2.13   | 2.5749 | .010    | 1        |

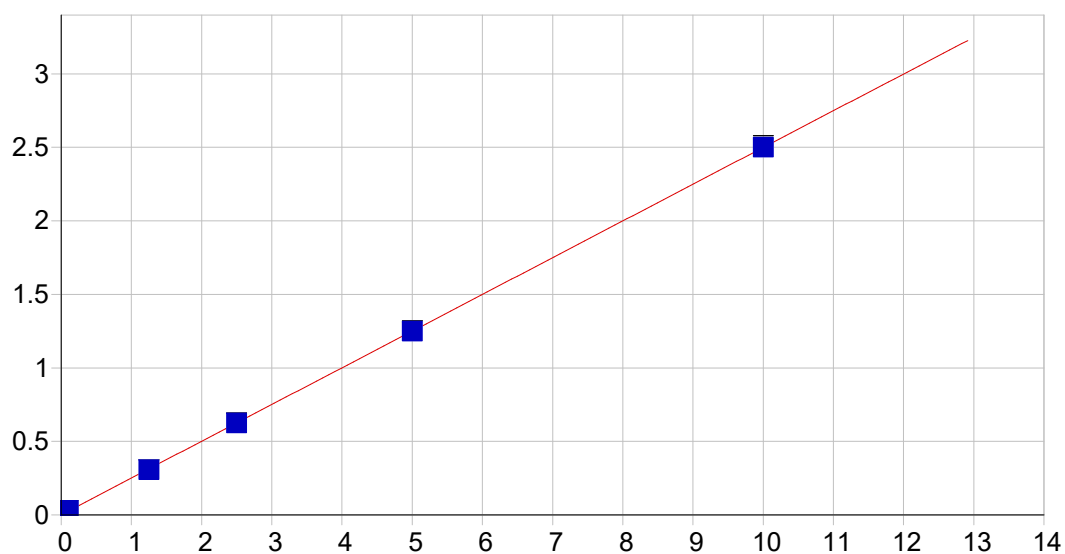


**Sn 189.989 {478}**

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000282 Re-Slope: 1.000000  
 A1 (Gain): 0.100518 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999797 Status: OK.  
 Std Error of Est: 0.000028  
 Predicted MDL: 0.001024  
 Predicted MQL: 0.003414

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00028 | .000    | 1        |
| S1        | .00700       | .00727      | .000       | 3.86    | .00099 | .000    | 1        |
| S2        | 1.2500       | 1.1855      | -.065      | -5.16   | .11918 | .000    | 1        |
| S3        | 2.5000       | 2.4383      | -.062      | -2.47   | .24485 | .000    | 1        |
| S4        | 5.0000       | 4.9676      | -.032      | -.648   | .49858 | .000    | 1        |
| S5        | 10.000       | 10.158      | .158       | 1.58    | 1.0193 | .001    | 1        |

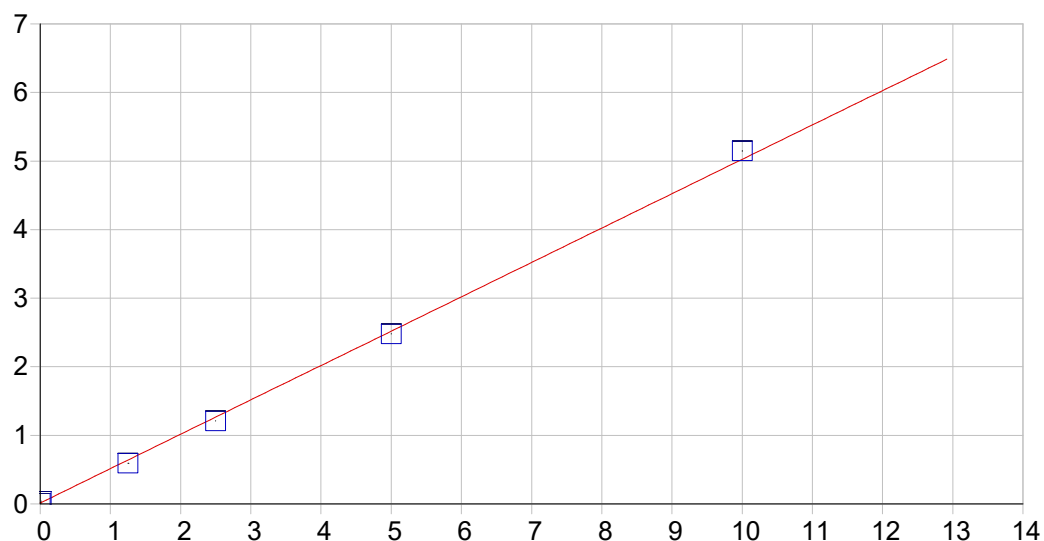


**Ti 336.121 {100}**

Date of Fit: 05/20/2019 11:57:21      Type of Fit: Linear      Weighting: 1/Conc

|                   |          |           |          |
|-------------------|----------|-----------|----------|
| A0 (Offset):      | 0.001285 | Re-Slope: | 1.000000 |
| A1 (Gain):        | 0.249787 | Y-int:    | 0.000000 |
| A2 (Curvature):   | 0.000000 |           |          |
| n (Exponent):     | 1.000000 |           |          |
| Correlation:      | 0.999867 | Status:   | OK.      |
| Std Error of Est: | 0.000216 |           |          |
| Predicted MDL:    | 0.001481 |           |          |
| Predicted MQL:    | 0.004938 |           |          |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00002     | -.000      | .000    | .00128 | .000    | 1        |
| S1        | .10000       | .12119      | .021       | 21.2    | .03155 | .000    | 1        |
| S2        | 1.2500       | 1.2254      | -.025      | -1.97   | .30726 | .001    | 1        |
| S3        | 2.5000       | 2.4954      | -.005      | -.182   | .62440 | .002    | 1        |
| S4        | 5.0000       | 4.9967      | -.003      | -.066   | 1.2490 | .004    | 1        |
| S5        | 10.000       | 10.011      | .011       | .113    | 2.5011 | .010    | 1        |

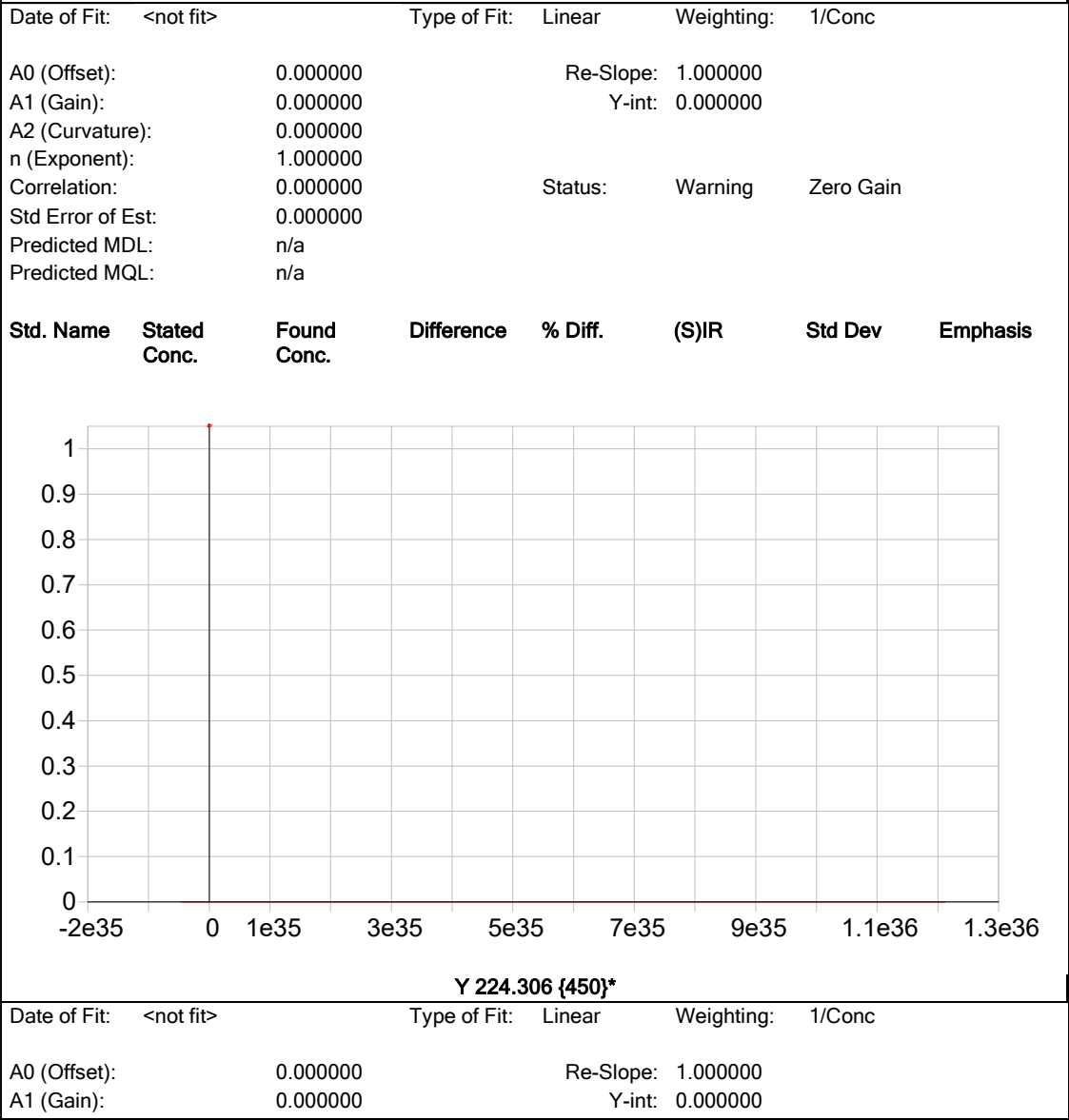
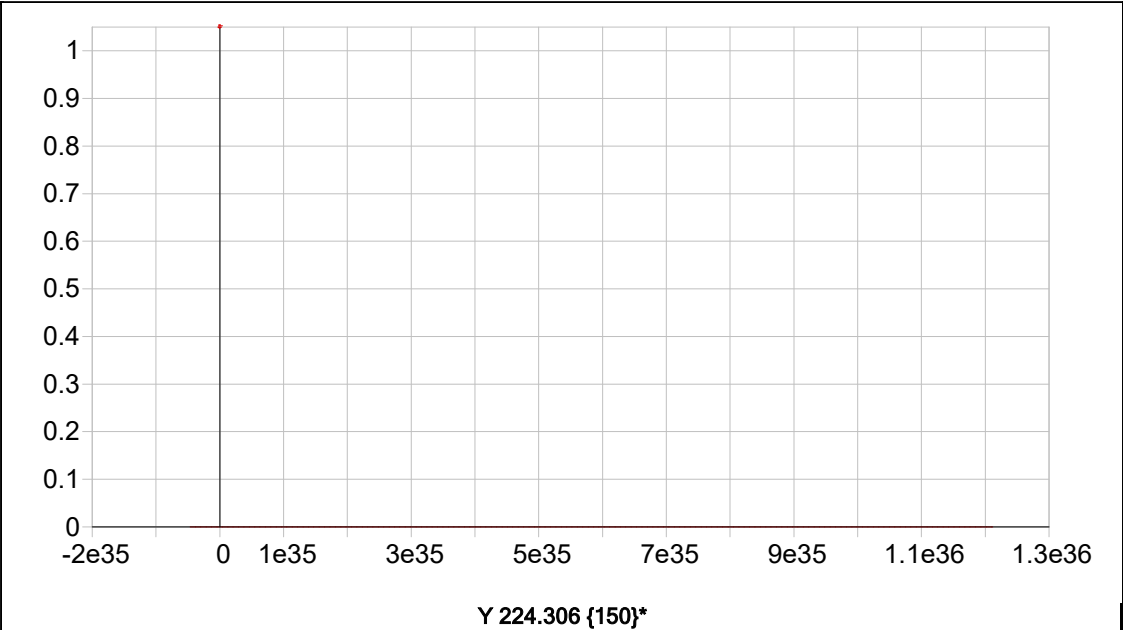


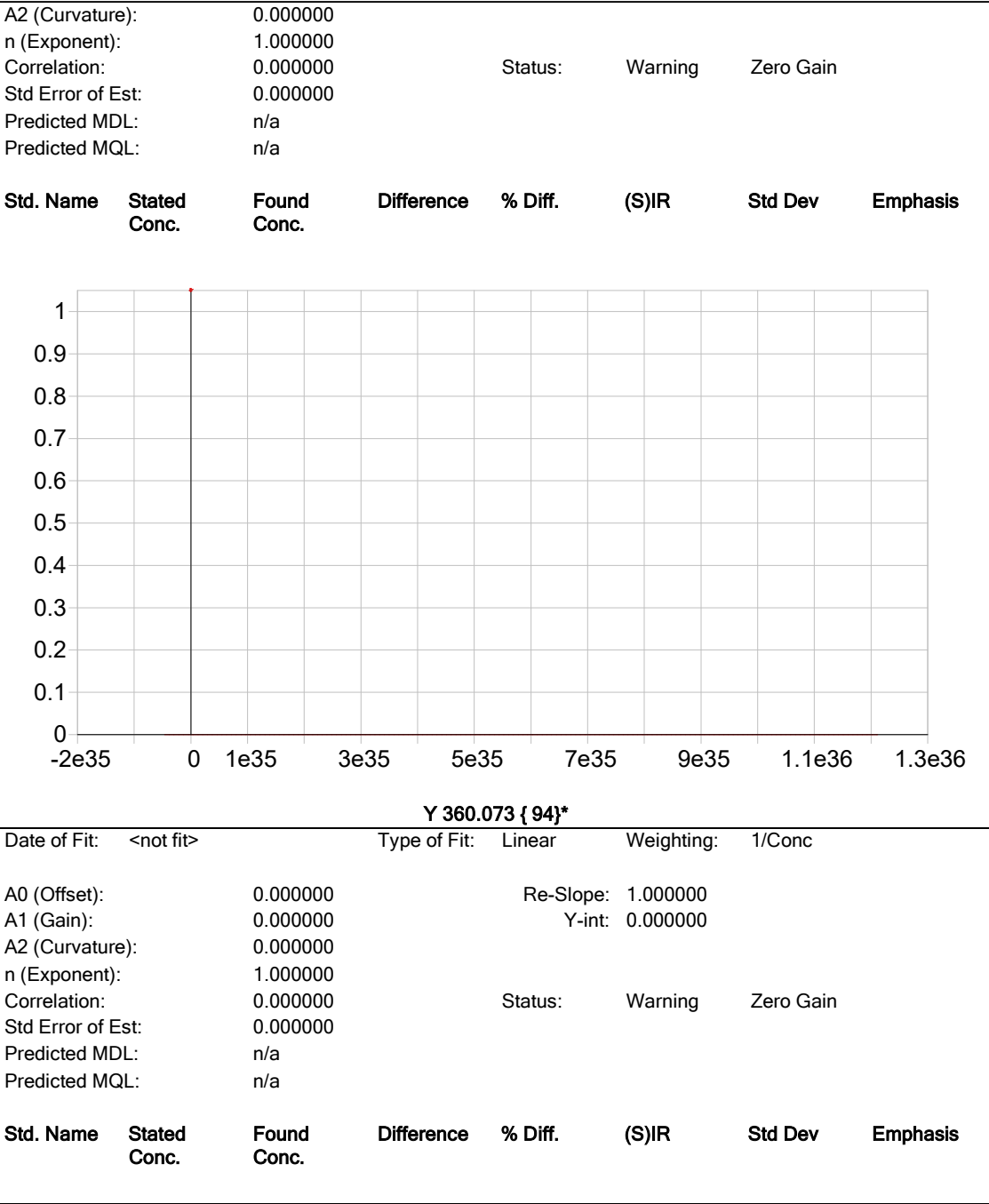
Li 670.784 { 50}

Date of Fit: 05/20/2019 11:57:21 Type of Fit: Linear Weighting: 1/Conc

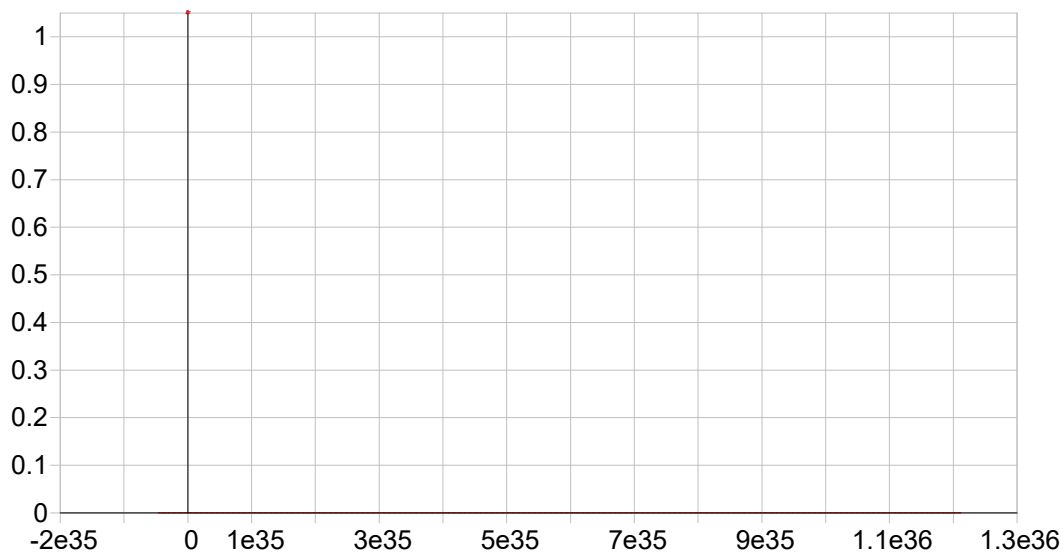
A0 (Offset): 0.013226 Re-Slope: 1.000000  
 A1 (Gain): 0.501169 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.996511 Status: OK.  
 Std Error of Est: 0.000862  
 Predicted MDL: 0.002282  
 Predicted MQL: 0.007606

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00004     | -.000      | .000    | .01321 | .001    | 1        |
| S5        | 10.000       | 10.246      | .246       | 2.46    | 5.1484 | .006    | 1        |
| S4        | 5.0000       | 4.9205      | -.080      | -1.59   | 2.4792 | .003    | 1        |
| S3        | 2.5000       | 2.3873      | -.113      | -4.51   | 1.2097 | .003    | 1        |
| S2        | 1.2500       | 1.1548      | -.095      | -7.61   | .59199 | .002    | 1        |
| S1        | .01500       | .05596      | .041       | 273.    | .04127 | .002    | 1        |





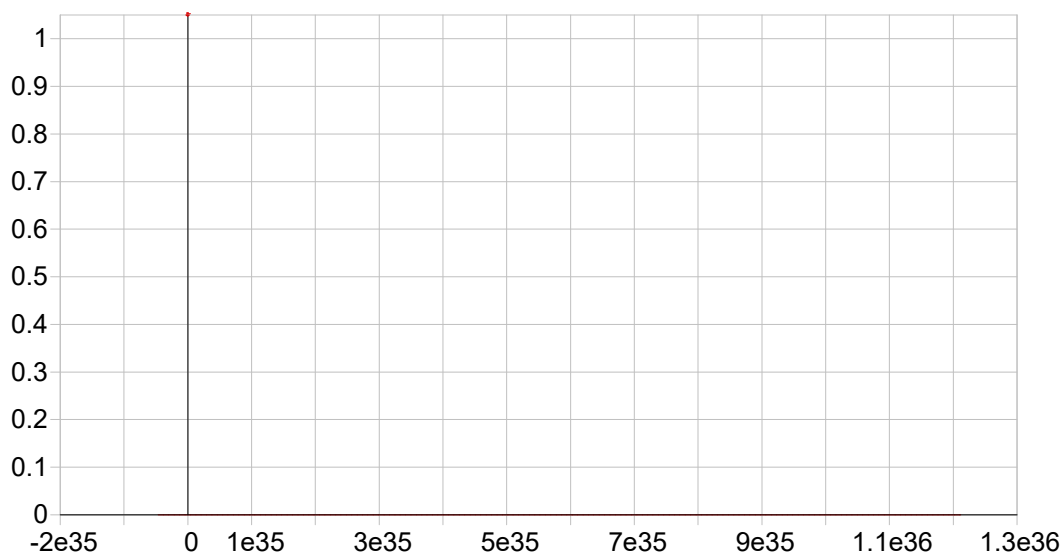




Y 371.030 { 91}\*

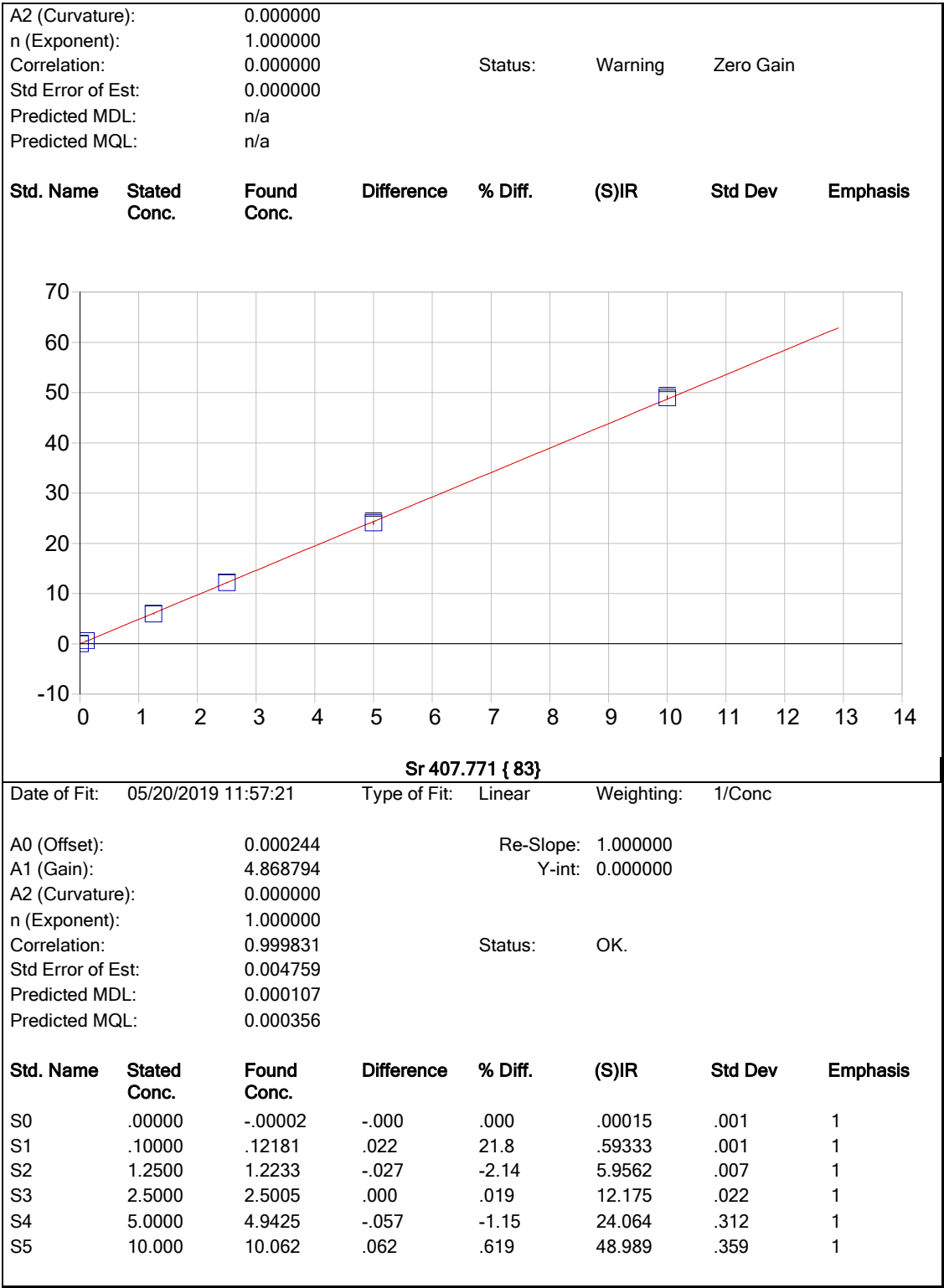
| Date of Fit:      | <not fit> | Type of Fit: | Linear    | Weighting: | 1/Conc    |
|-------------------|-----------|--------------|-----------|------------|-----------|
| A0 (Offset):      | 0.000000  |              | Re-Slope: | 1.000000   |           |
| A1 (Gain):        | 0.000000  |         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



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   |        |



Sample Name: S0      Acquired: 05/20/2019 11:18:16      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: S00      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    | -.00029 | -.00073 | -.00019 | .00043 | .00071 | .00366 | .02931 | -.00143 |
| Stddev | .00016  | .00010  | .00031  | .00008 | .00024 | .00011 | .00095 | .00019  |
| %RSD   | 54.124  | 13.531  | 164.65  | 18.747 | 33.934 | 3.1246 | 3.2512 | 13.540  |

|    |         |         |         |        |        |        |        |         |
|----|---------|---------|---------|--------|--------|--------|--------|---------|
| #1 | -.00024 | -.00083 | .00003  | .00050 | .00091 | .00365 | .02840 | -.00157 |
| #2 | -.00047 | -.00064 | -.00005 | .00034 | .00044 | .00356 | .03030 | -.00151 |
| #3 | -.00017 | -.00072 | -.00055 | .00044 | .00079 | .00378 | .02922 | -.00121 |

|        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 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    | .00020 | .00096 | .00002 | .00022 | .00232 | .00193 | .00082 | -.00003 |
| Stddev | .00025 | .00034 | .00004 | .00018 | .00031 | .00006 | .00008 | .00025  |
| %RSD   | 127.72 | 35.256 | 223.56 | 80.526 | 13.175 | 3.0581 | 10.196 | 755.89  |

|    |         |        |         |        |        |        |        |         |
|----|---------|--------|---------|--------|--------|--------|--------|---------|
| #1 | .00047  | .00066 | .00004  | .00013 | .00262 | .00192 | .00073 | .00025  |
| #2 | -.00002 | .00089 | -.00003 | .00010 | .00234 | .00199 | .00084 | -.00020 |
| #3 | .00014  | .00132 | .00003  | .00042 | .00201 | .00188 | .00090 | -.00014 |

|        |         |         |         |        |        |        |         |        |
|--------|---------|---------|---------|--------|--------|--------|---------|--------|
| 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    | -.00184 | -.00094 | -.00256 | .00048 | .00005 | .01529 | -.00120 | .00121 |
| Stddev | .00024  | .00002  | .00063  | .00034 | .00038 | .00082 | .00006  | .00015 |
| %RSD   | 13.093  | 1.6199  | 24.455  | 71.271 | 836.67 | 5.3435 | 4.6657  | 12.445 |

|    |         |         |         |        |         |        |         |        |
|----|---------|---------|---------|--------|---------|--------|---------|--------|
| #1 | -.00195 | -.00092 | -.00184 | .00085 | .00048  | .01461 | -.00124 | .00120 |
| #2 | -.00157 | -.00094 | -.00292 | .00017 | -.00023 | .01505 | -.00123 | .00136 |
| #3 | -.00202 | -.00095 | -.00293 | .00043 | -.00011 | .01619 | -.00113 | .00106 |

|        |        |        |        |        |        |        |        |  |
|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 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    | .00073 | .00035 | .00779 | .00028 | .00128 | .01321 | .00015 |  |
| Stddev | .00005 | .00005 | .00003 | .00005 | .00028 | .00090 | .00050 |  |
| %RSD   | 7.5693 | 15.333 | .43323 | 17.619 | 21.507 | 6.8439 | 332.07 |  |

|    |        |        |        |        |        |        |         |  |
|----|--------|--------|--------|--------|--------|--------|---------|--|
| #1 | .00078 | .00036 | .00776 | .00033 | .00158 | .01385 | .00010  |  |
| #2 | .00073 | .00039 | .00779 | .00023 | .00121 | .01359 | .00068  |  |
| #3 | .00067 | .00029 | .00783 | .00028 | .00104 | .01217 | -.00032 |  |

Sample Name: S0      Acquired: 05/20/2019 11:18:16      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: S00      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_2243 | Y_3600 | Y_3710 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3349.6 | 4245.4 | 67214. | 13148. | 5042.7 |
| Stddev    | 29.0   | 6.4    | 347.   | 79.    | 3.6    |
| %RSD      | .86471 | .14964 | .51668 | .60386 | .07216 |
| #1        | 3321.1 | 4241.0 | 66880. | 13179. | 5045.7 |
| #2        | 3379.0 | 4242.7 | 67574. | 13058. | 5038.6 |
| #3        | 3348.7 | 4252.7 | 67189. | 13208. | 5043.7 |

Sample Name: S1      Acquired: 05/20/2019 11:22:22      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      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    | .00024 | .00116 | .00126 | .00232 | .00961 | .01826 | .49049  | .02146 |
| Stddev | .00009 | .00013 | .00006 | .00011 | .00025 | .00030 | .00035  | .00027 |
| %RSD   | 35.703 | 11.386 | 4.7875 | 4.7929 | 2.6204 | 1.6314 | .07234  | 1.2392 |
| #1     | .00033 | .00113 | .00128 | .00241 | .00958 | .01820 | .49052  | .02128 |
| #2     | .00024 | .00131 | .00132 | .00235 | .00987 | .01858 | .49012  | .02133 |
| #3     | .00015 | .00105 | .00120 | .00219 | .00937 | .01800 | .49083  | .02176 |
| 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    | .01296 | .19799 | .00126 | .03281 | .00658 | .00495 | .01003  | .05846 |
| Stddev | .00010 | .00077 | .00005 | .00010 | .00017 | .00015 | .00014  | .00034 |
| %RSD   | .79825 | .38760 | 4.3406 | .29556 | 2.5267 | 3.0830 | 1.3488  | .58278 |
| #1     | .01293 | .19789 | .00132 | .03286 | .00674 | .00495 | .01009  | .05808 |
| #2     | .01307 | .19881 | .00124 | .03287 | .00659 | .00479 | .00988  | .05874 |
| #3     | .01287 | .19728 | .00121 | .03269 | .00641 | .00510 | .01013  | .05856 |
| 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    | .02496 | .00101 | .01565 | .00638 | .01418 | .09187 | -.00090 | .00336 |
| Stddev | .00049 | .00003 | .00054 | .00035 | .00014 | .00069 | .00003  | .00030 |
| %RSD   | 1.9672 | 2.7413 | 3.4304 | 5.5148 | .96297 | .74581 | 3.7507  | 8.9606 |
| #1     | .02443 | .00098 | .01570 | .00617 | .01406 | .09215 | -.00094 | .00351 |
| #2     | .02508 | .00103 | .01615 | .00618 | .01415 | .09237 | -.00089 | .00302 |
| #3     | .02539 | .00100 | .01508 | .00679 | .01433 | .09109 | -.00087 | .00356 |
| 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    | .00759 | .00239 | .03697 | .00099 | .03155 | .04127 | .59333  |        |
| Stddev | .00007 | .00002 | .00008 | .00013 | .00005 | .00173 | .00056  |        |
| %RSD   | .97621 | .68297 | .22527 | 13.264 | .15189 | 4.1873 | .09404  |        |
| #1     | .00768 | .00237 | .03689 | .00111 | .03155 | .04165 | .59282  |        |
| #2     | .00755 | .00241 | .03696 | .00101 | .03160 | .03939 | .59323  |        |
| #3     | .00755 | .00239 | .03705 | .00085 | .03150 | .04278 | .59393  |        |

Sample Name: S1      Acquired: 05/20/2019 11:22:22      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: S01      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_2243 | Y_3600 | Y_3710 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3311.7 | 4231.8 | 67011. | 12973. | 5103.5 |
| Stddev    | 9.7    | 3.1    | 191.   | 8.     | 4.8    |
| %RSD      | .29288 | .07345 | .28559 | .06249 | .09417 |
| #1        | 3321.2 | 4233.9 | 66832. | 12969. | 5100.2 |
| #2        | 3312.2 | 4233.3 | 67213. | 12983. | 5101.2 |
| #3        | 3301.8 | 4228.3 | 66987. | 12968. | 5109.0 |

Sample Name: S2      Acquired: 05/20/2019 11:26:28      Type: Cal  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
 User: BIN H      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    | .04460 | .07147 | .81413 | .05925 | .15688 | 2.3062 | 4.7482 | .45934 |
| Stddev | .00020 | .00023 | .00042 | .00008 | .00063 | .0010  | .0038  | .00291 |
| %RSD   | .45262 | .32614 | .05142 | .12931 | .39872 | .04374 | .08096 | .63335 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .04443 | .07121 | .81407 | .05923 | .15645 | 2.3053 | 4.7502 | .46253 |
| #2 | .04455 | .07157 | .81374 | .05933 | .15659 | 2.3073 | 4.7438 | .45684 |
| #3 | .04482 | .07164 | .81457 | .05918 | .15760 | 2.3060 | 4.7507 | .45864 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.2402 | 1.9384 | .36869 | .33477 | .50928 | .99618 | 1.7687 | .57596 |
| Stddev | .0020  | .0108  | .00059 | .00080 | .00151 | .00569 | .0118  | .00345 |
| %RSD   | .16353 | .55902 | .15884 | .23882 | .29699 | .57108 | .66433 | .59819 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.2422 | 1.9502 | .36846 | .33570 | .51051 | 1.0006 | 1.7820 | .57820 |
| #2 | 1.2382 | 1.9290 | .36824 | .33429 | .50759 | .98978 | 1.7599 | .57200 |
| #3 | 1.2401 | 1.9358 | .36935 | .33434 | .50973 | .99812 | 1.7643 | .57770 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .32703 | .04605 | .11158 | .05890 | .70290 | .47983 | .03904 | .25107 |
| Stddev | .00074 | .00030 | .00138 | .00024 | .00386 | .00162 | .00018 | .00159 |
| %RSD   | .22585 | .65315 | 1.2359 | .41474 | .54924 | .33808 | .44993 | .63218 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .32774 | .04582 | .11313 | .05910 | .70154 | .48165 | .03886 | .25255 |
| #2 | .32627 | .04595 | .11048 | .05897 | .69991 | .47929 | .03905 | .24939 |
| #3 | .32707 | .04639 | .11114 | .05863 | .70726 | .47854 | .03921 | .25127 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .69417 | .02260 | .36518 | .11918 | .30726 | .59199 | 5.9562 |
| Stddev | .00304 | .00023 | .00149 | .00046 | .00073 | .00150 | .0075  |
| %RSD   | .43789 | 1.0124 | .40683 | .38619 | .23911 | .25344 | .12535 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .69142 | .02237 | .36581 | .11970 | .30810 | .59026 | 5.9602 |
| #2 | .69365 | .02282 | .36349 | .11881 | .30697 | .59296 | 5.9476 |
| #3 | .69743 | .02262 | .36625 | .11904 | .30672 | .59274 | 5.9609 |

Sample Name: S2      Acquired: 05/20/2019 11:26:28      Type: Cal  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: S02      Custom ID2:      Custom ID3:  
 Comment:

| Int. Std. | Y_2243 | Y_2243 | Y_3600 | Y_3710 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3236.7 | 4114.9 | 66041. | 12937. | 4967.0 |
| Stddev    | 10.3   | 3.9    | 163.   | 79.    | 12.0   |
| %RSD      | .31829 | .09502 | .24697 | .61258 | .24067 |
| #1        | 3227.3 | 4116.1 | 65987. | 12845. | 4953.4 |
| #2        | 3247.7 | 4118.0 | 66224. | 12977. | 4971.4 |
| #3        | 3235.1 | 4110.5 | 65911. | 12988. | 4976.0 |



Sample Name: S3      Acquired: 05/20/2019 11:30:18      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      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    | .09165 | .14652 | 1.6602 | .12053 | .31906 | 4.7341 | 9.6833 | .92927 |
| Stddev | .00029 | .00063 | .0013  | .00050 | .00044 | .0120  | .0224  | .00578 |
| %RSD   | .31468 | .42918 | .07827 | .41727 | .13724 | .25345 | .23087 | .62225 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .09198 | .14599 | 1.6587 | .12037 | .31951 | 4.7232 | 9.6996 | .92827 |
| #2 | .09154 | .14634 | 1.6608 | .12012 | .31864 | 4.7470 | 9.6926 | .93549 |
| #3 | .09144 | .14721 | 1.6611 | .12109 | .31902 | 4.7322 | 9.6578 | .92406 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 2.5002 | 3.9441 | .73961 | .68303 | 1.0227 | 2.0077 | 3.5629 | 1.1763 |
| Stddev | .0006  | .0149  | .00168 | .00007 | .0020  | .0072  | .0194  | .0016  |
| %RSD   | .02375 | .37757 | .22728 | .01010 | .19556 | .35958 | .54337 | .13641 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.5002 | 3.9307 | .73824 | .68301 | 1.0210 | 2.0003 | 3.5455 | 1.1746 |
| #2 | 2.4996 | 3.9601 | .73911 | .68298 | 1.0249 | 2.0147 | 3.5837 | 1.1777 |
| #3 | 2.5008 | 3.9416 | .74149 | .68311 | 1.0222 | 2.0082 | 3.5595 | 1.1767 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .66530 | .09451 | .23005 | .11898 | 1.4485 | .97222 | .08241 | .51206 |
| Stddev | .00038 | .00046 | .00157 | .00069 | .0015  | .00230 | .00036 | .00173 |
| %RSD   | .05700 | .48542 | .68078 | .57640 | .10057 | .23672 | .44089 | .33866 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .66526 | .09408 | .22900 | .11823 | 1.4487 | .97288 | .08272 | .51166 |
| #2 | .66495 | .09499 | .23185 | .11911 | 1.4470 | .97411 | .08201 | .51395 |
| #3 | .66570 | .09445 | .22929 | .11958 | 1.4499 | .96966 | .08250 | .51055 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 1.4155 | .04680 | .68284 | .24485 | .62440 | 1.2097 | 12.175 |
| Stddev | .0003  | .00020 | .00479 | .00034 | .00232 | .0032  | .022   |
| %RSD   | .02371 | .42936 | .70194 | .13849 | .37165 | .26830 | .18356 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.4154 | .04670 | .68256 | .24524 | .62174 | 1.2069 | 12.200 |
| #2 | 1.4159 | .04667 | .68776 | .24470 | .62602 | 1.2132 | 12.163 |
| #3 | 1.4153 | .04703 | .67819 | .24462 | .62544 | 1.2088 | 12.160 |

Sample Name: S3      Acquired: 05/20/2019 11:30:18      Type: Cal  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: S03      Custom ID2:      Custom ID3:  
 Comment:

| Int. Std. | Y_2243 | Y_2243 | Y_3600 | Y_3710 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3119.7 | 3959.1 | 64758. | 12713. | 4750.4 |
| Stddev    | 7.7    | 4.5    | 198.   | 75.    | 6.3    |
| %RSD      | .24694 | .11343 | .30635 | .59039 | .13326 |
| #1        | 3120.0 | 3956.1 | 64928. | 12725. | 4748.9 |
| #2        | 3111.8 | 3964.3 | 64540. | 12632. | 4757.4 |
| #3        | 3127.2 | 3956.9 | 64806. | 12780. | 4745.0 |

Sample Name: S4      Acquired: 05/20/2019 11:34:07      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      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    | .18652 | .29330 | 3.3976 | .24047 | .64890 | 9.6572 | 19.593 | 1.8334 |
| Stddev | .00069 | .00095 | .0033  | .00143 | .00192 | .0290  | .045   | .0217  |
| %RSD   | .36972 | .32257 | .09644 | .59282 | .29600 | .30066 | .22893 | 1.1815 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .18593 | .29221 | 3.3982 | .23934 | .64699 | 9.6901 | 19.589 | 1.8403 |
| #2 | .18634 | .29385 | 3.4006 | .24207 | .65083 | 9.6461 | 19.550 | 1.8507 |
| #3 | .18728 | .29384 | 3.3941 | .23999 | .64888 | 9.6353 | 19.639 | 1.8091 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 5.0141 | 7.8809 | 1.4743 | 1.3867 | 2.0469 | 3.9558 | 7.0581 | 2.3633 |
| Stddev | .0020  | .0576  | .0038  | .0009  | .0063  | .0276  | .0737  | .0183  |
| %RSD   | .04063 | .73044 | .25924 | .06704 | .30644 | .69659 | 1.0437 | .77546 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.0151 | 7.9280 | 1.4725 | 1.3867 | 2.0540 | 3.9762 | 7.1299 | 2.3774 |
| #2 | 5.0155 | 7.8979 | 1.4787 | 1.3876 | 2.0421 | 3.9667 | 7.0618 | 2.3699 |
| #3 | 5.0118 | 7.8167 | 1.4717 | 1.3857 | 2.0446 | 3.9244 | 6.9827 | 2.3425 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 1.3432 | .19476 | .46581 | .23721 | 2.9713 | 1.9751 | .17099 | 1.0251 |
| Stddev | .0016  | .00020 | .00012 | .00068 | .0375  | .0027  | .00010 | .0101  |
| %RSD   | .11723 | .10188 | .02680 | .28793 | 1.2631 | .13411 | .06000 | .98924 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.3443 | .19454 | .46576 | .23791 | 2.9844 | 1.9780 | .17101 | 1.0292 |
| #2 | 1.3438 | .19483 | .46595 | .23716 | 2.9290 | 1.9728 | .17108 | 1.0325 |
| #3 | 1.3414 | .19492 | .46571 | .23655 | 3.0005 | 1.9744 | .17088 | 1.0135 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 2.8873 | .09712 | 1.3222 | .49858 | 1.2490 | 2.4792 | 24.064 |
| Stddev | .0092  | .00042 | .0163  | .00037 | .0045  | .0033  | .312   |
| %RSD   | .31929 | .43019 | 1.2349 | .07520 | .35802 | .13156 | 1.2971 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.8791 | .09715 | 1.3266 | .49841 | 1.2540 | 2.4768 | 24.242 |
| #2 | 2.8973 | .09753 | 1.3359 | .49832 | 1.2475 | 2.4779 | 24.247 |
| #3 | 2.8854 | .09669 | 1.3042 | .49901 | 1.2454 | 2.4829 | 23.704 |

Sample Name: S4      Acquired: 05/20/2019 11:34:07      Type: Cal  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: S04      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_2243 | Y_3600 | Y_3710 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2977.3 | 3749.2 | 62964. | 12583. | 4468.4 |
| Stddev    | 32.6   | 11.9   | 334.   | 138.   | 3.0    |
| %RSD      | 1.0960 | .31797 | .53091 | 1.0975 | .06789 |
|           |        |        |        |        |        |
| #1        | 2952.7 | 3760.4 | 62645. | 12458. | 4468.5 |
| #2        | 3014.3 | 3736.6 | 63312. | 12560. | 4465.3 |
| #3        | 2964.9 | 3750.5 | 62934. | 12731. | 4471.4 |

Sample Name: S6      Acquired: 05/20/2019 11:42:03      Type: Cal  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: S06      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| Elem   | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 54.329 | 26.685 | 22.312 | 8.2508 | 2.7818 |
| Stddev | .300   | .147   | .112   | .0452  | .0159  |
| %RSD   | .55293 | .55143 | .50304 | .54823 | .57140 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 54.260 | 26.520 | 22.250 | 8.2266 | 2.7741 |
| #2 | 54.658 | 26.801 | 22.442 | 8.3030 | 2.8001 |
| #3 | 54.069 | 26.734 | 22.244 | 8.2228 | 2.7712 |

|           |        |
|-----------|--------|
| Int. Std. | Y_3710 |
| Units     | Cts/S  |
| Avg       | 11835. |
| Stddev    | 51.    |
| %RSD      | .43203 |

|    |        |
|----|--------|
| #1 | 11869. |
| #2 | 11776. |
| #3 | 11860. |

Sample Name: S5      Acquired: 05/20/2019 11:38:00      Type: Cal  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
User: BIN H      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    | .38534 | .58417 | 6.9609 | .47468 | 1.3370 | 19.823 | 39.400 | 3.6335 |
| Stddev | .00054 | .00237 | .0061  | .00111 | .0018  | .043   | .095   | .0181  |
| %RSD   | .14118 | .40486 | .08735 | .23332 | .13780 | .21556 | .24152 | .49766 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .38595 | .58676 | 6.9539 | .47580 | 1.3369 | 19.838 | 39.499 | 3.6517 |
| #2 | .38516 | .58214 | 6.9647 | .47465 | 1.3352 | 19.775 | 39.309 | 3.6333 |
| #3 | .38491 | .58360 | 6.9643 | .47359 | 1.3389 | 19.856 | 39.392 | 3.6156 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 10.083 | 15.716 | 2.9024 | 2.8316 | 4.1130 | 7.8288 | 13.960 | 4.7944 |
| Stddev | .004   | .115   | .0032  | .0015  | .0055  | .0454  | .117   | .0316  |
| %RSD   | .04386 | .73353 | .10903 | .05355 | .13391 | .57930 | .83893 | .65980 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.079 | 15.790 | 2.9045 | 2.8299 | 4.1155 | 7.8565 | 14.056 | 4.8155 |
| #2 | 10.088 | 15.583 | 2.9040 | 2.8328 | 4.1067 | 7.7765 | 13.829 | 4.7580 |
| #3 | 10.084 | 15.775 | 2.8988 | 2.8321 | 4.1169 | 7.8535 | 13.995 | 4.8096 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.7231 | .40356 | .94793 | .47300 | 6.1574 | 4.0553 | .35432 | 2.0463 |
| Stddev | .0032  | .00182 | .00449 | .00184 | .0479  | .0067  | .00149 | .0087  |
| %RSD   | .11639 | .45009 | .47346 | .38898 | .77826 | .16538 | .41936 | .42431 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.7195 | .40147 | .94904 | .47383 | 6.1377 | 4.0586 | .35574 | 2.0553 |
| #2 | 2.7256 | .40446 | .94300 | .47090 | 6.1224 | 4.0475 | .35277 | 2.0455 |
| #3 | 2.7241 | .40475 | .95177 | .47429 | 6.2120 | 4.0596 | .35444 | 2.0380 |

|        |        |        |        |        |        |        |        |  |
|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 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    | 5.9835 | .20250 | 2.5749 | 1.0193 | 2.5011 | 5.1484 | 48.989 |  |
| Stddev | .0072  | .00067 | .0098  | .0006  | .0100  | .0055  | .359   |  |
| %RSD   | .11991 | .33311 | .38091 | .06352 | .40097 | .10726 | .73279 |  |

|    |        |        |        |        |        |        |        |  |
|----|--------|--------|--------|--------|--------|--------|--------|--|
| #1 | 5.9895 | .20326 | 2.5862 | 1.0200 | 2.5042 | 5.1422 | 49.337 |  |
| #2 | 5.9756 | .20198 | 2.5682 | 1.0188 | 2.4899 | 5.1503 | 49.012 |  |
| #3 | 5.9856 | .20226 | 2.5704 | 1.0191 | 2.5093 | 5.1528 | 48.620 |  |

Sample Name: S5      Acquired: 05/20/2019 11:38:00      Type: Cal  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: IR      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: S05      Custom ID2:      Custom ID3:  
 Comment:

| Int. Std. | Y_2243 | Y_2243 | Y_3600 | Y_3710 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2754.1 | 3457.2 | 60740. | 12270. | 4114.7 |
| Stddev    | 8.6    | 7.5    | 210.   | 54.    | 9.7    |
| %RSD      | .31105 | .21692 | .34497 | .44312 | .23630 |
| #1        | 2763.0 | 3454.8 | 60926. | 12227. | 4112.8 |
| #2        | 2753.3 | 3451.1 | 60513. | 12251. | 4106.0 |
| #3        | 2745.9 | 3465.6 | 60781. | 12331. | 4125.2 |

Sample Name: ICV      Acquired: 05/20/2019 11:46:33      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: ICV      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.052585 | 1.062672 | 1.031511 | 1.077082 | 1.048623 | 2.419685 |
| Stddev | .012725  | .009880  | .010574  | .009369  | .008744  | .011246  |
| %RSD   | 1.208904 | .9296937 | 1.025113 | .8698074 | .8338123 | .4647908 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 1.039409 | 1.053910 | 1.020635 | 1.067954 | 1.039789 | 2.409383 |
| #2 | 1.053544 | 1.060726 | 1.032145 | 1.076618 | 1.048809 | 2.431684 |
| #3 | 1.064804 | 1.073379 | 1.041754 | 1.086673 | 1.057273 | 2.417990 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5061106 | .5237508 | .5383165 | 10.37837 | .5353782 | .5227434 |
| Stddev | .0017489 | .0016229 | .0052554 | .06525   | .0035159 | .0048841 |
| %RSD   | .3455536 | .3098577 | .9762700 | .6286928 | .6567070 | .9343166 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5041108 | .5223743 | .5334893 | 10.35066 | .5313886 | .5183408 |
| #2 | .5073541 | .5255403 | .5375453 | 10.33154 | .5367223 | .5218924 |
| #3 | .5068668 | .5233378 | .5439149 | 10.45290 | .5380238 | .5279971 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5045863 | 5.487739 | .5196467 | 6.039070 | .5372036 | .5011393 |
| Stddev | .0013328 | .009856  | .0025771 | .075175  | .0045522 | .0006218 |
| %RSD   | .2641383 | .1795944 | .4959410 | 1.244812 | .8473855 | .1240710 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5060178 | 5.477177 | .5173693 | 5.964264 | .5332457 | .5004790 |
| #2 | .5033812 | 5.496690 | .5191264 | 6.038336 | .5361869 | .5012254 |
| #3 | .5043599 | 5.489349 | .5224443 | 6.114609 | .5421782 | .5017136 |

|        |          |          |          |          |            |            |
|--------|----------|----------|----------|----------|------------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm        |
| Avg    | 10.05959 | .5224044 | 1.003978 | 10.12256 | F -.001034 | F .0274869 |
| Stddev | .12179   | .0092492 | .009510  | .07165   | .002147    | .0007466   |
| %RSD   | 1.210707 | 1.770512 | .9472657 | .7078656 | 207.6214   | 2.716273   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.02742 | .5125562 | .996857  | 10.17112 | -.001051 | .0268138 |
| #2 | 10.19423 | .5237498 | 1.000300 | 10.15630 | -.003173 | .0273569 |
| #3 | 9.95711  | .5309073 | 1.014779 | 10.04027 | .001122  | .0282900 |



Sample Name: ICV      Acquired: 05/20/2019 11:46:33      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: ICV      Custom ID2:      Custom ID3:  
Comment:

|        |            |            |            |            |            |            |
|--------|------------|------------|------------|------------|------------|------------|
| Elem   | Mo2020     | S_1820     | Si2516     | Sn1899     | Ti3361     | Li6707     |
| Units  | ppm        | ppm        | ppm        | ppm        | ppm        | ppm        |
| Avg    | F .0147566 | F .0110646 | F .0093249 | F .0147460 | F .0154807 | F .0188079 |
| Stddev | .0002314   | .0035547   | .0015273   | .0013629   | .0009978   | .0023506   |
| %RSD   | 1.568138   | 32.12636   | 16.37843   | 9.242291   | 6.445359   | 12.49807   |
|        |            |            |            |            |            |            |
| #1     | .0146756   | .0069822   | .0110630   | .0159659   | .0160594   | .0210131   |
| #2     | .0150176   | .0127371   | .0081974   | .0132751   | .0160541   | .0190756   |
| #3     | .0145766   | .0134746   | .0087142   | .0149971   | .0143286   | .0163348   |

|        |            |
|--------|------------|
| Elem   | Sr4077     |
| Units  | ppm        |
| Avg    | F .0120228 |
| Stddev | .0000354   |
| %RSD   | .2947335   |
|        |            |
| #1     | .0120563   |
| #2     | .0119857   |
| #3     | .0120265   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3274.920 | 4173.871 | 66323.57 | 12881.12 | 5086.146 |
| Stddev    | 31.026   | 2.774    | 286.16   | 23.97    | 5.245    |
| %RSD      | .9473730 | .0664723 | .4314549 | .1860951 | .1031259 |
|           |          |          |          |          |          |
| #1        | 3293.164 | 4172.078 | 66443.56 | 12888.51 | 5081.601 |
| #2        | 3292.500 | 4172.467 | 66530.20 | 12900.52 | 5091.885 |
| #3        | 3239.097 | 4177.066 | 65996.96 | 12854.32 | 5084.952 |

Sample Name: ICB      Acquired: 05/20/2019 11:58:10      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: ICB      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0014852 | .0006548 | .0006256 | -.000926 | -.000381 | .0019973 | -.000332 |
| Stddev | .0032945 | .0015003 | .0018859 | .001940  | .001966  | .0029195 | .000769  |
| %RSD   | 221.8234 | 229.1355 | 301.4784 | 209.5822 | 516.2305 | 146.1737 | 231.5088 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.001660 | -.000821 | .0025558 | -.002871 | -.000561 | .0023163 | -.001009 |
| #2 | .004911  | .000607  | -.001213 | .001010  | -.002251 | .0047442 | .000505  |
| #3 | .001204  | .002178  | .000534  | -.000916 | .001669  | -.001069 | -.000492 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000085 | .0001390 | .0009945 | .0003332 | -.000267 | .0022400 | .0550794 |
| Stddev | .0000307 | .0000007 | .0046424 | .0003995 | .000347  | .0018364 | .0042486 |
| %RSD   | 361.1420 | .5281525 | 466.8054 | 119.9004 | 130.0403 | 81.98222 | 7.713639 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000416 | .0001382 | -.004345 | -.000006 | -.000538 | .0015475 | .0571655 |
| #2 | -.000019 | .0001392 | .004072  | .000774  | .000124  | .0043219 | .0578817 |
| #3 | .000003  | .0001396 | .003257  | .000232  | -.000387 | .0008505 | .0501910 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010408 | .0060793 | -.001146 | -.000045 | .2730827 | -.000076 | .0011129 |
| Stddev | .0001663 | .0139150 | .000320  | .000065  | .2400588 | .002705  | .0017256 |
| %RSD   | 15.98115 | 228.8909 | 27.93611 | 143.5155 | 87.90699 | 3549.426 | 155.0537 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009257 | -.005614 | -.001369 | -.000115 | -.000946 | -.001247 | .0015834 |
| #2 | .0012315 | .021470  | -.001289 | -.000032 | .446282  | .003017  | -.000799 |
| #3 | .0009652 | .002382  | -.000779 | .000012  | .373912  | -.001998 | .002554  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0887065 | -.000651 | -.001724 | -.000160 | -.007654 | -.011024 | -.000551 |
| Stddev | .1003535 | .001824  | .000245  | .000165  | .002474  | .001068  | .000409  |
| %RSD   | 113.1298 | 280.0040 | 14.21899 | 102.8088 | 32.31879 | 9.685257 | 74.20309 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.005733 | .001124  | -.002000 | .000028  | -.005052 | -.012235 | -.000163 |
| #2 | .077774  | -.002521 | -.001530 | -.000278 | -.009975 | -.010619 | -.000512 |
| #3 | .194078  | -.000557 | -.001643 | -.000231 | -.007935 | -.010217 | -.000978 |

Sample Name: ICB      Acquired: 05/20/2019 11:58:10      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: ICB      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000171 | .0066891 | -.000118 |
| Stddev | .001239  | .0018853 | .000101  |
| %RSD   | 726.2779 | 28.18395 | 85.62232 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.000190 | .0053469 | -.000002 |
| #2 | -.001400 | .0088445 | -.000187 |
| #3 | .001078  | .0058761 | -.000165 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3238.082 | 4136.623 | 65625.90 | 12611.88 | 4968.071 |
| Stddev    | 16.330   | 9.672    | 172.01   | 59.10    | 4.164    |
| %RSD      | .5043180 | .2338028 | .2621136 | .4685675 | .0838143 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3228.527 | 4132.726 | 65445.11 | 12604.75 | 4963.521 |
| #2 | 3256.938 | 4147.635 | 65787.53 | 12674.22 | 4971.693 |
| #3 | 3228.781 | 4129.509 | 65645.05 | 12556.68 | 4968.998 |

Sample Name: ICSA      Acquired: 05/20/2019 12:02:17      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: ICSA      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000840 | .0081476 | -.004900 | -.016062 | .0068455 | 248.3441 |
| Stddev | .004726  | .0016993 | .001456  | .004666  | .0004672 | .5092    |
| %RSD   | 562.8225 | 20.85637 | 29.70732 | 29.04991 | 6.825548 | .2050484 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .003993  | .0078629 | -.005008 | -.015270 | .0071366 | 247.9826 |
| #2 | -.005451 | .0066086 | -.003394 | -.021073 | .0063065 | 248.9264 |
| #3 | -.001061 | .0099712 | -.006299 | -.011843 | .0070932 | 248.1231 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0049481 | .0009587 | -.000020 | 268.5495 | .0528857 | .0004518 |
| Stddev | .0010212 | .0000883 | .000090  | 1.0899   | .0012503 | .0000378 |
| %RSD   | 20.63813 | 9.213499 | 449.5771 | .4058291 | 2.364149 | 8.360134 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0056993 | .0010580 | .000076  | 267.3404 | .0538337 | .0004953 |
| #2 | .0037853 | .0009290 | -.000034 | 269.4562 | .0533546 | .0004324 |
| #3 | .0053598 | .0008890 | -.000103 | 268.8519 | .0514687 | .0004277 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.003592 | 106.6315 | .0155506 | 272.8292 | -.000630 | -.008964 |
| Stddev | .002095  | .4078    | .0003637 | 1.0609   | .000065  | .000489  |
| %RSD   | 58.31017 | .3824509 | 2.338817 | .3888396 | 10.37349 | 5.452866 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.003933 | 106.2118 | .0156952 | 271.6902 | -.000698 | -.008737 |
| #2 | -.005495 | 107.0263 | .0158199 | 273.7892 | -.000624 | -.009525 |
| #3 | -.001348 | 106.6564 | .0151369 | 273.0082 | -.000568 | -.008631 |

|        |          |          |          |          |            |            |
|--------|----------|----------|----------|----------|------------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm        |
| Avg    | -.180009 | .0019225 | .0082113 | -.119937 | F .0104320 | F .1374648 |
| Stddev | .368573  | .0022476 | .0006581 | .027640  | .0018310   | .0010948   |
| %RSD   | 204.7528 | 116.9133 | 8.014380 | 23.04522 | 17.55148   | .7963991   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .121577  | -.000330 | .0082459 | -.118072 | .0087522 | .1364461 |
| #2 | -.590860 | .001932  | .0075366 | -.148461 | .0123837 | .1373258 |
| #3 | -.070743 | .004165  | .0088513 | -.093277 | .0101601 | .1386224 |

Sample Name: ICSA      Acquired: 05/20/2019 12:02:17      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: ICSA      Custom ID2:      Custom ID3:  
Comment:

|        |          |            |            |          |            |            |
|--------|----------|------------|------------|----------|------------|------------|
| Elem   | Mo2020   | S_1820     | Si2516     | Sn1899   | Ti3361     | Li6707     |
| Units  | ppm      | ppm        | ppm        | ppm      | ppm        | ppm        |
| Avg    | .0007626 | F .0065995 | F -.013395 | -.000303 | F -.003543 | F .0176794 |
| Stddev | .0004669 | .0024679   | .000385    | .000566  | .000355    | .0034097   |
| %RSD   | 61.23072 | 37.39521   | 2.871361   | 187.1126 | 10.01667   | 19.28644   |
|        |          |            |            |          |            |            |
| #1     | .0009414 | .0086247   | -.013055   | -.000956 | -.003250   | .0139644   |
| #2     | .0011137 | .0038507   | -.013318   | -.000006 | -.003441   | .0206661   |
| #3     | .0002327 | .0073231   | -.013812   | .000054  | -.003938   | .0184078   |

|        |            |
|--------|------------|
| Elem   | Sr4077     |
| Units  | ppm        |
| Avg    | F .1094450 |
| Stddev | .0002968   |
| %RSD   | .2712205   |
|        |            |
| #1     | .1092244   |
| #2     | .1097825   |
| #3     | .1093282   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3043.505 | 3854.546 | 62440.49 | 12216.29 | 4521.530 |
| Stddev    | 5.459    | 1.378    | 402.13   | 82.28    | 7.100    |
| %RSD      | .1793568 | .0357462 | .6440212 | .6735581 | .1570234 |
|           |          |          |          |          |          |
| #1        | 3039.709 | 3854.216 | 62829.39 | 12256.61 | 4529.573 |
| #2        | 3049.760 | 3856.058 | 62465.76 | 12121.63 | 4518.885 |
| #3        | 3041.044 | 3853.362 | 62026.33 | 12270.64 | 4516.132 |

Sample Name: ICSAB      Acquired: 05/20/2019 12:28:15      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: ICSAB      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0948735 | .1089176 | .0471669 | .0371038 | .6199695 | 239.6010 |
| Stddev | .0094121 | .0008517 | .0020587 | .0012690 | .0038016 | .5127    |
| %RSD   | 9.920643 | .7819250 | 4.364684 | 3.420149 | .6131966 | .2139854 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .1057017 | .1097363 | .0480289 | .0368824 | .6243591 | 239.0585 |
| #2 | .0902659 | .1089803 | .0448173 | .0359601 | .6177492 | 240.0775 |
| #3 | .0886530 | .1080364 | .0486545 | .0384690 | .6178002 | 239.6669 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5229044 | .5355096 | 1.019567 | 259.8808 | .5752953 | .5040802 |
| Stddev | .0004374 | .0028570 | .003899  | .7969    | .0028960 | .0021418 |
| %RSD   | .0836436 | .5335127 | .3824481 | .3066291 | .5033876 | .4248835 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .5228822 | .5323326 | 1.023519 | 259.0086 | .5767856 | .5063969 |
| #2 | .5233525 | .5378680 | 1.015723 | 260.5708 | .5771425 | .5021724 |
| #3 | .5224786 | .5363281 | 1.019458 | 260.0629 | .5719576 | .5036714 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4825222 | 103.1224 | .5387887 | 263.3001 | 1.012054 | .2002179 |
| Stddev | .0032848 | .3410    | .0026933 | .6592    | .001919  | .0013795 |
| %RSD   | .6807535 | .3306503 | .4998757 | .2503424 | .1896501 | .6889785 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4793413 | 102.8866 | .5357044 | 262.5576 | 1.014047 | .1986608 |
| #2 | .4859018 | 103.5134 | .5399854 | 263.8163 | 1.010218 | .2012870 |
| #3 | .4823236 | 102.9673 | .5406762 | 263.5263 | 1.011898 | .2007059 |

|        |          |          |          |          |            |            |
|--------|----------|----------|----------|----------|------------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774     | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm        | ppm        |
| Avg    | -.376318 | .5200826 | .9990554 | -.076043 | F .0069947 | F .1349767 |
| Stddev | .163979  | .0004131 | .0069480 | .117102  | .0043794   | .0004693   |
| %RSD   | 43.57442 | .0794359 | .6954557 | 153.9935 | 62.61110   | .3477170   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | -.309020 | .5201278 | 1.004201 | .012863  | .0072849 | .1348116 |
| #2 | -.563239 | .5204712 | 1.001814 | -.032266 | .0112217 | .1355062 |
| #3 | -.256696 | .5196487 | .991152  | -.208727 | .0024773 | .1346122 |

Sample Name: ICSAB      Acquired: 05/20/2019 12:28:15      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: ICSAB      Custom ID2:      Custom ID3:  
 Comment:

|        |          |            |            |          |            |            |
|--------|----------|------------|------------|----------|------------|------------|
| Elem   | Mo2020   | S_1820     | Si2516     | Sn1899   | Ti3361     | Li6707     |
| Units  | ppm      | ppm        | ppm        | ppm      | ppm        | ppm        |
| Avg    | .0006096 | F -.002457 | F -.012378 | -.001065 | F -.003381 | F .0189567 |
| Stddev | .0010527 | .004338    | .000203    | .000335  | .000422    | .0018032   |
| %RSD   | 172.6926 | 176.5305   | 1.638234   | 31.44190 | 12.48269   | 9.512005   |
|        |          |            |            |          |            |            |
| #1     | .0015745 | -.001339   | -.012406   | -.001273 | -.003020   | .0210192   |
| #2     | -.000513 | .001212    | -.012566   | -.000679 | -.003845   | .0176782   |
| #3     | .000767  | -.007246   | -.012163   | -.001244 | -.003277   | .0181728   |

|        |            |
|--------|------------|
| Elem   | Sr4077     |
| Units  | ppm        |
| Avg    | F .1054391 |
| Stddev | .0001889   |
| %RSD   | .1791189   |
|        |            |
| #1     | .1055005   |
| #2     | .1055897   |
| #3     | .1052272   |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3107.940 | 3971.921 | 63919.74 | 12463.23 | 4673.702 |
| Stddev    | 15.436   | 29.482   | 276.62   | 35.41    | 25.040   |
| %RSD      | .4966492 | .7422652 | .4327657 | .2841395 | .5357671 |
|           |          |          |          |          |          |
| #1        | 3091.414 | 3937.878 | 63696.31 | 12501.58 | 4646.461 |
| #2        | 3110.422 | 3988.909 | 63833.78 | 12431.77 | 4695.715 |
| #3        | 3121.985 | 3988.977 | 64229.14 | 12456.33 | 4678.932 |

Sample Name: CCV027      Acquired: 05/20/2019 12:32:09      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCV027      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.963041 | 4.895571 | 24.63204 | 4.804362 | 4.873419 | 412.1911 | 10.08953 |
| Stddev | .020526  | .023505  | .03013   | .010273  | .008801  | .9883    | .03563   |
| %RSD   | .4135711 | .4801213 | .1223289 | .2138171 | .1805951 | .2397632 | .3530932 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.942964 | 4.886443 | 24.63884 | 4.799094 | 4.863279 | 411.0622 | 10.05601 |
| #2 | 4.962172 | 4.877999 | 24.59910 | 4.797791 | 4.877897 | 412.6110 | 10.12694 |
| #3 | 4.983988 | 4.922270 | 24.65820 | 4.816199 | 4.879081 | 412.9001 | 10.08564 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5097361 | 2.472031 | 422.2670 | 15.21916 | 2.517562 | 15.13130 | 424.1300 |
| Stddev | .0018345 | .003740  | 2.3439   | .02284   | .006124  | .02400   | 2.5142   |
| %RSD   | .3598954 | .1513112 | .5550649 | .1500742 | .2432596 | .1586041 | .5927870 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5076888 | 2.473025 | 422.0054 | 15.19297 | 2.520122 | 15.10404 | 422.8102 |
| #2 | .5102886 | 2.467893 | 420.0650 | 15.23493 | 2.510573 | 15.14061 | 422.5505 |
| #3 | .5112308 | 2.475173 | 424.7307 | 15.22958 | 2.521991 | 15.14925 | 427.0292 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.32834 | 413.8313 | 2.498159 | 1.267837 | 413.3355 | 2.527697 | 14.77051 |
| Stddev | .07115   | 2.6172   | .006464  | .006453  | 1.4049   | .009951  | .01774   |
| %RSD   | .4641786 | .6324401 | .2587325 | .5089884 | .3398849 | .3936631 | .1200771 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 15.30020 | 412.6499 | 2.499028 | 1.264136 | 411.7613 | 2.516412 | 14.78768 |
| #2 | 15.27556 | 412.0130 | 2.491304 | 1.264086 | 413.7835 | 2.531469 | 14.75226 |
| #3 | 15.40926 | 416.8309 | 2.504143 | 1.275288 | 414.4617 | 2.535210 | 14.77160 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 154.6778 | 5.090478 | 5.425916 | 4.890149 | 4.988398 | 4.957869 | 4.966118 |
| Stddev | .4192    | .021511  | .026137  | .012540  | .023717  | .018778  | .015176  |
| %RSD   | .2709837 | .4225662 | .4817020 | .2564273 | .4754390 | .3787504 | .3055993 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 154.1988 | 5.083456 | 5.403544 | 4.880923 | 4.979034 | 4.939885 | 4.959608 |
| #2 | 154.8576 | 5.073355 | 5.419558 | 4.885097 | 4.970794 | 4.956371 | 4.955283 |
| #3 | 154.9771 | 5.114622 | 5.454644 | 4.904426 | 5.015368 | 4.977351 | 4.983464 |



Sample Name: CCV027      Acquired: 05/20/2019 12:32:09      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCV027      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 5.000977 | 5.117462 | 5.042860 |
| Stddev | .006615  | .023655  | .022612  |
| %RSD   | .1322683 | .4622462 | .4483972 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | 4.994406 | 5.095111 | 5.020502 |
| #2 | 5.000890 | 5.142235 | 5.042360 |
| #3 | 5.007635 | 5.115040 | 5.065718 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2843.463 | 3602.003 | 60513.13 | 12032.65 | 4201.878 |
| Stddev    | 11.146   | 9.742    | 112.80   | 5.07     | 2.956    |
| %RSD      | .3920004 | .2704704 | .1864063 | .0421209 | .0703505 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2830.833 | 3613.240 | 60410.57 | 12036.57 | 4204.441 |
| #2 | 2851.923 | 3596.854 | 60633.94 | 12034.44 | 4202.550 |
| #3 | 2847.632 | 3595.917 | 60494.86 | 12026.92 | 4198.644 |

Sample Name: CCB027      Acquired: 05/20/2019 12:36:17      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCB027      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004936 | .0001082 | .0023095 | .0004908 | .0005908 | .0073942 | .0002488 |
| Stddev | .0015074 | .0023078 | .0007400 | .0011520 | .0013227 | .0034456 | .0005645 |
| %RSD   | 305.4158 | 2132.323 | 32.04156 | 234.7399 | 223.8807 | 46.59918 | 226.8622 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000122 | .0023702 | .0022451 | .0006803 | .0000319 | .0075492 | .0007127 |
| #2 | .002211  | -.002243 | .0016038 | -.000744 | -.000361 | .0107597 | -.000380 |
| #3 | -.000609 | .000197  | .0030796 | .001536  | .002101  | .0038737 | .000413  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001073 | .0001633 | .0183607 | .0006820 | -.000264 | .0061607 | .0994508 |
| Stddev | .0000644 | .0000726 | .0108063 | .0007979 | .000106  | .0005319 | .0032085 |
| %RSD   | 60.05434 | 44.46790 | 58.85538 | 116.9997 | 40.23501 | 8.633173 | 3.226216 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000384 | .0001445 | .0110610 | .0003374 | -.000387 | .0060791 | .1006597 |
| #2 | .0001175 | .0002435 | .0307747 | .0015943 | -.000200 | .0067286 | .0958135 |
| #3 | .0001661 | .0001019 | .0132464 | .0001142 | -.000206 | .0056743 | .1018793 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0052539 | .0284711 | -.000558 | .0003859 | .1406077 | -.001630 | .0019676 |
| Stddev | .0004149 | .0287103 | .000170  | .0005071 | .2042072 | .000600  | .0010075 |
| %RSD   | 7.896564 | 100.8400 | 30.47301 | 131.4262 | 145.2319 | 36.81272 | 51.20630 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0054177 | .0510128 | -.000554 | .0004718 | -.046196 | -.001143 | .0031302 |
| #2 | .0055618 | -.003852 | -.000730 | -.000159 | .358624  | -.002301 | .0014253 |
| #3 | .0047821 | .038252  | -.000390 | .000845  | .109395  | -.001446 | .0013474 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2162014 | .0000481 | .0057190 | .0002761 | -.005448 | -.010725 | .0011823 |
| Stddev | .0717736 | .0011620 | .0020584 | .0001154 | .002013  | .000963  | .0014200 |
| %RSD   | 33.19757 | 2414.325 | 35.99286 | 41.78115 | 36.94807 | 8.975158 | 120.1038 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2990780 | -.001294 | .0073223 | .0002336 | -.006628 | -.011440 | .0023568 |
| #2 | .1750155 | .000725  | .0064369 | .0004067 | -.003124 | -.011103 | .0015860 |
| #3 | .1745108 | .000713  | .0033978 | .0001880 | -.006592 | -.009630 | -.000396 |

Sample Name: CCB027      Acquired: 05/20/2019 12:36:17      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCB027      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0022492 | .0149991 | -.000110 |
| Stddev | .0004734 | .0015700 | .000141  |
| %RSD   | 21.04556 | 10.46758 | 128.1291 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0018170 | .0167002 | -.000054 |
| #2 | .0021756 | .0146914 | -.000006 |
| #3 | .0027551 | .0136056 | -.000271 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3276.904 | 4118.695 | 65992.18 | 12633.45 | 4969.104 |
| Stddev    | 7.057    | 6.516    | 323.00   | 18.40    | 11.105   |
| %RSD      | .2153447 | .1582086 | .4894453 | .1456730 | .2234839 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3285.036 | 4111.361 | 66342.91 | 12628.36 | 4956.481 |
| #2 | 3273.287 | 4120.908 | 65926.68 | 12653.87 | 4977.373 |
| #3 | 3272.390 | 4123.817 | 65706.96 | 12618.14 | 4973.457 |

Sample Name: K2820-05      Acquired: 05/20/2019 15:11:10      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ16D      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0099303 | .0014184 | .0035449 | -.002113 | -.001622 | .0480032 | .0043133 |
| Stddev | .0015314 | .0005412 | .0015923 | .001268  | .000442  | .0054043 | .0014915 |
| %RSD   | 15.42097 | 38.15353 | 44.91728 | 60.00356 | 27.26199 | 11.25822 | 34.57941 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0084198 | .0009104 | .0049538 | -.000672 | -.001706 | .0453462 | .0059715 |
| #2 | .0098896 | .0019876 | .0038634 | -.003055 | -.001144 | .0444416 | .0030814 |
| #3 | .0114817 | .0013574 | .0018174 | -.002614 | -.002017 | .0542216 | .0038868 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001034 | .0000995 | 42.87651 | .0008664 | -.001249 | -.001601 | -.009914 |
| Stddev | .0000327 | .0000360 | .12300   | .0008142 | .000115  | .003239  | .004230  |
| %RSD   | 31.61395 | 36.21711 | .2868772 | 93.97572 | 9.172261 | 202.3272 | 42.66979 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000659 | .0000927 | 43.01635 | .0005781 | -.001227 | -.000443 | -.005030 |
| #2 | .0001257 | .0000674 | 42.82816 | .0002356 | -.001146 | -.005259 | -.012288 |
| #3 | .0001188 | .0001385 | 42.78503 | .0017855 | -.001372 | .000900  | -.012423 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004560 | 7.337079 | .0008824 | .0000906 | 89.91119 | .0070862 | .0026881 |
| Stddev | .0001943 | .053788  | .0002668 | .0002134 | .30375   | .0032949 | .0010805 |
| %RSD   | 42.61808 | .7330995 | 30.23354 | 235.6476 | .3378335 | 46.49752 | 40.19600 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0003429 | 7.346108 | .0009384 | .0003370 | 90.14066 | .0047729 | .0017392 |
| #2 | .0003446 | 7.385780 | .0005921 | -.000038 | 89.56673 | .0056268 | .0038641 |
| #3 | .0006804 | 7.279347 | .0011168 | -.000028 | 90.02617 | .0108587 | .0024610 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.841539 | .1202540 | .1536521 | .0059200 | 26.22623 | 15.11352 | -.002582 |
| Stddev | .175249  | .0007908 | .0007600 | .0000939 | .07887   | .12318   | .000609  |
| %RSD   | 4.561960 | .6575966 | .4946594 | 1.587004 | .3007415 | .8150181 | 23.59332 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.024849 | .1206482 | .1544874 | .0059267 | 26.14986 | 15.22383 | -.003040 |
| #2 | 3.824115 | .1207702 | .1534674 | .0058228 | 26.30739 | 14.98060 | -.001890 |
| #3 | 3.675652 | .1193436 | .1530014 | .0060104 | 26.22143 | 15.13612 | -.002815 |

Sample Name: K2820-05      Acquired: 05/20/2019 15:11:10      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ16D      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0051931 | .0007707 | .0473125 |
| Stddev | .0008352 | .0019936 | .0002805 |
| %RSD   | 16.08236 | 258.6814 | .5928670 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0042298 | .0014060 | .0473346 |
| #2 | .0056344 | .0023692 | .0470216 |
| #3 | .0057149 | -.001463 | .0475813 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3360.987 | 4218.861 | 68133.27 | 13239.60 | 5207.568 |
| Stddev    | 13.352   | 6.863    | 468.40   | 72.66    | 12.724   |
| %RSD      | .3972748 | .1626672 | .6874691 | .5488345 | .2443424 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3375.274 | 4224.645 | 68643.40 | 13174.43 | 5221.942 |
| #2 | 3348.825 | 4220.659 | 67722.58 | 13317.95 | 5197.744 |
| #3 | 3358.861 | 4211.278 | 68033.82 | 13226.41 | 5203.019 |

Sample Name: PB119864BL      Acquired: 05/20/2019 12:40:25      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: PBW864      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0017100 | .0006253 | -.000140 | -.000522 | -.000718 | -.002341 | -.000646 |
| Stddev | .0020041 | .0012422 | .001179  | .003288  | .001549  | .006028  | .001046  |
| %RSD   | 117.2015 | 198.6503 | 844.6281 | 629.9472 | 215.6424 | 257.4886 | 161.9653 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002035 | .0015858 | .001219  | -.003561 | -.000617 | -.006920 | -.001439 |
| #2 | .0039846 | .0010676 | -.000896 | -.000974 | -.002316 | .004489  | .000540  |
| #3 | .0009419 | -.000777 | -.000742 | .002969  | .000778  | -.004592 | -.001038 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000010 | .0000881 | -.010495 | .0001820 | .0000965 | .0013604 | .0409417 |
| Stddev | .000068  | .0000445 | .010529  | .0011770 | .0002443 | .0010840 | .0065833 |
| %RSD   | 668.3641 | 50.47996 | 100.3173 | 646.8225 | 253.2336 | 79.68133 | 16.07964 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .000006  | .0001333 | -.001810 | -.000074 | -.000131 | .0011326 | .0423694 |
| #2 | -.000085 | .0000865 | -.007471 | -.000846 | .000355  | .0025402 | .0337617 |
| #3 | .000048  | .0000444 | -.022205 | .001466  | .000065  | .0004084 | .0466939 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0032273 | .0373390 | -.000970 | .0001790 | .0136985 | -.002528 | .0005690 |
| Stddev | .0002384 | .0094341 | .000249  | .0004908 | .1920158 | .003302  | .0008382 |
| %RSD   | 7.388143 | 25.26609 | 25.67774 | 274.2134 | 1401.733 | 130.6060 | 147.3184 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0032264 | .0336496 | -.001230 | -.000325 | -.141369 | .001054  | .0006028 |
| #2 | .0029894 | .0480602 | -.000734 | .000655  | -.046011 | -.003189 | .0013897 |
| #3 | .0034662 | .0303071 | -.000946 | .000206  | .228475  | -.005449 | -.000286 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.039283 | -.002610 | -.000958 | -.000164 | -.009910 | -.011823 | .0002539 |
| Stddev | .030683  | .002081  | .001044  | .000347  | .001766  | .001482  | .0007192 |
| %RSD   | 78.10894 | 79.73556 | 108.9501 | 211.9291 | 17.82070 | 12.53642 | 283.2785 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.057367 | -.003509 | -.000633 | -.000557 | -.008692 | -.012902 | .0006687 |
| #2 | -.056625 | -.004090 | -.002126 | .000100  | -.011935 | -.010133 | -.000577 |
| #3 | -.003855 | -.000230 | -.000115 | -.000034 | -.009102 | -.012434 | .000670  |

Sample Name: PB119864BL      Acquired: 05/20/2019 12:40:25      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: PBW864      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000863 | .0043234 | -.000147 |
| Stddev | .000381  | .0023843 | .000058  |
| %RSD   | 44.18262 | 55.14913 | 39.13175 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.001154 | .0053603 | -.000194 |
| #2 | -.001004 | .0015962 | -.000083 |
| #3 | -.000431 | .0060137 | -.000165 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3270.577 | 4134.107 | 66137.98 | 12623.07 | 4988.391 |
| Stddev    | 16.330   | 14.513   | 476.65   | 84.55    | 15.579   |
| %RSD      | .4992996 | .3510586 | .7206843 | .6697981 | .3123144 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3261.647 | 4122.658 | 65759.58 | 12719.78 | 4971.693 |
| #2 | 3289.425 | 4150.430 | 66673.30 | 12563.12 | 5002.536 |
| #3 | 3260.660 | 4129.233 | 65981.05 | 12586.32 | 4990.945 |

Sample Name: PB119864BS      Acquired: 05/20/2019 12:44:35      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: LCS864      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0188170 | .0476947 | .0183244 | .0749226 | .1290358 | .3832102 |
| Stddev | .0028485 | .0020491 | .0013676 | .0020598 | .0016772 | .0055422 |
| %RSD   | 15.13801 | 4.296361 | 7.463458 | 2.749192 | 1.299835 | 1.446243 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0189616 | .0489339 | .0196770 | .0726765 | .1309584 | .3886810 |
| #2 | .0158990 | .0453295 | .0183538 | .0753681 | .1278723 | .3833503 |
| #3 | .0215905 | .0488208 | .0169422 | .0767231 | .1282767 | .3775994 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4037045 | .0111086 | .0107429 | 10.69191 | .0231642 | .0999383 |
| Stddev | .0007392 | .0002692 | .0000467 | .09515   | .0002870 | .0002282 |
| %RSD   | .1830931 | 2.423075 | .4342920 | .8899017 | 1.238827 | .2283322 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4031553 | .0108475 | .0107432 | 10.58774 | .0229002 | .0998768 |
| #2 | .4034134 | .0113851 | .0107894 | 10.71374 | .0234696 | .1001910 |
| #3 | .4045449 | .0110933 | .0106961 | 10.77424 | .0231228 | .0997472 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0442921 | .2404460 | .0361035 | 10.52539 | .0832893 | .0213071 |
| Stddev | .0019490 | .0025748 | .0007932 | .04761   | .0000565 | .0003658 |
| %RSD   | 4.400377 | 1.070854 | 2.197131 | .4523544 | .0677959 | 1.716578 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0465317 | .2434164 | .0353355 | 10.47144 | .0832369 | .0216059 |
| #2 | .0429803 | .2388501 | .0360551 | 10.56152 | .0833491 | .0214161 |
| #3 | .0433643 | .2390714 | .0369198 | 10.54320 | .0832820 | .0208992 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 9.979010 | .1071437 | .1197691 | 9.924403 | .0202731 | F .0186006 |
| Stddev | .176017  | .0018166 | .0026847 | .072271  | .0014119 | .0007604   |
| %RSD   | 1.763877 | 1.695509 | 2.241578 | .7282158 | 6.964275 | 4.087879   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.801548 | .1050703 | .1227166 | 9.843063 | .0213378 | .0178800 |
| #2 | 9.981935 | .1084563 | .1191273 | 9.981226 | .0186715 | .0185265 |
| #3 | 10.15355 | .1079044 | .1174635 | 9.948920 | .0208099 | .0193953 |



Sample Name: PB119864BS      Acquired: 05/20/2019 12:44:35      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: LCS864      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .0203637 | .1773407 | .1943561 | .0135043 | .2100292 | F .1056697 |
| Stddev | .0000280 | .0046067 | .0042090 | .0003742 | .0011832 | .0013088   |
| %RSD   | .1374393 | 2.597664 | 2.165614 | 2.770952 | .5633645 | 1.238564   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0203419 | .1763473 | .1900751 | .0132926 | .2093720 | .1065730 |
| #2 | .0203539 | .1823631 | .1984892 | .0139364 | .2113952 | .1041688 |
| #3 | .0203953 | .1733118 | .1945041 | .0132840 | .2093205 | .1062673 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2088672 |
| Stddev | .0004427 |
| %RSD   | .2119323 |

|    |          |
|----|----------|
| #1 | .2083561 |
| #2 | .2091204 |
| #3 | .2091251 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3240.425 | 4087.849 | 65099.76 | 12486.88 | 5033.048 |
| Stddev    | 7.690    | 8.964    | 206.66   | 144.46   | 7.460    |
| %RSD      | .2373097 | .2192821 | .3174436 | 1.156872 | .1482237 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3247.751 | 4096.163 | 65067.62 | 12650.90 | 5037.813 |
| #2 | 3241.109 | 4089.030 | 65320.61 | 12378.58 | 5024.450 |
| #3 | 3232.417 | 4078.352 | 64911.06 | 12431.17 | 5036.880 |

Sample Name: PB119865BL      Acquired: 05/20/2019 12:48:41      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: PBW865      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000892 | .0006851 | -.000423 | .0020584 | .0014160 | -.005896 | .0001496 |
| Stddev | .002023  | .0009811 | .002355  | .0018662 | .0013646 | .006766  | .0012300 |
| %RSD   | 226.7664 | 143.1993 | 557.2073 | 90.66064 | 96.37082 | 114.7448 | 822.4713 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .001440  | -.000185 | -.002350 | .0017374 | .0016234 | -.013615 | .0011351 |
| #2 | -.002169 | .001748  | .002202  | .0003736 | -.000040 | -.000994 | .0005425 |
| #3 | -.001948 | .000492  | -.001119 | .0040643 | .002665  | -.003080 | -.001229 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000008 | .0001520 | .0064105 | .0000899 | -.000270 | .0000227 | .0028115 |
| Stddev | .000031  | .0000428 | .0056333 | .0010753 | .000288  | .0012606 | .0065214 |
| %RSD   | 364.4913 | 28.14887 | 87.87680 | 1196.070 | 106.5870 | 5563.337 | 231.9549 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .000011  | .0001642 | .0062423 | -.000890 | -.000202 | .0013781 | -.001195 |
| #2 | .000007  | .0001874 | .0121261 | -.000081 | -.000586 | -.000195 | .010336  |
| #3 | -.000044 | .0001044 | .0008632 | .001240  | -.000023 | -.001115 | -.000707 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011702 | .0426483 | -.001124 | .0001673 | -.124855 | -.001930 | .0008338 |
| Stddev | .0001212 | .0065482 | .000270  | .0003637 | .090135  | .002692  | .0014391 |
| %RSD   | 10.35296 | 15.35397 | 24.06560 | 217.4441 | 72.19170 | 139.5037 | 172.5929 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0010305 | .0351479 | -.001434 | -.000130 | -.228106 | .001019  | .0000418 |
| #2 | .0012343 | .0472277 | -.000997 | .000059  | -.084575 | -.002553 | .0024949 |
| #3 | .0012459 | .0455691 | -.000939 | .000573  | -.061884 | -.004255 | -.000035 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.042391 | -.002336 | -.004365 | -.000299 | -.010126 | -.012809 | -.000530 |
| Stddev | .004205  | .001667  | .000873  | .000116  | .004024  | .000355  | .000305  |
| %RSD   | 9.920031 | 71.37573 | 19.99334 | 38.69830 | 39.74287 | 2.774839 | 57.45129 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.038237 | -.004252 | -.005353 | -.000203 | -.014750 | -.012528 | -.000864 |
| #2 | -.046646 | -.001214 | -.004046 | -.000265 | -.008214 | -.012690 | -.000267 |
| #3 | -.042289 | -.001542 | -.003698 | -.000427 | -.007414 | -.013209 | -.000460 |

Sample Name: PB119865BL      Acquired: 05/20/2019 12:48:41      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: PBW865      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0013334 | .0008394 | -.000226 |
| Stddev | .0006271 | .0017915 | .000062  |
| %RSD   | 47.03268 | 213.4252 | 27.21900 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0007738 | .0010564 | -.000155 |
| #2 | .0020112 | .0025126 | -.000264 |
| #3 | .0012152 | -.001051 | -.000259 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3261.215 | 4132.886 | 65739.55 | 12573.66 | 4994.793 |
| Stddev    | 19.687   | 2.904    | 256.77   | 43.22    | 6.618    |
| %RSD      | .6036723 | .0702563 | .3905843 | .3437692 | .1324908 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3241.545 | 4132.796 | 65447.48 | 12524.39 | 5002.250 |
| #2 | 3280.919 | 4135.834 | 65841.46 | 12591.38 | 4992.509 |
| #3 | 3261.180 | 4130.029 | 65929.73 | 12605.21 | 4989.619 |

Sample Name: PB119871BL      Acquired: 05/20/2019 12:57:00      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: PBW871      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0011715 | -.000237 | -.002195 | -.000354 | .0015875 | -.008320 | -.000238 |
| Stddev | .0012484 | .001534  | .001561  | .001919  | .0010650 | .008455  | .000403  |
| %RSD   | 106.5648 | 646.8500 | 71.09820 | 541.9746 | 67.08929 | 101.6188 | 169.4648 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0014455 | -.000697 | -.001181 | .000940  | .0007767 | -.004178 | -.000597 |
| #2 | .0022602 | .001474  | -.003992 | -.002558 | .0011920 | -.002736 | .000198  |
| #3 | -.000191 | -.001489 | -.001411 | .000557  | .0027936 | -.018048 | -.000314 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000023 | .0001136 | .0128231 | .0000360 | -.000387 | -.002662 | -.006038 |
| Stddev | .0000461 | .0000197 | .0089402 | .0005966 | .000156  | .001642  | .007208  |
| %RSD   | 1965.288 | 17.34542 | 69.71929 | 1658.258 | 40.33665 | 61.69469 | 119.3756 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000050 | .0001318 | .0060381 | .0002173 | -.000477 | -.003546 | -.012682 |
| #2 | .000021  | .0001163 | .0229535 | -.000630 | -.000478 | -.003673 | .001625  |
| #3 | .000036  | .0000927 | .0094777 | .000521  | -.000207 | -.000767 | -.007057 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0007015 | .0558149 | -.001108 | .0003377 | .0200120 | -.003487 | -.000494 |
| Stddev | .0003070 | .0158086 | .000103  | .0005215 | .0880761 | .001240  | .000497  |
| %RSD   | 43.76942 | 28.32334 | 9.275456 | 154.4477 | 440.1162 | 35.56758 | 100.5613 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0003667 | .0455987 | -.001020 | .0009356 | .0916972 | -.004910 | -.000241 |
| #2 | .0009699 | .0478220 | -.001221 | -.000023 | -.078307 | -.002920 | -.001067 |
| #3 | .0007679 | .0740239 | -.001083 | .000100  | .046646  | -.002632 | -.000175 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.051420 | -.000723 | -.005038 | -.000359 | -.006643 | -.012270 | -.001268 |
| Stddev | .032544  | .002250  | .000944  | .000111  | .002810  | .000177  | .001028  |
| %RSD   | 63.29091 | 311.1997 | 18.73277 | 30.94776 | 42.29820 | 1.442616 | 81.12783 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.075852 | .001703  | -.005442 | -.000254 | -.009029 | -.012468 | -.000903 |
| #2 | -.014477 | -.001129 | -.003959 | -.000475 | -.007355 | -.012212 | -.000472 |
| #3 | -.063930 | -.002743 | -.005712 | -.000347 | -.003546 | -.012129 | -.002429 |

Sample Name: PB119871BL      Acquired: 05/20/2019 12:57:00      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: PBW871      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0016217 | .0027600 | -.000114 |
| Stddev | .0010224 | .0004533 | .000051  |
| %RSD   | 63.04241 | 16.42525 | 44.80862 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0009459 | .0022506 | -.000144 |
| #2 | .0011214 | .0031190 | -.000143 |
| #3 | .0027979 | .0029104 | -.000055 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3262.141 | 4112.663 | 65646.71 | 12633.51 | 4971.468 |
| Stddev    | 22.014   | 1.696    | 254.73   | 68.41    | 6.359    |
| %RSD      | .6748470 | .0412338 | .3880359 | .5415016 | .1279056 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3265.363 | 4114.508 | 65673.83 | 12695.00 | 4978.807 |
| #2 | 3238.693 | 4111.173 | 65379.51 | 12559.82 | 4967.993 |
| #3 | 3282.367 | 4112.309 | 65886.80 | 12645.72 | 4967.604 |

Sample Name: PB119865BS      Acquired: 05/20/2019 12:52:52      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: LCS865      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0215872 | .0473452 | .0173682 | .0733720 | .1269924 | .3718309 |
| Stddev | .0002594 | .0010728 | .0005298 | .0027616 | .0012520 | .0110211 |
| %RSD   | 1.201889 | 2.265829 | 3.050244 | 3.763847 | .9858883 | 2.964003 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0213535 | .0475326 | .0173383 | .0731730 | .1272556 | .3652633 |
| #2 | .0218664 | .0461911 | .0168541 | .0762277 | .1256298 | .3845547 |
| #3 | .0215416 | .0483120 | .0179124 | .0707153 | .1280920 | .3656746 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3971215 | .0107624 | .0105089 | 10.35089 | .0229632 | .0979165 |
| Stddev | .0005332 | .0000739 | .0000674 | .00864   | .0000613 | .0002390 |
| %RSD   | .1342634 | .6862552 | .6414419 | .0834482 | .2669694 | .2440520 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3977261 | .0107024 | .0104704 | 10.36080 | .0230250 | .0980118 |
| #2 | .3967185 | .0108449 | .0105867 | 10.34492 | .0229024 | .0980931 |
| #3 | .3969200 | .0107400 | .0104695 | 10.34695 | .0229621 | .0976446 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0433037 | .2139775 | .0334691 | 10.17537 | .0823712 | .0210954 |
| Stddev | .0032596 | .0062808 | .0004329 | .00429   | .0001291 | .0001312 |
| %RSD   | 7.527292 | 2.935242 | 1.293312 | .0421463 | .1567807 | .6221196 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0422866 | .2085359 | .0339406 | 10.17910 | .0822745 | .0211467 |
| #2 | .0469506 | .2208504 | .0333769 | 10.17068 | .0823213 | .0211932 |
| #3 | .0406739 | .2125464 | .0330898 | 10.17632 | .0825179 | .0209462 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 9.913473 | .1012525 | .1219508 | 9.615873 | .0199416 | F .0162273 |
| Stddev | .052542  | .0018501 | .0014734 | .025810  | .0008310 | .0012429   |
| %RSD   | .5300016 | 1.827238 | 1.208225 | .2684103 | 4.167357 | 7.659088   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.885498 | .1029900 | .1202535 | 9.593047 | .0191604 | .0169421 |
| #2 | 9.880838 | .0993073 | .1226974 | 9.643880 | .0198497 | .0169476 |
| #3 | 9.974083 | .1014603 | .1229016 | 9.610691 | .0208148 | .0147921 |

Sample Name: PB119865BS      Acquired: 05/20/2019 12:52:52      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: LCS865      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .0205906 | .1757497 | .1892469 | .0132235 | .2064894 | F .1007349 |
| Stddev | .0002404 | .0032458 | .0018946 | .0005957 | .0001522 | .0025916   |
| %RSD   | 1.167591 | 1.846847 | 1.001148 | 4.504555 | .0737330 | 2.572675   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0207853 | .1793489 | .1913213 | .0137120 | .2063148 | .0996598 |
| #2 | .0206646 | .1748558 | .1888117 | .0125599 | .2065593 | .1036911 |
| #3 | .0203219 | .1730445 | .1876077 | .0133986 | .2065942 | .0988539 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2051408 |
| Stddev | .0001963 |
| %RSD   | .0956757 |

|    |          |
|----|----------|
| #1 | .2049190 |
| #2 | .2052919 |
| #3 | .2052116 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3258.903 | 4102.266 | 65551.10 | 12648.32 | 5053.761 |
| Stddev    | 13.980   | 4.228    | 279.25   | 26.08    | 5.740    |
| %RSD      | .4289808 | .1030528 | .4260084 | .2061785 | .1135744 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3272.091 | 4101.346 | 65446.60 | 12619.24 | 5047.920 |
| #2 | 3244.247 | 4106.878 | 65867.53 | 12669.63 | 5059.394 |
| #3 | 3260.371 | 4098.575 | 65339.16 | 12656.09 | 5053.970 |

Sample Name: PB119872BL      Acquired: 05/20/2019 13:05:18      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: PBW872      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000017 | .0009743 | -.001414 | .0016586 | .0007408 | .0010405 | -.001305 |
| Stddev | .003327  | .0006914 | .001114  | .0010071 | .0009387 | .0046891 | .000497  |
| %RSD   | 19558.10 | 70.96393 | 78.79703 | 60.72305 | 126.7222 | 450.6620 | 38.04639 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .003821  | .0012224 | -.002259 | .0017585 | .0014839 | .0060542 | -.001826 |
| #2 | -.002090 | .0015075 | -.001831 | .0006052 | .0010526 | -.003237 | -.001253 |
| #3 | -.001781 | .0001931 | -.000151 | .0026120 | -.000314 | .000304  | -.000837 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000083 | .0001647 | -.001871 | .0000378 | -.000216 | -.002916 | -.013909 |
| Stddev | .000010  | .0000784 | .016888  | .0006861 | .000197  | .001058  | .008376  |
| %RSD   | 12.30457 | 47.57410 | 902.7344 | 1816.402 | 91.08340 | 36.27603 | 60.22223 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000081 | .0002523 | -.020617 | -.000722 | -.000254 | -.002846 | -.016716 |
| #2 | -.000094 | .0001012 | .002847  | .000222  | -.000390 | -.004007 | -.020521 |
| #3 | -.000074 | .0001406 | .012157  | .000613  | -.000003 | -.001895 | -.004490 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001544 | .0282340 | -.000794 | .0003833 | -.206529 | -.002077 | -.001456 |
| Stddev | .0002993 | .0042106 | .000051  | .0002441 | .250705  | .001613  | .000926  |
| %RSD   | 193.7973 | 14.91310 | 6.449813 | 63.68758 | 121.3896 | 77.67475 | 63.58578 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0004390 | .0235353 | -.000767 | .0003468 | .081053  | -.000232 | -.000737 |
| #2 | -.000158 | .0295014 | -.000762 | .0006436 | -.321591 | -.002779 | -.001131 |
| #3 | .000182  | .0316654 | -.000853 | .0001595 | -.379049 | -.003220 | -.002501 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.091632 | -.000433 | -.005781 | -.000315 | -.007928 | -.012370 | -.001034 |
| Stddev | .014169  | .003909  | .000726  | .000222  | .001074  | .000383  | .000947  |
| %RSD   | 15.46246 | 902.0300 | 12.55908 | 70.54275 | 13.54140 | 3.098403 | 91.53216 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.085633 | -.000920 | -.006504 | -.000365 | -.008988 | -.011957 | -.001523 |
| #2 | -.107813 | .003696  | -.005052 | -.000072 | -.006842 | -.012438 | .000057  |
| #3 | -.081449 | -.004076 | -.005787 | -.000508 | -.007953 | -.012715 | -.001636 |



Sample Name: PB119872BL      Acquired: 05/20/2019 13:05:18      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: PBW872      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0018017 | -.001127 | -.000168 |
| Stddev | .0009689 | .003106  | .000106  |
| %RSD   | 53.77764 | 275.5226 | 63.16394 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0028674 | .001280  | -.000074 |
| #2 | .0015639 | -.004634 | -.000282 |
| #3 | .0009738 | -.000028 | -.000147 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3249.740 | 4116.390 | 65565.04 | 12563.90 | 4978.385 |
| Stddev    | 11.483   | 15.670   | 330.31   | 39.64    | 22.436   |
| %RSD      | .3533567 | .3806715 | .5037892 | .3155401 | .4506695 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3236.480 | 4099.140 | 65197.40 | 12585.68 | 4952.586 |
| #2 | 3256.426 | 4120.285 | 65836.79 | 12587.88 | 4993.335 |
| #3 | 3256.314 | 4129.745 | 65660.93 | 12518.14 | 4989.233 |

Sample Name: PB119871BS      Acquired: 05/20/2019 13:01:10      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: LCS871      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0196108 | .0473319 | .0183652 | .0754496 | .1274925 | .3754467 |
| Stddev | .0019291 | .0010777 | .0017444 | .0031286 | .0010023 | .0093547 |
| %RSD   | 9.836884 | 2.276837 | 9.498546 | 4.146583 | .7862033 | 2.491621 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0175792 | .0474931 | .0192395 | .0719256 | .1274776 | .3819199 |
| #2 | .0198355 | .0461828 | .0194997 | .0765232 | .1285022 | .3796990 |
| #3 | .0214177 | .0483199 | .0163566 | .0779001 | .1264977 | .3647212 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .3936894 | .0108923 | .0105173 | 10.31970 | .0221975 | .0975233 |
| Stddev | .0019553 | .0000894 | .0001392 | .02535   | .0006047 | .0004718 |
| %RSD   | .4966548 | .8211544 | 1.323251 | .2456020 | 2.724004 | .4837380 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .3923585 | .0109880 | .0106681 | 10.34600 | .0225252 | .0971021 |
| #2 | .3927755 | .0108780 | .0103939 | 10.29544 | .0214997 | .0974347 |
| #3 | .3959343 | .0108109 | .0104899 | 10.31765 | .0225676 | .0980331 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0424560 | .1975954 | .0332814 | 10.14190 | .0812219 | .0207657 |
| Stddev | .0004366 | .0039818 | .0001807 | .01154   | .0003315 | .0001521 |
| %RSD   | 1.028450 | 2.015108 | .5429707 | .1137392 | .4081018 | .7323575 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0422075 | .2013015 | .0333289 | 10.15317 | .0810122 | .0208756 |
| #2 | .0429602 | .1980988 | .0330817 | 10.14242 | .0816040 | .0205921 |
| #3 | .0422004 | .1933859 | .0334336 | 10.13011 | .0810494 | .0208293 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 9.733348 | .1010613 | .1175245 | 9.539951 | .0192256 | F .0152158 |
| Stddev | .585774  | .0029868 | .0021156 | .046723  | .0004975 | .0004843   |
| %RSD   | 6.018218 | 2.955442 | 1.800169 | .4897573 | 2.587817 | 3.182804   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.656946 | .1003528 | .1160097 | 9.546701 | .0197268 | .0148933 |
| #2 | 9.189524 | .0984925 | .1166221 | 9.490220 | .0192180 | .0157727 |
| #3 | 10.35357 | .1043387 | .1199417 | 9.582931 | .0187319 | .0149813 |

Sample Name: PB119871BS      Acquired: 05/20/2019 13:01:10      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: LCS871      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .0199634 | .1802275 | .1892774 | .0127205 | .2044218 | F .0982584 |
| Stddev | .0000677 | .0060250 | .0024877 | .0002011 | .0008826 | .0033453   |
| %RSD   | .3389506 | 3.342991 | 1.314302 | 1.580677 | .4317526 | 3.404610   |
|        |          |          |          |          |          |            |
| #1     | .0200405 | .1838484 | .1912383 | .0125850 | .2052900 | .0957974   |
| #2     | .0199137 | .1732724 | .1901147 | .0126249 | .2044500 | .0969104   |
| #3     | .0199362 | .1835616 | .1864791 | .0129515 | .2035255 | .1020674   |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2037883 |
| Stddev | .0003468 |
| %RSD   | .1701520 |
|        |          |
| #1     | .2034706 |
| #2     | .2037361 |
| #3     | .2041582 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3271.155 | 4111.843 | 66157.04 | 12580.80 | 5047.409 |
| Stddev    | 18.247   | 3.255    | 196.85   | 82.61    | 10.921   |
| %RSD      | .5578080 | .0791559 | .2975458 | .6566231 | .2163736 |
|           |          |          |          |          |          |
| #1        | 3291.625 | 4112.122 | 66361.54 | 12524.27 | 5041.818 |
| #2        | 3256.597 | 4108.458 | 65968.86 | 12542.52 | 5040.416 |
| #3        | 3265.244 | 4114.949 | 66140.72 | 12675.60 | 5059.994 |

Sample Name: PB119872BS      Acquired: 05/20/2019 13:09:24      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: LCS872      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0172230 | .0478417 | .0197736 | .0771628 | .1286922 | .3912460 |
| Stddev | .0033302 | .0010332 | .0014569 | .0012691 | .0025413 | .0070693 |
| %RSD   | 19.33600 | 2.159508 | 7.367849 | 1.644763 | 1.974751 | 1.806866 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0133845 | .0467334 | .0181196 | .0774645 | .1263332 | .3833067 |
| #2 | .0193414 | .0480136 | .0203345 | .0757700 | .1313833 | .3968591 |
| #3 | .0189432 | .0487781 | .0208667 | .0782539 | .1283602 | .3935721 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .4028251 | .0109538 | .0106853 | 10.54577 | .0227824 | .0990725 |
| Stddev | .0002453 | .0000761 | .0000870 | .02133   | .0005341 | .0002032 |
| %RSD   | .0608974 | .6944349 | .8144517 | .2022999 | 2.344420 | .2050714 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .4027119 | .0109527 | .0107845 | 10.52237 | .0223341 | .0992863 |
| #2 | .4026568 | .0110304 | .0106500 | 10.56414 | .0233734 | .0988820 |
| #3 | .4031066 | .0108783 | .0106215 | 10.55079 | .0226396 | .0990492 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0457564 | .1962637 | .0331176 | 10.37909 | .0832200 | .0214278 |
| Stddev | .0013998 | .0046897 | .0003281 | .04889   | .0003658 | .0003481 |
| %RSD   | 3.059200 | 2.389470 | .9907249 | .4710247 | .4395076 | 1.624622 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | .0442078 | .2010781 | .0327770 | 10.36918 | .0835855 | .0217855 |
| #2 | .0469318 | .1917096 | .0334315 | 10.33592 | .0832205 | .0210900 |
| #3 | .0461296 | .1960033 | .0331444 | 10.43218 | .0828540 | .0214080 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 9.980386 | .1036172 | .1194849 | 9.747376 | .0201674 | F .0157045 |
| Stddev | .317095  | .0020034 | .0029638 | .026938  | .0009878 | .0016113   |
| %RSD   | 3.177178 | 1.933414 | 2.480451 | .2763623 | 4.898003 | 10.25994   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 9.694901 | .1013107 | .1188895 | 9.746440 | .0198962 | .0166267 |
| #2 | 10.32168 | .1049240 | .1168640 | 9.720918 | .0193435 | .0166427 |
| #3 | 9.92458  | .1046169 | .1227011 | 9.774769 | .0212624 | .0138440 |

Sample Name: PB119872BS      Acquired: 05/20/2019 13:09:24      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: LCS872      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | .0204480 | .1785674 | .1918048 | .0125273 | .2096550 | F .0982736 |
| Stddev | .0003633 | .0023794 | .0019924 | .0008396 | .0002943 | .0011281   |
| %RSD   | 1.776673 | 1.332502 | 1.038782 | 6.702215 | .1403762 | 1.147934   |
|        |          |          |          |          |          |            |
| #1     | .0204666 | .1763663 | .1935590 | .0117683 | .2093518 | .0995548   |
| #2     | .0208016 | .1782439 | .1896385 | .0123845 | .2099395 | .0978371   |
| #3     | .0200757 | .1810920 | .1922167 | .0134292 | .2096736 | .0974291   |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | .2081946 |
| Stddev | .0004777 |
| %RSD   | .2294494 |
|        |          |
| #1     | .2082690 |
| #2     | .2086307 |
| #3     | .2076840 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3259.074 | 4094.794 | 65761.34 | 12635.98 | 5041.440 |
| Stddev    | 22.571   | 12.975   | 334.11   | 38.50    | 15.117   |
| %RSD      | .6925543 | .3168575 | .5080707 | .3046722 | .2998619 |
|           |          |          |          |          |          |
| #1        | 3284.393 | 4098.423 | 66106.27 | 12633.55 | 5047.604 |
| #2        | 3251.772 | 4080.392 | 65439.21 | 12598.75 | 5024.214 |
| #3        | 3241.059 | 4105.568 | 65738.54 | 12675.63 | 5052.501 |

Sample Name: K2819-01      Acquired: 05/20/2019 13:13:29      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHY0      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0055301 | .0024392 | .0050782 | -.004710 | .0002882 | 1.015919 | .0123592 |
| Stddev | .0020125 | .0029727 | .0006544 | .005336  | .0006917 | .006824  | .0010656 |
| %RSD   | 36.39128 | 121.8729 | 12.88630 | 113.2911 | 239.9907 | .6716781 | 8.621552 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0074774 | .0032095 | .0044837 | -.010737 | -.000386 | 1.016551 | .0111385 |
| #2 | .0034582 | .0049508 | .0049714 | -.002801 | .000255  | 1.022405 | .0128362 |
| #3 | .0056547 | -.000843 | .0057794 | -.000591 | .000996  | 1.008802 | .0131029 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001964 | .0001780 | 8.252015 | .0007017 | -.000106 | -.000149 | 1.240016 |
| Stddev | .0000260 | .0000419 | .045251  | .0002961 | .000210  | .002065  | .014534  |
| %RSD   | 13.26438 | 23.56871 | .5483593 | 42.20561 | 197.4298 | 1389.215 | 1.172046 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001679 | .0001320 | 8.210353 | .0003717 | -.000167 | -.002530 | 1.225153 |
| #2 | .0002191 | .0001876 | 8.300156 | .0007890 | -.000279 | .001152  | 1.240700 |
| #3 | .0002021 | .0002143 | 8.245535 | .0009443 | .000127  | .000932  | 1.254196 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0350256 | 2.697934 | .0017933 | .0000822 | 17.82215 | .0069084 | .0272142 |
| Stddev | .0002869 | .016152  | .0001323 | .0005475 | .25504   | .0027895 | .0007995 |
| %RSD   | .8189728 | .5986778 | 7.379854 | 666.4294 | 1.431047 | 40.37782 | 2.937943 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0353465 | 2.702847 | .0018387 | .0004856 | 17.65794 | .0044798 | .0265646 |
| #2 | .0349359 | 2.679896 | .0018969 | -.000541 | 18.11597 | .0099551 | .0269709 |
| #3 | .0347942 | 2.711059 | .0016442 | .000302  | 17.69254 | .0062904 | .0281071 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.029962 | .0878341 | .0364335 | .0016703 | 3.053308 | 20.22300 | .0033152 |
| Stddev | .058375  | .0011580 | .0006862 | .0003122 | .013896  | .10137   | .0008725 |
| %RSD   | 2.875673 | 1.318446 | 1.883428 | 18.69176 | .4551061 | .5012655 | 26.31820 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.963383 | .0885227 | .0369163 | .0013129 | 3.059322 | 20.33993 | .0034232 |
| #2 | 2.072368 | .0864971 | .0367362 | .0018075 | 3.063184 | 20.16927 | .0041287 |
| #3 | 2.054133 | .0884825 | .0356480 | .0018903 | 3.037418 | 20.15981 | .0023938 |

Sample Name: K2819-01      Acquired: 05/20/2019 13:13:29      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY0      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0249765 | -.017028 | .0094565 |
| Stddev | .0008357 | .003245  | .0000778 |
| %RSD   | 3.345893 | 19.05505 | .8221392 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0246772 | -.015292 | .0093819 |
| #2 | .0259206 | -.015021 | .0094504 |
| #3 | .0243317 | -.020772 | .0095371 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3469.106 | 4344.381 | 69564.35 | 13289.22 | 5355.176 |
| Stddev    | 15.199   | 11.249   | 452.08   | 77.29    | 23.825   |
| %RSD      | .4381268 | .2589388 | .6498665 | .5816095 | .4448894 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3485.587 | 4356.499 | 70059.03 | 13233.07 | 5381.749 |
| #2 | 3455.640 | 4342.374 | 69461.38 | 13257.21 | 5348.055 |
| #3 | 3466.091 | 4334.271 | 69172.64 | 13377.37 | 5335.724 |

Sample Name: K2819-03      Acquired: 05/20/2019 13:21:35      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHY5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0208832 | .0058122 | .0360487 | -.001763 | -.000879 | 16.64924 | .0797808 |
| Stddev | .0008095 | .0007064 | .0012929 | .002846  | .000589  | .08460   | .0008996 |
| %RSD   | 3.876173 | 12.15367 | 3.586537 | 161.4778 | 66.94495 | .5081300 | 1.127526 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0218048 | .0066219 | .0346312 | -.004925 | -.000606 | 16.68074 | .0806019 |
| #2 | .0205571 | .0054928 | .0371633 | .000593  | -.000477 | 16.55341 | .0788193 |
| #3 | .0202876 | .0053219 | .0363514 | -.000956 | -.001555 | 16.71357 | .0799212 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0068231 | .0009655 | 20.01686 | .0067356 | .0053407 | .0204187 | 28.55484 |
| Stddev | .0001249 | .0000976 | .18897   | .0004272 | .0001438 | .0027674 | .19205   |
| %RSD   | 1.830845 | 10.10543 | .9440758 | 6.342858 | 2.692954 | 13.55305 | .6725824 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0069626 | .0009891 | 20.01884 | .0063011 | .0054038 | .0172364 | 28.47685 |
| #2 | .0067215 | .0010490 | 19.82689 | .0067506 | .0051761 | .0222606 | 28.41405 |
| #3 | .0067852 | .0008582 | 20.20483 | .0071552 | .0054422 | .0217591 | 28.77362 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2419788 | 6.484878 | .0131901 | -.002516 | 125.5413 | .0427057 | .3512971 |
| Stddev | .0020757 | .042029  | .0003625 | .000368  | .9361    | .0009414 | .0033617 |
| %RSD   | .8577893 | .6481029 | 2.748048 | 14.62154 | .7456452 | 2.204393 | .9569383 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2413527 | 6.464681 | .0132013 | -.002132 | 125.9964 | .0419767 | .3490793 |
| #2 | .2402882 | 6.456760 | .0135469 | -.002865 | 124.4647 | .0437685 | .3551650 |
| #3 | .2442954 | 6.533192 | .0128223 | -.002552 | 126.1629 | .0423719 | .3496471 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.757630 | .5621327 | .2653751 | .0022365 | 25.74067 | 57.82660 | -.000740 |
| Stddev | .053197  | .0032936 | .0025177 | .0001968 | .09600   | .53931   | .000425  |
| %RSD   | .9239469 | .5859024 | .9487437 | 8.799318 | .3729345 | .9326386 | 57.39560 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.700753 | .5585485 | .2664919 | .0022022 | 25.63148 | 57.90340 | -.001190 |
| #2 | 5.765976 | .5628237 | .2624921 | .0024482 | 25.81183 | 57.25300 | -.000346 |
| #3 | 5.806161 | .5650260 | .2671412 | .0020591 | 25.77869 | 58.32339 | -.000683 |



Sample Name: K2819-03      Acquired: 05/20/2019 13:21:35      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY5      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1738357 | .0552864 | .0235223 |
| Stddev | .0013036 | .0018725 | .0001444 |
| %RSD   | .7498794 | 3.386898 | .6137188 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .1728057 | .0561823 | .0233570 |
| #2 | .1734001 | .0565426 | .0235864 |
| #3 | .1753013 | .0531342 | .0236234 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3595.121 | 4544.624 | 72474.90 | 13952.58 | 5257.729 |
| Stddev    | 35.033   | 11.572   | 688.14   | 87.24    | 7.669    |
| %RSD      | .9744571 | .2546386 | .9494859 | .6252909 | .1458663 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3631.415 | 4538.187 | 73163.29 | 13983.65 | 5258.580 |
| #2 | 3561.502 | 4537.701 | 71787.01 | 14020.04 | 5249.670 |
| #3 | 3592.445 | 4557.983 | 72474.39 | 13854.06 | 5264.938 |

Sample Name: K2819-02      Acquired: 05/20/2019 13:17:33      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY4      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0072965 | .0021864 | .0019902 | -.001588 | -.000714 | .5723574 | .0583866 |
| Stddev | .0016223 | .0013202 | .0014853 | .000331  | .001283  | .0119153 | .0001824 |
| %RSD   | 22.23372 | 60.38219 | 74.63092 | 20.87084 | 179.6505 | 2.081796 | .3124589 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0086245 | .0008302 | .0005889 | -.001563 | -.002185 | .5601188 | .0582871 |
| #2 | .0054883 | .0034674 | .0018344 | -.001932 | .000169  | .5730329 | .0585971 |
| #3 | .0077768 | .0022618 | .0035472 | -.001270 | -.000126 | .5839207 | .0582755 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000893 | .0000844 | 21.92879 | .0006744 | -.000437 | .0003795 | .6520741 |
| Stddev | .0000488 | .0000631 | .11929   | .0008308 | .000143  | .0025762 | .0052751 |
| %RSD   | 54.67838 | 74.77276 | .5440015 | 123.1879 | 32.71733 | 678.7512 | .8089667 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001317 | .0001550 | 21.79242 | -.000232 | -.000591 | .0017395 | .6484464 |
| #2 | .0001003 | .0000649 | 21.98015 | .000856  | -.000308 | .0019908 | .6581254 |
| #3 | .0000359 | .0000334 | 22.01381 | .001399  | -.000412 | -.002592 | .6496504 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0454846 | 5.590066 | .0009950 | .0001317 | 14.36726 | .0027612 | .0043016 |
| Stddev | .0005960 | .028725  | .0003576 | .0007910 | .14030   | .0017416 | .0005561 |
| %RSD   | 1.310214 | .5138626 | 35.93612 | 600.5310 | .9765558 | 63.07441 | 12.92714 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0447965 | 5.566087 | .0008735 | -.000409 | 14.50759 | .0008896 | .0042981 |
| #2 | .0458259 | 5.621902 | .0013976 | .001040  | 14.36720 | .0030597 | .0037472 |
| #3 | .0458314 | 5.582208 | .0007141 | -.000236 | 14.22698 | .0043343 | .0048593 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.164032 | .0777599 | .0483527 | .0019937 | 5.355792 | 13.44777 | -.002134 |
| Stddev | .049162  | .0013117 | .0014335 | .0003801 | .000466  | .04978   | .000999  |
| %RSD   | 2.271784 | 1.686843 | 2.964675 | 19.06599 | .0087049 | .3701897 | 46.79807 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.107447 | .0789253 | .0476057 | .0017340 | 5.355442 | 13.48851 | -.002515 |
| #2 | 2.196266 | .0763394 | .0474470 | .0018171 | 5.355613 | 13.46253 | -.002887 |
| #3 | 2.188383 | .0780149 | .0500055 | .0024300 | 5.356321 | 13.39228 | -.001001 |

Sample Name: K2819-02      Acquired: 05/20/2019 13:17:33      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY4      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0202192 | -.006704 | .1215839 |
| Stddev | .0010310 | .000520  | .0003073 |
| %RSD   | 5.099319 | 7.760583 | .2527367 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0199672 | -.006124 | .1213040 |
| #2 | .0193374 | -.007131 | .1219127 |
| #3 | .0213528 | -.006856 | .1215349 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3430.836 | 4302.151 | 68842.02 | 13191.38 | 5272.418 |
| Stddev    | 1.693    | 15.277   | 283.82   | 49.62    | 8.414    |
| %RSD      | .0493438 | .3550958 | .4122775 | .3761366 | .1595759 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3430.475 | 4319.371 | 68877.04 | 13230.91 | 5282.122 |
| #2 | 3432.681 | 4290.227 | 69106.70 | 13135.70 | 5267.984 |
| #3 | 3429.353 | 4296.855 | 68542.31 | 13207.53 | 5267.150 |

Sample Name: K2819-05      Acquired: 05/20/2019 13:29:40      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHY6D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0101084 | .0021541 | .0030304 | -.000807 | -.000489 | .0836280 | .0052135 |
| Stddev | .0020660 | .0013951 | .0010956 | .000728  | .001273  | .0029694 | .0005554 |
| %RSD   | 20.43825 | 64.76295 | 36.15200 | 90.31883 | 260.3380 | 3.550697 | 10.65383 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0109899 | .0017410 | .0026485 | .000012  | -.000441 | .0870349 | .0050032 |
| #2 | .0077479 | .0037091 | .0042658 | -.001049 | .000759  | .0822594 | .0047939 |
| #3 | .0115874 | .0010123 | .0021769 | -.001383 | -.001785 | .0815897 | .0058434 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000008 | .0000914 | 42.71860 | .0005145 | -.001074 | -.000366 | .0218925 |
| Stddev | .000081  | .0000788 | .11766   | .0003474 | .000188  | .001506  | .0032384 |
| %RSD   | 967.5738 | 86.23768 | .2754332 | 67.52619 | 17.54543 | 411.8397 | 14.79238 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000051 | .0000154 | 42.71860 | .0008560 | -.001106 | -.001874 | .0208554 |
| #2 | .000085  | .0000860 | 42.83626 | .0001614 | -.001244 | .001138  | .0192996 |
| #3 | -.000059 | .0001727 | 42.60094 | .0005262 | -.000872 | -.000361 | .0255224 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010750 | 7.351567 | .0005834 | .0006475 | 89.43682 | .0064644 | .0078529 |
| Stddev | .0005391 | .033896  | .0004319 | .0007439 | .64810   | .0006102 | .0009198 |
| %RSD   | 50.14596 | .4610715 | 74.03683 | 114.9015 | .7246453 | 9.439916 | 11.71270 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0013131 | 7.374666 | .0010148 | -.000090 | 89.02483 | .0071099 | .0085705 |
| #2 | .0014539 | 7.367380 | .0001510 | .001398  | 90.18387 | .0063863 | .0081722 |
| #3 | .0004578 | 7.312654 | .0005843 | .000634  | 89.10178 | .0058970 | .0068160 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.753101 | .1164007 | .1506735 | .0066473 | 25.28362 | 15.01341 | -.001238 |
| Stddev | .064554  | .0005048 | .0013102 | .0001396 | .07164   | .07612   | .000986  |
| %RSD   | 1.720012 | .4336994 | .8695416 | 2.100653 | .2833539 | .5070037 | 79.66185 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.696111 | .1169777 | .1521837 | .0065058 | 25.35196 | 15.04584 | -.001552 |
| #2 | 3.739987 | .1160401 | .1499968 | .0066512 | 25.28981 | 15.06793 | -.000133 |
| #3 | 3.823205 | .1161843 | .1498401 | .0067850 | 25.20908 | 14.92644 | -.002030 |

Sample Name: K2819-05      Acquired: 05/20/2019 13:29:40      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHY6D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0047759 | .0064120 | .0469335 |
| Stddev | .0031052 | .0001357 | .0000624 |
| %RSD   | 65.01871 | 2.116827 | .1329833 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0026840 | .0064631 | .0469023 |
| #2 | .0083438 | .0065148 | .0470054 |
| #3 | .0032998 | .0062582 | .0468928 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3399.695 | 4248.160 | 68511.79 | 13230.75 | 5242.251 |
| Stddev    | 17.375   | 4.656    | 429.79   | 23.20    | 3.005    |
| %RSD      | .5110637 | .1096105 | .6273223 | .1753623 | .0573196 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3410.721 | 4253.522 | 68907.92 | 13206.29 | 5244.913 |
| #2 | 3408.697 | 4245.136 | 68572.62 | 13233.50 | 5238.993 |
| #3 | 3379.667 | 4245.822 | 68054.83 | 13252.45 | 5242.846 |

Sample Name: K2819-04      Acquired: 05/20/2019 13:25:36      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHY6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0108834 | .0014233 | .0022069 | -.003181 | -.000918 | .0730341 | .0055631 |
| Stddev | .0028162 | .0004972 | .0009459 | .001706  | .001037  | .0053963 | .0010377 |
| %RSD   | 25.87562 | 34.93097 | 42.85885 | 53.60997 | 113.0218 | 7.388749 | 18.65246 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0082385 | .0008989 | .0011199 | -.003831 | -.000687 | .0701587 | .0044963 |
| #2 | .0105677 | .0014831 | .0026584 | -.004466 | -.000015 | .0792592 | .0056241 |
| #3 | .0138442 | .0018879 | .0028425 | -.001246 | -.002051 | .0696844 | .0065689 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000730 | .0000816 | 43.15725 | .0001299 | -.001207 | .0002373 | .0261776 |
| Stddev | .0000762 | .0000879 | .26514   | .0002001 | .000150  | .0021425 | .0088107 |
| %RSD   | 104.4791 | 107.6457 | .6143512 | 154.0924 | 12.39592 | 902.8836 | 33.65734 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001609 | .0001568 | 42.86485 | .0002808 | -.001317 | -.001435 | .0161686 |
| #2 | .0000323 | .0001031 | 43.38202 | -.000097 | -.001269 | .002652  | .0327611 |
| #3 | .0000257 | -.000015 | 43.22487 | .000206  | -.001037 | -.000506 | .0296031 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010090 | 7.426708 | .0002309 | .0002708 | 89.32938 | .0075208 | .0033742 |
| Stddev | .0004324 | .041912  | .0001928 | .0001075 | .28155   | .0005726 | .0005029 |
| %RSD   | 42.85201 | .5643393 | 83.49246 | 39.71177 | .3151853 | 7.613459 | 14.90358 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0015039 | 7.382309 | .0003291 | .0003573 | 89.03850 | .0076122 | .0028037 |
| #2 | .0008180 | 7.465585 | .0000088 | .0003046 | 89.60058 | .0069080 | .0037530 |
| #3 | .0007049 | 7.432230 | .0003547 | .0001504 | 89.34907 | .0080422 | .0035660 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.805906 | .1149293 | .1521347 | .0066929 | 25.25144 | 15.12928 | -.001922 |
| Stddev | .078569  | .0016127 | .0023983 | .0002744 | .09012   | .20440   | .001188  |
| %RSD   | 2.064401 | 1.403165 | 1.576397 | 4.099963 | .3568787 | 1.351027 | 61.79902 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.715797 | .1165050 | .1508671 | .0067560 | 25.35528 | 14.89999 | -.003230 |
| #2 | 3.841821 | .1132821 | .1549008 | .0069302 | 25.20527 | 15.29238 | -.000911 |
| #3 | 3.860098 | .1150008 | .1506363 | .0063924 | 25.19376 | 15.19547 | -.001625 |

Sample Name: K2819-04      Acquired: 05/20/2019 13:25:36      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY6      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0053102 | .0069863 | .0467900 |
| Stddev | .0017341 | .0012052 | .0000542 |
| %RSD   | 32.65568 | 17.25063 | .1157468 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0055544 | .0074788 | .0467821 |
| #2 | .0034669 | .0056129 | .0467402 |
| #3 | .0069092 | .0078674 | .0468476 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3406.510 | 4244.644 | 68576.06 | 13214.17 | 5256.444 |
| Stddev    | 15.272   | 9.346    | 211.18   | 140.72   | 5.610    |
| %RSD      | .4483163 | .2201783 | .3079514 | 1.064897 | .1067211 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3390.313 | 4253.842 | 68332.48 | 13376.62 | 5260.207 |
| #2 | 3420.648 | 4244.933 | 68707.85 | 13129.74 | 5259.129 |
| #3 | 3408.569 | 4235.157 | 68687.85 | 13136.16 | 5249.997 |

Sample Name: K2819-04LX5      Acquired: 05/20/2019 13:37:41      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY6L      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0032645 | -.000801 | -.000328 | -.000334 | .0008169 | .0069032 | .0008277 |
| Stddev | .0011829 | .002446  | .001059  | .002036  | .0006704 | .0028252 | .0009275 |
| %RSD   | 36.23558 | 305.4848 | 322.7845 | 609.3238 | 82.06838 | 40.92616 | 112.0539 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0019351 | -.000502 | .000873  | .001857  | .0000736 | .0101228 | .0003970 |
| #2 | .0036574 | -.003382 | -.000730 | -.002169 | .0013758 | .0048379 | .0018922 |
| #3 | .0042010 | .001482  | -.001128 | -.000690 | .0010013 | .0057489 | .0001939 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000093 | .0001309 | 8.844727 | -.000641 | -.000355 | .0002481 | -.001878 |
| Stddev | .0000200 | .0000453 | .029197  | .000462  | .000261  | .0007094 | .002909  |
| %RSD   | 215.8556 | 34.61389 | .3301096 | 72.13407 | 73.38604 | 285.9237 | 154.8474 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000060 | .0001287 | 8.812556 | -.000481 | -.000437 | .0009616 | -.000264 |
| #2 | -.000009 | .0000868 | 8.869544 | -.001161 | -.000063 | -.000457 | -.000135 |
| #3 | .000031  | .0001773 | 8.852080 | -.000280 | -.000565 | .000240  | -.005236 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001834 | 1.552646 | -.000676 | .0000596 | 18.19397 | .0011578 | .0014569 |
| Stddev | .0002386 | .021443  | .000180  | .0003625 | .10862   | .0031707 | .0002721 |
| %RSD   | 130.0764 | 1.381092 | 26.57396 | 608.6171 | .5970104 | 273.8573 | 18.67313 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000051 | 1.552280 | -.000534 | -.000063 | 18.30455 | -.002417 | .0015673 |
| #2 | .0004544 | 1.531387 | -.000878 | -.000226 | 18.18995 | .003630  | .0011470 |
| #3 | .0000907 | 1.574270 | -.000616 | .000467  | 18.08742 | .002260  | .0016564 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .6867214 | .0233786 | .0259922 | .0017227 | 4.977380 | 3.032201 | -.001291 |
| Stddev | .0814657 | .0018701 | .0002043 | .0003382 | .001257  | .018987  | .000410  |
| %RSD   | 11.86299 | 7.999388 | .7858481 | 19.63435 | .0252546 | .6261793 | 31.76382 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5990285 | .0254818 | .0257565 | .0017115 | 4.976974 | 3.036760 | -.001109 |
| #2 | .7600489 | .0219027 | .0261162 | .0013902 | 4.978790 | 3.048494 | -.001004 |
| #3 | .7010869 | .0227515 | .0261040 | .0020664 | 4.976377 | 3.011350 | -.001761 |



Sample Name: K2819-04LX5      Acquired: 05/20/2019 13:37:41      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY6L      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0029634 | .0094498 | .0095347 |
| Stddev | .0013426 | .0032254 | .0001335 |
| %RSD   | 45.30445 | 34.13200 | 1.399739 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0032846 | .0091673 | .0095015 |
| #2 | .0014894 | .0128072 | .0096816 |
| #3 | .0041162 | .0063749 | .0094210 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3265.270 | 4114.060 | 66079.40 | 12789.60 | 5112.970 |
| Stddev    | 12.023   | 17.614   | 615.29   | 39.51    | 22.712   |
| %RSD      | .3681933 | .4281368 | .9311352 | .3089281 | .4442060 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3276.356 | 4096.557 | 66745.79 | 12829.54 | 5090.264 |
| #2 | 3266.964 | 4113.839 | 65959.60 | 12750.53 | 5112.956 |
| #3 | 3252.491 | 4131.783 | 65532.83 | 12788.74 | 5135.689 |

Sample Name: K2819-06      Acquired: 05/20/2019 13:33:45      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY6S      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0520083 | .0541954 | .0236478 | .1695042 | .1092305 | 1.971497 | 2.097694 |
| Stddev | .0051547 | .0018465 | .0024233 | .0015264 | .0014620 | .007320  | .002890  |
| %RSD   | 9.911354 | 3.407119 | 10.24757 | .9005003 | 1.338419 | .3712744 | .1377647 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0462860 | .0526792 | .0248709 | .1677458 | .1100227 | 1.963086 | 2.095938 |
| #2 | .0562880 | .0536552 | .0208567 | .1702804 | .1101254 | 1.976427 | 2.101029 |
| #3 | .0534510 | .0562518 | .0252158 | .1704866 | .1075434 | 1.974977 | 2.096113 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0566806 | .0533254 | 42.43236 | .2201568 | .5237528 | .2279614 | 1.145712 |
| Stddev | .0004009 | .0001162 | .26106   | .0017145 | .0008839 | .0013704 | .011718  |
| %RSD   | .7073619 | .2178760 | .6152414 | .7787765 | .1687567 | .6011720 | 1.022783 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0564136 | .0533410 | 42.30931 | .2192841 | .5231971 | .2271759 | 1.132215 |
| #2 | .0571417 | .0532022 | 42.73221 | .2221322 | .5247720 | .2295438 | 1.151630 |
| #3 | .0564866 | .0534330 | 42.25557 | .2190543 | .5232892 | .2271644 | 1.153292 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5352055 | 7.272972 | .5346003 | .0533889 | 87.66669 | .5457754 | .5522800 |
| Stddev | .0044435 | .027850  | .0003163 | .0005587 | .25579   | .0100745 | .0059502 |
| %RSD   | .8302387 | .3829267 | .0591589 | 1.046511 | .2917710 | 1.845913 | 1.077394 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5321521 | 7.292048 | .5344906 | .0537242 | 87.45783 | .5364522 | .5588917 |
| #2 | .5403032 | 7.285856 | .5349568 | .0527439 | 87.95198 | .5564623 | .5505922 |
| #3 | .5331613 | 7.241013 | .5343535 | .0536986 | 87.59027 | .5444116 | .5473559 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.700548 | .1159414 | .1517892 | .0063876 | 24.87021 | 14.81566 | -.001234 |
| Stddev | .052931  | .0011560 | .0020517 | .0001941 | .08298   | .12309   | .000338  |
| %RSD   | 1.430359 | .9970124 | 1.351694 | 3.038250 | .3336648 | .8307888 | 27.42299 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.708244 | .1164724 | .1501014 | .0065453 | 24.82158 | 14.75991 | -.001609 |
| #2 | 3.749209 | .1167364 | .1540729 | .0061708 | 24.96603 | 14.95676 | -.000953 |
| #3 | 3.644190 | .1146153 | .1511931 | .0064466 | 24.82303 | 14.73032 | -.001139 |

Sample Name: K2819-06      Acquired: 05/20/2019 13:33:45      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY6S      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0056779 | .0062401 | .0462476 |
| Stddev | .0007149 | .0010560 | .0000419 |
| %RSD   | 12.59056 | 16.92248 | .0905046 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0060708 | .0055649 | .0462090 |
| #2 | .0048527 | .0074570 | .0462417 |
| #3 | .0061101 | .0056985 | .0462921 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3384.534 | 4228.606 | 68155.82 | 13158.15 | 5228.588 |
| Stddev    | 38.118   | 9.066    | 513.76   | 86.30    | 11.053   |
| %RSD      | 1.126235 | .2143961 | .7538080 | .6558741 | .2114028 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3341.127 | 4227.780 | 67571.37 | 13133.24 | 5224.625 |
| #2 | 3399.925 | 4238.057 | 68536.18 | 13087.05 | 5241.076 |
| #3 | 3412.550 | 4219.981 | 68359.90 | 13254.17 | 5220.061 |

Sample Name: K2819-07      Acquired: 05/20/2019 13:41:46      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ3      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0103968 | .0022605 | .0017816 | -.001430 | -.000432 | .2402959 | .0223663 |
| Stddev | .0015991 | .0013870 | .0002282 | .003206  | .000433  | .0066134 | .0002246 |
| %RSD   | 15.38028 | 61.35643 | 12.80679 | 224.1922 | 100.2364 | 2.752196 | 1.004346 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0122039 | .0007752 | .0017710 | -.003940 | .000062  | .2477525 | .0222235 |
| #2 | .0091651 | .0035218 | .0020148 | .002181  | -.000746 | .2351406 | .0222501 |
| #3 | .0098213 | .0024845 | .0015589 | -.002531 | -.000612 | .2379945 | .0226252 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001386 | .0001395 | 21.51893 | .0008100 | -.000871 | -.003266 | .1953379 |
| Stddev | .0000623 | .0000214 | .08335   | .0010769 | .000033  | .002724  | .0041280 |
| %RSD   | 44.90720 | 15.36122 | .3873143 | 132.9450 | 3.759245 | 83.39518 | 2.113249 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002069 | .0001633 | 21.48682 | -.000095 | -.000870 | -.004949 | .1965441 |
| #2 | .0000850 | .0001217 | 21.61355 | .002001  | -.000904 | -.004726 | .1987284 |
| #3 | .0001239 | .0001336 | 21.45641 | .000525  | -.000839 | -.000124 | .1907412 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0030547 | 6.036818 | .0007507 | -.000016 | 26.60825 | .0041455 | .0087603 |
| Stddev | .0002840 | .035418  | .0002031 | .000629  | .08359   | .0004475 | .0021024 |
| %RSD   | 9.295967 | .5867034 | 27.06034 | 3824.206 | .3141540 | 10.79590 | 23.99883 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0027305 | 6.012698 | .0009181 | .000709  | 26.63143 | .0046564 | .0101828 |
| #2 | .0032593 | 6.077481 | .0005247 | -.000412 | 26.51551 | .0039572 | .0063454 |
| #3 | .0031744 | 6.020276 | .0008092 | -.000346 | 26.67779 | .0038229 | .0097527 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.676070 | .0376813 | .0891439 | .0030788 | 7.732849 | 9.039326 | -.001286 |
| Stddev | .096603  | .0027376 | .0009086 | .0002026 | .015454  | .004360  | .000611  |
| %RSD   | 3.609876 | 7.265145 | 1.019201 | 6.580237 | .1998542 | .0482356 | 47.53557 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.621903 | .0384176 | .0901454 | .0032679 | 7.741491 | 9.036213 | -.001929 |
| #2 | 2.787602 | .0399755 | .0889135 | .0028650 | 7.742049 | 9.037455 | -.001216 |
| #3 | 2.618706 | .0346509 | .0883726 | .0031034 | 7.715006 | 9.044309 | -.000713 |

Sample Name: K2819-07      Acquired: 05/20/2019 13:41:46      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ3      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0079101 | -.003788 | .1057092 |
| Stddev | .0011380 | .000916  | .0000728 |
| %RSD   | 14.38607 | 24.16787 | .0688250 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0083604 | -.003917 | .1057919 |
| #2 | .0087540 | -.002815 | .1056810 |
| #3 | .0066159 | -.004633 | .1056548 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3441.844 | 4294.844 | 69270.13 | 13269.38 | 5305.365 |
| Stddev    | 4.018    | 3.984    | 388.08   | 40.69    | 2.731    |
| %RSD      | .1167463 | .0927636 | .5602427 | .3066700 | .0514813 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3443.658 | 4291.379 | 69608.70 | 13306.19 | 5307.289 |
| #2 | 3444.635 | 4293.957 | 69355.08 | 13276.27 | 5306.566 |
| #3 | 3437.238 | 4299.197 | 68846.61 | 13225.68 | 5302.239 |

Sample Name: K2819-08      Acquired: 05/20/2019 13:45:53      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0065540 | .0030770 | .0024733 | -.002417 | -.001177 | .4687218 | .0231578 |
| Stddev | .0013847 | .0014410 | .0024225 | .000584  | .001094  | .0017323 | .0009707 |
| %RSD   | 21.12770 | 46.83212 | 97.94611 | 24.16709 | 92.96677 | .3695840 | 4.191544 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0075433 | .0041890 | .0015861 | -.002502 | -.002360 | .4667231 | .0239357 |
| #2 | .0049715 | .0035929 | .0006195 | -.001795 | -.000200 | .4696510 | .0234676 |
| #3 | .0071473 | .0014490 | .0052144 | -.002953 | -.000973 | .4697912 | .0220700 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000499 | .0001109 | 16.72839 | .0004589 | -.000737 | -.000575 | .4134102 |
| Stddev | .0000054 | .0000332 | .16384   | .0007745 | .000145  | .000426  | .0072986 |
| %RSD   | 10.88996 | 29.95189 | .9793835 | 168.7890 | 19.72275 | 74.10163 | 1.765462 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000531 | .0001444 | 16.91269 | .0013016 | -.000895 | -.000279 | .4108598 |
| #2 | .0000531 | .0001105 | 16.59926 | -.000222 | -.000608 | -.001063 | .4077290 |
| #3 | .0000437 | .0000779 | 16.67321 | .000297  | -.000708 | -.000382 | .4216417 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0051366 | 4.722313 | .0006547 | .0000812 | 20.13736 | .0040468 | .0065647 |
| Stddev | .0004438 | .026339  | .0004709 | .0001411 | .27370   | .0013041 | .0011522 |
| %RSD   | 8.640205 | .5577534 | 71.93064 | 173.7194 | 1.359171 | 32.22562 | 17.55104 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0055837 | 4.751903 | .0009396 | -.000077 | 20.41137 | .0037446 | .0076949 |
| #2 | .0046962 | 4.713607 | .0001111 | .000194  | 20.13675 | .0029203 | .0066074 |
| #3 | .0051298 | 4.701429 | .0009134 | .000127  | 19.86396 | .0054754 | .0053918 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.161278 | .0373886 | .0678033 | .0020110 | 5.695963 | 10.71064 | -.001207 |
| Stddev | .035062  | .0004223 | .0009814 | .0001727 | .023371  | .06813   | .000672  |
| %RSD   | 1.622302 | 1.129574 | 1.447389 | 8.587228 | .4103029 | .6360551 | 55.72038 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.188617 | .0373197 | .0673416 | .0018118 | 5.675576 | 10.78798 | -.000923 |
| #2 | 2.121748 | .0370050 | .0671381 | .0021184 | 5.721469 | 10.65950 | -.000723 |
| #3 | 2.173471 | .0378411 | .0689304 | .0021029 | 5.690845 | 10.68444 | -.001974 |

Sample Name: K2819-08      Acquired: 05/20/2019 13:45:53      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ5      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0143859 | -.009792 | .0837300 |
| Stddev | .0018307 | .001151  | .0002583 |
| %RSD   | 12.72561 | 11.75080 | .3085033 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0156384 | -.008644 | .0836983 |
| #2 | .0152343 | -.010945 | .0834890 |
| #3 | .0122849 | -.009787 | .0840027 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3428.297 | 4298.184 | 68870.37 | 13257.99 | 5287.157 |
| Stddev    | 14.760   | 3.474    | 244.52   | 80.15    | 10.533   |
| %RSD      | .4305389 | .0808270 | .3550380 | .6045513 | .1992093 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3445.228 | 4299.427 | 69127.32 | 13171.23 | 5296.325 |
| #2 | 3418.138 | 4300.866 | 68843.23 | 13329.28 | 5275.653 |
| #3 | 3421.526 | 4294.260 | 68640.55 | 13273.46 | 5289.495 |

Sample Name: K2819-10      Acquired: 05/20/2019 13:54:02      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ02      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0079770 | .0024324 | .0014140 | -.000774 | -.001232 | .4142498 | .0288932 |
| Stddev | .0029795 | .0011668 | .0011415 | .002670  | .001786  | .0026799 | .0007362 |
| %RSD   | 37.35067 | 47.96665 | 80.72520 | 345.0680 | 144.9940 | .6469192 | 2.548021 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0097635 | .0018415 | .0012135 | .002298  | -.002847 | .4172433 | .0297424 |
| #2 | .0096301 | .0037764 | .0003861 | -.002536 | .000686  | .4134318 | .0284359 |
| #3 | .0045375 | .0016794 | .0026425 | -.002084 | -.001535 | .4120743 | .0285011 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001317 | .0001072 | 20.87607 | .0001420 | -.000596 | -.002576 | .4297430 |
| Stddev | .0000327 | .0000353 | .06974   | .0005621 | .000021  | .000613  | .0067515 |
| %RSD   | 24.80170 | 32.90047 | .3340532 | 395.8695 | 3.561259 | 23.80663 | 1.571056 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000956 | .0000668 | 20.79699 | -.000480 | -.000601 | -.001873 | .4250190 |
| #2 | .0001404 | .0001233 | 20.90248 | .000614  | -.000614 | -.002853 | .4267341 |
| #3 | .0001592 | .0001316 | 20.92875 | .000291  | -.000573 | -.003003 | .4374758 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0555577 | 5.899305 | .0003895 | .0000641 | 27.98182 | .0048304 | .0016090 |
| Stddev | .0001688 | .020896  | .0002449 | .0004285 | .19401   | .0021929 | .0018224 |
| %RSD   | .3038955 | .3542159 | 62.88448 | 668.4249 | .6933554 | 45.39769 | 113.2647 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0553677 | 5.877593 | .0002736 | -.000007 | 27.90969 | .0023167 | .0003995 |
| #2 | .0556906 | 5.901045 | .0006709 | -.000324 | 27.83421 | .0058234 | .0007224 |
| #3 | .0556147 | 5.919276 | .0002240 | .000524  | 28.20157 | .0063511 | .0037050 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.721389 | .0646427 | .0921687 | .0028546 | 7.695684 | 10.77544 | -.002598 |
| Stddev | .010147  | .0019944 | .0005084 | .0002884 | .043259  | .10075   | .000298  |
| %RSD   | .3728698 | 3.085210 | .5515495 | 10.10410 | .5621144 | .9349544 | 11.48651 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.722190 | .0627472 | .0926148 | .0025379 | 7.659028 | 10.71498 | -.002427 |
| #2 | 2.710866 | .0667230 | .0922760 | .0029237 | 7.743399 | 10.71960 | -.002424 |
| #3 | 2.731113 | .0644578 | .0916153 | .0031022 | 7.684625 | 10.89174 | -.002942 |



Sample Name: K2819-10      Acquired: 05/20/2019 13:54:02      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ02      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0135763 | -.002389 | .1019846 |
| Stddev | .0008244 | .003018  | .0003335 |
| %RSD   | 6.072669 | 126.3328 | .3269659 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0143095 | -.005589 | .1016925 |
| #2 | .0126838 | -.001984 | .1023479 |
| #3 | .0137356 | .000406  | .1019134 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3432.388 | 4279.999 | 69018.78 | 13240.05 | 5283.224 |
| Stddev    | 17.172   | 4.525    | 300.66   | 60.81    | 10.937   |
| %RSD      | .5002899 | .1057279 | .4356199 | .4592867 | .2070048 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3439.473 | 4279.813 | 68970.55 | 13289.91 | 5295.775 |
| #2 | 3412.807 | 4284.614 | 68745.16 | 13257.93 | 5278.162 |
| #3 | 3444.883 | 4275.569 | 69340.65 | 13172.30 | 5275.736 |

Sample Name: K2819-09      Acquired: 05/20/2019 13:49:58      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ6      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0095857 | .0021984 | .0003377 | -.004016 | -.001621 | .1718829 | .0227244 |
| Stddev | .0016880 | .0007646 | .0002900 | .000843  | .000947  | .0093761 | .0005520 |
| %RSD   | 17.60970 | 34.77771 | 85.86493 | 20.98262 | 58.43893 | 5.454955 | 2.429255 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0115086 | .0030249 | .0001754 | -.003337 | -.002628 | .1643621 | .0233582 |
| #2 | .0083480 | .0020540 | .0001653 | -.004959 | -.000746 | .1688986 | .0224661 |
| #3 | .0089005 | .0015164 | .0006725 | -.003752 | -.001490 | .1823879 | .0223489 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000347 | .0000588 | 24.16378 | -.000546 | -.000940 | -.001650 | .1450660 |
| Stddev | .0000793 | .0000725 | .07974   | .000135  | .000382  | .001462  | .0045979 |
| %RSD   | 228.8901 | 123.2098 | .3299996 | 24.82469 | 40.63581 | 88.62527 | 3.169530 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000966 | .0000122 | 24.24330 | -.000633 | -.000618 | -.003292 | .1503444 |
| #2 | .0000621 | .0001423 | 24.16422 | -.000615 | -.000839 | -.000489 | .1429215 |
| #3 | -.000055 | .0000219 | 24.08383 | -.000390 | -.001362 | -.001168 | .1419322 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0145846 | 6.697891 | .0004779 | .0000963 | 31.54146 | .0031403 | .0028299 |
| Stddev | .0003019 | .014454  | .0001593 | .0007261 | .30272   | .0025566 | .0009874 |
| %RSD   | 2.070053 | .2157930 | 33.32948 | 753.7749 | .9597673 | 81.41261 | 34.88986 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0147281 | 6.711099 | .0006136 | -.000246 | 31.84541 | .0056332 | .0039663 |
| #2 | .0147881 | 6.682452 | .0005178 | .000930  | 31.23998 | .0032634 | .0021818 |
| #3 | .0142378 | 6.700122 | .0003025 | -.000395 | 31.53899 | .0005244 | .0023417 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.964204 | .0603901 | .1047994 | .0038695 | 9.005144 | 8.063472 | -.002532 |
| Stddev | .110256  | .0014083 | .0008905 | .0001793 | .039807  | .006516  | .000848  |
| %RSD   | 3.719569 | 2.332049 | .8497158 | 4.633220 | .4420508 | .0808067 | 33.49945 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.025505 | .0593820 | .1054348 | .0036672 | 8.988175 | 8.056971 | -.001752 |
| #2 | 3.030187 | .0597891 | .1037816 | .0040087 | 8.976632 | 8.063443 | -.002410 |
| #3 | 2.836921 | .0619992 | .1051818 | .0039327 | 9.050623 | 8.070003 | -.003435 |

Sample Name: K2819-09      Acquired: 05/20/2019 13:49:58      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ6      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0080068 | -.001457 | .1186945 |
| Stddev | .0006266 | .000720  | .0003576 |
| %RSD   | 7.826375 | 49.42676 | .3013181 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0079761 | -.000963 | .1186992 |
| #2 | .0073961 | -.001124 | .1190498 |
| #3 | .0086482 | -.002283 | .1183346 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3420.912 | 4282.561 | 68773.09 | 13247.06 | 5289.506 |
| Stddev    | 27.674   | 4.133    | 567.72   | 76.87    | 2.884    |
| %RSD      | .8089762 | .0965006 | .8254929 | .5803012 | .0545162 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3434.287 | 4277.792 | 69371.66 | 13329.58 | 5290.599 |
| #2 | 3389.091 | 4284.787 | 68242.32 | 13177.47 | 5291.682 |
| #3 | 3439.359 | 4285.103 | 68705.28 | 13234.14 | 5286.235 |

Sample Name: K2819-11      Acquired: 05/20/2019 13:58:05      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ04      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0071774 | .0018064 | .0033990 | -.003703 | -.001252 | .6815512 | .0418159 |
| Stddev | .0026845 | .0010351 | .0009865 | .002338  | .000642  | .0033283 | .0005478 |
| %RSD   | 37.40237 | 57.30006 | 29.02410 | 63.13488 | 51.26812 | .4883485 | 1.310058 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0099443 | .0020068 | .0036842 | -.005610 | -.001613 | .6777544 | .0412171 |
| #2 | .0070040 | .0027267 | .0042114 | -.001095 | -.000511 | .6829335 | .0422920 |
| #3 | .0045837 | .0006858 | .0023012 | -.004403 | -.001631 | .6839656 | .0419385 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001421 | .0001969 | 17.31953 | .0009314 | -.000295 | -.000496 | .7699143 |
| Stddev | .0000484 | .0000219 | .05365   | .0003362 | .000096  | .001846  | .0014331 |
| %RSD   | 34.04752 | 11.10352 | .3097591 | 36.09815 | 32.64067 | 371.8241 | .1861416 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001118 | .0001840 | 17.36954 | .0012572 | -.000201 | -.000540 | .7686768 |
| #2 | .0001167 | .0001846 | 17.26286 | .0009512 | -.000394 | .001371  | .7714845 |
| #3 | .0001979 | .0002222 | 17.32620 | .0005857 | -.000291 | -.002320 | .7695815 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1513199 | 4.689616 | .0010504 | .0004048 | 14.95345 | .0047450 | .0027689 |
| Stddev | .0010382 | .038347  | .0003578 | .0002650 | .18109   | .0007410 | .0009668 |
| %RSD   | .6860936 | .8177092 | 34.06024 | 65.45611 | 1.211007 | 15.61565 | 34.91563 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1523186 | 4.733100 | .0007712 | .0006862 | 14.77206 | .0053565 | .0016773 |
| #2 | .1502462 | 4.660635 | .0009264 | .0001601 | 15.13423 | .0049574 | .0031125 |
| #3 | .1513949 | 4.675114 | .0014537 | .0003681 | 14.95408 | .0039210 | .0035170 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.196060 | .1058533 | .0497321 | .0013851 | 4.590988 | 13.48130 | -.002146 |
| Stddev | .016184  | .0011526 | .0011492 | .0000050 | .014182  | .06956   | .001341  |
| %RSD   | .7369631 | 1.088820 | 2.310740 | .3646139 | .3089133 | .5159842 | 62.48458 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.212500 | .1053612 | .0502441 | .0013900 | 4.583348 | 13.52435 | -.002320 |
| #2 | 2.180144 | .1050285 | .0484159 | .0013855 | 4.607352 | 13.40105 | -.003391 |
| #3 | 2.195535 | .1071702 | .0505363 | .0013799 | 4.582264 | 13.51850 | -.000726 |

Sample Name: K2819-11      Acquired: 05/20/2019 13:58:05      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ04      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0228060 | -.010077 | .0937830 |
| Stddev | .0007093 | .001719  | .0002380 |
| %RSD   | 3.110076 | 17.05315 | .2537787 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0227167 | -.010885 | .0938250 |
| #2 | .0221456 | -.011244 | .0935268 |
| #3 | .0235557 | -.008104 | .0939972 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3423.989 | 4293.868 | 69088.36 | 13231.69 | 5274.582 |
| Stddev    | 17.494   | 8.245    | 190.82   | 62.10    | 8.517    |
| %RSD      | .5109367 | .1920111 | .2761959 | .4693352 | .1614674 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3417.007 | 4298.471 | 69172.42 | 13174.87 | 5271.010 |
| #2 | 3411.063 | 4284.350 | 68869.94 | 13297.99 | 5268.433 |
| #3 | 3443.896 | 4298.784 | 69222.72 | 13222.23 | 5284.303 |

Sample Name: CCV028      Acquired: 05/20/2019 14:02:06      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCV028      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.043473 | 4.924101 | 24.80872 | 4.984940 | 5.002739 | 419.7202 | 10.14381 |
| Stddev | .023271  | .018601  | .01579   | .009754  | .006914  | 1.1915   | .00878   |
| %RSD   | .4614027 | .3777463 | .0636424 | .1956662 | .1381984 | .2838884 | .0865631 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.020039 | 4.920979 | 24.79247 | 4.974045 | 4.996628 | 420.1906 | 10.15124 |
| #2 | 5.043804 | 4.907259 | 24.80970 | 4.987915 | 5.001347 | 418.3653 | 10.14608 |
| #3 | 5.066577 | 4.944065 | 24.82400 | 4.992860 | 5.010243 | 420.6047 | 10.13412 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5153826 | 2.485336 | 427.7843 | 15.41833 | 2.533016 | 15.14275 | 430.0381 |
| Stddev | .0071310 | .001921  | 3.6010   | .03955   | .003630  | .04177   | 2.4329   |
| %RSD   | 1.383624 | .0772987 | .8417814 | .2565043 | .1433048 | .2758522 | .5657368 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5214919 | 2.483555 | 430.2623 | 15.37293 | 2.528989 | 15.17364 | 431.1788 |
| #2 | .5075470 | 2.485082 | 423.6536 | 15.44532 | 2.536037 | 15.09522 | 427.2445 |
| #3 | .5171089 | 2.487372 | 429.4371 | 15.43673 | 2.534024 | 15.15939 | 431.6911 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.30574 | 420.4950 | 2.511233 | 1.277244 | 418.6357 | 2.553311 | 14.82099 |
| Stddev | .15664   | 3.3300   | .001449  | .002382  | 2.0567   | .010104  | .06211   |
| %RSD   | 1.023394 | .7919308 | .0577058 | .1865084 | .4912982 | .3957035 | .4190347 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 15.41855 | 422.1983 | 2.511613 | 1.277309 | 420.5297 | 2.555763 | 14.78562 |
| #2 | 15.12690 | 416.6579 | 2.509632 | 1.279594 | 416.4478 | 2.542208 | 14.89270 |
| #3 | 15.37177 | 422.6289 | 2.512454 | 1.274831 | 418.9297 | 2.561963 | 14.78465 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 155.0738 | 5.185261 | 5.493782 | 5.044807 | 5.057726 | 4.960435 | 5.042470 |
| Stddev | .4296    | .034637  | .068637  | .017718  | .027055  | .070769  | .005043  |
| %RSD   | .2770353 | .6679902 | 1.249363 | .3512051 | .5349304 | 1.426669 | .1000016 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 155.4346 | 5.186568 | 5.555013 | 5.026772 | 5.050803 | 5.023459 | 5.038048 |
| #2 | 154.5985 | 5.149988 | 5.419587 | 5.045461 | 5.034806 | 4.883876 | 5.041400 |
| #3 | 155.1881 | 5.219226 | 5.506747 | 5.062189 | 5.087571 | 4.973969 | 5.047961 |

Sample Name: CCV028      Acquired: 05/20/2019 14:02:06      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCV028      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 5.050715 | 5.157781 | 5.048431 |
| Stddev | .019076  | .001820  | .028664  |
| %RSD   | .3776914 | .0352845 | .5677737 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | 5.059228 | 5.156586 | 5.041938 |
| #2 | 5.028865 | 5.156881 | 5.023570 |
| #3 | 5.064053 | 5.159875 | 5.079784 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2792.919 | 3507.332 | 59592.13 | 11892.08 | 4152.474 |
| Stddev    | 13.850   | 12.259   | 326.63   | 119.21   | 6.949    |
| %RSD      | .4959026 | .3495180 | .5481134 | 1.002446 | .1673544 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2783.517 | 3521.107 | 59789.36 | 11780.05 | 4157.562 |
| #2 | 2786.416 | 3497.624 | 59215.11 | 12017.36 | 4144.556 |
| #3 | 2808.824 | 3503.263 | 59771.93 | 11878.82 | 4155.303 |

Sample Name: K2819-12      Acquired: 05/20/2019 14:10:04      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ4      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0075242 | .0011807 | .0017987 | .0021926 | -.000293 | .1936789 | .0216060 |
| Stddev | .0016068 | .0014528 | .0012233 | .0017554 | .000669  | .0076731 | .0009724 |
| %RSD   | 21.35475 | 123.0404 | 68.01266 | 80.05787 | 228.1359 | 3.961755 | 4.500803 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0091238 | .0021921 | .0004901 | .0004176 | -.000692 | .1896648 | .0220318 |
| #2 | .0059103 | .0018341 | .0019921 | .0039277 | .000479  | .2025264 | .0222928 |
| #3 | .0075385 | -.000484 | .0029137 | .0022326 | -.000667 | .1888457 | .0204932 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000552 | .0001330 | 24.04294 | .0014112 | -.000777 | -.002348 | .1871319 |
| Stddev | .0000698 | .0000353 | .28030   | .0003669 | .000263  | .000706  | .0104443 |
| %RSD   | 126.4743 | 26.53341 | 1.165838 | 26.00100 | 33.78442 | 30.06361 | 5.581228 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000948 | .0001011 | 23.91275 | .0015148 | -.001077 | -.002026 | .1908289 |
| #2 | .0000961 | .0001269 | 24.36466 | .0017151 | -.000590 | -.001861 | .1952248 |
| #3 | -.000025 | .0001709 | 23.85141 | .0010036 | -.000664 | -.003158 | .1753420 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0059200 | 6.712839 | .0005447 | .0002366 | 30.16173 | .0032768 | .0015777 |
| Stddev | .0003356 | .042257  | .0002029 | .0002725 | .18008   | .0003189 | .0005173 |
| %RSD   | 5.669265 | .6294964 | 37.24985 | 115.2114 | .5970523 | 9.730645 | 32.78408 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0063056 | 6.720678 | .0005763 | .0005074 | 30.16886 | .0034943 | .0012757 |
| #2 | .0056930 | 6.750628 | .0003278 | .0002400 | 30.33813 | .0029108 | .0021750 |
| #3 | .0057616 | 6.667211 | .0007299 | -.000038 | 29.97818 | .0034252 | .0012825 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.869936 | .0604268 | .1014130 | .0036006 | 8.650214 | 8.323593 | -.002811 |
| Stddev | .100433  | .0012856 | .0011584 | .0002489 | .017678  | .024067  | .000467  |
| %RSD   | 3.499469 | 2.127584 | 1.142262 | 6.911504 | .2043621 | .2891466 | 16.60901 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.891666 | .0597357 | .1024357 | .0035489 | 8.630647 | 8.304478 | -.003205 |
| #2 | 2.957725 | .0596345 | .1016484 | .0038713 | 8.654965 | 8.350620 | -.002932 |
| #3 | 2.760418 | .0619101 | .1001550 | .0033817 | 8.665032 | 8.315679 | -.002295 |



Sample Name: K2819-12      Acquired: 05/20/2019 14:10:04      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ4      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0090580 | -.005485 | .1183739 |
| Stddev | .0009869 | .000983  | .0003134 |
| %RSD   | 10.89498 | 17.91249 | .2647542 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0099757 | -.004427 | .1183133 |
| #2 | .0091844 | -.005659 | .1187132 |
| #3 | .0080141 | -.006369 | .1180952 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3456.699 | 4277.313 | 69003.48 | 13346.48 | 5295.715 |
| Stddev    | 15.650   | 15.940   | 280.45   | 97.23    | 16.769   |
| %RSD      | .4527445 | .3726566 | .4064285 | .7285035 | .3166614 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3467.715 | 4294.216 | 68888.86 | 13398.68 | 5310.087 |
| #2 | 3438.785 | 4275.170 | 68798.49 | 13234.30 | 5299.767 |
| #3 | 3463.597 | 4262.553 | 69323.08 | 13406.47 | 5277.290 |

Sample Name: CCB028      Acquired: 05/20/2019 14:05:57      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCB028      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009079 | .0006584 | -.000517 | .0010523 | .0015317 | .0032214 | -.000107 |
| Stddev | .0020072 | .0010965 | .000638  | .0014558 | .0016236 | .0053010 | .000693  |
| %RSD   | 221.0840 | 166.5397 | 123.6055 | 138.3468 | 105.9974 | 164.5591 | 650.1425 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0029988 | .0017809 | .000124  | -.000536 | .0016962 | .0017829 | .000346  |
| #2 | .0007281 | -.000410 | -.000520 | .001370  | -.000168 | .0090932 | .000238  |
| #3 | -.001003 | .000604  | -.001153 | .002323  | .003067  | -.001212 | -.000904 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000014 | .0002295 | .0132811 | .0006622 | -.000263 | .0104774 | .0663828 |
| Stddev | .000048  | .0000508 | .0081761 | .0000969 | .000105  | .0007154 | .0074344 |
| %RSD   | 348.8732 | 22.11745 | 61.56200 | 14.63603 | 39.89054 | 6.828261 | 11.19925 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .000040  | .0001732 | .0124903 | .0007717 | -.000379 | .0109029 | .0743220 |
| #2 | -.000052 | .0002434 | .0055292 | .0005876 | -.000176 | .0108778 | .0652410 |
| #3 | -.000028 | .0002719 | .0218240 | .0006272 | -.000233 | .0096514 | .0595854 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0045319 | .0317666 | -.000800 | -.000144 | .0485446 | -.002833 | .0019374 |
| Stddev | .0004566 | .0085654 | .000212  | .000360  | .3986120 | .002144  | .0011222 |
| %RSD   | 10.07458 | 26.96349 | 26.46173 | 250.0598 | 821.1259 | 75.69999 | 57.92624 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0048691 | .0231843 | -.000558 | .000205  | .4909175 | -.004323 | .0032228 |
| #2 | .0047142 | .0318005 | -.000949 | -.000513 | -.062546 | -.000375 | .0011526 |
| #3 | .0040123 | .0403150 | -.000894 | -.000124 | -.282738 | -.003800 | .0014367 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0969947 | -.001058 | .0047936 | .0003662 | -.008745 | -.009057 | .0006248 |
| Stddev | .0754003 | .000406  | .0005042 | .0002459 | .004030  | .000674  | .0004296 |
| %RSD   | 77.73649 | 38.35924 | 10.51828 | 67.15617 | 46.08003 | 7.438111 | 68.75695 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0109955 | -.000596 | .0049459 | .0005495 | -.004159 | -.009828 | .0008428 |
| #2 | .1517546 | -.001220 | .0052042 | .0004624 | -.010356 | -.008581 | .0001299 |
| #3 | .1282341 | -.001358 | .0042308 | .0000867 | -.011720 | -.008763 | .0009018 |

Sample Name: CCB028      Acquired: 05/20/2019 14:05:57      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCB028      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0009888 | .0139049 | .0000030 |
| Stddev | .0010941 | .0005292 | .0001313 |
| %RSD   | 110.6554 | 3.806146 | 4445.911 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0012294 | .0140893 | .0001534 |
| #2 | .0019426 | .0133081 | -.000056 |
| #3 | -.000206 | .0143172 | -.000088 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3217.171 | 4038.069 | 64715.74 | 12550.61 | 4909.255 |
| Stddev    | 13.283   | 13.915   | 277.89   | 115.42   | 15.278   |
| %RSD      | .4128636 | .3445998 | .4293992 | .9196570 | .3112011 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3232.367 | 4029.143 | 64971.34 | 12680.31 | 4898.650 |
| #2 | 3211.369 | 4054.102 | 64419.94 | 12459.19 | 4926.766 |
| #3 | 3207.776 | 4030.961 | 64755.94 | 12512.33 | 4902.348 |

Sample Name: K2819-13      Acquired: 05/20/2019 14:14:08      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ7      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0070612 | .0014700 | .0028365 | -.000374 | -.001252 | .5456866 | .0253056 |
| Stddev | .0023646 | .0015700 | .0014218 | .001821  | .000756  | .0088531 | .0005290 |
| %RSD   | 33.48723 | 106.8096 | 50.12528 | 486.1831 | 60.43610 | 1.622372 | 2.090465 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0072001 | .0030848 | .0037942 | .001682  | -.001537 | .5364849 | .0248907 |
| #2 | .0046303 | .0013761 | .0035125 | -.001780 | -.000394 | .5541440 | .0251248 |
| #3 | .0093534 | -.000051 | .0012028 | -.001025 | -.001824 | .5464308 | .0259013 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001121 | .0001206 | 13.58723 | .0005675 | -.000697 | -.001936 | .5021866 |
| Stddev | .0000229 | .0000344 | .04831   | .0003289 | .000219  | .001931  | .0048608 |
| %RSD   | 20.38781 | 28.52161 | .3555684 | 57.96542 | 31.44207 | 99.75836 | .9679304 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000920 | .0000822 | 13.58849 | .0009187 | -.000765 | .000278  | .5001843 |
| #2 | .0001370 | .0001487 | 13.63490 | .0002667 | -.000452 | -.003275 | .4986468 |
| #3 | .0001073 | .0001308 | 13.53830 | .0005169 | -.000875 | -.002809 | .5077288 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0073147 | 3.863525 | .0009879 | .0000867 | 14.94866 | .0031080 | .0035802 |
| Stddev | .0003372 | .026457  | .0005978 | .0005129 | .41135   | .0021289 | .0002731 |
| %RSD   | 4.609789 | .6847798 | 60.51661 | 591.4885 | 2.751734 | 68.49864 | 7.626969 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0073830 | 3.838144 | .0003144 | .0004735 | 15.25874 | .0015554 | .0032679 |
| #2 | .0069486 | 3.890940 | .0011934 | -.000495 | 15.10523 | .0055349 | .0037739 |
| #3 | .0076126 | 3.861490 | .0014559 | .000282  | 14.48202 | .0022337 | .0036989 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.815549 | .0435162 | .0510951 | .0013918 | 4.310252 | 11.44333 | -.001183 |
| Stddev | .019799  | .0011496 | .0004539 | .0002662 | .036175  | .05232   | .000299  |
| %RSD   | 1.090514 | 2.641750 | .8883468 | 19.12353 | .8392741 | .4572176 | 25.26432 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.826753 | .0427054 | .0505734 | .0012989 | 4.270831 | 11.48901 | -.001497 |
| #2 | 1.827205 | .0430114 | .0514002 | .0011845 | 4.318000 | 11.45472 | -.000903 |
| #3 | 1.792689 | .0448318 | .0513115 | .0016920 | 4.341926 | 11.38625 | -.001148 |

Sample Name: K2819-13      Acquired: 05/20/2019 14:14:08      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ7      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0168479 | -.010578 | .0709139 |
| Stddev | .0014260 | .001398  | .0001434 |
| %RSD   | 8.463804 | 13.21849 | .2022775 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0183980 | -.011389 | .0708046 |
| #2 | .0165540 | -.008964 | .0708609 |
| #3 | .0155918 | -.011382 | .0710763 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3425.865 | 4281.100 | 69142.29 | 13274.91 | 5280.123 |
| Stddev    | 20.207   | 5.553    | 380.85   | 50.15    | 5.849    |
| %RSD      | .5898490 | .1297173 | .5508188 | .3778137 | .1107690 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3449.118 | 4284.008 | 69581.75 | 13305.33 | 5285.720 |
| #2 | 3415.926 | 4284.596 | 68936.89 | 13217.02 | 5280.598 |
| #3 | 3412.552 | 4274.697 | 68908.24 | 13302.37 | 5274.051 |

Sample Name: K2819-14      Acquired: 05/20/2019 14:18:12      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0054842 | .0029523 | .0028448 | -.003095 | -.000566 | .6284196 | .0326661 |
| Stddev | .0026643 | .0001574 | .0008635 | .002830  | .000595  | .0049774 | .0007562 |
| %RSD   | 48.58078 | 5.332164 | 30.35280 | 91.44079 | 105.0932 | .7920441 | 2.315010 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0045755 | .0028020 | .0028882 | -.004365 | -.000170 | .6228803 | .0325430 |
| #2 | .0084840 | .0029388 | .0019605 | .000148  | -.000279 | .6298621 | .0319791 |
| #3 | .0033932 | .0031160 | .0036859 | -.005067 | -.001251 | .6325164 | .0334764 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001505 | .0001720 | 13.29643 | -.000254 | -.000347 | .0000579 | .6101601 |
| Stddev | .0001114 | .0000441 | .05519   | .000078  | .000177  | .0030099 | .0023171 |
| %RSD   | 74.06539 | 25.62281 | .4150718 | 30.73975 | 51.11127 | 5193.607 | .3797444 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002762 | .0002193 | 13.36012 | -.000320 | -.000249 | -.000792 | .6078325 |
| #2 | .0001111 | .0001645 | 13.26649 | -.000274 | -.000240 | .003401  | .6124664 |
| #3 | .0000640 | .0001322 | 13.26268 | -.000168 | -.000552 | -.002436 | .6101815 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0093270 | 3.688727 | .0011329 | -.000114 | 11.40032 | .0031063 | .0032543 |
| Stddev | .0003553 | .026151  | .0001091 | .000089  | .15717   | .0011958 | .0008186 |
| %RSD   | 3.809890 | .7089377 | 9.627707 | 78.41592 | 1.378666 | 38.49502 | 25.15334 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0094768 | 3.701207 | .0012307 | -.000015 | 11.58061 | .0043119 | .0027030 |
| #2 | .0095828 | 3.658674 | .0010153 | -.000189 | 11.32814 | .0019207 | .0041948 |
| #3 | .0089212 | 3.706299 | .0011527 | -.000138 | 11.29220 | .0030863 | .0028650 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.773617 | .0635966 | .0381790 | .0009899 | 3.564042 | 12.99235 | -.001444 |
| Stddev | .015082  | .0020010 | .0005095 | .0002113 | .010219  | .02822   | .000940  |
| %RSD   | .8503562 | 3.146433 | 1.334547 | 21.34580 | .2867291 | .2172182 | 65.10000 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.774238 | .0647358 | .0385933 | .0010159 | 3.563092 | 13.00702 | -.001865 |
| #2 | 1.788379 | .0647678 | .0383337 | .0007669 | 3.554331 | 12.95981 | -.000367 |
| #3 | 1.758234 | .0612861 | .0376101 | .0011871 | 3.574703 | 13.01021 | -.002099 |

Sample Name: K2819-14      Acquired: 05/20/2019 14:18:12      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ9      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0211673 | -.019863 | .0736637 |
| Stddev | .0012102 | .002859  | .0001144 |
| %RSD   | 5.717327 | 14.39509 | .1553316 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0197735 | -.016735 | .0737839 |
| #2 | .0217766 | -.020511 | .0736512 |
| #3 | .0219517 | -.022342 | .0735561 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3396.068 | 4270.460 | 68557.55 | 13227.83 | 5256.582 |
| Stddev    | 15.955   | 11.228   | 476.83   | 78.55    | 4.406    |
| %RSD      | .4698013 | .2629133 | .6955167 | .5938100 | .0838270 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3388.861 | 4280.229 | 68007.58 | 13144.44 | 5259.332 |
| #2 | 3384.987 | 4272.957 | 68809.92 | 13238.64 | 5258.914 |
| #3 | 3414.354 | 4258.194 | 68855.16 | 13300.42 | 5251.500 |

Sample Name: K2819-16      Acquired: 05/20/2019 14:26:23      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ05      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0054866 | .0029281 | .0026063 | -.002436 | -.000711 | .2370676 | .0507152 |
| Stddev | .0006571 | .0007263 | .0014698 | .000964  | .000328  | .0055193 | .0004078 |
| %RSD   | 11.97707 | 24.80445 | 56.39550 | 39.58828 | 46.17325 | 2.328138 | .8041600 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0048212 | .0029196 | .0022352 | -.003408 | -.001040 | .2405427 | .0510985 |
| #2 | .0061351 | .0036586 | .0013576 | -.002422 | -.000711 | .2399567 | .0502866 |
| #3 | .0055033 | .0022061 | .0042261 | -.001479 | -.000383 | .2307035 | .0507606 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001658 | .0001166 | 21.95567 | .0004017 | -.000704 | -.004054 | .2755113 |
| Stddev | .0000842 | .0000358 | .06098   | .0003897 | .000447  | .001487  | .0034584 |
| %RSD   | 50.77418 | 30.72736 | .2777314 | 97.02268 | 63.55885 | 36.68063 | 1.255256 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001378 | .0001565 | 21.89210 | .0008465 | -.000646 | -.002660 | .2715909 |
| #2 | .0002604 | .0000873 | 21.96122 | .0002383 | -.000288 | -.005619 | .2768137 |
| #3 | .0000992 | .0001059 | 22.01368 | .0001202 | -.001177 | -.003884 | .2781294 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0347268 | 5.524077 | .0008402 | -.000389 | 15.88380 | .0046491 | .0032444 |
| Stddev | .0002676 | .010274  | .0000800 | .000166  | .27978   | .0026259 | .0014454 |
| %RSD   | .7704758 | .1859897 | 9.524876 | 42.73730 | 1.761448 | 56.48147 | 44.55022 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0350220 | 5.532671 | .0008873 | -.000459 | 15.83886 | .0037808 | .0019354 |
| #2 | .0345002 | 5.526863 | .0007478 | -.000199 | 15.62921 | .0075992 | .0030023 |
| #3 | .0346581 | 5.512697 | .0008856 | -.000509 | 16.18334 | .0025674 | .0047956 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.083362 | .0778154 | .0529720 | .0008859 | 5.598514 | 12.55117 | -.002308 |
| Stddev | .019405  | .0035745 | .0008839 | .0000837 | .027211  | .10884   | .000741  |
| %RSD   | .9314330 | 4.593510 | 1.668526 | 9.444064 | .4860440 | .8671449 | 32.09119 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.092184 | .0741790 | .0529355 | .0007912 | 5.595334 | 12.50463 | -.001790 |
| #2 | 2.096789 | .0779426 | .0521069 | .0009169 | 5.627175 | 12.47334 | -.003156 |
| #3 | 2.061113 | .0813245 | .0538735 | .0009497 | 5.573032 | 12.67554 | -.001977 |



Sample Name: K2819-16      Acquired: 05/20/2019 14:26:23      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ05      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0082536 | -.017796 | .1229193 |
| Stddev | .0009499 | .001496  | .0001978 |
| %RSD   | 11.50888 | 8.404313 | .1609133 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0090461 | -.019301 | .1227730 |
| #2 | .0085141 | -.016310 | .1231444 |
| #3 | .0072006 | -.017777 | .1228406 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3412.540 | 4260.664 | 68756.24 | 13220.90 | 5245.033 |
| Stddev    | 14.707   | 5.967    | 170.40   | 114.63   | .853     |
| %RSD      | .4309814 | .1400503 | .2478265 | .8670009 | .0162639 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3426.917 | 4256.793 | 68837.24 | 13323.81 | 5245.022 |
| #2 | 3397.523 | 4267.536 | 68560.45 | 13241.52 | 5245.892 |
| #3 | 3413.179 | 4257.664 | 68871.03 | 13097.36 | 5244.186 |

Sample Name: K2819-15      Acquired: 05/20/2019 14:22:18      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ03      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0061147 | .0030716 | .0025505 | -.002144 | -.001658 | 1.258768 | .0441028 |
| Stddev | .0017601 | .0017332 | .0007400 | .001239  | .001045  | .018139  | .0007271 |
| %RSD   | 28.78395 | 56.42582 | 29.01353 | 57.81936 | 63.00550 | 1.441009 | 1.648686 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0044408 | .0010707 | .0016965 | -.001557 | -.002791 | 1.243989 | .0449342 |
| #2 | .0079498 | .0041052 | .0029516 | -.001306 | -.001450 | 1.279011 | .0437881 |
| #3 | .0059536 | .0040389 | .0030032 | -.003568 | -.000733 | 1.253304 | .0435860 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0002300 | .0000949 | 16.48634 | .0008755 | -.000445 | -.000115 | .9633357 |
| Stddev | .0000404 | .0000228 | .10231   | .0012086 | .000110  | .000701  | .0071374 |
| %RSD   | 17.58165 | 24.05199 | .6205513 | 138.0565 | 24.68687 | 611.5457 | .7409087 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002763 | .0001074 | 16.58152 | .0009311 | -.000398 | -.000589 | .9655155 |
| #2 | .0002014 | .0001088 | 16.37816 | .0020553 | -.000570 | .000690  | .9691290 |
| #3 | .0002124 | .0000686 | 16.49935 | -.000360 | -.000366 | -.000446 | .9553625 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0155472 | 4.444250 | .0015035 | .0000495 | 11.74402 | .0040090 | .0033313 |
| Stddev | .0005847 | .038409  | .0004666 | .0005414 | .35936   | .0022078 | .0021118 |
| %RSD   | 3.761162 | .8642458 | 31.03795 | 1094.129 | 3.059925 | 55.06960 | 63.39355 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0162186 | 4.486414 | .0020406 | .0001878 | 11.72782 | .0037380 | .0031485 |
| #2 | .0152734 | 4.411255 | .0012717 | -.000548 | 12.11121 | .0019493 | .0013168 |
| #3 | .0151495 | 4.435081 | .0011981 | .000508  | 11.39304 | .0063398 | .0055286 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.007433 | .0847296 | .0398473 | .0009568 | 4.063672 | 15.46319 | -.001499 |
| Stddev | .073105  | .0014279 | .0006812 | .0000578 | .020091  | .08423   | .000863  |
| %RSD   | 3.641719 | 1.685250 | 1.709417 | 6.036689 | .4944145 | .5447045 | 57.60472 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.040951 | .0834816 | .0395266 | .0009534 | 4.042771 | 15.54640 | -.001228 |
| #2 | 1.923579 | .0862868 | .0393856 | .0010162 | 4.082841 | 15.37798 | -.002465 |
| #3 | 2.057770 | .0844205 | .0406296 | .0009008 | 4.065403 | 15.46519 | -.000803 |

Sample Name: K2819-15      Acquired: 05/20/2019 14:22:18      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ03      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0518962 | -.019318 | .0932283 |
| Stddev | .0008678 | .001133  | .0002349 |
| %RSD   | 1.672234 | 5.862882 | .2519789 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0520000 | -.018031 | .0933099 |
| #2 | .0527075 | -.019761 | .0934115 |
| #3 | .0509812 | -.020163 | .0929635 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3407.300 | 4281.600 | 68773.42 | 13187.81 | 5250.410 |
| Stddev    | 11.334   | 1.665    | 111.19   | 53.76    | 3.432    |
| %RSD      | .3326292 | .0388852 | .1616735 | .4076720 | .0653656 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3418.269 | 4279.679 | 68852.03 | 13145.20 | 5247.090 |
| #2 | 3395.634 | 4282.627 | 68646.21 | 13248.22 | 5253.944 |
| #3 | 3407.996 | 4282.494 | 68822.03 | 13170.02 | 5250.196 |

Sample Name: K2819-18      Acquired: 05/20/2019 14:34:33      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ09      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0030412 | .0024983 | -.000800 | -.004162 | -.002704 | .0149137 | .0039068 |
| Stddev | .0015893 | .0008797 | .001940  | .002085  | .000749  | .0066776 | .0008651 |
| %RSD   | 52.26006 | 35.21196 | 242.5334 | 50.08061 | 27.68431 | 44.77524 | 22.14323 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0023708 | .0015160 | -.003010 | -.002764 | -.001847 | .0072291 | .0044328 |
| #2 | .0048559 | .0032134 | .000625  | -.003165 | -.003230 | .0182073 | .0043793 |
| #3 | .0018969 | .0027655 | -.000015 | -.006558 | -.003036 | .0193046 | .0029084 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001089 | -.000001 | .0461383 | .0005434 | -.000053 | -.004050 | -.022012 |
| Stddev | .0000455 | .000071  | .0168221 | .0006420 | .000128  | .001602  | .001632  |
| %RSD   | 41.77971 | 6982.592 | 36.46025 | 118.1508 | 239.6571 | 39.56270 | 7.414752 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000576 | .000056  | .0570836 | .0002910 | -.000013 | -.005900 | -.021767 |
| #2 | .0001244 | .000022  | .0545629 | .0000659 | .000050  | -.003134 | -.023753 |
| #3 | .0001445 | -.000081 | .0267684 | .0012732 | -.000197 | -.003116 | -.020516 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009546 | .0268953 | .0003241 | .0004765 | .2429596 | .0001413 | .0017189 |
| Stddev | .0006421 | .0223521 | .0004268 | .0004155 | .1043914 | .0018062 | .0014896 |
| %RSD   | 67.26110 | 83.10773 | 131.6972 | 87.20586 | 42.96657 | 1278.053 | 86.66243 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0011835 | .0038762 | .0003833 | .0001372 | .3007535 | -.001562 | .0001738 |
| #2 | .0002294 | .0282951 | -.000129 | .0009400 | .1224522 | -.000049 | .0031460 |
| #3 | .0014508 | .0485147 | .000718  | .0003524 | .3056729 | .002035  | .0018368 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.06057 | .0000016 | -.007166 | -.000506 | .0008176 | .0256121 | -.001449 |
| Stddev | .07579   | .0010103 | .000096  | .000131  | .0033448 | .0011889 | .000485  |
| %RSD   | 7.145825 | 64072.99 | 1.332838 | 25.86803 | 409.0945 | 4.641820 | 33.49279 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.02511 | .0011632 | -.007226 | -.000372 | -.000141 | .0269757 | -.001962 |
| #2 | -1.00902 | -.000486 | -.007056 | -.000512 | .004537  | .0250673 | -.000997 |
| #3 | -1.14759 | -.000672 | -.007215 | -.000633 | -.001943 | .0247932 | -.001388 |

Sample Name: K2819-18      Acquired: 05/20/2019 14:34:33      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ09      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0018887 | -.027775 | .0000924 |
| Stddev | .0004567 | .001093  | .0000843 |
| %RSD   | 24.18105 | 3.935157 | 91.24919 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0023686 | -.028724 | .0001889 |
| #2 | .0014594 | -.026580 | .0000330 |
| #3 | .0018380 | -.028021 | .0000553 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3417.861 | 4283.102 | 68790.23 | 13127.51 | 5126.156 |
| Stddev    | 8.428    | 6.961    | 200.64   | 20.10    | 5.551    |
| %RSD      | .2465931 | .1625252 | .2916678 | .1530961 | .1082867 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3427.587 | 4275.926 | 68873.25 | 13113.90 | 5120.390 |
| #2 | 3412.710 | 4283.555 | 68561.40 | 13150.59 | 5131.464 |
| #3 | 3413.285 | 4289.826 | 68936.03 | 13118.03 | 5126.613 |

Sample Name: K2819-17      Acquired: 05/20/2019 14:30:28      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ06      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0089508 | .0022322 | .0022820 | .0006308 | -.002080 | .3947696 | .0533505 |
| Stddev | .0010884 | .0012082 | .0017339 | .0029875 | .000669  | .0127329 | .0011491 |
| %RSD   | 12.15940 | 54.12854 | 75.98033 | 473.6009 | 32.15978 | 3.225394 | 2.153901 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0101439 | .0031442 | .0008905 | .0035530 | -.002274 | .3807027 | .0544273 |
| #2 | .0086960 | .0026905 | .0017311 | .0007575 | -.001335 | .3980994 | .0534836 |
| #3 | .0080124 | .0008618 | .0042244 | -.002418 | -.002630 | .4055067 | .0521406 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000761 | .0001848 | 21.91545 | .0006014 | -.000588 | -.003902 | .4762603 |
| Stddev | .0000553 | .0001007 | .05929   | .0005977 | .000186  | .002044  | .0105385 |
| %RSD   | 72.66802 | 54.48981 | .2705262 | 99.39165 | 31.71315 | 52.37740 | 2.212768 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000936 | .0002915 | 21.95627 | .0012430 | -.000486 | -.005706 | .4760747 |
| #2 | .0001205 | .0001714 | 21.84744 | .0000603 | -.000474 | -.004318 | .4868904 |
| #3 | .0000142 | .0000915 | 21.94263 | .0005009 | -.000803 | -.001682 | .4658158 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0634755 | 5.561929 | .0009298 | .0000906 | 15.76410 | .0026339 | .0026855 |
| Stddev | .0003222 | .057109  | .0002997 | .0002450 | .32799   | .0007172 | .0006008 |
| %RSD   | .5075527 | 1.026781 | 32.23440 | 270.3991 | 2.080583 | 27.22933 | 22.37294 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0636108 | 5.528077 | .0010921 | .0001903 | 15.98248 | .0027147 | .0026466 |
| #2 | .0637080 | 5.529846 | .0011135 | .0002701 | 15.92286 | .0033072 | .0033048 |
| #3 | .0631077 | 5.627865 | .0005840 | -.000189 | 15.38694 | .0018797 | .0021051 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.123652 | .0720879 | .0518820 | .0011928 | 5.550685 | 12.90471 | -.002571 |
| Stddev | .055840  | .0018593 | .0008305 | .0004166 | .012083  | .14821   | .001082  |
| %RSD   | 2.629455 | 2.579165 | 1.600685 | 34.92830 | .2176810 | 1.148458 | 42.09056 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.160328 | .0740105 | .0511682 | .0016595 | 5.544872 | 12.74444 | -.003792 |
| #2 | 2.059387 | .0719541 | .0516843 | .0008584 | 5.564575 | 12.93289 | -.002193 |
| #3 | 2.151241 | .0702992 | .0527935 | .0010605 | 5.542607 | 13.03680 | -.001729 |

Sample Name: K2819-17      Acquired: 05/20/2019 14:30:28      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ06      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0153760 | -.016600 | .1224395 |
| Stddev | .0009439 | .001859  | .0001404 |
| %RSD   | 6.138860 | 11.20075 | .1146334 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0158396 | -.015006 | .1223026 |
| #2 | .0159984 | -.018642 | .1225830 |
| #3 | .0142899 | -.016151 | .1224330 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3426.239 | 4268.939 | 68735.86 | 13278.60 | 5244.784 |
| Stddev    | 21.300   | 5.723    | 347.00   | 67.89    | 2.857    |
| %RSD      | .6216839 | .1340662 | .5048367 | .5113033 | .0544755 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3406.025 | 4267.768 | 68336.03 | 13350.73 | 5245.982 |
| #2 | 3424.211 | 4263.891 | 68913.13 | 13269.13 | 5241.523 |
| #3 | 3448.481 | 4275.157 | 68958.43 | 13215.94 | 5246.848 |

Sample Name: K2819-20      Acquired: 05/20/2019 14:42:46      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ0      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0077247 | .0028579 | .0022238 | -.000167 | -.002715 | .1253490 | .0047314 |
| Stddev | .0028927 | .0007796 | .0007834 | .002576  | .000873  | .0106285 | .0010268 |
| %RSD   | 37.44781 | 27.27768 | 35.22589 | 1546.134 | 32.14326 | 8.479128 | 21.70187 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0098602 | .0037432 | .0015082 | .000979  | -.001808 | .1173774 | .0039272 |
| #2 | .0088813 | .0025570 | .0021024 | -.003116 | -.002788 | .1212536 | .0058880 |
| #3 | .0044326 | .0022737 | .0030608 | .001637  | -.003548 | .1374160 | .0043790 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001199 | .0000795 | 50.44378 | .0005187 | -.000882 | -.003583 | .2367565 |
| Stddev | .0000442 | .0000834 | .02894   | .0006225 | .000217  | .001436  | .0035681 |
| %RSD   | 36.89803 | 104.9552 | .0573619 | 120.0212 | 24.56325 | 40.09466 | 1.507070 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000699 | .0000585 | 50.47716 | .0005980 | -.000952 | -.003220 | .2408744 |
| #2 | .0001357 | .0001713 | 50.42582 | -.000140 | -.000639 | -.002363 | .2345822 |
| #3 | .0001540 | .0000085 | 50.42836 | .001098  | -.001055 | -.005166 | .2348128 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0260875 | 15.52068 | .0016489 | .0000927 | 67.85290 | .0145655 | .0017037 |
| Stddev | .0002205 | .04826   | .0003408 | .0002062 | .06389   | .0023500 | .0015046 |
| %RSD   | .8452841 | .3109323 | 20.66667 | 222.5781 | .0941534 | 16.13400 | 88.30974 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0258394 | 15.53180 | .0020421 | .0002457 | 67.85354 | .0137730 | .0023951 |
| #2 | .0262613 | 15.46783 | .0014642 | -.000142 | 67.78871 | .0172093 | .0027384 |
| #3 | .0261617 | 15.56241 | .0014403 | .000174  | 67.91647 | .0127143 | -.000022 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.432227 | .0404611 | .1318106 | .0036570 | 31.02663 | 16.81824 | -.003298 |
| Stddev | .060156  | .0034988 | .0016918 | .0002319 | .10236   | .05836   | .000219  |
| %RSD   | 1.357251 | 8.647407 | 1.283540 | 6.340427 | .3299056 | .3469772 | 6.633860 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.373554 | .0442675 | .1337546 | .0036933 | 31.01417 | 16.88403 | -.003204 |
| #2 | 4.429362 | .0397308 | .1310055 | .0034091 | 30.93107 | 16.77273 | -.003548 |
| #3 | 4.493765 | .0373851 | .1306716 | .0038685 | 31.13464 | 16.79795 | -.003142 |



Sample Name: K2819-20      Acquired: 05/20/2019 14:42:46      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHZ0      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0159062 | -.017589 | .1319377 |
| Stddev | .0013923 | .001342  | .0001865 |
| %RSD   | 8.752983 | 7.632662 | .1413435 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0143176 | -.017656 | .1321508 |
| #2 | .0164867 | -.018897 | .1318046 |
| #3 | .0169142 | -.016214 | .1318576 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3376.647 | 4204.084 | 68322.44 | 13234.65 | 5207.697 |
| Stddev    | 10.065   | 8.682    | 331.59   | 10.55    | 7.011    |
| %RSD      | .2980791 | .2065161 | .4853338 | .0796944 | .1346225 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3386.965 | 4211.071 | 68656.00 | 13226.96 | 5205.519 |
| #2 | 3366.856 | 4206.817 | 68318.46 | 13246.67 | 5215.538 |
| #3 | 3376.121 | 4194.365 | 67992.85 | 13230.32 | 5202.034 |

Sample Name: K2819-19      Acquired: 05/20/2019 14:38:42      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY9      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0071885 | .0023741 | .0019982 | -.000721 | -.000955 | -.036932 | .0170723 |
| Stddev | .0021003 | .0005629 | .0013751 | .003411  | .001306  | .011659  | .0008626 |
| %RSD   | 29.21704 | 23.71074 | 68.81745 | 472.9477 | 136.7685 | 31.56756 | 5.052716 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0078134 | .0017494 | .0004164 | -.004330 | .000486  | -.029205 | .0172775 |
| #2 | .0089054 | .0028419 | .0029088 | -.000283 | -.001291 | -.031248 | .0161256 |
| #3 | .0048467 | .0025310 | .0026693 | .002449  | -.002059 | -.050342 | .0178138 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001151 | .0000127 | 134.8196 | .0004612 | -.001321 | -.001778 | -.097411 |
| Stddev | .0000183 | .0000332 | .6798    | .0003020 | .000176  | .001702  | .006463  |
| %RSD   | 15.92710 | 261.8914 | .5042446 | 65.47317 | 13.31845 | 95.74475 | 6.634604 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001353 | .0000459 | 135.5622 | .0007859 | -.001178 | -.003644 | -.104590 |
| #2 | .0000995 | -.000021 | 134.2280 | .0001887 | -.001518 | -.000310 | -.095587 |
| #3 | .0001106 | .000013  | 134.6685 | .0004091 | -.001268 | -.001380 | -.092056 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001140 | 29.36710 | -.000062 | .0005479 | 40.68773 | .0003855 | .0021450 |
| Stddev | .0003281 | .15175   | .000202  | .0008060 | .29925   | .0014139 | .0014977 |
| %RSD   | 287.8941 | .5167429 | 327.8664 | 147.1126 | .7354719 | 366.8039 | 69.82356 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0004614 | 29.53178 | .000171  | -.000271 | 40.87053 | -.000243 | .0015600 |
| #2 | -.000191 | 29.23291 | -.000185 | .001341  | 40.85028 | -.000605 | .0038468 |
| #3 | .000071  | 29.33661 | -.000171 | .000574  | 40.34239 | .002005  | .0010280 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.321731 | .0103821 | .1348659 | .0088783 | 94.49640 | 9.893683 | -.004763 |
| Stddev | .064229  | .0025500 | .0010033 | .0001656 | .29618   | .033772  | .000698  |
| %RSD   | 19.96370 | 24.56121 | .7439264 | 1.864794 | .3134305 | .3413518 | 14.64823 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.371188 | .0117542 | .1353297 | .0089072 | 94.15517 | 9.932674 | -.004765 |
| #2 | -.249139 | .0074398 | .1355533 | .0090275 | 94.68697 | 9.873596 | -.005460 |
| #3 | -.344865 | .0119522 | .1337146 | .0087002 | 94.64704 | 9.874780 | -.004064 |

Sample Name: K2819-19      Acquired: 05/20/2019 14:38:42      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHY9      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.001527 | -.008857 | .8510648 |
| Stddev | .000143  | .002947  | .0022660 |
| %RSD   | 9.358115 | 33.26841 | .2662483 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.001559 | -.010565 | .8531699 |
| #2 | -.001371 | -.010551 | .8486665 |
| #3 | -.001652 | -.005455 | .8513581 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3315.392 | 4152.302 | 67321.91 | 13082.56 | 5131.710 |
| Stddev    | 16.785   | 1.741    | 333.00   | 80.20    | 4.784    |
| %RSD      | .5062750 | .0419324 | .4946439 | .6130052 | .0932151 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3302.908 | 4153.921 | 67245.00 | 13010.91 | 5137.183 |
| #2 | 3334.473 | 4150.460 | 67686.64 | 13169.19 | 5128.326 |
| #3 | 3308.794 | 4152.525 | 67034.09 | 13067.59 | 5129.622 |

Sample Name: K2819-21      Acquired: 05/20/2019 14:46:48      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0090532 | .0021533 | .0021919 | -.001029 | -.001487 | .2777924 | .0237257 |
| Stddev | .0026557 | .0010703 | .0015948 | .000802  | .001131  | .0058308 | .0001931 |
| %RSD   | 29.33414 | 49.70181 | 72.76069 | 77.95366 | 76.03541 | 2.098959 | .8138999 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0120413 | .0033870 | .0039832 | -.001946 | -.001622 | .2722725 | .0235574 |
| #2 | .0069624 | .0014732 | .0009264 | -.000684 | -.002545 | .2772139 | .0239365 |
| #3 | .0081559 | .0015998 | .0016660 | -.000458 | -.000295 | .2838909 | .0236831 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001413 | .0001013 | 22.80915 | -.000152 | -.000721 | -.003196 | .1971832 |
| Stddev | .0000158 | .0000434 | .12566   | .000955  | .000073  | .001689  | .0020272 |
| %RSD   | 11.17154 | 42.90488 | .5509218 | 627.4584 | 10.10195 | 52.83210 | 1.028074 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001585 | .0000701 | 22.78956 | .000744  | -.000694 | -.002382 | .1949744 |
| #2 | .0001380 | .0001509 | 22.94346 | -.001157 | -.000803 | -.002070 | .1989587 |
| #3 | .0001274 | .0000828 | 22.69444 | -.000044 | -.000665 | -.005138 | .1976164 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0205700 | 6.355416 | .0007772 | -.000138 | 30.77782 | .0044338 | .0021910 |
| Stddev | .0003716 | .044103  | .0001986 | .000190  | .07311   | .0017859 | .0022235 |
| %RSD   | 1.806397 | .6939490 | 25.54886 | 137.6649 | .2375567 | 40.27807 | 101.4879 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0203300 | 6.397121 | .0005501 | .000061  | 30.74277 | .0041624 | .0042860 |
| #2 | .0203821 | 6.359875 | .0009182 | -.000159 | 30.86186 | .0027992 | -.000142 |
| #3 | .0209980 | 6.309253 | .0008631 | -.000317 | 30.72882 | .0063399 | .002429  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.689670 | .0662977 | .1003780 | .0034569 | 9.002952 | 8.246464 | -.003070 |
| Stddev | .042833  | .0004900 | .0015623 | .0002309 | .039846  | .025835  | .000876  |
| %RSD   | 1.592505 | .7390404 | 1.556453 | 6.680292 | .4425843 | .3132890 | 28.53843 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.720663 | .0659185 | .1014438 | .0034889 | 8.957352 | 8.252537 | -.003956 |
| #2 | 2.707553 | .0661238 | .0985846 | .0032116 | 9.031057 | 8.268722 | -.003049 |
| #3 | 2.640793 | .0668509 | .1011057 | .0036701 | 9.020448 | 8.218133 | -.002204 |

Sample Name: K2819-21      Acquired: 05/20/2019 14:46:48      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHZ8      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0117076 | -.008754 | .1143554 |
| Stddev | .0012209 | .001786  | .0001972 |
| %RSD   | 10.42800 | 20.40420 | .1724729 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0130682 | -.006975 | .1145734 |
| #2 | .0113471 | -.010547 | .1141894 |
| #3 | .0107076 | -.008739 | .1143035 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3409.359 | 4250.222 | 68649.86 | 13447.11 | 5243.766 |
| Stddev    | 8.897    | 7.700    | 17.10    | 29.83    | 1.149    |
| %RSD      | .2609570 | .1811577 | .0249023 | .2218081 | .0219099 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3417.257 | 4246.194 | 68665.51 | 13448.16 | 5244.039 |
| #2 | 3399.720 | 4245.373 | 68652.44 | 13416.77 | 5244.753 |
| #3 | 3411.099 | 4259.101 | 68631.62 | 13476.40 | 5242.505 |

Sample Name: K2819-22      Acquired: 05/20/2019 14:50:51      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ00      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0092070 | .0031423 | .0019443 | -.002358 | -.002508 | .3002179 | .0258068 |
| Stddev | .0027882 | .0013729 | .0024409 | .001393  | .001899  | .0033274 | .0006143 |
| %RSD   | 30.28312 | 43.69052 | 125.5402 | 59.05519 | 75.74040 | 1.108323 | 2.380541 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0067528 | .0021003 | -.000841 | -.001380 | -.000338 | .3033912 | .0253524 |
| #2 | .0122387 | .0026287 | .002963  | -.001742 | -.003869 | .3005071 | .0265057 |
| #3 | .0086295 | .0046980 | .003711  | -.003953 | -.003316 | .2967554 | .0255622 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001285 | .0000980 | 20.85047 | .0001010 | -.000686 | -.002631 | .2771139 |
| Stddev | .0000581 | .0000327 | .15310   | .0002854 | .000026  | .002397  | .0105898 |
| %RSD   | 45.26330 | 33.30317 | .7342587 | 282.5152 | 3.728201 | 91.09689 | 3.821442 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001508 | .0001354 | 20.76276 | -.000072 | -.000712 | -.001697 | .2821129 |
| #2 | .0001721 | .0000838 | 21.02725 | .000430  | -.000661 | -.000842 | .2649500 |
| #3 | .0000625 | .0000750 | 20.76140 | -.000056 | -.000685 | -.005354 | .2842788 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0178219 | 5.862629 | .0009305 | .0004242 | 28.30991 | .0041437 | .0027244 |
| Stddev | .0002343 | .038754  | .0002433 | .0005156 | .27749   | .0008313 | .0011272 |
| %RSD   | 1.314922 | .6610370 | 26.14489 | 121.5454 | .9801830 | 20.06058 | 41.37319 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0180917 | 5.849066 | .0007966 | .0003864 | 28.48751 | .0032535 | .0033658 |
| #2 | .0177048 | 5.906341 | .0007836 | .0009576 | 27.99015 | .0042781 | .0033844 |
| #3 | .0176691 | 5.832478 | .0012114 | -.000071 | 28.45208 | .0048997 | .0014229 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.540916 | .0586320 | .0925871 | .0028911 | 8.210408 | 9.360843 | -.002571 |
| Stddev | .100944  | .0016493 | .0025195 | .0001242 | .009743  | .133197  | .000170  |
| %RSD   | 3.972728 | 2.813048 | 2.721248 | 4.296145 | .1186696 | 1.422918 | 6.615480 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.621513 | .0590322 | .0945971 | .0030316 | 8.215118 | 9.382881 | -.002496 |
| #2 | 2.573540 | .0568193 | .0934035 | .0028458 | 8.199205 | 9.481647 | -.002450 |
| #3 | 2.427695 | .0600443 | .0897606 | .0027959 | 8.216901 | 9.218002 | -.002765 |

Sample Name: K2819-22      Acquired: 05/20/2019 14:50:51      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ00      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0117205 | -.010786 | .1048004 |
| Stddev | .0009233 | .002365  | .0002434 |
| %RSD   | 7.877489 | 21.92147 | .2322876 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0127844 | -.008071 | .1046563 |
| #2 | .0111286 | -.011892 | .1050814 |
| #3 | .0112485 | -.012395 | .1046633 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3412.811 | 4258.693 | 68523.34 | 13358.83 | 5242.293 |
| Stddev    | 9.302    | 3.256    | 210.52   | 125.60   | 10.818   |
| %RSD      | .2725560 | .0764582 | .3072183 | .9402078 | .2063622 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3422.542 | 4255.208 | 68737.34 | 13365.46 | 5240.413 |
| #2 | 3411.885 | 4261.658 | 68516.19 | 13230.05 | 5253.928 |
| #3 | 3404.008 | 4259.214 | 68316.49 | 13480.99 | 5232.538 |

Sample Name: K2820-02      Acquired: 05/20/2019 14:58:59      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ14      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0077870 | .0029226 | .0014738 | -.001264 | -.002397 | .3745363 | .0529065 |
| Stddev | .0001817 | .0009381 | .0013303 | .001293  | .000989  | .0114312 | .0008129 |
| %RSD   | 2.332951 | 32.09755 | 90.26420 | 102.2908 | 41.24663 | 3.052091 | 1.536560 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0078903 | .0036515 | .0010953 | -.001124 | -.002311 | .3699490 | .0524356 |
| #2 | .0075772 | .0018642 | .0003738 | -.002621 | -.001455 | .3661112 | .0538452 |
| #3 | .0078935 | .0032522 | .0029523 | -.000047 | -.003427 | .3875486 | .0524388 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001022 | .0000441 | 21.77120 | .0002676 | -.000710 | -.000928 | .3873686 |
| Stddev | .0000611 | .0000990 | .09262   | .0003187 | .000318  | .000613  | .0042681 |
| %RSD   | 59.76871 | 224.5374 | .4254308 | 119.1005 | 44.74397 | 66.03379 | 1.101814 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001037 | .0001271 | 21.76982 | .0006080 | -.000352 | -.001122 | .3832263 |
| #2 | .0001626 | .0000705 | 21.67927 | -.000024 | -.000818 | -.000242 | .3871272 |
| #3 | .0000404 | -.000065 | 21.86450 | .000219  | -.000959 | -.001421 | .3917522 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0234400 | 5.476402 | .0013232 | .0002280 | 14.81936 | .0026098 | .0016098 |
| Stddev | .0002918 | .035032  | .0002188 | .0006135 | .11030   | .0009782 | .0007440 |
| %RSD   | 1.244808 | .6396870 | 16.53266 | 269.1140 | .7443281 | 37.48135 | 46.21640 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0236550 | 5.445834 | .0014629 | -.000458 | 14.77111 | .0032021 | .0024512 |
| #2 | .0235571 | 5.468741 | .0010711 | .000417  | 14.74141 | .0031467 | .0010390 |
| #3 | .0231078 | 5.514630 | .0014357 | .000725  | 14.94557 | .0014808 | .0013392 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.856347 | .0714514 | .0471252 | .0010605 | 5.674391 | 13.07262 | -.002740 |
| Stddev | .056305  | .0032848 | .0008161 | .0002066 | .016899  | .10245   | .000421  |
| %RSD   | 3.033123 | 4.597269 | 1.731816 | 19.48013 | .2978085 | .7836894 | 15.36112 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.825821 | .0739111 | .0479267 | .0009103 | 5.667566 | 12.95926 | -.002967 |
| #2 | 1.821898 | .0677211 | .0471539 | .0012961 | 5.661972 | 13.10002 | -.002254 |
| #3 | 1.921324 | .0727219 | .0462952 | .0009751 | 5.693635 | 13.15859 | -.002998 |



Sample Name: K2820-02      Acquired: 05/20/2019 14:58:59      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ14      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0145802 | -.017054 | .1232792 |
| Stddev | .0013851 | .001862  | .0000478 |
| %RSD   | 9.499538 | 10.91729 | .0388109 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0155012 | -.017676 | .1233344 |
| #2 | .0152520 | -.018525 | .1232547 |
| #3 | .0129873 | -.014960 | .1232486 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3406.978 | 4254.756 | 68680.02 | 13345.36 | 5197.843 |
| Stddev    | 2.374    | 9.561    | 276.29   | 56.36    | 13.314   |
| %RSD      | .0696863 | .2247146 | .4022925 | .4223055 | .2561395 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3406.400 | 4249.627 | 68376.00 | 13408.02 | 5203.958 |
| #2 | 3404.946 | 4265.787 | 68915.80 | 13329.27 | 5207.001 |
| #3 | 3409.588 | 4248.854 | 68748.25 | 13298.80 | 5182.570 |

Sample Name: K2820-01      Acquired: 05/20/2019 14:54:54      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ10      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0051716 | .0028121 | .0040091 | -.000974 | -.000797 | .6453974 | .0077778 |
| Stddev | .0025724 | .0017968 | .0017938 | .000635  | .000996  | .0027722 | .0004038 |
| %RSD   | 49.74077 | 63.89520 | 44.74297 | 65.19015 | 124.9526 | .4295308 | 5.191326 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0062548 | .0035028 | .0022167 | -.001200 | -.000967 | .6470736 | .0078631 |
| #2 | .0070253 | .0007724 | .0058043 | -.000257 | .000273  | .6421976 | .0073381 |
| #3 | .0022348 | .0041610 | .0040065 | -.001465 | -.001697 | .6469210 | .0081320 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001138 | .0001365 | 7.658230 | .0003796 | -.000333 | -.002764 | .7478668 |
| Stddev | .0000433 | .0000421 | .016773  | .0008107 | .000252  | .001098  | .0133289 |
| %RSD   | 38.04282 | 30.87384 | .2190194 | 213.5346 | 75.79561 | 39.72897 | 1.782251 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001636 | .0001477 | 7.643689 | -.000553 | -.000614 | -.002838 | .7531065 |
| #2 | .0000850 | .0000899 | 7.654421 | .000914  | -.000128 | -.001630 | .7327143 |
| #3 | .0000929 | .0001719 | 7.676580 | .000778  | -.000256 | -.003823 | .7577797 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0182521 | 2.353693 | .0011397 | -.000282 | 17.52603 | .0089701 | .0062076 |
| Stddev | .0003532 | .025182  | .0002435 | .000218  | .15146   | .0011680 | .0002541 |
| %RSD   | 1.935416 | 1.069887 | 21.36174 | 77.45393 | .8641916 | 13.02101 | 4.093831 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0181871 | 2.343027 | .0012455 | -.000159 | 17.67229 | .0084273 | .0064965 |
| #2 | .0186334 | 2.382453 | .0008613 | -.000534 | 17.36986 | .0081723 | .0060188 |
| #3 | .0179359 | 2.335599 | .0013124 | -.000153 | 17.53595 | .0103107 | .0061073 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.681900 | .0722284 | .0345808 | .0013930 | 3.138244 | 19.35906 | -.000625 |
| Stddev | .033943  | .0014918 | .0006558 | .0001305 | .014327  | .05933   | .001080  |
| %RSD   | 2.018108 | 2.065362 | 1.896299 | 9.370180 | .4565165 | .3064579 | 172.7361 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.720759 | .0716194 | .0338387 | .0012713 | 3.122035 | 19.37885 | .000187  |
| #2 | 1.658048 | .0711374 | .0348215 | .0013768 | 3.149213 | 19.29236 | -.001851 |
| #3 | 1.666891 | .0739283 | .0350822 | .0015308 | 3.143485 | 19.40595 | -.000212 |

Sample Name: K2820-01      Acquired: 05/20/2019 14:54:54      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ10      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0183722 | -.021364 | .0083936 |
| Stddev | .0003217 | .001321  | .0000793 |
| %RSD   | 1.750783 | 6.185403 | .9442846 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0187349 | -.021111 | .0083846 |
| #2 | .0182602 | -.022793 | .0083192 |
| #3 | .0181215 | -.020187 | .0084770 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3418.050 | 4280.053 | 68792.58 | 13382.93 | 5242.811 |
| Stddev    | 3.006    | 7.826    | 110.84   | 69.50    | 8.376    |
| %RSD      | .0879495 | .1828483 | .1611213 | .5192972 | .1597613 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3415.935 | 4288.252 | 68674.30 | 13393.41 | 5249.553 |
| #2 | 3416.725 | 4279.246 | 68894.05 | 13446.58 | 5233.434 |
| #3 | 3421.491 | 4272.662 | 68809.39 | 13308.78 | 5245.444 |

Sample Name: K2820-03      Acquired: 05/20/2019 15:03:03      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ15      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0216842 | .0047933 | .0422003 | -.005797 | -.001836 | 18.36185 | .0806422 |
| Stddev | .0002230 | .0003540 | .0023333 | .001265  | .001211  | .01796   | .0003281 |
| %RSD   | 1.028499 | 7.386208 | 5.529063 | 21.81986 | 65.98830 | .0978160 | .4068732 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0218159 | .0051722 | .0434720 | -.006234 | -.003231 | 18.37952 | .0802648 |
| #2 | .0218101 | .0047367 | .0395074 | -.004371 | -.001224 | 18.36242 | .0808600 |
| #3 | .0214268 | .0044709 | .0436214 | -.006785 | -.001052 | 18.34361 | .0808018 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0068267 | .0009493 | 19.45956 | .0081805 | .0059635 | .0194139 | 31.02770 |
| Stddev | .0000684 | .0000481 | .03864   | .0001931 | .0001524 | .0042149 | .07004   |
| %RSD   | 1.001570 | 5.066445 | .1985455 | 2.360233 | 2.555877 | 21.71065 | .2257285 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0067497 | .0010038 | 19.43024 | .0083532 | .0060675 | .0185856 | 30.95446 |
| #2 | .0068497 | .0009316 | 19.50334 | .0079721 | .0057886 | .0156746 | 31.09402 |
| #3 | .0068805 | .0009127 | 19.44510 | .0082163 | .0060345 | .0239814 | 31.03461 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .2461434 | 6.498167 | .0144488 | -.002788 | 126.3526 | .0449778 | .3652009 |
| Stddev | .0019583 | .014061  | .0002624 | .000397  | .4451    | .0036750 | .0040693 |
| %RSD   | .7956112 | .2163865 | 1.816351 | 14.22677 | .3522719 | 8.170637 | 1.114267 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .2467233 | 6.489146 | .0147257 | -.003242 | 126.8549 | .0415242 | .3613027 |
| #2 | .2477464 | 6.514369 | .0142038 | -.002505 | 126.0072 | .0488400 | .3694221 |
| #3 | .2439606 | 6.490987 | .0144169 | -.002619 | 126.1956 | .0445692 | .3648780 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.777377 | .5957011 | .2678351 | .0009881 | 27.11310 | 62.12312 | -.001126 |
| Stddev | .090007  | .0042384 | .0026753 | .0001723 | .05898   | .14377   | .000383  |
| %RSD   | 1.557916 | .7115018 | .9988485 | 17.43706 | .2175478 | .2314205 | 33.96821 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.685688 | .5967060 | .2647497 | .0007892 | 27.18081 | 62.07023 | -.001095 |
| #2 | 5.865601 | .5910506 | .2695094 | .0010858 | 27.07283 | 62.01330 | -.000761 |
| #3 | 5.780841 | .5993469 | .2692462 | .0010894 | 27.08567 | 62.28584 | -.001524 |

Sample Name: K2820-03      Acquired: 05/20/2019 15:03:03      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ15      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .1946978 | .0491738 | .0236432 |
| Stddev | .0017993 | .0016250 | .0001712 |
| %RSD   | .9241687 | 3.304547 | .7241317 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .1960886 | .0475293 | .0236851 |
| #2 | .1953391 | .0507785 | .0234550 |
| #3 | .1926656 | .0492136 | .0237896 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3574.742 | 4476.972 | 72120.40 | 14180.01 | 5171.954 |
| Stddev    | 1.783    | 6.671    | 282.76   | 55.94    | 8.878    |
| %RSD      | .0498818 | .1490139 | .3920630 | .3945111 | .1716593 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3576.649 | 4477.882 | 72148.79 | 14234.15 | 5170.903 |
| #2 | 3573.116 | 4483.141 | 71824.51 | 14183.47 | 5181.310 |
| #3 | 3574.462 | 4469.892 | 72387.88 | 14122.42 | 5163.648 |

Sample Name: K2820-04      Acquired: 05/20/2019 15:07:05      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ16      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0083360 | .0029618 | .0018984 | -.001253 | -.001630 | .0495871 | .0050996 |
| Stddev | .0018382 | .0015751 | .0013500 | .000587  | .000818  | .0106427 | .0005211 |
| %RSD   | 22.05135 | 53.18149 | 71.11311 | 46.82691 | 50.14677 | 21.46254 | 10.21957 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0078131 | .0035651 | .0029920 | -.000601 | -.000687 | .0575049 | .0053009 |
| #2 | .0068159 | .0041461 | .0023138 | -.001419 | -.002134 | .0537676 | .0045078 |
| #3 | .0103790 | .0011742 | .0003895 | -.001738 | -.002071 | .0374890 | .0054900 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001428 | .0000188 | 42.53872 | .0001892 | -.001082 | -.001046 | -.012488 |
| Stddev | .0000405 | .0001375 | .36882   | .0006620 | .000068  | .002990  | .003646  |
| %RSD   | 28.37029 | 732.5149 | .8670202 | 349.9328 | 6.325173 | 285.8030 | 29.19769 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001848 | .0001486 | 42.19724 | .0003894 | -.001012 | -.004110 | -.008649 |
| #2 | .0001398 | -.000125 | 42.92985 | .0007280 | -.001148 | -.000893 | -.015905 |
| #3 | .0001039 | .000033  | 42.48906 | -.000550 | -.001088 | .001865  | -.012909 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008524 | 7.294996 | .0009273 | .0003696 | 89.94055 | .0086982 | .0026348 |
| Stddev | .0002912 | .060268  | .0002448 | .0002151 | .41994   | .0013164 | .0012750 |
| %RSD   | 34.15844 | .8261599 | 26.39538 | 58.20738 | .4669123 | 15.13461 | 48.39046 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0006700 | 7.228703 | .0006822 | .0004643 | 89.72618 | .0090139 | .0012043 |
| #2 | .0011882 | 7.346477 | .0009280 | .0001234 | 90.42442 | .0072527 | .0030486 |
| #3 | .0006990 | 7.309809 | .0011717 | .0005212 | 89.67106 | .0098281 | .0036515 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.667398 | .1187962 | .1526864 | .0061522 | 26.12096 | 15.09273 | -.002519 |
| Stddev | .093300  | .0007406 | .0021445 | .0004686 | .01932   | .11432   | .000714  |
| %RSD   | 2.544039 | .6234130 | 1.404492 | 7.616769 | .0739717 | .7574218 | 28.34339 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.620034 | .1196181 | .1518092 | .0062764 | 26.12489 | 15.15763 | -.002066 |
| #2 | 3.607280 | .1185897 | .1511196 | .0065461 | 26.09998 | 14.96073 | -.002149 |
| #3 | 3.774879 | .1181807 | .1551304 | .0056339 | 26.13802 | 15.15982 | -.003341 |

Sample Name: K2820-04      Acquired: 05/20/2019 15:07:05      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ16      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0032608 | -.001584 | .0471773 |
| Stddev | .0010868 | .002920  | .0000106 |
| %RSD   | 33.32834 | 184.3429 | .0225382 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0025557 | -.002502 | .0471880 |
| #2 | .0045124 | .001685  | .0471771 |
| #3 | .0027144 | -.003935 | .0471667 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3387.247 | 4226.909 | 67929.31 | 13307.17 | 5212.204 |
| Stddev    | 21.693   | 11.389   | 503.56   | 31.26    | 10.907   |
| %RSD      | .6404301 | .2694509 | .7412973 | .2349019 | .2092500 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3408.332 | 4231.215 | 68297.32 | 13324.71 | 5217.823 |
| #2 | 3364.993 | 4213.995 | 67355.43 | 13325.71 | 5199.634 |
| #3 | 3388.415 | 4235.518 | 68135.17 | 13271.08 | 5219.156 |

Sample Name: K2820-06      Acquired: 05/20/2019 15:15:14      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ16S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0504289 | .0556834 | .0245770 | .0612927 | .1106151 | 1.941778 | 2.122200 |
| Stddev | .0005137 | .0017002 | .0027743 | .0012500 | .0003054 | .009135  | .005696  |
| %RSD   | 1.018617 | 3.053378 | 11.28825 | 2.039345 | .2760611 | .4704300 | .2684074 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0503079 | .0538477 | .0213737 | .0627039 | .1108029 | 1.938392 | 2.115626 |
| #2 | .0499865 | .0559982 | .0261487 | .0603247 | .1102628 | 1.952123 | 2.125665 |
| #3 | .0509923 | .0572042 | .0262086 | .0608495 | .1107797 | 1.934820 | 2.125308 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0560524 | .0545363 | 41.86060 | .2202129 | .5244418 | .2298998 | 1.089387 |
| Stddev | .0004756 | .0000405 | .11791   | .0013938 | .0016002 | .0029815 | .002107  |
| %RSD   | .8485516 | .0742521 | .2816733 | .6329243 | .3051233 | 1.296846 | .1933981 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0555404 | .0545382 | 41.73064 | .2191569 | .5251343 | .2264607 | 1.091499 |
| #2 | .0561365 | .0545759 | 41.96074 | .2217927 | .5255790 | .2317555 | 1.087286 |
| #3 | .0564805 | .0544949 | 41.89041 | .2196890 | .5226119 | .2314831 | 1.089375 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5294846 | 7.133550 | .5375367 | .0533640 | 88.62559 | .5430905 | .5281122 |
| Stddev | .0046172 | .057632  | .0013541 | .0001739 | .25762   | .0026800 | .0012019 |
| %RSD   | .8720241 | .8079046 | .2518992 | .3259246 | .2906800 | .4934775 | .2275879 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5247995 | 7.199267 | .5389022 | .0534776 | 88.38162 | .5460580 | .5273441 |
| #2 | .5340308 | 7.109766 | .5361944 | .0531638 | 88.89497 | .5408465 | .5294973 |
| #3 | .5296234 | 7.091615 | .5375137 | .0534506 | 88.60018 | .5423670 | .5274952 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 3.566011 | .1179256 | .1505947 | .0057695 | 25.53154 | 14.69145 | -.002596 |
| Stddev | .069795  | .0048777 | .0021827 | .0001454 | .02094   | .08352   | .000793  |
| %RSD   | 1.957215 | 4.136260 | 1.449356 | 2.520546 | .0820128 | .5684832 | 30.53639 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 3.485601 | .1167433 | .1483332 | .0057019 | 25.55311 | 14.60127 | -.003275 |
| #2 | 3.601540 | .1232858 | .1507622 | .0059365 | 25.51129 | 14.70696 | -.001725 |
| #3 | 3.610894 | .1137477 | .1526888 | .0056702 | 25.53022 | 14.76613 | -.002788 |



Sample Name: K2820-06      Acquired: 05/20/2019 15:15:14      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ16S      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0044405 | -.002775 | .0463602 |
| Stddev | .0008709 | .001637  | .0001305 |
| %RSD   | 19.61161 | 58.99764 | .2814216 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0051142 | -.003588 | .0462108 |
| #2 | .0047503 | -.000890 | .0464185 |
| #3 | .0034572 | -.003846 | .0464514 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3346.621 | 4217.600 | 67800.20 | 13307.61 | 5209.293 |
| Stddev    | 5.851    | 10.518   | 102.68   | 86.41    | 10.032   |
| %RSD      | .1748289 | .2493727 | .1514461 | .6493105 | .1925718 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3345.447 | 4217.971 | 67681.63 | 13407.32 | 5201.638 |
| #2 | 3341.445 | 4227.927 | 67859.51 | 13260.65 | 5220.650 |
| #3 | 3352.969 | 4206.902 | 67859.46 | 13254.84 | 5205.593 |

Sample Name: K2820-04LX5      Acquired: 05/20/2019 15:19:12      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ16L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0025784 | .0000705 | .0006131 | -.000951 | .0004633 | .0125392 | .0015500 |
| Stddev | .0023228 | .0006446 | .0011780 | .001246  | .0014150 | .0043268 | .0004164 |
| %RSD   | 90.09028 | 913.6729 | 192.1411 | 131.0854 | 305.4570 | 34.50612 | 26.86617 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0052207 | .0007901 | -.000743 | -.002340 | .0001418 | .0164120 | .0010838 |
| #2 | .0008583 | -.000124 | .001384  | .000069  | -.000763 | .0078693 | .0018851 |
| #3 | .0016560 | -.000454 | .001199  | -.000582 | .002011  | .0133363 | .0016812 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000007 | .0000470 | 8.653928 | .0002171 | -.000459 | -.001858 | -.023077 |
| Stddev | .000028  | .0002163 | .028278  | .0004104 | .000105  | .001256  | .002144  |
| %RSD   | 382.5385 | 460.4782 | .3267651 | 189.0018 | 22.97030 | 67.61889 | 9.292751 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000028 | .0002905 | 8.677142 | .0004795 | -.000391 | -.000614 | -.020856 |
| #2 | -.000018 | -.000123 | 8.662208 | -.000256 | -.000580 | -.003126 | -.023238 |
| #3 | .000024  | -.000027 | 8.622434 | .000428  | -.000405 | -.001833 | -.025136 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000431 | 1.505213 | -.000128 | .0001523 | 18.88850 | .0016581 | -.000577 |
| Stddev | .000244  | .020212  | .000278  | .0002399 | .28414   | .0032444 | .000721  |
| %RSD   | 56.55239 | 1.342819 | 217.1178 | 157.5160 | 1.504288 | 195.6687 | 125.0556 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000435 | 1.526209 | .000174  | -.000102 | 19.15505 | -.000597 | -.000785 |
| #2 | -.000185 | 1.503542 | -.000185 | .000183  | 18.58956 | .005376  | .000226  |
| #3 | -.000673 | 1.485888 | -.000373 | .000375  | 18.92089 | .000195  | -.001171 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5760206 | .0227931 | .0260684 | .0010282 | 5.148616 | 2.995461 | -.002337 |
| Stddev | .0750395 | .0010982 | .0004602 | .0001863 | .018594  | .001102  | .000969  |
| %RSD   | 13.02722 | 4.818122 | 1.765503 | 18.11573 | .3611516 | .0367931 | 41.44518 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .4893734 | .0215903 | .0264666 | .0009482 | 5.130801 | 2.994579 | -.002629 |
| #2 | .6196953 | .0237424 | .0261741 | .0008952 | 5.147145 | 2.995107 | -.003126 |
| #3 | .6189931 | .0230466 | .0255645 | .0012410 | 5.167902 | 2.996697 | -.001256 |

Sample Name: K2820-04LX5      Acquired: 05/20/2019 15:19:12      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ16L      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0019991 | .0010762 | .0095346 |
| Stddev | .0004240 | .0004025 | .0001521 |
| %RSD   | 21.20834 | 37.39887 | 1.595133 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0018161 | .0009360 | .0096934 |
| #2 | .0024838 | .0007625 | .0095203 |
| #3 | .0016974 | .0015300 | .0093902 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3279.852 | 4151.466 | 66272.65 | 13035.63 | 5117.712 |
| Stddev    | 4.322    | 9.072    | 250.42   | 47.88    | 2.793    |
| %RSD      | .1317714 | .2185290 | .3778569 | .3672641 | .0545788 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3277.783 | 4140.990 | 66072.91 | 12988.06 | 5115.163 |
| #2 | 3276.953 | 4156.656 | 66191.46 | 13035.01 | 5120.698 |
| #3 | 3284.819 | 4156.751 | 66553.59 | 13083.81 | 5117.276 |

Sample Name: K2820-07      Acquired: 05/20/2019 15:23:18      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ23      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0077742 | .0026404 | .0023462 | -.001606 | -.001763 | .0584806 | .0220887 |
| Stddev | .0023268 | .0020014 | .0003793 | .002121  | .001610  | .0049433 | .0006079 |
| %RSD   | 29.92938 | 75.79784 | 16.16543 | 132.0293 | 91.35375 | 8.452823 | 2.752264 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0076703 | .0047285 | .0020070 | -.001174 | .000097  | .0638507 | .0222913 |
| #2 | .0101511 | .0007388 | .0027557 | -.003910 | -.002686 | .0574709 | .0225694 |
| #3 | .0055011 | .0024540 | .0022760 | .000265  | -.002699 | .0541201 | .0214053 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000920 | .0000747 | 21.44169 | .0002754 | -.000881 | -.003000 | -.001406 |
| Stddev | .0000580 | .0000294 | .13282   | .0004591 | .000259  | .001096  | .011358  |
| %RSD   | 63.02795 | 39.38331 | .6194541 | 166.7226 | 29.38817 | 36.53494 | 807.8736 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000998 | .0000465 | 21.41880 | .0002502 | -.000590 | -.002689 | -.005804 |
| #2 | .0001457 | .0000723 | 21.58447 | .0007466 | -.001086 | -.002092 | -.009907 |
| #3 | .0000305 | .0001052 | 21.32180 | -.000171 | -.000967 | -.004217 | .011493  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0003540 | 5.922416 | .0006835 | .0005138 | 27.15222 | .0028772 | .0014469 |
| Stddev | .0002394 | .028533  | .0004530 | .0004275 | .22108   | .0006917 | .0007545 |
| %RSD   | 67.62308 | .4817810 | 66.27236 | 83.19462 | .8142290 | 24.03985 | 52.14881 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001437 | 5.892810 | .0011735 | .0009184 | 26.89814 | .0032625 | .0013097 |
| #2 | .0006145 | 5.949739 | .0005971 | .0005564 | 27.30068 | .0032904 | .0007704 |
| #3 | .0003037 | 5.924698 | .0002800 | .0000666 | 27.25785 | .0020787 | .0022606 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.409812 | .0253375 | .0877815 | .0027833 | 7.977646 | 8.542875 | -.002147 |
| Stddev | .012464  | .0024331 | .0011860 | .0002448 | .054124  | .030371  | .000194  |
| %RSD   | .5172179 | 9.602543 | 1.351032 | 8.795576 | .6784508 | .3555097 | 9.045303 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.401446 | .0236225 | .0880429 | .0028992 | 8.003191 | 8.522408 | -.002371 |
| #2 | 2.424137 | .0242679 | .0888149 | .0029487 | 8.014271 | 8.577771 | -.002037 |
| #3 | 2.403853 | .0281221 | .0864866 | .0025021 | 7.915477 | 8.528448 | -.002032 |

Sample Name: K2820-07      Acquired: 05/20/2019 15:23:18      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ23      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0025471 | -.012930 | .1067852 |
| Stddev | .0010138 | .001543  | .0003851 |
| %RSD   | 39.80300 | 11.93155 | .3605955 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0034827 | -.013339 | .1065786 |
| #2 | .0026888 | -.014227 | .1072294 |
| #3 | .0014699 | -.011224 | .1065475 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3385.429 | 4260.514 | 68189.01 | 13293.83 | 5240.960 |
| Stddev    | 24.359   | 4.957    | 233.98   | 83.16    | 6.961    |
| %RSD      | .7195142 | .1163546 | .3431273 | .6255470 | .1328184 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3368.730 | 4262.569 | 67939.87 | 13288.29 | 5247.704 |
| #2 | 3374.177 | 4264.114 | 68223.07 | 13213.58 | 5241.376 |
| #3 | 3413.379 | 4254.860 | 68404.09 | 13379.62 | 5233.801 |

Sample Name: K2820-08      Acquired: 05/20/2019 15:27:23      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ25      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0056056 | .0024608 | .0027568 | -.000333 | -.003364 | .2816309 | .0221853 |
| Stddev | .0013484 | .0012584 | .0021307 | .001232  | .001120  | .0024633 | .0003890 |
| %RSD   | 24.05518 | 51.13559 | 77.28679 | 369.8205 | 33.30661 | .8746584 | 1.753567 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0057986 | .0010828 | .0052040 | .001046  | -.004137 | .2838452 | .0219088 |
| #2 | .0068472 | .0035488 | .0013135 | -.000723 | -.003875 | .2820698 | .0226301 |
| #3 | .0041711 | .0027509 | .0017530 | -.001323 | -.002079 | .2789776 | .0220168 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000969 | .0000956 | 16.70424 | .0001672 | -.000724 | -.003473 | .2167549 |
| Stddev | .0000672 | .0000800 | .10780   | .0003794 | .000147  | .002077  | .0063156 |
| %RSD   | 69.35782 | 83.73811 | .6453689 | 226.9787 | 20.26597 | 59.79704 | 2.913690 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000913 | .0001879 | 16.81552 | .0005800 | -.000565 | -.005105 | .2239586 |
| #2 | .0000327 | .0000528 | 16.69691 | -.000166 | -.000754 | -.001135 | .2141365 |
| #3 | .0001667 | .0000459 | 16.60029 | .000088  | -.000853 | -.004179 | .2121697 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0026005 | 4.666582 | .0008835 | -.000141 | 20.49303 | .0041819 | .0014697 |
| Stddev | .0001775 | .046556  | .0002079 | .000189  | .05476   | .0005964 | .0010624 |
| %RSD   | 6.824077 | .9976560 | 23.52911 | 134.1036 | .2672302 | 14.26239 | 72.28303 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0027750 | 4.694310 | .0007390 | -.000069 | 20.55524 | .0035101 | .0002468 |
| #2 | .0026062 | 4.692603 | .0007897 | .000001  | 20.47175 | .0046494 | .0021641 |
| #3 | .0024202 | 4.612832 | .0011217 | -.000356 | 20.45209 | .0043860 | .0019983 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.035820 | .0303209 | .0666839 | .0019454 | 5.927761 | 10.29560 | -.002388 |
| Stddev | .096780  | .0018291 | .0007205 | .0002127 | .024717  | .06114   | .000743  |
| %RSD   | 4.753837 | 6.032387 | 1.080519 | 10.93452 | .4169754 | .5938935 | 31.13376 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.100050 | .0289622 | .0674686 | .0017296 | 5.899904 | 10.36475 | -.003029 |
| #2 | 1.924508 | .0296000 | .0665308 | .0019518 | 5.947068 | 10.27333 | -.002562 |
| #3 | 2.082902 | .0324006 | .0660521 | .0021549 | 5.936312 | 10.24870 | -.001573 |

Sample Name: K2820-08      Acquired: 05/20/2019 15:27:23      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ25      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0106970 | -.015362 | .0847059 |
| Stddev | .0012283 | .001988  | .0000311 |
| %RSD   | 11.48270 | 12.93945 | .0366812 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0095688 | -.013380 | .0846701 |
| #2 | .0120055 | -.017356 | .0847258 |
| #3 | .0105168 | -.015352 | .0847218 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3388.390 | 4265.747 | 68282.68 | 13305.82 | 5241.322 |
| Stddev    | 3.734    | 10.622   | 62.41    | 61.37    | 16.867   |
| %RSD      | .1102002 | .2490078 | .0913996 | .4612209 | .3218081 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3391.374 | 4253.922 | 68251.97 | 13235.54 | 5222.338 |
| #2 | 3384.203 | 4274.480 | 68354.50 | 13333.07 | 5254.581 |
| #3 | 3389.595 | 4268.839 | 68241.58 | 13348.84 | 5247.048 |

Sample Name: CCV029      Acquired: 05/20/2019 15:31:27      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCV029      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.082202 | 4.996659 | 24.93622 | 5.021205 | 5.034821 | 420.6636 | 10.21544 |
| Stddev | .007017  | .017657  | .06070   | .022340  | .015181  | 1.1684   | .01979   |
| %RSD   | .1380744 | .3533722 | .2434148 | .4449117 | .3015107 | .2777605 | .1936895 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.086448 | 5.002023 | 24.95129 | 5.031407 | 5.049751 | 421.0184 | 10.19660 |
| #2 | 5.086055 | 4.976943 | 24.86941 | 5.036623 | 5.035311 | 419.3589 | 10.23605 |
| #3 | 5.074102 | 5.011012 | 24.98797 | 4.995585 | 5.019402 | 421.6135 | 10.21366 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5138007 | 2.492356 | 424.1146 | 15.46004 | 2.538070 | 15.15898 | 426.9988 |
| Stddev | .0059273 | .003408  | 3.8534   | .01544   | .004805  | .00929   | 3.3741   |
| %RSD   | 1.153609 | .1367567 | .9085645 | .0998826 | .1893200 | .0612575 | .7901799 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5178550 | 2.491853 | 426.2889 | 15.46314 | 2.539396 | 15.14847 | 428.7864 |
| #2 | .5069981 | 2.489228 | 419.6656 | 15.44328 | 2.532741 | 15.16240 | 423.1071 |
| #3 | .5165488 | 2.495989 | 426.3895 | 15.47370 | 2.542073 | 15.16608 | 429.1029 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.21241 | 416.4256 | 2.526580 | 1.270294 | 418.2365 | 2.539868 | 14.66226 |
| Stddev | .16790   | 3.7156   | .006449  | .004792  | 2.9523   | .015913  | .11099   |
| %RSD   | 1.103706 | .8922618 | .2552533 | .3772272 | .7058829 | .6265189 | .7570092 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 15.31413 | 417.9741 | 2.528648 | 1.274316 | 419.4440 | 2.538400 | 14.55763 |
| #2 | 15.01861 | 412.1862 | 2.519350 | 1.264992 | 414.8718 | 2.524741 | 14.77868 |
| #3 | 15.30448 | 419.1166 | 2.531741 | 1.271574 | 420.3935 | 2.556464 | 14.65046 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 155.0227 | 5.316018 | 5.465350 | 5.036023 | 5.139434 | 4.956433 | 5.078900 |
| Stddev | .5678    | .018504  | .058559  | .004586  | .013356  | .059347  | .015441  |
| %RSD   | .3662732 | .3480840 | 1.071457 | .0910624 | .2598795 | 1.197364 | .3040129 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 155.0325 | 5.328166 | 5.502444 | 5.041139 | 5.146368 | 4.987627 | 5.095992 |
| #2 | 154.4501 | 5.294721 | 5.397842 | 5.034645 | 5.124037 | 4.887995 | 5.065961 |
| #3 | 155.5855 | 5.325166 | 5.495764 | 5.032283 | 5.147898 | 4.993677 | 5.074746 |



Sample Name: CCV029      Acquired: 05/20/2019 15:31:27      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCV029      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 5.047786 | 5.164805 | 5.132754 |
| Stddev | .010793  | .007805  | .073022  |
| %RSD   | .2138096 | .1511206 | 1.422661 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | 5.051838 | 5.160908 | 5.136884 |
| #2 | 5.035554 | 5.159715 | 5.057755 |
| #3 | 5.055967 | 5.173791 | 5.203623 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2789.647 | 3497.478 | 59401.38 | 11889.28 | 4127.061 |
| Stddev    | 10.401   | 7.988    | 53.05    | 112.41   | 7.004    |
| %RSD      | .3728299 | .2283832 | .0893049 | .9454715 | .1697176 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2801.371 | 3489.436 | 59460.17 | 11829.04 | 4120.404 |
| #2 | 2781.530 | 3497.586 | 59386.86 | 12018.97 | 4134.368 |
| #3 | 2786.039 | 3505.411 | 59357.09 | 11819.83 | 4126.410 |

Sample Name: CCB029      Acquired: 05/20/2019 15:35:19      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCB029      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0012283 | .0004718 | .0001022 | -.000566 | .0015205 | .0098449 | -.001735 |
| Stddev | .0033236 | .0019043 | .0010486 | .001590  | .0012932 | .0053534 | .000853  |
| %RSD   | 270.5888 | 403.6590 | 1026.584 | 281.0353 | 85.04809 | 54.37762 | 49.20076 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0035907 | .0019752 | .0006272 | .001084  | .0000368 | .0150507 | -.001895 |
| #2 | -.002572 | -.001670 | .0007845 | -.002088 | .0024080 | .0043551 | -.002496 |
| #3 | .002666  | .001110  | -.001105 | -.000694 | .0021167 | .0101289 | -.000812 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000123 | .0001923 | .0203143 | .0002997 | -.000290 | .0080849 | .0627931 |
| Stddev | .0000701 | .0000668 | .0091430 | .0011866 | .000337  | .0025416 | .0157832 |
| %RSD   | 568.9948 | 34.74107 | 45.00739 | 395.9487 | 116.4361 | 31.43695 | 25.13521 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000933 | .0002687 | .0246785 | -.000134 | -.000001 | .0105998 | .0659428 |
| #2 | -.000031 | .0001635 | .0098070 | .001642  | -.000661 | .0055174 | .0767639 |
| #3 | -.000025 | .0001447 | .0264574 | -.000609 | -.000207 | .0081375 | .0456725 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0043248 | .0233747 | -.001115 | -.000190 | -.026492 | -.001238 | .0014726 |
| Stddev | .0002759 | .0263444 | .000131  | .000362  | .168666  | .001945  | .0002926 |
| %RSD   | 6.378253 | 112.7047 | 11.75184 | 190.4070 | 636.6628 | 157.0820 | 19.86816 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0045787 | .0196579 | -.001095 | -.000241 | -.070067 | -.003009 | .0016248 |
| #2 | .0043646 | .0513801 | -.001255 | -.000524 | .159685  | -.001550 | .0016577 |
| #3 | .0040313 | -.000914 | -.000996 | .000195  | -.169095 | .000844  | .0011353 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0603398 | -.002386 | .0049712 | .0004910 | -.006074 | -.006619 | .0010192 |
| Stddev | .1278056 | .002675  | .0003105 | .0002548 | .002866  | .000422  | .0009181 |
| %RSD   | 211.8097 | 112.1297 | 6.246141 | 51.89708 | 47.18047 | 6.374133 | 90.08643 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1231832 | .000573  | .0053297 | .0005861 | -.007622 | -.006184 | .0015125 |
| #2 | .1445568 | -.003097 | .0047910 | .0006846 | -.002767 | -.006646 | -.000040 |
| #3 | -.086721 | -.004633 | .0047928 | .0002023 | -.007833 | -.007027 | .001585  |

Sample Name: CCB029      Acquired: 05/20/2019 15:35:19      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCB029      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0011344 | .0107105 | .0000700 |
| Stddev | .0022978 | .0023425 | .0000254 |
| %RSD   | 202.5613 | 21.87118 | 36.25414 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.001355 | .0117665 | .0000719 |
| #2 | .003175  | .0123390 | .0000943 |
| #3 | .001583  | .0080258 | .0000437 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3193.387 | 4012.247 | 64644.67 | 12518.25 | 4864.541 |
| Stddev    | 8.346    | 10.195   | 64.43    | 43.40    | 8.766    |
| %RSD      | .2613631 | .2540993 | .0996631 | .3467166 | .1802113 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3200.244 | 4002.000 | 64615.47 | 12549.02 | 4854.619 |
| #2 | 3184.094 | 4022.389 | 64600.02 | 12468.60 | 4871.240 |
| #3 | 3195.823 | 4012.352 | 64718.53 | 12537.11 | 4867.763 |

Sample Name: K2847-03      Acquired: 05/20/2019 15:39:26      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ08      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0080823 | .0022699 | .0045253 | -.002337 | .0003767 | .6679615 | .0363217 |
| Stddev | .0009477 | .0006603 | .0001335 | .002070  | .0011857 | .0059781 | .0003974 |
| %RSD   | 11.72590 | 29.08906 | 2.950736 | 88.55076 | 314.7773 | .8949731 | 1.094244 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0086595 | .0016204 | .0044053 | -.000192 | .0009906 | .6653341 | .0358633 |
| #2 | .0069885 | .0022489 | .0045014 | -.002497 | .0011295 | .6637470 | .0365703 |
| #3 | .0085990 | .0029405 | .0046692 | -.004323 | -.000990 | .6748032 | .0365315 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001306 | .0001640 | 14.79220 | .0012487 | -.000879 | .0013393 | .6706821 |
| Stddev | .0000820 | .0000318 | .05832   | .0008851 | .000208  | .0025868 | .0044521 |
| %RSD   | 62.73688 | 19.41635 | .3942887 | 70.88712 | 23.60558 | 193.1445 | .6638188 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001902 | .0001309 | 14.77106 | .0019652 | -.000706 | -.001465 | .6700393 |
| #2 | .0000372 | .0001944 | 14.85814 | .0015216 | -.000822 | .001850  | .6665863 |
| #3 | .0001645 | .0001667 | 14.74739 | .0002592 | -.001109 | .003633  | .6754206 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0127826 | 4.039799 | .0011073 | .0002350 | 11.50311 | .0049461 | .0081578 |
| Stddev | .0002870 | .034401  | .0002109 | .0003391 | .22988   | .0017552 | .0009870 |
| %RSD   | 2.245214 | .8515459 | 19.04878 | 144.2707 | 1.998441 | 35.48726 | 12.09833 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0128761 | 4.058514 | .0010679 | .0004526 | 11.24369 | .0029223 | .0072481 |
| #2 | .0130112 | 4.060786 | .0013352 | -.000156 | 11.58416 | .0060528 | .0092072 |
| #3 | .0124605 | 4.000098 | .0009189 | .000408  | 11.68150 | .0058632 | .0080182 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.045415 | .0715145 | .0393932 | .0009978 | 3.744452 | 13.77362 | -.002039 |
| Stddev | .086190  | .0016880 | .0008532 | .0002852 | .026930  | .03415   | .001292  |
| %RSD   | 4.213807 | 2.360319 | 2.165935 | 28.58775 | .7191969 | .2479098 | 63.35885 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.973635 | .0733343 | .0403555 | .0012996 | 3.744128 | 13.76392 | -.001877 |
| #2 | 2.141008 | .0700000 | .0390948 | .0009610 | 3.717685 | 13.81156 | -.000836 |
| #3 | 2.021603 | .0712094 | .0387292 | .0007327 | 3.771542 | 13.74537 | -.003404 |

Sample Name: K2847-03      Acquired: 05/20/2019 15:39:26      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ08      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0205874 | -.015091 | .0848655 |
| Stddev | .0008029 | .000865  | .0001298 |
| %RSD   | 3.899985 | 5.729451 | .1529392 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0213949 | -.014695 | .0847960 |
| #2 | .0197892 | -.016083 | .0850153 |
| #3 | .0205780 | -.014495 | .0847853 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3427.595 | 4281.113 | 68723.85 | 13336.15 | 5244.865 |
| Stddev    | 12.710   | 9.297    | 341.73   | 38.12    | 17.642   |
| %RSD      | .3708185 | .2171576 | .4972486 | .2858352 | .3363663 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3425.609 | 4282.851 | 68485.96 | 13351.17 | 5233.728 |
| #2 | 3441.181 | 4289.418 | 69115.44 | 13292.81 | 5265.205 |
| #3 | 3415.994 | 4271.070 | 68570.16 | 13364.47 | 5235.661 |

Sample Name: K2847-04      Acquired: 05/20/2019 15:43:31      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ01D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0047759 | .0022801 | .0023167 | -.001950 | -.001704 | .6354689 | .0363875 |
| Stddev | .0018356 | .0006027 | .0006963 | .001126  | .001273  | .0019098 | .0002373 |
| %RSD   | 38.43420 | 26.43310 | 30.05551 | 57.75293 | 74.73282 | .3005257 | .6520599 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0029635 | .0026523 | .0024000 | -.002066 | -.002663 | .6333074 | .0361576 |
| #2 | .0066337 | .0015848 | .0015826 | -.000770 | -.000259 | .6369281 | .0363733 |
| #3 | .0047304 | .0026034 | .0029677 | -.003014 | -.002188 | .6361712 | .0366315 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001097 | .0001535 | 14.82631 | -.000159 | -.000401 | -.001162 | .6386023 |
| Stddev | .0000426 | .0000863 | .10618   | .000425  | .000131  | .000432  | .0076067 |
| %RSD   | 38.84876 | 56.20838 | .7161326 | 267.3767 | 32.74198 | 37.17136 | 1.191155 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001386 | .0002019 | 14.72903 | -.000213 | -.000520 | -.001561 | .6469767 |
| #2 | .0001297 | .0000539 | 14.81031 | -.000554 | -.000260 | -.001222 | .6321205 |
| #3 | .0000608 | .0002047 | 14.93957 | .000290  | -.000422 | -.000703 | .6367098 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0125509 | 4.034791 | .0008432 | -.000119 | 11.20950 | .0017073 | .0060617 |
| Stddev | .0002323 | .044697  | .0003659 | .000147  | .37107   | .0010457 | .0005745 |
| %RSD   | 1.851208 | 1.107789 | 43.39708 | 123.1226 | 3.310359 | 61.24676 | 9.477896 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0126822 | 3.987372 | .0007954 | .000041  | 11.63139 | .0029146 | .0063807 |
| #2 | .0122826 | 4.040857 | .0005035 | -.000246 | 11.06337 | .0010873 | .0053985 |
| #3 | .0126879 | 4.076146 | .0012306 | -.000152 | 10.93373 | .0011200 | .0064060 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.103861 | .0708429 | .0383192 | .0005586 | 3.778999 | 13.75353 | -.002317 |
| Stddev | .060385  | .0010454 | .0010308 | .0001410 | .041534  | .06849   | .000694  |
| %RSD   | 2.870215 | 1.475707 | 2.689986 | 25.24803 | 1.099083 | .4979699 | 29.94085 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.038102 | .0696811 | .0394171 | .0006960 | 3.757815 | 13.68819 | -.002718 |
| #2 | 2.116660 | .0711399 | .0381685 | .0005657 | 3.752328 | 13.74760 | -.002717 |
| #3 | 2.156821 | .0717077 | .0373722 | .0004142 | 3.826854 | 13.82479 | -.001516 |

Sample Name: K2847-04      Acquired: 05/20/2019 15:43:31      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ01D      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0196219 | -.013984 | .0848119 |
| Stddev | .0010610 | .000732  | .0001552 |
| %RSD   | 5.407192 | 5.236629 | .1830257 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0189307 | -.013234 | .0848515 |
| #2 | .0190916 | -.014021 | .0849434 |
| #3 | .0208435 | -.014697 | .0846407 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3417.374 | 4260.079 | 68650.40 | 13263.59 | 5213.868 |
| Stddev    | 14.978   | 16.326   | 284.26   | 108.43   | 13.873   |
| %RSD      | .4382988 | .3832360 | .4140671 | .8174691 | .2660758 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3422.100 | 4276.582 | 68863.64 | 13369.67 | 5228.461 |
| #2 | 3429.419 | 4259.721 | 68759.88 | 13268.14 | 5212.293 |
| #3 | 3400.603 | 4243.936 | 68327.68 | 13152.96 | 5200.849 |

Sample Name: K2847-03LX5      Acquired: 05/20/2019 15:51:32      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ08L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0030394 | .0012538 | .0004738 | -.000675 | -.001665 | .1208330 | .0066088 |
| Stddev | .0025896 | .0021154 | .0018453 | .003727  | .000080  | .0010573 | .0010405 |
| %RSD   | 85.20116 | 168.7175 | 389.4776 | 552.0297 | 4.785857 | .8750122 | 15.74355 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0010508 | .0025894 | .0001922 | .003475  | -.001660 | .1218638 | .0065805 |
| #2 | .0059675 | .0023571 | -.001215 | -.003736 | -.001588 | .1197511 | .0076631 |
| #3 | .0020997 | -.001185 | .002444  | -.001763 | -.001748 | .1208840 | .0055828 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000780 | .0001422 | 2.978794 | -.000156 | -.000262 | -.001551 | .1192551 |
| Stddev | .0000300 | .0001248 | .026435  | .000260  | .000223  | .003095  | .0032363 |
| %RSD   | 38.53433 | 87.70830 | .8874445 | 166.9488 | 85.09416 | 199.5947 | 2.713741 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000447 | .0002697 | 2.952227 | -.000250 | -.000245 | -.000473 | .1170021 |
| #2 | .0000861 | .0000204 | 3.005095 | -.000356 | -.000048 | .000861  | .1229635 |
| #3 | .0001031 | .0001367 | 2.979062 | .000138  | -.000493 | -.005041 | .1177996 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0023399 | .7971094 | -.000143 | .0001054 | 2.102473 | .0020608 | .0006808 |
| Stddev | .0004651 | .0234459 | .000510  | .0005946 | .116109  | .0010765 | .0009234 |
| %RSD   | 19.87714 | 2.941368 | 355.5576 | 564.0578 | 5.522519 | 52.23795 | 135.6408 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0024593 | .7703143 | -.000644 | -.000549 | 2.234794 | .0024957 | -.000378 |
| #2 | .0027337 | .8071565 | .000376  | .000612  | 2.017608 | .0028518 | .001098  |
| #3 | .0018268 | .8138576 | -.000162 | .000254  | 2.055018 | .0008349 | .001322  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1263416 | .0124477 | .0030124 | -.000233 | .7480154 | 2.737474 | -.001960 |
| Stddev | .0138236 | .0001900 | .0007304 | .000227  | .0064857 | .013718  | .000261  |
| %RSD   | 10.94143 | 1.526252 | 24.24620 | 97.70553 | .8670586 | .5011299 | 13.32981 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1358238 | .0122533 | .0038185 | -.000390 | .7543820 | 2.752714 | -.001698 |
| #2 | .1104803 | .0126330 | .0028242 | .000028  | .7414167 | 2.733596 | -.002220 |
| #3 | .1327206 | .0124568 | .0023945 | -.000336 | .7482475 | 2.726112 | -.001961 |



Sample Name: K2847-03LX5      Acquired: 05/20/2019 15:51:32      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ08L      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0055401 | -.008789 | .0171400 |
| Stddev | .0022291 | .001836  | .0001426 |
| %RSD   | 40.23529 | 20.88448 | .8317551 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0069363 | -.007410 | .0169789 |
| #2 | .0029694 | -.008085 | .0172498 |
| #3 | .0067147 | -.010873 | .0171913 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3255.075 | 4099.621 | 65880.78 | 12885.66 | 5008.431 |
| Stddev    | 10.754   | 19.324   | 260.40   | 67.35    | 13.388   |
| %RSD      | .3303629 | .4713660 | .3952612 | .5226557 | .2673050 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3259.744 | 4077.970 | 65619.70 | 12825.50 | 4993.164 |
| #2 | 3242.776 | 4105.775 | 65882.15 | 12873.07 | 5018.168 |
| #3 | 3262.705 | 4115.119 | 66140.50 | 12958.42 | 5013.960 |

Sample Name: K2847-05      Acquired: 05/20/2019 15:47:35      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ01S      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0467386 | .0557015 | .0240124 | .0582271 | .1029921 | 2.510736 | 2.176723 |
| Stddev | .0011347 | .0007965 | .0013694 | .0010093 | .0013493 | .002554  | .004248  |
| %RSD   | 2.427704 | 1.429987 | 5.702852 | 1.733357 | 1.310141 | .1017345 | .1951500 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0473794 | .0558592 | .0247744 | .0576318 | .1045463 | 2.512600 | 2.178038 |
| #2 | .0474078 | .0564074 | .0248312 | .0593924 | .1023105 | 2.507824 | 2.180158 |
| #3 | .0454285 | .0548380 | .0224315 | .0576570 | .1021196 | 2.511783 | 2.171973 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0569582 | .0563651 | 14.60178 | .2241604 | .5361725 | .2316493 | 1.734658 |
| Stddev | .0003567 | .0000488 | .06159   | .0013096 | .0002639 | .0030767 | .009264  |
| %RSD   | .6262899 | .0865974 | .4218231 | .5842353 | .0492174 | 1.328190 | .5340646 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0573688 | .0563215 | 14.64610 | .2227401 | .5362537 | .2340287 | 1.734564 |
| #2 | .0567806 | .0564178 | 14.53145 | .2253201 | .5363862 | .2327444 | 1.725442 |
| #3 | .0567251 | .0563561 | 14.62781 | .2244210 | .5358775 | .2281748 | 1.743969 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5472463 | 3.993882 | .5516328 | .0528975 | 11.22304 | .5434708 | .5196624 |
| Stddev | .0027832 | .035947  | .0011082 | .0005379 | .27938   | .0017445 | .0079091 |
| %RSD   | .5085809 | .9000413 | .2008965 | 1.016794 | 2.489370 | .3209885 | 1.521973 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5499850 | 3.976716 | .5505204 | .0534761 | 11.54505 | .5451864 | .5115754 |
| #2 | .5444206 | 3.969737 | .5516414 | .0524128 | 11.04512 | .5416988 | .5200311 |
| #3 | .5473333 | 4.035194 | .5527367 | .0528035 | 11.07894 | .5435271 | .5273807 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.816994 | .0699533 | .0393120 | .0007313 | 3.716516 | 13.43760 | -.002491 |
| Stddev | .037476  | .0014725 | .0013479 | .0001975 | .015975  | .05287   | .000150  |
| %RSD   | 2.062544 | 2.104964 | 3.428649 | 27.01028 | .4298427 | .3934387 | 6.001933 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.847817 | .0683954 | .0404278 | .0005260 | 3.712264 | 13.49839 | -.002621 |
| #2 | 1.827886 | .0713221 | .0396937 | .0009200 | 3.734187 | 13.40239 | -.002328 |
| #3 | 1.775278 | .0701424 | .0378144 | .0007478 | 3.703097 | 13.41202 | -.002525 |

Sample Name: K2847-05      Acquired: 05/20/2019 15:47:35      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ01S      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0196125 | -.020920 | .0835460 |
| Stddev | .0005992 | .001330  | .0004111 |
| %RSD   | 3.055065 | 6.355340 | .4920935 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0192763 | -.021414 | .0840164 |
| #2 | .0192570 | -.021932 | .0832554 |
| #3 | .0203043 | -.019414 | .0833662 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3387.608 | 4255.696 | 68366.73 | 13306.51 | 5210.113 |
| Stddev    | 21.661   | 12.048   | 136.52   | 64.13    | 12.072   |
| %RSD      | .6394267 | .2831112 | .1996934 | .4819698 | .2316983 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3405.301 | 4254.259 | 68439.20 | 13244.33 | 5209.589 |
| #2 | 3394.072 | 4244.430 | 68451.74 | 13372.44 | 5198.311 |
| #3 | 3363.450 | 4268.398 | 68209.25 | 13302.77 | 5222.438 |

Sample Name: K2849-03      Acquired: 05/20/2019 15:59:46      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ37D      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0033745 | .0018862 | -.000372 | -.001833 | -.001998 | -.006414 | -.000183 |
| Stddev | .0013646 | .0018464 | .002183  | .001332  | .001326  | .005709  | .000466  |
| %RSD   | 40.43849 | 97.88874 | 587.3172 | 72.64993 | 66.36931 | 89.00437 | 254.7706 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0039975 | .0039452 | .001072  | -.002717 | -.003424 | -.000139 | -.000370 |
| #2 | .0043163 | .0013361 | -.002883 | -.002482 | -.000802 | -.007802 | -.000525 |
| #3 | .0018096 | .0003774 | .000696  | -.000301 | -.001768 | -.011301 | .000347  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000701 | .0000798 | .0461460 | .0001246 | -.000170 | -.002799 | -.053450 |
| Stddev | .0000289 | .0000093 | .0091250 | .0003224 | .000216  | .001308  | .005200  |
| %RSD   | 41.27887 | 11.67435 | 19.77429 | 258.7439 | 126.8845 | 46.70540 | 9.728303 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000383 | .0000806 | .0566564 | .0004342 | -.000263 | -.001733 | -.059394 |
| #2 | .0000950 | .0000702 | .0402474 | -.000209 | -.000323 | -.004258 | -.051213 |
| #3 | .0000771 | .0000888 | .0415341 | .000149  | .000077  | -.002408 | -.049743 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000565 | .0260780 | -.000100 | -.000041 | -.215680 | -.003159 | .0037248 |
| Stddev | .000361  | .0189280 | .000148  | .000298  | .354751  | .002501  | .0016864 |
| %RSD   | 64.00066 | 72.58230 | 148.8101 | 727.9554 | 164.4800 | 79.17745 | 45.27408 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000276 | .0138486 | .000062  | .000278  | -.619326 | -.001436 | .0030397 |
| #2 | -.000970 | .0478803 | -.000130 | -.000089 | .046563  | -.006028 | .0056459 |
| #3 | -.000448 | .0165051 | -.000230 | -.000312 | -.074277 | -.002013 | .0024888 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.834853 | -.002330 | -.006437 | -.000616 | -.005010 | .0173921 | -.002141 |
| Stddev | .039393  | .000515  | .000520  | .000113  | .000538  | .0002189 | .000964  |
| %RSD   | 4.718588 | 22.10622 | 8.073400 | 18.31693 | 10.72884 | 1.258507 | 45.02443 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.864161 | -.002510 | -.005925 | -.000746 | -.004635 | .0173384 | -.001515 |
| #2 | -.850325 | -.001749 | -.006422 | -.000563 | -.004770 | .0172051 | -.001657 |
| #3 | -.790072 | -.002732 | -.006964 | -.000540 | -.005626 | .0176329 | -.003251 |

Sample Name: K2849-03      Acquired: 05/20/2019 15:59:46      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ37D      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0001552 | -.019337 | -.000021 |
| Stddev | .0008676 | .001255  | .000055  |
| %RSD   | 559.0306 | 6.489626 | 260.0276 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.000366 | -.019988 | -.000064 |
| #2 | .001157  | -.017890 | -.000040 |
| #3 | -.000326 | -.020132 | .000041  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3431.072 | 4269.287 | 68690.00 | 13284.28 | 5090.051 |
| Stddev    | 13.444   | 14.236   | 235.75   | 82.68    | 11.733   |
| %RSD      | .3918439 | .3334590 | .3432071 | .6223821 | .2305049 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3421.887 | 4285.369 | 68449.52 | 13234.18 | 5102.470 |
| #2 | 3446.503 | 4264.196 | 68920.71 | 13379.71 | 5079.152 |
| #3 | 3424.825 | 4258.296 | 68699.77 | 13238.95 | 5088.531 |

Sample Name: K2849-02      Acquired: 05/20/2019 15:55:38      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ37      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001177 | .0010978 | -.000448 | -.004309 | -.003633 | -.011500 | .0018809 |
| Stddev | .0017128 | .0018954 | .002203  | .001255  | .000557  | .007771  | .0004906 |
| %RSD   | 1455.383 | 172.6576 | 492.3286 | 29.11521 | 15.34605 | 67.57585 | 26.08212 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0012896 | .0026049 | .001621  | -.002892 | -.003975 | -.009342 | .0021191 |
| #2 | -.001848 | .0017188 | -.002765 | -.005279 | -.003934 | -.005036 | .0022070 |
| #3 | .000911  | -.001030 | -.000199 | -.004756 | -.002989 | -.020122 | .0013167 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001338 | .0000928 | .0467879 | -.000013 | -.000129 | -.001780 | -.049967 |
| Stddev | .0000353 | .0000396 | .0036630 | .000357  | .000148  | .001662  | .003849  |
| %RSD   | 26.40039 | 42.63842 | 7.828891 | 2734.861 | 114.6277 | 93.39604 | 7.703537 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001205 | .0000588 | .0450553 | -.000064 | .000033  | -.003649 | -.052306 |
| #2 | .0001070 | .0001362 | .0509957 | .000366  | -.000165 | -.000470 | -.052071 |
| #3 | .0001738 | .0000834 | .0443126 | -.000342 | -.000257 | -.001219 | -.045525 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000439 | .0119569 | -.000531 | .0001671 | .0830342 | -.002283 | .0034654 |
| Stddev | .000450  | .0219489 | .000599  | .0001317 | .2105172 | .002953  | .0016595 |
| %RSD   | 102.4621 | 183.5667 | 112.8595 | 78.80685 | 253.5306 | 129.3570 | 47.88772 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .000029  | .0368791 | .000021  | .0000572 | .1687569 | .000423  | .0041482 |
| #2 | -.000479 | .0034855 | -.000446 | .0003130 | -.156820 | -.001839 | .0046746 |
| #3 | -.000869 | -.004494 | -.001169 | .0001310 | .237166  | -.005433 | .0015734 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.02134 | -.003587 | -.007136 | -.000663 | -.005297 | .0182326 | -.002043 |
| Stddev | .07519   | .000866  | .001017  | .000162  | .005606  | .0014980 | .000874  |
| %RSD   | 7.362356 | 24.15241 | 14.25166 | 24.42605 | 105.8354 | 8.216194 | 42.78262 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.93725  | -.004472 | -.006685 | -.000497 | -.005743 | .0167338 | -.001483 |
| #2 | -1.08211 | -.002740 | -.006423 | -.000673 | .000519  | .0197298 | -.003050 |
| #3 | -1.04466 | -.003548 | -.008300 | -.000820 | -.010666 | .0182341 | -.001596 |

Sample Name: K2849-02      Acquired: 05/20/2019 15:55:38      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ37      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000519 | -.026399 | -.000009 |
| Stddev | .000745  | .001366  | .000050  |
| %RSD   | 143.5924 | 5.174921 | 557.7671 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.000012 | -.026229 | -.000065 |
| #2 | -.001375 | -.027843 | .000031  |
| #3 | -.000171 | -.025126 | .000007  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3416.588 | 4289.274 | 68621.64 | 13345.09 | 5110.207 |
| Stddev    | 18.726   | 7.777    | 258.04   | 69.80    | 3.052    |
| %RSD      | .5480865 | .1813136 | .3760393 | .5230685 | .0597215 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3427.399 | 4281.533 | 68882.31 | 13285.60 | 5106.859 |
| #2 | 3427.399 | 4289.203 | 68616.32 | 13327.74 | 5112.833 |
| #3 | 3394.965 | 4297.086 | 68366.30 | 13421.94 | 5110.930 |

Sample Name: K2849-04      Acquired: 05/20/2019 16:03:54      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ37S      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0406114 | .0535563 | .0220054 | .0540360 | .1103645 | 1.895489 | 2.125435 |
| Stddev | .0024563 | .0007118 | .0010735 | .0021872 | .0027236 | .019828  | .004779  |
| %RSD   | 6.048188 | 1.329145 | 4.878121 | 4.047719 | 2.467820 | 1.046045 | .2248323 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0409744 | .0527697 | .0231861 | .0539030 | .1080291 | 1.894635 | 2.124353 |
| #2 | .0379939 | .0541561 | .0217417 | .0519184 | .1097080 | 1.915730 | 2.130662 |
| #3 | .0428660 | .0537431 | .0210883 | .0562867 | .1133563 | 1.876102 | 2.121290 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0564333 | .0586449 | .0473728 | .2237321 | .5529977 | .2284565 | 1.078305 |
| Stddev | .0004860 | .0007575 | .0128876 | .0007129 | .0067962 | .0039580 | .010914  |
| %RSD   | .8612155 | 1.291741 | 27.20468 | .3186199 | 1.228973 | 1.732499 | 1.012172 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0563779 | .0583210 | .0477505 | .2245502 | .5497542 | .2262669 | 1.068794 |
| #2 | .0569446 | .0581031 | .0600674 | .2232438 | .5484310 | .2330255 | 1.090222 |
| #3 | .0559774 | .0595105 | .0343005 | .2234024 | .5608081 | .2260771 | 1.075901 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5388743 | -.000395 | .5661128 | .0520316 | .0675717 | .5415931 | .5100714 |
| Stddev | .0102759 | .028418  | .0067989 | .0010114 | .0732970 | .0033722 | .0058722 |
| %RSD   | 1.906921 | 7185.850 | 1.200973 | 1.943829 | 108.4729 | .6226456 | 1.151261 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5417634 | -.008319 | .5620323 | .0529280 | .0049979 | .5416217 | .5153018 |
| #2 | .5473964 | .031144  | .5623447 | .0522318 | .0495044 | .5449510 | .5037192 |
| #3 | .5274631 | -.024011 | .5739614 | .0509351 | .1482128 | .5382068 | .5111932 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.861865 | -.004008 | -.005048 | -.000745 | -.004236 | .0158595 | -.002079 |
| Stddev | .072112  | .002767  | .000450  | .000066  | .003958  | .0010039 | .000362  |
| %RSD   | 8.366959 | 69.03600 | 8.919018 | 8.926830 | 93.43635 | 6.329742 | 17.42581 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.790752 | -.007079 | -.004704 | -.000672 | -.007931 | .0147990 | -.001843 |
| #2 | -.934936 | -.001711 | -.004882 | -.000803 | -.004718 | .0167951 | -.002496 |
| #3 | -.859907 | -.003233 | -.005558 | -.000759 | -.000059 | .0159845 | -.001898 |



Sample Name: K2849-04      Acquired: 05/20/2019 16:03:54      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ37S      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000995 | -.020216 | .0000581 |
| Stddev | .000609  | .000699  | .0000617 |
| %RSD   | 61.22371 | 3.459811 | 106.3051 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.001698 | -.020006 | .0001290 |
| #2 | -.000657 | -.020996 | .0000287 |
| #3 | -.000630 | -.019645 | .0000165 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3404.146 | 4233.040 | 68353.78 | 13233.06 | 5053.104 |
| Stddev    | 8.937    | 64.182   | 142.62   | 135.64   | 59.665   |
| %RSD      | .2625318 | 1.516225 | .2086448 | 1.025025 | 1.180766 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3401.019 | 4276.438 | 68201.91 | 13253.79 | 5094.726 |
| #2 | 3397.192 | 4263.368 | 68374.58 | 13088.24 | 5079.840 |
| #3 | 3414.226 | 4159.314 | 68484.86 | 13357.14 | 4984.747 |

Sample Name: K2849-02LX5      Acquired: 05/20/2019 16:07:55      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ37L      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0005994 | -.000318 | -.000533 | .0007021 | -.000422 | .0006204 | -.001608 |
| Stddev | .0026488 | .001999  | .000663  | .0043614 | .001316  | .0066002 | .000596  |
| %RSD   | 441.8994 | 629.1638 | 124.4220 | 621.1887 | 312.2268 | 1063.858 | 37.04912 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0024796 | .000132  | .000193  | .0026953 | -.001302 | -.006774 | -.002121 |
| #2 | .0017485 | -.002503 | -.001107 | -.004300 | -.001054 | .002718  | -.000955 |
| #3 | -.002430 | .001418  | -.000685 | .003711  | .001092  | .005917  | -.001747 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000035 | .0001224 | .0146791 | -.000403 | -.000052 | -.004604 | -.036115 |
| Stddev | .000035  | .0000638 | .0134921 | .001471  | .000348  | .002216  | .005040  |
| %RSD   | 98.81810 | 52.11723 | 91.91371 | 365.1837 | 666.8442 | 48.14465 | 13.95595 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .000005  | .0000622 | .0058974 | .000344  | .000218  | -.002078 | -.032470 |
| #2 | -.000058 | .0001892 | .0302144 | -.002098 | .000070  | -.005509 | -.034008 |
| #3 | -.000052 | .0001157 | .0079256 | .000545  | -.000445 | -.006224 | -.041866 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000142 | .0063016 | -.000715 | -.000041 | -.000243 | -.002775 | .0030675 |
| Stddev | .000042  | .0155179 | .000275  | .000193  | .196622  | .000705  | .0015484 |
| %RSD   | 29.78410 | 246.2520 | 38.50664 | 470.2012 | 80942.24 | 25.40229 | 50.47743 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000175 | .0181017 | -.000414 | .000123  | -.021189 | -.003237 | .0038183 |
| #2 | -.000094 | -.011276 | -.000954 | .000007  | .206013  | -.001964 | .0040973 |
| #3 | -.000157 | .012080  | -.000776 | -.000253 | -.185553 | -.003124 | .0012868 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.339551 | -.001634 | -.006467 | -.000465 | -.005706 | -.002679 | -.002269 |
| Stddev | .030297  | .002831  | .001493  | .000415  | .001029  | .001326  | .000315  |
| %RSD   | 8.922821 | 173.2764 | 23.08449 | 89.28285 | 18.03115 | 49.48984 | 13.89464 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.361596 | .001621  | -.005778 | -.000927 | -.005315 | -.003265 | -.002616 |
| #2 | -.352054 | -.003524 | -.005444 | -.000343 | -.004930 | -.003611 | -.002193 |
| #3 | -.305003 | -.002999 | -.008180 | -.000125 | -.006873 | -.001161 | -.001999 |

Sample Name: K2849-02LX5      Acquired: 05/20/2019 16:07:55      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ37L      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0008781 | -.005812 | -.000130 |
| Stddev | .0010871 | .001394  | .000095  |
| %RSD   | 123.8005 | 23.99203 | 73.41830 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.000272 | -.006130 | -.000232 |
| #2 | .001018  | -.004287 | -.000111 |
| #3 | .001888  | -.007021 | -.000045 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3258.941 | 4103.858 | 65870.74 | 12731.73 | 4983.316 |
| Stddev    | 14.904   | 12.475   | 109.49   | 48.38    | 2.559    |
| %RSD      | .4573169 | .3039752 | .1662265 | .3800089 | .0513426 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3249.252 | 4110.825 | 65897.40 | 12785.68 | 4986.034 |
| #2 | 3251.469 | 4111.294 | 65750.37 | 12692.20 | 4980.955 |
| #3 | 3276.103 | 4089.456 | 65964.44 | 12717.31 | 4982.958 |

Sample Name: K2820-09      Acquired: 05/20/2019 16:12:04      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ26      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0085865 | .0034344 | .0014482 | .0002565 | -.002685 | .0180427 | .0213866 |
| Stddev | .0017246 | .0022806 | .0017503 | .0003960 | .000611  | .0037747 | .0010895 |
| %RSD   | 20.08507 | 66.40314 | 120.8631 | 154.3883 | 22.73861 | 20.92089 | 5.094554 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0071586 | .0010108 | .0016165 | .0005590 | -.002523 | .0174846 | .0209200 |
| #2 | .0080983 | .0037544 | .0031083 | .0004021 | -.003360 | .0145781 | .0226318 |
| #3 | .0105026 | .0055381 | -.000380 | -.000192 | -.002172 | .0220653 | .0206081 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000226 | .0001031 | 24.43344 | .0003492 | -.000901 | -.005887 | -.030830 |
| Stddev | .0000432 | .0000347 | .26853   | .0002376 | .000208  | .000810  | .005592  |
| %RSD   | 191.6552 | 33.69060 | 1.099011 | 68.03360 | 23.08008 | 13.75934 | 18.13715 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000027 | .0001134 | 24.21277 | .0001187 | -.000958 | -.006756 | -.027132 |
| #2 | .000055  | .0000644 | 24.73242 | .0005932 | -.000670 | -.005755 | -.037263 |
| #3 | .000040  | .0001315 | 24.35513 | .0003357 | -.001073 | -.005152 | -.028096 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0016268 | 6.787186 | .0003168 | .0000446 | 32.21236 | .0022504 | .0011867 |
| Stddev | .0006307 | .064322  | .0004436 | .0004189 | .06653   | .0020632 | .0004738 |
| %RSD   | 38.76827 | .9476952 | 140.0143 | 940.0456 | .2065322 | 91.68279 | 39.92702 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0013805 | 6.747881 | -.000153 | -.000438 | 32.28535 | .0004035 | .0009447 |
| #2 | .0023435 | 6.861415 | .000729  | .000260  | 32.19663 | .0018705 | .0008828 |
| #3 | .0011565 | 6.752261 | .000375  | .000312  | 32.15512 | .0044771 | .0017327 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.962458 | .0542085 | .1051388 | .0034537 | 9.209324 | 7.759923 | -.003143 |
| Stddev | .064529  | .0010248 | .0008137 | .0001164 | .040017  | .084426  | .000576  |
| %RSD   | 2.178240 | 1.890462 | .7739413 | 3.371608 | .4345260 | 1.087971 | 18.31413 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.897198 | .0530459 | .1046357 | .0033746 | 9.208364 | 7.673639 | -.003807 |
| #2 | 3.026232 | .0549805 | .1060776 | .0035874 | 9.169795 | 7.842358 | -.002828 |
| #3 | 2.963944 | .0545993 | .1047030 | .0033990 | 9.249812 | 7.763773 | -.002794 |

Sample Name: K2820-09      Acquired: 05/20/2019 16:12:04      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ26      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0008568 | -.003788 | .1204467 |
| Stddev | .0016781 | .000786  | .0001442 |
| %RSD   | 195.8506 | 20.75648 | .1197202 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0026914 | -.004508 | .1204579 |
| #2 | -.000600 | -.002949 | .1202972 |
| #3 | .000479  | -.003908 | .1205850 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3389.471 | 4238.370 | 68315.71 | 13266.68 | 5245.817 |
| Stddev    | 12.455   | 4.153    | 234.11   | 114.42   | 8.458    |
| %RSD      | .3674521 | .0979894 | .3426924 | .8624344 | .1612331 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3379.796 | 4234.852 | 68051.03 | 13365.02 | 5242.656 |
| #2 | 3403.524 | 4242.951 | 68495.68 | 13141.10 | 5255.400 |
| #3 | 3385.094 | 4237.307 | 68400.41 | 13293.91 | 5239.394 |

Sample Name: K2820-10      Acquired: 05/20/2019 16:16:10      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ32      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0061877 | .0024660 | .0025564 | -.000873 | -.001746 | .2447635 | .0247694 |
| Stddev | .0002374 | .0015700 | .0010176 | .001686  | .000654  | .0099821 | .0003236 |
| %RSD   | 3.836998 | 63.66682 | 39.80850 | 193.1102 | 37.45896 | 4.078266 | 1.306313 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0061556 | .0040800 | .0034977 | .000896  | -.002450 | .2450495 | .0249977 |
| #2 | .0064395 | .0009440 | .0014766 | -.002460 | -.001157 | .2545995 | .0249113 |
| #3 | .0059680 | .0023739 | .0026948 | -.001055 | -.001631 | .2346414 | .0243991 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001102 | .0000960 | 21.03008 | .0002702 | -.000837 | -.002217 | .2077483 |
| Stddev | .0000317 | .0000733 | .08676   | .0007241 | .000215  | .001668  | .0060237 |
| %RSD   | 28.79879 | 76.28245 | .4125427 | 267.9936 | 25.74558 | 75.24732 | 2.899533 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000751 | .0001460 | 21.01927 | .0007470 | -.000657 | -.003599 | .2056420 |
| #2 | .0001368 | .0001302 | 21.12174 | .0006266 | -.001076 | -.000364 | .2030605 |
| #3 | .0001187 | .0000119 | 20.94923 | -.000563 | -.000778 | -.002687 | .2145423 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0330653 | 5.871200 | .0006080 | .0000538 | 28.36011 | .0029955 | .0024112 |
| Stddev | .0003791 | .012311  | .0001552 | .0000907 | .27382   | .0018887 | .0010406 |
| %RSD   | 1.146387 | .2096928 | 25.53118 | 168.5493 | .9654937 | 63.04976 | 43.15557 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0331640 | 5.885105 | .0004432 | .0000086 | 28.24989 | .0010526 | .0031821 |
| #2 | .0326466 | 5.866809 | .0007514 | .0001583 | 28.15858 | .0031091 | .0012276 |
| #3 | .0333852 | 5.861686 | .0006294 | -.000005 | 28.67186 | .0048248 | .0028241 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.647337 | .0589543 | .0927497 | .0030817 | 7.901884 | 10.52332 | -.001941 |
| Stddev | .067802  | .0021054 | .0018905 | .0002418 | .032307  | .19598   | .001118  |
| %RSD   | 2.561155 | 3.571270 | 2.038267 | 7.845239 | .4088561 | 1.862305 | 57.57248 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.569104 | .0609768 | .0921714 | .0028358 | 7.930067 | 10.45144 | -.003225 |
| #2 | 2.689082 | .0567747 | .0948618 | .0033191 | 7.908959 | 10.74509 | -.001417 |
| #3 | 2.683825 | .0591113 | .0912160 | .0030902 | 7.866625 | 10.37344 | -.001182 |

Sample Name: K2820-10      Acquired: 05/20/2019 16:16:10      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ32      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0092571 | -.005327 | .1035371 |
| Stddev | .0003455 | .002929  | .0003508 |
| %RSD   | 3.732570 | 54.99228 | .3387823 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0089911 | -.008578 | .1031321 |
| #2 | .0091324 | -.002894 | .1037444 |
| #3 | .0096476 | -.004509 | .1037348 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3402.456 | 4254.115 | 68457.17 | 13208.69 | 5257.591 |
| Stddev    | 48.842   | 5.020    | 814.89   | 112.39   | 7.049    |
| %RSD      | 1.435494 | .1180131 | 1.190365 | .8508669 | .1340804 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3375.299 | 4252.449 | 68033.90 | 13246.70 | 5249.463 |
| #2 | 3458.842 | 4259.757 | 69396.59 | 13082.22 | 5262.047 |
| #3 | 3373.228 | 4250.140 | 67941.01 | 13297.14 | 5261.262 |

Sample Name: K2820-12      Acquired: 05/20/2019 16:24:20      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ24      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0093635 | .0026215 | .0016000 | -.000729 | -.001264 | .0105609 | .0203923 |
| Stddev | .0024261 | .0014046 | .0008674 | .002211  | .001149  | .0082247 | .0006424 |
| %RSD   | 25.90997 | 53.58010 | 54.21147 | 303.3550 | 90.91139 | 77.87958 | 3.150059 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0076888 | .0023082 | .0025653 | .001819  | -.002318 | .0135426 | .0199514 |
| #2 | .0082561 | .0041562 | .0013488 | -.002140 | -.000039 | .0168789 | .0211293 |
| #3 | .0121457 | .0014000 | .0008859 | -.001865 | -.001435 | .0012611 | .0200962 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000435 | .0001031 | 24.22789 | .0006489 | -.001082 | -.003713 | -.038694 |
| Stddev | .0000408 | .0000696 | .04608   | .0000781 | .000166  | .000861  | .008778  |
| %RSD   | 93.70533 | 67.48126 | .1902137 | 12.03798 | 15.34064 | 23.20281 | 22.68429 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000888 | .0000534 | 24.21449 | .0007375 | -.001092 | -.003347 | -.047126 |
| #2 | .0000319 | .0001826 | 24.27920 | .0006193 | -.001243 | -.003095 | -.039349 |
| #3 | .0000098 | .0000734 | 24.19000 | .0005899 | -.000912 | -.004697 | -.029608 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000763 | 6.662154 | .0010314 | .0002120 | 30.58276 | .0044028 | .0008730 |
| Stddev | .0001534 | .032590  | .0002896 | .0005148 | .41748   | .0029242 | .0020838 |
| %RSD   | 200.8719 | .4891878 | 28.07774 | 242.8041 | 1.365076 | 66.41651 | 238.6857 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0002197 | 6.658825 | .0012532 | -.000098 | 30.96924 | .0019155 | .0002925 |
| #2 | -.000085 | 6.631356 | .0007038 | -.000072 | 30.14000 | .0036689 | .0031855 |
| #3 | .000095  | 6.696281 | .0011373 | .000806  | 30.63904 | .0076240 | -.000859 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.928459 | .0547257 | .1010564 | .0031832 | 8.934484 | 7.984069 | -.002191 |
| Stddev | .108613  | .0028656 | .0018685 | .0000636 | .030904  | .010313  | .000459  |
| %RSD   | 3.708876 | 5.236325 | 1.848958 | 1.998268 | .3458906 | .1291656 | 20.97058 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.868847 | .0550271 | .0996442 | .0032447 | 8.943922 | 7.988414 | -.002705 |
| #2 | 2.862706 | .0517213 | .1003500 | .0031177 | 8.899961 | 7.972295 | -.001821 |
| #3 | 3.053824 | .0574287 | .1031751 | .0031874 | 8.959567 | 7.991498 | -.002047 |



Sample Name: K2820-12      Acquired: 05/20/2019 16:24:20      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ24      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0004219 | -.004008 | .1205306 |
| Stddev | .0011861 | .000426  | .0001337 |
| %RSD   | 281.1139 | 10.63854 | .1109343 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0006312 | -.004493 | .1206757 |
| #2 | -.000855 | -.003842 | .1205037 |
| #3 | .001489  | -.003690 | .1204124 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3392.957 | 4242.619 | 68242.06 | 13220.73 | 5240.805 |
| Stddev    | 13.917   | 5.518    | 280.88   | 44.11    | 9.763    |
| %RSD      | .4101612 | .1300608 | .4115979 | .3336334 | .1862844 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3382.274 | 4237.251 | 67927.39 | 13170.50 | 5247.198 |
| #2 | 3408.694 | 4242.332 | 68467.45 | 13253.14 | 5229.567 |
| #3 | 3387.902 | 4248.276 | 68331.33 | 13238.57 | 5245.649 |

Sample Name: K2820-11      Acquired: 05/20/2019 16:20:16      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ34      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0089388 | .0035008 | .0026584 | -.000733 | -.001282 | .3928070 | .0378869 |
| Stddev | .0018258 | .0005508 | .0013416 | .000756  | .001745  | .0038870 | .0010838 |
| %RSD   | 20.42579 | 15.73472 | 50.46681 | 103.0765 | 136.1548 | .9895350 | 2.860725 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0108604 | .0037977 | .0014254 | .000084  | -.002381 | .3892021 | .0369019 |
| #2 | .0087291 | .0028652 | .0040871 | -.000877 | .000731  | .3969251 | .0390480 |
| #3 | .0072269 | .0038394 | .0024626 | -.001407 | -.002195 | .3922938 | .0377107 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001069 | .0001695 | 17.04650 | .0001349 | -.000743 | -.001116 | .4152067 |
| Stddev | .0000227 | .0000777 | .22067   | .0005512 | .000127  | .002323  | .0041024 |
| %RSD   | 21.22401 | 45.83818 | 1.294545 | 408.5036 | 17.10350 | 208.1796 | .9880386 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001331 | .0001399 | 16.79869 | -.000310 | -.000761 | -.003785 | .4125955 |
| #2 | .0000931 | .0001110 | 17.22178 | -.000037 | -.000608 | -.000017 | .4199351 |
| #3 | .0000945 | .0002577 | 17.11904 | .000752  | -.000861 | .000454  | .4130894 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .1166799 | 4.565932 | .0007018 | .0006974 | 15.02610 | .0034049 | .0027115 |
| Stddev | .0007296 | .049747  | .0003426 | .0005106 | .06767   | .0027332 | .0009945 |
| %RSD   | .6252701 | 1.089516 | 48.81810 | 73.21387 | .4503463 | 80.27333 | 36.67630 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .1158966 | 4.515816 | .0004416 | .0003704 | 15.04769 | .0006072 | .0033560 |
| #2 | .1168031 | 4.566680 | .0005738 | .0012857 | 14.95026 | .0035386 | .0032124 |
| #3 | .1173401 | 4.615301 | .0010900 | .0004360 | 15.08033 | .0060687 | .0015662 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.098565 | .0969210 | .0477916 | .0013009 | 4.648565 | 12.81837 | -.002235 |
| Stddev | .012859  | .0018992 | .0014086 | .0003085 | .027301  | .10967   | .000603  |
| %RSD   | .6127325 | 1.959503 | 2.947380 | 23.71557 | .5873066 | .8555718 | 26.96209 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.112907 | .0958116 | .0491088 | .0016314 | 4.660741 | 12.71652 | -.002799 |
| #2 | 2.088068 | .0958374 | .0479594 | .0012507 | 4.617294 | 12.93447 | -.002306 |
| #3 | 2.094718 | .0991139 | .0463066 | .0010205 | 4.667659 | 12.80412 | -.001600 |

Sample Name: K2820-11      Acquired: 05/20/2019 16:20:16      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ34      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0140590 | -.011556 | .0937535 |
| Stddev | .0010950 | .001554  | .0002203 |
| %RSD   | 7.788349 | 13.44359 | .2350348 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0134463 | -.012171 | .0935182 |
| #2 | .0153231 | -.012709 | .0939550 |
| #3 | .0134075 | -.009790 | .0937874 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3406.583 | 4253.567 | 68427.97 | 13284.94 | 5223.474 |
| Stddev    | 17.326   | 9.116    | 257.95   | 141.65   | 5.745    |
| %RSD      | .5085991 | .2143070 | .3769670 | 1.066258 | .1099849 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3406.013 | 4259.180 | 68576.26 | 13419.45 | 5227.942 |
| #2 | 3389.549 | 4258.473 | 68130.12 | 13137.09 | 5216.993 |
| #3 | 3424.186 | 4243.049 | 68577.54 | 13298.26 | 5225.486 |

Sample Name: K2820-13      Acquired: 05/20/2019 16:28:25      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ27      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0044676 | .0018467 | .0032384 | -.001921 | -.002163 | .3818417 | .0235468 |
| Stddev | .0001963 | .0009294 | .0017078 | .002167  | .002413  | .0048999 | .0007240 |
| %RSD   | 4.392787 | 50.33049 | 52.73547 | 112.7946 | 111.5654 | 1.283224 | 3.074620 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0045467 | .0012821 | .0016641 | .000546  | -.000602 | .3787656 | .0239733 |
| #2 | .0046120 | .0013385 | .0050541 | -.003514 | -.000944 | .3792674 | .0227109 |
| #3 | .0042442 | .0029194 | .0029972 | -.002795 | -.004943 | .3874922 | .0239562 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000584 | .0000552 | 13.74072 | .0003835 | -.000656 | -.003598 | .3332803 |
| Stddev | .0000407 | .0000896 | .15973   | .0004746 | .000172  | .002002  | .0099708 |
| %RSD   | 69.77531 | 162.4250 | 1.162444 | 123.7550 | 26.20131 | 55.64107 | 2.991726 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001050 | .0000728 | 13.79470 | .0000571 | -.000811 | -.004681 | .3400491 |
| #2 | .0000298 | -.000042 | 13.56099 | .0009279 | -.000471 | -.001288 | .3218302 |
| #3 | .0000403 | .000135  | 13.86646 | .0001654 | -.000685 | -.004826 | .3379616 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0050084 | 3.834126 | .0010366 | .0000560 | 15.37857 | .0019603 | .0018344 |
| Stddev | .0003770 | .083622  | .0002600 | .0004960 | .11240   | .0027449 | .0018850 |
| %RSD   | 7.527406 | 2.180980 | 25.07937 | 885.4964 | .7308769 | 140.0249 | 102.7632 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0054368 | 3.816732 | .0013081 | .0006197 | 15.28006 | .0008196 | .0039931 |
| #2 | .0047275 | 3.760569 | .0010117 | -.000314 | 15.50100 | .0050916 | .0005138 |
| #3 | .0048607 | 3.925076 | .0007900 | -.000138 | 15.35463 | -.000030 | .0009962 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.833792 | .0374064 | .0482803 | .0011328 | 4.344787 | 11.31728 | -.002682 |
| Stddev | .080342  | .0009890 | .0008528 | .0002423 | .019426  | .12435   | .000331  |
| %RSD   | 4.381187 | 2.644033 | 1.766340 | 21.38706 | .4471167 | 1.098783 | 12.35977 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.899997 | .0370888 | .0474949 | .0008672 | 4.323940 | 11.39350 | -.002934 |
| #2 | 1.744409 | .0385153 | .0481587 | .0013416 | 4.348039 | 11.17378 | -.002306 |
| #3 | 1.856969 | .0366152 | .0491874 | .0011897 | 4.362382 | 11.38455 | -.002804 |

Sample Name: K2820-13      Acquired: 05/20/2019 16:28:25      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ27      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0118901 | -.007776 | .0721465 |
| Stddev | .0009696 | .001552  | .0002111 |
| %RSD   | 8.155109 | 19.95958 | .2926366 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0122715 | -.009564 | .0721340 |
| #2 | .0126111 | -.006764 | .0719419 |
| #3 | .0107877 | -.007002 | .0723636 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3396.448 | 4252.646 | 68458.04 | 13245.66 | 5232.050 |
| Stddev    | 23.143   | 3.544    | 198.68   | 112.57   | .724     |
| %RSD      | .6813794 | .0833397 | .2902275 | .8498511 | .0138347 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3419.490 | 4250.177 | 68682.69 | 13193.90 | 5231.259 |
| #2 | 3373.206 | 4256.707 | 68305.42 | 13374.80 | 5232.214 |
| #3 | 3396.648 | 4251.056 | 68386.00 | 13168.29 | 5232.679 |

Sample Name: K2820-14      Acquired: 05/20/2019 16:32:30      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ29      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0051167 | .0021032 | .0026633 | -.002825 | -.002886 | .4619834 | .0306500 |
| Stddev | .0022477 | .0015914 | .0015978 | .001032  | .001334  | .0107014 | .0008905 |
| %RSD   | 43.92776 | 75.66481 | 59.99255 | 36.53305 | 46.21314 | 2.316398 | 2.905390 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0053612 | .0016084 | .0044357 | -.001728 | -.001728 | .4680920 | .0313134 |
| #2 | .0072322 | .0038831 | .0013335 | -.002971 | -.002586 | .4496267 | .0309987 |
| #3 | .0027568 | .0008179 | .0022206 | -.003777 | -.004344 | .4682313 | .0296379 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000893 | .0000941 | 13.39798 | .0002088 | -.000655 | -.001696 | .4205394 |
| Stddev | .0000814 | .0000531 | .11088   | .0003949 | .000345  | .000913  | .0138837 |
| %RSD   | 91.09877 | 56.46847 | .8276104 | 189.1528 | 52.73855 | 53.84451 | 3.301396 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000305 | .0000794 | 13.49786 | .0002333 | -.000771 | -.002562 | .4354957 |
| #2 | .0000552 | .0000499 | 13.41741 | -.000198 | -.000266 | -.000742 | .4180603 |
| #3 | .0001822 | .0001531 | 13.27866 | .000591  | -.000927 | -.001784 | .4080623 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0068590 | 3.704338 | .0005214 | -.000089 | 11.60515 | .0033457 | .0030649 |
| Stddev | .0005363 | .023283  | .0003200 | .000192  | .11194   | .0024203 | .0005530 |
| %RSD   | 7.818165 | .6285407 | 61.36495 | 216.3370 | .9645810 | 72.33895 | 18.04287 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0073136 | 3.728879 | .0002333 | -.000203 | 11.70657 | .0029978 | .0032209 |
| #2 | .0062676 | 3.701576 | .0004652 | -.000196 | 11.62385 | .0011182 | .0024506 |
| #3 | .0069957 | 3.682559 | .0008657 | .000133  | 11.48504 | .0059211 | .0035231 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.900815 | .0560920 | .0380067 | .0006769 | 3.600091 | 12.88428 | -.001508 |
| Stddev | .085573  | .0019820 | .0001280 | .0003588 | .011194  | .07083   | .000837  |
| %RSD   | 4.501904 | 3.533473 | .3367042 | 53.00692 | .3109325 | .5497640 | 55.48405 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.875798 | .0548112 | .0379545 | .0008175 | 3.587627 | 12.94463 | -.001817 |
| #2 | 1.996109 | .0583750 | .0381525 | .0009442 | 3.603358 | 12.90191 | -.002146 |
| #3 | 1.830539 | .0550898 | .0379131 | .0002691 | 3.609287 | 12.80629 | -.000561 |

Sample Name: K2820-14      Acquired: 05/20/2019 16:32:30      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ29      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0160673 | -.012098 | .0749781 |
| Stddev | .0002702 | .001865  | .0002292 |
| %RSD   | 1.681988 | 15.41714 | .3056814 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0159410 | -.010724 | .0752314 |
| #2 | .0163776 | -.014221 | .0749177 |
| #3 | .0158833 | -.011348 | .0747851 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3389.079 | 4253.467 | 68296.34 | 13232.71 | 5225.256 |
| Stddev    | 4.059    | 2.610    | 154.36   | 68.80    | 2.387    |
| %RSD      | .1197572 | .0613590 | .2260138 | .5199230 | .0456845 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3393.535 | 4254.726 | 68146.71 | 13174.92 | 5227.403 |
| #2 | 3385.594 | 4250.466 | 68455.03 | 13214.41 | 5222.686 |
| #3 | 3388.109 | 4255.209 | 68287.28 | 13308.81 | 5225.680 |

Sample Name: K2820-16      Acquired: 05/20/2019 16:40:41      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ35      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0071619 | .0028910 | .0014014 | -.001466 | -.000550 | .0918723 | .0448562 |
| Stddev | .0007076 | .0008690 | .0010662 | .002577  | .001076  | .0097976 | .0006907 |
| %RSD   | 9.880069 | 30.05811 | 76.08769 | 175.7422 | 195.4623 | 10.66442 | 1.539871 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0079673 | .0026246 | .0006695 | -.004438 | -.001122 | .0855630 | .0443466 |
| #2 | .0068783 | .0038619 | .0026247 | .000155  | -.001220 | .1031595 | .0456423 |
| #3 | .0066400 | .0021864 | .0009099 | -.000116 | .000691  | .0868944 | .0445796 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000751 | .0001183 | 21.94105 | .0004680 | -.000998 | -.005972 | .0511314 |
| Stddev | .0000705 | .0000328 | .05426   | .0007655 | .000326  | .001849  | .0034730 |
| %RSD   | 93.80113 | 27.73749 | .2473031 | 163.5664 | 32.64963 | 30.95992 | 6.792288 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000097 | .0001507 | 21.96738 | -.000148 | -.001372 | -.008068 | .0546095 |
| #2 | .0001498 | .0001191 | 21.97713 | .000227  | -.000849 | -.004574 | .0511213 |
| #3 | .0000659 | .0000851 | 21.87865 | .001325  | -.000774 | -.005273 | .0476635 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0124792 | 5.477619 | .0007542 | .0002477 | 15.73286 | .0030472 | .0014913 |
| Stddev | .0004277 | .008194  | .0002630 | .0008716 | .04805   | .0022712 | .0009931 |
| %RSD   | 3.426963 | .1495862 | 34.86951 | 351.8614 | .3054105 | 74.53506 | 66.59434 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0120769 | 5.485974 | .0004693 | -.000378 | 15.74101 | .0036638 | .0011065 |
| #2 | .0124323 | 5.469597 | .0008056 | -.000123 | 15.68126 | .0005313 | .0007482 |
| #3 | .0129284 | 5.477285 | .0009877 | .001243  | 15.77632 | .0049464 | .0026193 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.245805 | .0537937 | .0504573 | .0013304 | 5.703259 | 12.30495 | -.003479 |
| Stddev | .046077  | .0012206 | .0007610 | .0001542 | .021537  | .04661   | .000785  |
| %RSD   | 2.051713 | 2.269046 | 1.508310 | 11.59247 | .3776242 | .3788142 | 22.57139 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.243766 | .0535889 | .0496560 | .0011779 | 5.683950 | 12.26606 | -.003906 |
| #2 | 2.200781 | .0551037 | .0505455 | .0014863 | 5.699342 | 12.35662 | -.002573 |
| #3 | 2.292869 | .0526884 | .0511704 | .0013269 | 5.726486 | 12.29217 | -.003958 |



Sample Name: K2820-16      Acquired: 05/20/2019 16:40:41      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ35      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0039039 | -.011970 | .1236936 |
| Stddev | .0011457 | .001349  | .0005863 |
| %RSD   | 29.34599 | 11.26976 | .4739675 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0047927 | -.012000 | .1233945 |
| #2 | .0026110 | -.010606 | .1243691 |
| #3 | .0043081 | -.013304 | .1233172 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3397.366 | 4236.955 | 68367.33 | 13305.57 | 5201.370 |
| Stddev    | 18.804   | 5.033    | 244.75   | 42.00    | 3.131    |
| %RSD      | .5534988 | .1187952 | .3579932 | .3156235 | .0601928 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3379.796 | 4242.444 | 68269.71 | 13344.88 | 5203.102 |
| #2 | 3417.200 | 4232.555 | 68645.83 | 13261.32 | 5197.756 |
| #3 | 3395.103 | 4235.866 | 68186.45 | 13310.50 | 5203.252 |

Sample Name: K2820-15      Acquired: 05/20/2019 16:36:36      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ33      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0073327 | .0026765 | .0024305 | -.001917 | -.000832 | .3283726 | .0378420 |
| Stddev | .0020434 | .0003247 | .0008179 | .001972  | .001728  | .0053105 | .0008494 |
| %RSD   | 27.86636 | 12.13228 | 33.65016 | 102.8637 | 207.7197 | 1.617228 | 2.244547 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0056189 | .0023064 | .0024665 | -.000430 | .001163  | .3336899 | .0371037 |
| #2 | .0095940 | .0029138 | .0032298 | -.001167 | -.001870 | .3230688 | .0376520 |
| #3 | .0067852 | .0028094 | .0015952 | -.004153 | -.001789 | .3283591 | .0387703 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000831 | .0000310 | 16.61547 | -.000249 | -.000671 | -.000918 | .3002018 |
| Stddev | .0000199 | .0000793 | .04254   | .000581  | .000284  | .000738  | .0031682 |
| %RSD   | 23.90868 | 255.7136 | .2559993 | 232.9611 | 42.35752 | 80.36742 | 1.055369 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000996 | .0000940 | 16.66130 | -.000705 | -.000482 | -.001228 | .3009577 |
| #2 | .0000888 | .0000570 | 16.57725 | .000405  | -.000533 | -.000076 | .3029236 |
| #3 | .0000611 | -.000058 | 16.60787 | -.000449 | -.000998 | -.001452 | .2967239 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0083775 | 4.385079 | .0006913 | .0002756 | 11.84838 | .0027005 | .0016258 |
| Stddev | .0006977 | .006082  | .0001651 | .0003024 | .27002   | .0030984 | .0016858 |
| %RSD   | 8.328754 | .1387031 | 23.87840 | 109.6913 | 2.278999 | 114.7338 | 103.6884 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0084741 | 4.382562 | .0008705 | -.000056 | 11.62687 | .0012580 | .0013123 |
| #2 | .0090219 | 4.380659 | .0005456 | .000347  | 12.14917 | .0005864 | .0034463 |
| #3 | .0076365 | 4.392016 | .0006576 | .000536  | 11.76910 | .0062571 | .0001188 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.112166 | .0698481 | .0388925 | .0005308 | 4.128914 | 13.29021 | -.002384 |
| Stddev | .042763  | .0006746 | .0003012 | .0002806 | .027531  | .01727   | .000451  |
| %RSD   | 2.024622 | .9657386 | .7745386 | 52.86019 | .6667807 | .1299658 | 18.93170 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.074909 | .0699469 | .0391961 | .0006886 | 4.098410 | 13.29821 | -.001898 |
| #2 | 2.102730 | .0704678 | .0385937 | .0006969 | 4.136413 | 13.27038 | -.002465 |
| #3 | 2.158859 | .0691296 | .0388876 | .0002068 | 4.151918 | 13.30202 | -.002790 |

Sample Name: K2820-15      Acquired: 05/20/2019 16:36:36      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ33      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0118612 | -.010980 | .0944130 |
| Stddev | .0006038 | .001232  | .0002944 |
| %RSD   | 5.090404 | 11.22366 | .3117645 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0125583 | -.011663 | .0941937 |
| #2 | .0115152 | -.011719 | .0942978 |
| #3 | .0115100 | -.009557 | .0947475 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3385.333 | 4244.394 | 68271.14 | 13254.55 | 5204.747 |
| Stddev    | 9.454    | 2.974    | 330.76   | 17.25    | 9.789    |
| %RSD      | .2792745 | .0700652 | .4844866 | .1301626 | .1880737 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3391.753 | 4242.019 | 68223.77 | 13239.99 | 5211.580 |
| #2 | 3374.476 | 4243.433 | 67966.61 | 13273.60 | 5193.533 |
| #3 | 3389.769 | 4247.729 | 68623.03 | 13250.05 | 5209.127 |

Sample Name: K2820-18      Acquired: 05/20/2019 16:48:49      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ38      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0010061 | .0028589 | -.000787 | -.003821 | -.001961 | .0030886 | -.000445 |
| Stddev | .0008619 | .0011215 | .001649  | .002244  | .001084  | .0022511 | .000817  |
| %RSD   | 85.66110 | 39.22967 | 209.6399 | 58.74466 | 55.25764 | 72.88329 | 183.5494 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0018036 | .0037705 | -.001161 | -.001229 | -.001479 | .0045881 | .000357  |
| #2 | .0000918 | .0016065 | .001017  | -.005134 | -.001202 | .0005001 | -.000416 |
| #3 | .0011231 | .0031997 | -.002216 | -.005099 | -.003202 | .0041776 | -.001277 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001200 | .0000810 | .0239983 | .0011252 | -.000133 | -.005105 | -.047861 |
| Stddev | .0000776 | .0001063 | .0077417 | .0004803 | .000091  | .001205  | .008035  |
| %RSD   | 64.64607 | 131.2063 | 32.25954 | 42.68882 | 68.36091 | 23.59665 | 16.78821 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000315 | .0001970 | .0150694 | .0012904 | -.000110 | -.004122 | -.039841 |
| #2 | .0001524 | -.000012 | .0280875 | .0005841 | -.000055 | -.006449 | -.047832 |
| #3 | .0001761 | .000058  | .0288379 | .0015011 | -.000233 | -.004743 | -.055911 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0050456 | .0227375 | -.000154 | -.000186 | -.096589 | -.001690 | .0016929 |
| Stddev | .0002333 | .0133732 | .000506  | .000344  | .273247  | .001796  | .0002855 |
| %RSD   | 4.622879 | 58.81587 | 329.2794 | 185.0185 | 282.8960 | 106.2420 | 16.86089 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0053044 | .0168984 | -.000715 | .000211  | -.311800 | -.003330 | .0020137 |
| #2 | .0048516 | .0132767 | -.000013 | -.000402 | .210834  | .000229  | .0015985 |
| #3 | .0049807 | .0380373 | .000267  | -.000366 | -.188803 | -.001970 | .0014667 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.997506 | -.002600 | -.007784 | -.000650 | .0307721 | -.007464 | -.001293 |
| Stddev | .035528  | .001369  | .000589  | .000167  | .0048192 | .000221  | .000691  |
| %RSD   | 3.561675 | 52.63934 | 7.561732 | 25.63961 | 15.66094 | 2.960168 | 53.41280 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.03356 | -.002492 | -.008463 | -.000831 | .0264844 | -.007713 | -.002016 |
| #2 | -.99642  | -.001289 | -.007463 | -.000502 | .0359878 | -.007291 | -.001221 |
| #3 | -.96253  | -.004020 | -.007425 | -.000617 | .0298440 | -.007387 | -.000641 |

Sample Name: K2820-18      Acquired: 05/20/2019 16:48:49      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ38      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0007543 | -.024426 | -.000019 |
| Stddev | .0014295 | .000366  | .000029  |
| %RSD   | 189.5146 | 1.498755 | 153.3567 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0022180 | -.024209 | .000012  |
| #2 | -.000638 | -.024848 | -.000046 |
| #3 | .000683  | -.024220 | -.000023 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3413.058 | 4256.768 | 68391.17 | 13217.34 | 5089.479 |
| Stddev    | 23.018   | 1.816    | 474.86   | 148.38   | 9.585    |
| %RSD      | .6743983 | .0426562 | .6943323 | 1.122599 | .1883392 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3436.200 | 4258.322 | 68640.52 | 13159.00 | 5097.884 |
| #2 | 3390.167 | 4257.210 | 67843.57 | 13107.00 | 5091.515 |
| #3 | 3412.807 | 4254.772 | 68689.41 | 13386.02 | 5079.040 |

Sample Name: K2820-17      Acquired: 05/20/2019 16:44:44      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ36      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0094477 | .0021492 | .0023500 | -.001509 | -.002631 | .0502346 | .0446009 |
| Stddev | .0016291 | .0006635 | .0006073 | .002306  | .001545  | .0064473 | .0000503 |
| %RSD   | 17.24346 | 30.87287 | 25.84238 | 152.7535 | 58.70032 | 12.83444 | .1129011 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0113288 | .0027962 | .0019749 | -.002853 | -.003683 | .0513919 | .0445784 |
| #2 | .0084944 | .0014703 | .0030507 | -.002828 | -.003354 | .0560249 | .0445658 |
| #3 | .0085200 | .0021810 | .0020245 | .001153  | -.000858 | .0432870 | .0446586 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000727 | .0001188 | 22.16615 | -.000500 | -.000714 | -.003830 | .0001371 |
| Stddev | .0000598 | .0000646 | .30240   | .000246  | .000525  | .001828  | .0090740 |
| %RSD   | 82.36220 | 54.39955 | 1.364241 | 49.24237 | 73.43535 | 47.72310 | 6620.398 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000046 | .0000445 | 22.44425 | -.000633 | -.000117 | -.001931 | .0042214 |
| #2 | .0000962 | .0001618 | 22.20997 | -.000216 | -.001101 | -.005578 | .0064511 |
| #3 | .0001172 | .0001500 | 21.84423 | -.000650 | -.000925 | -.003983 | -.010261 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0176772 | 5.543161 | .0006431 | .0001106 | 15.90489 | .0038072 | .0012167 |
| Stddev | .0002606 | .091739  | .0001968 | .0001082 | .10416   | .0013654 | .0014618 |
| %RSD   | 1.474435 | 1.654995 | 30.59296 | 97.86640 | .6548638 | 35.86263 | 120.1453 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0177675 | 5.638597 | .0004614 | -.000008 | 16.02333 | .0046066 | -.000459 |
| #2 | .0178807 | 5.535256 | .0008521 | .000137  | 15.82758 | .0022307 | .001879  |
| #3 | .0173834 | 5.455630 | .0006160 | .000203  | 15.86376 | .0045843 | .002230  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.194295 | .0471440 | .0536950 | .0014071 | 5.615547 | 12.39734 | -.002908 |
| Stddev | .065985  | .0018120 | .0020901 | .0003008 | .014009  | .16233   | .000831  |
| %RSD   | 3.007102 | 3.843606 | 3.892541 | 21.37458 | .2494734 | 1.309389 | 28.58239 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.254992 | .0480255 | .0560230 | .0011554 | 5.599920 | 12.55365 | -.002765 |
| #2 | 2.203831 | .0450599 | .0530822 | .0017401 | 5.619740 | 12.40878 | -.003801 |
| #3 | 2.124061 | .0483466 | .0519798 | .0013256 | 5.626981 | 12.22960 | -.002158 |

Sample Name: K2820-17      Acquired: 05/20/2019 16:44:44      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ36      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0025205 | -.011557 | .1237645 |
| Stddev | .0005624 | .001207  | .0005081 |
| %RSD   | 22.31273 | 10.44270 | .4105501 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0019542 | -.012933 | .1243035 |
| #2 | .0025285 | -.010680 | .1236958 |
| #3 | .0030789 | -.011058 | .1232943 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3387.728 | 4225.877 | 68380.75 | 13169.36 | 5202.481 |
| Stddev    | 9.325    | 6.812    | 172.59   | 170.47   | 4.301    |
| %RSD      | .2752570 | .1611921 | .2523912 | 1.294441 | .0826761 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3377.675 | 4232.923 | 68204.00 | 13001.40 | 5204.362 |
| #2 | 3396.095 | 4219.326 | 68548.85 | 13164.44 | 5205.521 |
| #3 | 3389.413 | 4225.383 | 68389.41 | 13342.23 | 5197.559 |

Sample Name: K2816-04DLX10      Acquired: 05/20/2019 16:55:54      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLHW5      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0115409 | .0265119 | .0405022 | -.002625 | .0004622 | 6.260338 | .7624620 |
| Stddev | .0017494 | .0008980 | .0002827 | .000776  | .0010592 | .021466  | .0016023 |
| %RSD   | 15.15835 | 3.387226 | .6980333 | 29.56606 | 229.1796 | .3428948 | .2101474 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0106932 | .0275249 | .0405974 | -.002081 | .0007991 | 6.241432 | .7606305 |
| #2 | .0135526 | .0261971 | .0407250 | -.002281 | -.000725 | 6.283674 | .7636049 |
| #3 | .0103767 | .0258136 | .0401841 | -.003514 | .001312  | 6.255910 | .7631505 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0009809 | .0005722 | 3.298908 | .0014666 | .0047376 | .0017818 | 12.95628 |
| Stddev | .0000599 | .0001072 | .010902  | .0005641 | .0004737 | .0018789 | .04444   |
| %RSD   | 6.109142 | 18.72552 | .3304863 | 38.46116 | 9.999665 | 105.4478 | .3429902 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0009193 | .0006650 | 3.300251 | .0013399 | .0042833 | -.000317 | 12.92826 |
| #2 | .0009846 | .0005968 | 3.309077 | .0009767 | .0052287 | .002354  | 13.00752 |
| #3 | .0010390 | .0004549 | 3.287397 | .0020832 | .0047007 | .003308  | 12.93307 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 11.87447 | .8214294 | .0038025 | .0023568 | 4.574081 | .0130856 | .0704450 |
| Stddev | .08483   | .0265307 | .0000358 | .0003407 | .101677  | .0019739 | .0018811 |
| %RSD   | .7143959 | 3.229817 | .9409668 | 14.45699 | 2.222894 | 15.08488 | 2.670314 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 11.80952 | .8454673 | .0038215 | .0024179 | 4.572291 | .0153359 | .0725010 |
| #2 | 11.97045 | .8258577 | .0037612 | .0019897 | 4.676641 | .0122747 | .0700238 |
| #3 | 11.84345 | .7929632 | .0038248 | .0026629 | 4.473311 | .0116463 | .0688102 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.876331 | .2591255 | .0104645 | .0026992 | .0436742 | .3838599 | .0001726 |
| Stddev | .065103  | .0037795 | .0011755 | .0001462 | .0033976 | .0005878 | .0009495 |
| %RSD   | 2.263401 | 1.458569 | 11.23279 | 5.415609 | 7.779325 | .1531198 | 550.0780 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.850279 | .2630530 | .0115407 | .0028472 | .0437001 | .3831812 | -.000344 |
| #2 | 2.950425 | .2588095 | .0092101 | .0026957 | .0402638 | .3841966 | -.000406 |
| #3 | 2.828288 | .2555138 | .0106425 | .0025549 | .0470588 | .3842019 | .001268  |



Sample Name: K2816-04DLX10      Acquired: 05/20/2019 16:55:54      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHW5      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0698945 | -.002519 | .0198313 |
| Stddev | .0003309 | .001491  | .0000633 |
| %RSD   | .4733766 | 59.18531 | .3191232 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0699340 | -.002225 | .0198266 |
| #2 | .0702038 | -.004134 | .0198968 |
| #3 | .0695457 | -.001197 | .0197705 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3301.734 | 4141.289 | 66438.60 | 12927.25 | 4925.217 |
| Stddev    | 17.144   | 2.068    | 321.39   | 73.82    | 7.594    |
| %RSD      | .5192499 | .0499455 | .4837357 | .5710561 | .1541934 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3309.951 | 4138.928 | 66700.97 | 12990.10 | 4918.648 |
| #2 | 3282.028 | 4142.157 | 66080.12 | 12845.96 | 4933.532 |
| #3 | 3313.224 | 4142.782 | 66534.69 | 12945.69 | 4923.470 |

Sample Name: K2816-05A      Acquired: 05/20/2019 17:05:02      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHW6A      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0608645 | .0071390 | .2761133 | .0581905 | .1318192 | 57.88987 | .8402306 |
| Stddev | .0015387 | .0016577 | .0017105 | .0058527 | .0002527 | .17458   | .0007292 |
| %RSD   | 2.528032 | 23.22107 | .6195101 | 10.05787 | .1916687 | .3015751 | .0867913 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0596444 | .0082016 | .2747965 | .0523180 | .1315777 | 57.68956 | .8406109 |
| #2 | .0603560 | .0052288 | .2754966 | .0640232 | .1317980 | 57.97043 | .8406910 |
| #3 | .0625930 | .0079865 | .2780467 | .0582303 | .1320817 | 58.00963 | .8393898 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0057943 | .0016941 | 38.96208 | .0321876 | .0538904 | .1845468 | 98.22147 |
| Stddev | .0000194 | .0000936 | .24987   | .0002368 | .0001393 | .0012336 | .35617   |
| %RSD   | .3350410 | 5.526009 | .6413142 | .7356672 | .2585642 | .6684565 | .3626242 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0058071 | .0017309 | 38.72869 | .0323443 | .0539891 | .1849165 | 97.89335 |
| #2 | .0057720 | .0017637 | 38.93187 | .0319152 | .0537310 | .1831706 | 98.17079 |
| #3 | .0058039 | .0015876 | 39.22568 | .0323034 | .0539510 | .1855534 | 98.60027 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 8.445158 | 21.12812 | .0555641 | -.006659 | 18.19658 | .2124467 | .3845000 |
| Stddev | .050003  | .06444   | .0004659 | .000323  | .30660   | .0012131 | .0052078 |
| %RSD   | .5920877 | .3049759 | .8384597 | 4.844186 | 1.684913 | .5709998 | 1.354429 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 8.391108 | 21.10930 | .0554458 | -.006998 | 18.46785 | .2115723 | .3802489 |
| #2 | 8.454599 | 21.07520 | .0551688 | -.006356 | 17.86394 | .2119364 | .3829422 |
| #3 | 8.489768 | 21.19987 | .0560777 | -.006622 | 18.25794 | .2138316 | .3903089 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 17.11732 | 4.927379 | .1359416 | .0069132 | .7000588 | 3.496990 | .0092479 |
| Stddev | .04310   | .012000  | .0022149 | .0002971 | .0069921 | .008644  | .0014306 |
| %RSD   | .2517782 | .2435371 | 1.629285 | 4.297624 | .9987824 | .2471899 | 15.46943 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 17.07572 | 4.927868 | .1367964 | .0070592 | .7028211 | 3.491566 | .0106231 |
| #2 | 17.11448 | 4.915142 | .1334267 | .0071091 | .6921075 | 3.506958 | .0077677 |
| #3 | 17.16178 | 4.939127 | .1376017 | .0065714 | .7052477 | 3.492445 | .0093529 |

Sample Name: K2816-05A      Acquired: 05/20/2019 17:05:02      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLHW6A      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 2.528385 | .0271109 | .3705441 |
| Stddev | .008881  | .0003153 | .0003994 |
| %RSD   | .3512476 | 1.163180 | .1077948 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | 2.521590 | .0267874 | .3706078 |
| #2 | 2.525131 | .0271277 | .3709078 |
| #3 | 2.538434 | .0274174 | .3701166 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 4038.531 | 5058.119 | 82191.82 | 15962.60 | 4764.627 |
| Stddev    | 3.037    | 5.784    | 126.99   | 22.35    | 6.173    |
| %RSD      | .0752083 | .1143539 | .1545019 | .1400406 | .1295687 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 4039.010 | 5051.526 | 82045.59 | 15988.18 | 4761.765 |
| #2 | 4041.300 | 5060.495 | 82255.64 | 15946.80 | 4760.405 |
| #3 | 4035.283 | 5062.338 | 82274.25 | 15952.82 | 4771.712 |

Sample Name: CCV030      Acquired: 05/20/2019 17:09:35      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCV030      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.083888 | 5.004338 | 24.93820 | 5.045179 | 5.067393 | 420.3713 | 10.16960 |
| Stddev | .007460  | .007478  | .05735   | .008503  | .009643  | 2.5826   | .05766   |
| %RSD   | .1467326 | .1494278 | .2299751 | .1685347 | .1902912 | .6143614 | .5670153 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 5.078564 | 5.009262 | 24.89137 | 5.036804 | 5.069474 | 422.6213 | 10.20972 |
| #2 | 5.092414 | 4.995733 | 24.92105 | 5.044929 | 5.075825 | 420.9414 | 10.19557 |
| #3 | 5.080686 | 5.008019 | 25.00216 | 5.053804 | 5.056879 | 417.5513 | 10.10352 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .5123284 | 2.493199 | 421.8913 | 15.33807 | 2.539983 | 15.06238 | 426.5870 |
| Stddev | .0022227 | .004478  | 3.8654   | .31436   | .005784  | .10983   | 3.0621   |
| %RSD   | .4338527 | .1795929 | .9161990 | 2.049546 | .2277341 | .7291971 | .7178237 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .5144922 | 2.489784 | 426.3034 | 14.97764 | 2.534126 | 15.12445 | 429.7970 |
| #2 | .5124420 | 2.491544 | 420.2694 | 15.48099 | 2.540131 | 15.12712 | 426.2659 |
| #3 | .5100510 | 2.498268 | 419.1012 | 15.55557 | 2.545692 | 14.93556 | 423.6980 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.04737 | 416.4063 | 2.524801 | 1.260579 | 416.5478 | 2.533750 | 14.37512 |
| Stddev | .14185   | 2.8373   | .005391  | .016456  | 2.8558   | .022239  | .21594   |
| %RSD   | .9426837 | .6813746 | .2135187 | 1.305457 | .6855815 | .8777130 | 1.502146 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 15.20745 | 419.5090 | 2.519058 | 1.243361 | 419.4539 | 2.558118 | 14.12579 |
| #2 | 14.99737 | 415.7661 | 2.525593 | 1.262227 | 416.4443 | 2.528580 | 14.49725 |
| #3 | 14.93729 | 413.9438 | 2.529753 | 1.276150 | 413.7452 | 2.514551 | 14.50230 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 153.9783 | 5.379417 | 5.449189 | 5.091541 | 5.181068 | 4.901440 | 5.077773 |
| Stddev | .9000    | .011542  | .045631  | .006896  | .019288  | .024619  | .002415  |
| %RSD   | .5845267 | .2145648 | .8373880 | .1354367 | .3722872 | .5022791 | .0475651 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 154.8729 | 5.370472 | 5.500903 | 5.083762 | 5.159711 | 4.929089 | 5.075044 |
| #2 | 153.9892 | 5.392446 | 5.432071 | 5.093959 | 5.197220 | 4.893340 | 5.078638 |
| #3 | 153.0729 | 5.375334 | 5.414592 | 5.096902 | 5.186272 | 4.881892 | 5.079636 |

Sample Name: CCV030      Acquired: 05/20/2019 17:09:35      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCV030      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | 5.020380 | 5.138507 | 5.052896 |
| Stddev | .033544  | .031539  | .081388  |
| %RSD   | .6681519 | .6137771 | 1.610719 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | 5.046490 | 5.156760 | 5.135168 |
| #2 | 5.032102 | 5.156671 | 5.051097 |
| #3 | 4.982548 | 5.102089 | 4.972422 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2836.629 | 3477.810 | 60055.70 | 11955.78 | 4125.876 |
| Stddev    | 28.461   | 4.704    | 566.43   | 151.45   | 9.945    |
| %RSD      | 1.003338 | .1352571 | .9431678 | 1.266725 | .2410516 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2869.492 | 3481.005 | 60696.91 | 11792.39 | 4133.753 |
| #2 | 2819.965 | 3480.016 | 59846.79 | 11983.49 | 4129.174 |
| #3 | 2820.430 | 3472.408 | 59623.40 | 12091.46 | 4114.700 |

Sample Name: CCB030      Acquired: 05/20/2019 17:13:28      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCB030      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000713 | -.000422 | .0001053 | -.000277 | .0000867 | .0120009 | -.001749 |
| Stddev | .001881  | .002391  | .0013233 | .000624  | .0007430 | .0084230 | .000575  |
| %RSD   | 263.7060 | 566.0903 | 1256.892 | 225.4842 | 856.4049 | 70.18604 | 32.87976 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .000062  | .000588  | .0013235 | .000211  | -.000206 | .0044204 | -.001426 |
| #2 | -.002858 | .001298  | .0002948 | -.000061 | .000931  | .0210683 | -.002413 |
| #3 | .000656  | -.003153 | -.001303 | -.000980 | -.000465 | .0105141 | -.001409 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000577 | .0001255 | .0207407 | .0009410 | -.000222 | .0114488 | .0741321 |
| Stddev | .0000771 | .0000450 | .0131190 | .0005041 | .000190  | .0012335 | .0120628 |
| %RSD   | 133.5986 | 35.84170 | 63.25215 | 53.57295 | 85.69934 | 10.77359 | 16.27197 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001436 | .0001722 | .0172663 | .0012179 | -.000199 | .0114936 | .0870582 |
| #2 | -.000005 | .0000825 | .0352472 | .0012460 | -.000044 | .0101936 | .0721630 |
| #3 | .000035  | .0001218 | .0097087 | .0003591 | -.000422 | .0126592 | .0631749 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0041162 | .0271236 | -.000824 | -.000014 | .0050197 | -.001507 | .0019054 |
| Stddev | .0002112 | .0168256 | .000248  | .000336  | .0645178 | .000853  | .0009238 |
| %RSD   | 5.130476 | 62.03314 | 30.06163 | 2401.968 | 1285.292 | 56.62509 | 48.48519 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0039824 | .0092126 | -.000669 | .000144  | -.068520 | -.002097 | .0023529 |
| #2 | .0040064 | .0425982 | -.001110 | .000213  | .031470  | -.001895 | .0008430 |
| #3 | .0043596 | .0295599 | -.000694 | -.000399 | .052109  | -.000528 | .0025202 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.031491 | -.002396 | .0030280 | .0002222 | -.008663 | -.007968 | .0008408 |
| Stddev | .023347  | .002202  | .0007243 | .0004894 | .001155  | .000680  | .0016033 |
| %RSD   | 74.13718 | 91.88934 | 23.92048 | 220.2312 | 13.33379 | 8.536638 | 190.6977 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.008390 | -.000337 | .0036822 | .0005441 | -.009121 | -.007182 | .0008152 |
| #2 | -.031008 | -.002135 | .0022496 | .0004635 | -.007350 | -.008364 | .0024567 |
| #3 | -.055076 | -.004717 | .0031521 | -.000341 | -.009520 | -.008357 | -.000750 |

Sample Name: CCB030      Acquired: 05/20/2019 17:13:28      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCB030      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0010333 | .0051862 | .0000620 |
| Stddev | .0010043 | .0006108 | .0000762 |
| %RSD   | 97.19234 | 11.77794 | 122.9030 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0002839 | .0048584 | .0001283 |
| #2 | .0006416 | .0048094 | .0000788 |
| #3 | .0021745 | .0058910 | -.000021 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3179.828 | 3972.583 | 64113.15 | 12473.91 | 4857.028 |
| Stddev    | 6.087    | 12.375   | 278.50   | 88.43    | 8.163    |
| %RSD      | .1914183 | .3115150 | .4343896 | .7089355 | .1680601 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3182.952 | 3983.726 | 64401.26 | 12548.57 | 4865.954 |
| #2 | 3172.814 | 3959.264 | 63845.38 | 12376.25 | 4849.943 |
| #3 | 3183.719 | 3974.757 | 64092.81 | 12496.92 | 4855.185 |

Sample Name: K2820-20      Acquired: 05/20/2019 17:21:39      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ20      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0088186 | .0038398 | .0027519 | -.002280 | -.002129 | .0757349 | .0019586 |
| Stddev | .0003068 | .0019665 | .0008379 | .004687  | .000909  | .0060947 | .0013016 |
| %RSD   | 3.478499 | 51.21496 | 30.44629 | 205.6276 | 42.70530 | 8.047442 | 66.45793 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0089953 | .0061068 | .0019221 | -.006799 | -.001171 | .0805763 | .0004591 |
| #2 | .0084644 | .0025931 | .0027361 | .002560  | -.002238 | .0777376 | .0026198 |
| #3 | .0089960 | .0028195 | .0035976 | -.002600 | -.002980 | .0688908 | .0027968 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000931 | .0001343 | 51.63532 | -.000050 | -.001198 | -.001439 | .1064254 |
| Stddev | .0000699 | .0000781 | .42353   | .000767  | .000026  | .001043  | .0031828 |
| %RSD   | 75.07816 | 58.16154 | .8202346 | 1545.560 | 2.165646 | 72.47162 | 2.990610 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000265 | .0000442 | 51.41596 | .000621  | -.001209 | -.002296 | .1027964 |
| #2 | .0001659 | .0001826 | 52.12353 | .000116  | -.001168 | -.001742 | .1087425 |
| #3 | .0000870 | .0001761 | 51.36646 | -.000886 | -.001215 | -.000278 | .1077373 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0206804 | 15.95414 | .0011693 | .0002240 | 70.01436 | .0121405 | .0022990 |
| Stddev | .0002726 | .16539   | .0003798 | .0002752 | .62413   | .0009061 | .0004790 |
| %RSD   | 1.317998 | 1.036630 | 32.48426 | 122.8355 | .8914339 | 7.463555 | 20.83498 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0207833 | 15.86945 | .0015243 | .0003172 | 69.82852 | .0112942 | .0022706 |
| #2 | .0208865 | 16.14472 | .0007687 | -.000086 | 70.71030 | .0130965 | .0018349 |
| #3 | .0203713 | 15.84826 | .0012150 | .000440  | 69.50425 | .0120309 | .0027916 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 4.655986 | .0381729 | .1372142 | .0040264 | 31.32502 | 16.94803 | -.003190 |
| Stddev | .057053  | .0017089 | .0030348 | .0001864 | .02107   | .16345   | .000562  |
| %RSD   | 1.225376 | 4.476834 | 2.211685 | 4.630069 | .0672528 | .9644012 | 17.61716 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 4.719416 | .0393922 | .1358774 | .0042416 | 31.33352 | 16.84253 | -.002653 |
| #2 | 4.639684 | .0389071 | .1406878 | .0039135 | 31.30104 | 17.13631 | -.003144 |
| #3 | 4.608858 | .0362196 | .1350773 | .0039242 | 31.34052 | 16.86526 | -.003774 |



Sample Name: K2820-20      Acquired: 05/20/2019 17:21:39      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ20      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0102459 | -.014297 | .1354446 |
| Stddev | .0003841 | .000818  | .0001389 |
| %RSD   | 3.748661 | 5.723584 | .1025770 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0103315 | -.013859 | .1355597 |
| #2 | .0098262 | -.013791 | .1354839 |
| #3 | .0105800 | -.015241 | .1352903 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3361.035 | 4178.560 | 67858.87 | 13264.50 | 5203.308 |
| Stddev    | 11.922   | 6.183    | 202.85   | 143.42   | 7.251    |
| %RSD      | .3547154 | .1479714 | .2989288 | 1.081209 | .1393488 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3366.903 | 4179.245 | 68036.24 | 13366.07 | 5208.724 |
| #2 | 3347.316 | 4184.372 | 67637.69 | 13100.44 | 5206.129 |
| #3 | 3368.886 | 4172.062 | 67902.68 | 13326.98 | 5195.070 |

Sample Name: K2820-19      Acquired: 05/20/2019 17:17:36      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ19      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0099273 | .0018071 | .0022694 | .0003292 | -.000677 | -.052772 | .0145205 |
| Stddev | .0009816 | .0002859 | .0009359 | .0031040 | .001362  | .007709  | .0007266 |
| %RSD   | 9.888160 | 15.82017 | 41.23900 | 942.9697 | 201.1134 | 14.60875 | 5.003786 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0089637 | .0015400 | .0014011 | -.001722 | -.001598 | -.052833 | .0153091 |
| #2 | .0098923 | .0021087 | .0021463 | .003900  | -.001322 | -.060451 | .0138783 |
| #3 | .0109260 | .0017727 | .0032607 | -.001191 | .000888  | -.045032 | .0143742 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000804 | .0001188 | 132.7621 | .0007486 | -.001414 | -.002108 | -.103193 |
| Stddev | .0000841 | .0000284 | .7323    | .0007482 | .000203  | .000070  | .010142  |
| %RSD   | 104.6289 | 23.92056 | .5515710 | 99.94617 | 14.38645 | 3.309103 | 9.827930 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001703 | .0000886 | 132.0900 | .0010848 | -.001649 | -.002127 | -.096457 |
| #2 | .0000672 | .0001229 | 132.6538 | .0012697 | -.001300 | -.002167 | -.114857 |
| #3 | .0000037 | .0001450 | 133.5425 | -.000109 | -.001293 | -.002031 | -.098265 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0004683 | 29.41135 | -.000633 | .0000791 | 40.88634 | .0058457 | .0007415 |
| Stddev | .0002072 | .11225   | .000398  | .0002376 | .30343   | .0022178 | .0004623 |
| %RSD   | 44.25339 | .3816695 | 62.86400 | 300.2970 | .7421342 | 37.93947 | 62.35247 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0006493 | 29.28747 | -.000174 | .0002269 | 40.57586 | .0061373 | .0009987 |
| #2 | .0005134 | 29.50632 | -.000867 | -.000195 | 40.90095 | .0079033 | .0002078 |
| #3 | .0002422 | 29.44027 | -.000858 | .000205  | 41.18220 | .0034965 | .0010181 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.168271 | .0054015 | .1376996 | .0094723 | 96.37166 | 9.971293 | -.004011 |
| Stddev | .021130  | .0015280 | .0015908 | .0003163 | .26049   | .108436  | .000907  |
| %RSD   | 12.55735 | 28.28791 | 1.155265 | 3.339610 | .2703025 | 1.087487 | 22.62670 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.192668 | .0036406 | .1370284 | .0095718 | 96.54795 | 9.889989 | -.003322 |
| #2 | -.156398 | .0063774 | .1365545 | .0097270 | 96.07245 | 9.929478 | -.003671 |
| #3 | -.155749 | .0061864 | .1395160 | .0091182 | 96.49458 | 10.09441 | -.005039 |

Sample Name: K2820-19      Acquired: 05/20/2019 17:17:36      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ19      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.002685 | -.008928 | .8614756 |
| Stddev | .000931  | .000862  | .0015398 |
| %RSD   | 34.66605 | 9.654163 | .1787462 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.002479 | -.007973 | .8597050 |
| #2 | -.003702 | -.009647 | .8625022 |
| #3 | -.001874 | -.009165 | .8622195 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3335.701 | 4156.551 | 67765.02 | 13225.38 | 5141.326 |
| Stddev    | 13.493   | 8.488    | 384.82   | 85.70    | 7.523    |
| %RSD      | .4045038 | .2042090 | .5678714 | .6479695 | .1463311 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3334.912 | 4156.402 | 67371.09 | 13308.36 | 5143.012 |
| #2 | 3322.619 | 4165.112 | 67783.96 | 13230.57 | 5147.863 |
| #3 | 3349.571 | 4148.138 | 68140.02 | 13137.20 | 5133.102 |

Sample Name: K2820-21      Acquired: 05/20/2019 17:25:43      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ28      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0105448 | .0029179 | .0020990 | -.000950 | -.001986 | .0217216 | .0213373 |
| Stddev | .0023716 | .0004155 | .0012578 | .002822  | .000855  | .0060750 | .0006327 |
| %RSD   | 22.49089 | 14.24087 | 59.92418 | 297.1924 | 43.04929 | 27.96744 | 2.965134 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0116247 | .0030739 | .0008464 | .000960  | -.001558 | .0181754 | .0210715 |
| #2 | .0121843 | .0024470 | .0033619 | .000382  | -.001430 | .0287363 | .0220595 |
| #3 | .0078254 | .0032330 | .0020885 | -.004191 | -.002971 | .0182531 | .0208809 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000773 | .0000845 | 23.41400 | .0003992 | -.000913 | -.003821 | -.031633 |
| Stddev | .0000309 | .0000820 | .18490   | .0006810 | .000157  | .000762  | .011528  |
| %RSD   | 40.05349 | 97.03563 | .7897111 | 170.6212 | 17.14723 | 19.93014 | 36.44295 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001057 | .0000638 | 23.32336 | -.000311 | -.000974 | -.004385 | -.019864 |
| #2 | .0000443 | .0001749 | 23.62673 | .000462  | -.000735 | -.004123 | -.032130 |
| #3 | .0000819 | .0000149 | 23.29190 | .001047  | -.001030 | -.002955 | -.042904 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0055094 | 6.511221 | .0000976 | .0003832 | 31.92496 | .0033945 | .0034006 |
| Stddev | .0001203 | .078383  | .0003215 | .0004096 | .35499   | .0028556 | .0013172 |
| %RSD   | 2.183823 | 1.203808 | 329.2942 | 106.8905 | 1.111961 | 84.12465 | 38.73507 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0053720 | 6.522090 | .0004594 | .0005439 | 31.65549 | .0049959 | .0044022 |
| #2 | .0055603 | 6.583601 | -.000011 | .0006880 | 31.79219 | .0050902 | .0038911 |
| #3 | .0055959 | 6.427971 | -.000155 | -.000082 | 32.32720 | .0000976 | .0019085 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.899875 | .0598070 | .1034814 | .0038997 | 9.116122 | 7.775662 | -.003072 |
| Stddev | .088909  | .0006437 | .0014007 | .0002243 | .011276  | .053324  | .001491  |
| %RSD   | 3.065951 | 1.076334 | 1.353530 | 5.752358 | .1236959 | .6857775 | 48.53118 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.829300 | .0594934 | .1020670 | .0040210 | 9.129143 | 7.717409 | -.004446 |
| #2 | 2.999731 | .0593801 | .1035094 | .0040373 | 9.109729 | 7.822063 | -.001487 |
| #3 | 2.870594 | .0605474 | .1048679 | .0036409 | 9.109496 | 7.787513 | -.003282 |

Sample Name: K2820-21      Acquired: 05/20/2019 17:25:43      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ28      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0023274 | -.007722 | .1169501 |
| Stddev | .0015403 | .002107  | .0002138 |
| %RSD   | 66.18008 | 27.28299 | .1828115 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0018744 | -.005352 | .1168628 |
| #2 | .0040434 | -.009381 | .1171938 |
| #3 | .0010644 | -.008434 | .1167939 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3380.556 | 4200.646 | 68193.50 | 13320.59 | 5224.028 |
| Stddev    | 14.158   | 15.443   | 315.58   | 74.45    | 6.628    |
| %RSD      | .4188084 | .3676330 | .4627702 | .5589159 | .1268840 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3377.094 | 4207.384 | 68233.75 | 13375.39 | 5228.071 |
| #2 | 3368.450 | 4211.576 | 67859.73 | 13235.83 | 5227.635 |
| #3 | 3396.124 | 4182.979 | 68487.02 | 13350.56 | 5216.378 |

Sample Name: K2820-22      Acquired: 05/20/2019 17:29:49      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ30      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0090163 | .0029127 | .0006584 | -.002752 | -.001421 | .2392523 | .0234678 |
| Stddev | .0024641 | .0012232 | .0003397 | .004082  | .002041  | .0071920 | .0005223 |
| %RSD   | 27.32948 | 41.99571 | 51.59222 | 148.3636 | 143.6463 | 3.006047 | 2.225630 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0062984 | .0040580 | .0002927 | -.002866 | .000572  | .2430948 | .0229361 |
| #2 | .0096463 | .0016242 | .0007186 | -.006775 | -.001327 | .2309552 | .0234873 |
| #3 | .0111043 | .0030559 | .0009640 | .001387  | -.003508 | .2437069 | .0239802 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000956 | .0000990 | 21.42958 | .0011273 | -.000844 | -.003735 | .2025231 |
| Stddev | .0000588 | .0000469 | .08610   | .0003663 | .000345  | .002390  | .0125092 |
| %RSD   | 61.50256 | 47.39255 | .4017825 | 32.49221 | 40.84161 | 63.98411 | 6.176692 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000280 | .0001449 | 21.47888 | .0007253 | -.001240 | -.004956 | .2110274 |
| #2 | .0001347 | .0000511 | 21.33016 | .0014422 | -.000689 | -.000981 | .1881597 |
| #3 | .0001241 | .0001011 | 21.47970 | .0012144 | -.000605 | -.005268 | .2083823 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0128756 | 6.011453 | .0008573 | .0003012 | 29.24337 | .0046898 | .0030689 |
| Stddev | .0003803 | .025686  | .0004122 | .0004190 | .20764   | .0035107 | .0010945 |
| %RSD   | 2.953534 | .4272824 | 48.08812 | 139.1067 | .7100247 | 74.85649 | 35.66646 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0127663 | 6.004847 | .0003829 | -.000118 | 29.46398 | .0027389 | .0042962 |
| #2 | .0132985 | 5.989714 | .0010599 | .000720  | 29.05176 | .0087426 | .0027166 |
| #3 | .0125619 | 6.039796 | .0011290 | .000301  | 29.21437 | .0025880 | .0021938 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 2.659815 | .0544251 | .0953066 | .0033647 | 8.229576 | 9.246587 | -.003345 |
| Stddev | .024513  | .0021896 | .0011845 | .0002908 | .088400  | .033100  | .000505  |
| %RSD   | .9216107 | 4.023122 | 1.242859 | 8.642765 | 1.074175 | .3579754 | 15.11178 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 2.685039 | .0525905 | .0963729 | .0036813 | 8.132503 | 9.276102 | -.003124 |
| #2 | 2.658324 | .0568490 | .0955151 | .0031096 | 8.305447 | 9.252860 | -.002987 |
| #3 | 2.636081 | .0538358 | .0940316 | .0033032 | 8.250777 | 9.210799 | -.003923 |

Sample Name: K2820-22      Acquired: 05/20/2019 17:29:49      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ30      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0087853 | -.008044 | .1059842 |
| Stddev | .0006302 | .001883  | .0001386 |
| %RSD   | 7.173738 | 23.40531 | .1307867 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0094780 | -.010153 | .1060143 |
| #2 | .0082459 | -.006531 | .1058331 |
| #3 | .0086319 | -.007449 | .1061054 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3408.500 | 4206.684 | 68481.88 | 13209.44 | 5229.270 |
| Stddev    | 6.723    | 10.953   | 332.29   | 36.73    | 2.776    |
| %RSD      | .1972521 | .2603788 | .4852189 | .2780247 | .0530862 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3402.378 | 4217.924 | 68717.83 | 13197.80 | 5226.268 |
| #2 | 3415.695 | 4206.085 | 68625.95 | 13250.58 | 5229.797 |
| #3 | 3407.425 | 4196.042 | 68101.88 | 13179.95 | 5231.744 |

Sample Name: K2847-01      Acquired: 05/20/2019 17:33:53      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ01      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0008427 | .0014344 | -.000706 | -.002473 | -.001473 | .0054297 | .0015429 |
| Stddev | .0024726 | .0003074 | .001850  | .002043  | .001014  | .0012227 | .0009069 |
| %RSD   | 293.4210 | 21.42775 | 262.1525 | 82.63465 | 68.81610 | 22.51930 | 58.78086 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.001443 | .0012951 | .001374  | -.004276 | -.002067 | .0067582 | .0021689 |
| #2 | .003467  | .0012214 | -.001322 | -.000253 | -.002049 | .0043515 | .0019569 |
| #3 | .000504  | .0017868 | -.002170 | -.002888 | -.000303 | .0051793 | .0005029 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001196 | .0000341 | .0145788 | .0006817 | -.000083 | -.005156 | -.048597 |
| Stddev | .0000652 | .0000392 | .0113158 | .0005805 | .000243  | .000781  | .002444  |
| %RSD   | 54.50558 | 114.8107 | 77.61856 | 85.14732 | 291.4951 | 15.15576 | 5.030107 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001342 | .0000748 | .0045707 | .0002289 | .000180  | -.004275 | -.051254 |
| #2 | .0001762 | .0000310 | .0123077 | .0013361 | -.000299 | -.005425 | -.046443 |
| #3 | .0000483 | -.000003 | .0268579 | .0004802 | -.000131 | -.005767 | -.048094 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000413 | .0081483 | -.000343 | .0002046 | .1542499 | -.001293 | .0023697 |
| Stddev | .000505  | .0185175 | .000248  | .0005572 | .0938934 | .001977  | .0007088 |
| %RSD   | 122.2698 | 227.2563 | 72.33030 | 272.3071 | 60.87098 | 152.9790 | 29.91309 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000961 | .0080326 | -.000078 | .0007159 | .2436201 | -.003353 | .0021564 |
| #2 | .000036  | .0267234 | -.000382 | .0002873 | .0564075 | .000590  | .0017919 |
| #3 | -.000315 | -.010311 | -.000569 | -.000389 | .1627220 | -.001115 | .0031606 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.09415 | -.001407 | -.006539 | -.000501 | -.004571 | -.008102 | -.002130 |
| Stddev | .02480   | .000646  | .000654  | .000260  | .002931  | .001478  | .001378  |
| %RSD   | 2.266584 | 45.88614 | 10.00678 | 51.85506 | 64.11583 | 18.24699 | 64.70275 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -1.06581 | -.001761 | -.005809 | -.000693 | -.001189 | -.006585 | -.003400 |
| #2 | -1.10479 | -.001798 | -.006734 | -.000603 | -.006157 | -.009538 | -.000664 |
| #3 | -1.11186 | -.000662 | -.007073 | -.000205 | -.006368 | -.008184 | -.002327 |



Sample Name: K2847-01      Acquired: 05/20/2019 17:33:53      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ01      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | -.000261 | -.026443 | -.000014 |
| Stddev | .000845  | .001144  | .000053  |
| %RSD   | 323.9344 | 4.324625 | 378.9330 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | -.000481 | -.026993 | .000047  |
| #2 | .000673  | -.025129 | -.000052 |
| #3 | -.000974 | -.027208 | -.000038 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3408.112 | 4188.604 | 68411.23 | 13216.98 | 5038.527 |
| Stddev    | 18.116   | 38.133   | 353.67   | 104.82   | 51.992   |
| %RSD      | .5315591 | .9104065 | .5169792 | .7930661 | 1.031898 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3423.135 | 4232.321 | 68809.38 | 13098.24 | 5098.495 |
| #2 | 3413.208 | 4171.307 | 68133.48 | 13256.05 | 5011.026 |
| #3 | 3387.994 | 4162.185 | 68290.83 | 13296.65 | 5006.061 |

Sample Name: K2847-02      Acquired: 05/20/2019 17:38:02      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ07      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0034052 | .0029330 | -.000813 | -.002973 | -.001618 | .0154317 | -.000431 |
| Stddev | .0018078 | .0010126 | .000360  | .002250  | .001555  | .0028266 | .000842  |
| %RSD   | 53.08850 | 34.52392 | 44.22373 | 75.66951 | 96.05913 | 18.31653 | 195.0772 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0054347 | .0039022 | -.000506 | -.002720 | .000173  | .0148449 | -.000648 |
| #2 | .0028135 | .0018820 | -.000725 | -.005338 | -.002416 | .0129446 | -.001144 |
| #3 | .0019675 | .0030146 | -.001209 | -.000861 | -.002612 | .0185056 | .000497  |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001001 | .0001209 | .0125053 | .0007518 | -.000155 | -.004102 | -.042511 |
| Stddev | .0000414 | .0000841 | .0058825 | .0003326 | .000435  | .002129  | .006662  |
| %RSD   | 41.29906 | 69.61577 | 47.04055 | 44.24381 | 280.3242 | 51.88970 | 15.67216 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001094 | .0001839 | .0135203 | .0004107 | -.000649 | -.004778 | -.036524 |
| #2 | .0000550 | .0001534 | .0061812 | .0010752 | .000171  | -.001718 | -.041319 |
| #3 | .0001361 | .0000253 | .0178142 | .0007696 | .000012  | -.005811 | -.049688 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.000352 | .0164690 | -.000463 | -.000168 | .2412420 | .0003565 | .0002258 |
| Stddev | .000074  | .0219693 | .000225  | .000293  | .3035191 | .0020621 | .0007879 |
| %RSD   | 20.97353 | 133.3977 | 48.58180 | 174.7204 | 125.8152 | 578.4667 | 348.9124 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.000351 | .0014864 | -.000203 | -.000497 | .0595706 | .0016558 | .0007161 |
| #2 | -.000427 | .0416887 | -.000580 | -.000070 | .0725195 | -.002021 | .0006444 |
| #3 | -.000279 | .0062321 | -.000604 | .000064  | .5916358 | .001435  | -.000683 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -1.00475 | -.003053 | -.007898 | -.000544 | -.008900 | .0344658 | -.002289 |
| Stddev | .06486   | .000492  | .000971  | .000197  | .005577  | .0030491 | .000567  |
| %RSD   | 6.455067 | 16.11361 | 12.29655 | 36.18108 | 62.66411 | 8.846840 | 24.77221 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.96789  | -.003345 | -.008982 | -.000761 | -.005911 | .0378853 | -.002421 |
| #2 | -1.07964 | -.003329 | -.007107 | -.000375 | -.015334 | .0320298 | -.001668 |
| #3 | -.96673  | -.002485 | -.007604 | -.000498 | -.005454 | .0334822 | -.002779 |

Sample Name: K2847-02      Acquired: 05/20/2019 17:38:02      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ07      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0010195 | -.025961 | -.000117 |
| Stddev | .0004980 | .001645  | .000048  |
| %RSD   | 48.84979 | 6.336167 | 41.26588 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0009847 | -.025246 | -.000171 |
| #2 | .0005397 | -.027843 | -.000080 |
| #3 | .0015339 | -.024795 | -.000099 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3394.445 | 4213.486 | 68241.71 | 13179.63 | 5084.805 |
| Stddev    | 21.046   | 14.194   | 283.51   | 67.44    | 6.474    |
| %RSD      | .6200039 | .3368770 | .4154511 | .5117101 | .1273254 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3417.673 | 4226.416 | 68568.44 | 13101.76 | 5086.249 |
| #2 | 3376.644 | 4215.742 | 68096.21 | 13218.58 | 5090.436 |
| #3 | 3389.019 | 4198.298 | 68060.50 | 13218.56 | 5077.731 |

Sample Name: K2849-01      Acquired: 05/20/2019 17:42:10      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: MJLJ31      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0069046 | .0035601 | .0040635 | -.002461 | -.001421 | .4234258 | .0357999 |
| Stddev | .0018809 | .0002666 | .0011858 | .001455  | .001514  | .0038174 | .0009043 |
| %RSD   | 27.24162 | 7.489529 | 29.18259 | 59.12946 | 106.5762 | .9015470 | 2.526057 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0064956 | .0034794 | .0037174 | -.001131 | -.002451 | .4212286 | .0362931 |
| #2 | .0052618 | .0038578 | .0053839 | -.002236 | -.002129 | .4278338 | .0347562 |
| #3 | .0089564 | .0033432 | .0030893 | -.004015 | .000318  | .4212152 | .0363503 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0001332 | .0000504 | 14.54499 | -.000114 | -.000609 | -.001800 | .3905112 |
| Stddev | .0000293 | .0000628 | .11874   | .000186  | .000163  | .000956  | .0016395 |
| %RSD   | 22.01182 | 124.5432 | .8163863 | 163.9972 | 26.74158 | 53.11495 | .4198213 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0001184 | .0000416 | 14.50488 | .000096  | -.000427 | -.001795 | .3897672 |
| #2 | .0001142 | .0001171 | 14.67860 | -.000175 | -.000741 | -.002758 | .3923907 |
| #3 | .0001670 | -.000008 | 14.45151 | -.000261 | -.000660 | -.000846 | .3893756 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0081071 | 3.952065 | .0012039 | -.000283 | 11.49072 | .0043410 | .0054161 |
| Stddev | .0004448 | .010063  | .0002208 | .000570  | .20712   | .0013682 | .0003266 |
| %RSD   | 5.486220 | .2546360 | 18.34306 | 201.8121 | 1.802519 | 31.51815 | 6.029144 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0084503 | 3.941310 | .0009606 | .000375  | 11.72236 | .0031695 | .0056474 |
| #2 | .0082664 | 3.961253 | .0012594 | -.000633 | 11.32335 | .0040088 | .0050426 |
| #3 | .0076046 | 3.953632 | .0013918 | -.000591 | 11.42646 | .0058447 | .0055584 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 1.703394 | .0655962 | .0368570 | .0006547 | 3.737329 | 13.03880 | -.002600 |
| Stddev | .006611  | .0017025 | .0019280 | .0004529 | .020287  | .12050   | .000515  |
| %RSD   | .3880829 | 2.595481 | 5.230969 | 69.17624 | .5428310 | .9241859 | 19.79247 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | 1.710113 | .0670630 | .0346582 | .0011444 | 3.741581 | 12.92478 | -.002279 |
| #2 | 1.696897 | .0637292 | .0382583 | .0005690 | 3.715253 | 13.16488 | -.003194 |
| #3 | 1.703173 | .0659965 | .0376544 | .0002508 | 3.755154 | 13.02673 | -.002328 |

Sample Name: K2849-01      Acquired: 05/20/2019 17:42:10      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: MJLJ31      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0154203 | -.019756 | .0827098 |
| Stddev | .0015757 | .001722  | .0002351 |
| %RSD   | 10.21854 | 8.718685 | .2842762 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0137641 | -.019895 | .0825342 |
| #2 | .0155958 | -.021405 | .0829769 |
| #3 | .0169008 | -.017968 | .0826183 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3386.813 | 4217.296 | 68155.51 | 13250.41 | 5224.842 |
| Stddev    | 9.475    | 8.634    | 316.93   | 119.60   | 4.993    |
| %RSD      | .2797490 | .2047335 | .4650044 | .9026391 | .0955663 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3378.789 | 4220.407 | 67819.88 | 13352.44 | 5229.223 |
| #2 | 3384.383 | 4223.943 | 68197.02 | 13118.79 | 5225.897 |
| #3 | 3397.265 | 4207.537 | 68449.64 | 13279.99 | 5219.406 |

Sample Name: CCV031      Acquired: 05/20/2019 17:46:15      Type: Unk  
 Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
 User: BIN H      Custom ID1: CCV031      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.124668 | 5.051158 | 25.03992 | 5.092452 | 5.102124 | 422.6188 |
| Stddev | .003523  | .002892  | .04414   | .031537  | .004756  | 1.4440   |
| %RSD   | .0687516 | .0572445 | .1762844 | .6192881 | .0932195 | .3416801 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 5.125617 | 5.047823 | 25.01156 | 5.128003 | 5.106354 | 421.7764 |
| #2 | 5.120768 | 5.052690 | 25.01741 | 5.067845 | 5.103042 | 421.7938 |
| #3 | 5.127620 | 5.052962 | 25.09077 | 5.081509 | 5.096976 | 424.2861 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Ba4934   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 10.24062 | .5207608 | 2.502328 | 424.7510 | 15.60632 | 2.551707 |
| Stddev | .01710   | .0022142 | .002871  | 3.0273   | .02379   | .004455  |
| %RSD   | .1670292 | .4251782 | .1147362 | .7127254 | .1524394 | .1745966 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 10.23407 | .5231611 | 2.501479 | 423.8140 | 15.63377 | 2.547337 |
| #2 | 10.22775 | .5187981 | 2.499977 | 422.3030 | 15.59352 | 2.551542 |
| #3 | 10.26003 | .5203231 | 2.505528 | 428.1360 | 15.59168 | 2.556243 |

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Cu3247   | Fe2598   | Mn2576   | Mg2790   | Ni2316   | Ag3280   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 15.05660 | 429.1468 | 15.02032 | 419.7710 | 2.534851 | 1.283593 |
| Stddev | .03136   | 2.9311   | .08822   | 3.1028   | .003552  | .005659  |
| %RSD   | .2082671 | .6829977 | .5873106 | .7391708 | .1401174 | .4409038 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 15.04575 | 427.3324 | 15.01427 | 418.0880 | 2.531710 | 1.279547 |
| #2 | 15.03210 | 427.5797 | 14.93529 | 417.8734 | 2.534139 | 1.290060 |
| #3 | 15.09194 | 432.5282 | 15.11141 | 423.3517 | 2.538705 | 1.281173 |

|        |          |          |          |          |          |            |
|--------|----------|----------|----------|----------|----------|------------|
| Elem   | Na8183   | V_2924   | Zn2138   | K_7698   | P_1774   | B_2496     |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm        |
| Avg    | 421.4593 | 2.548036 | 14.54724 | 153.3672 | 5.455700 | F 5.513746 |
| Stddev | 1.4290   | .010969  | .17089   | .7945    | .019332  | .013596    |
| %RSD   | .3390589 | .4304970 | 1.174743 | .5180596 | .3543480 | .2465770   |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 420.6872 | 2.553917 | 14.35052 | 152.6838 | 5.469675 | 5.518568 |
| #2 | 420.5824 | 2.535380 | 14.63222 | 153.1786 | 5.463788 | 5.498397 |
| #3 | 423.1082 | 2.554811 | 14.65898 | 154.2390 | 5.433638 | 5.524273 |

Sample Name: CCV031      Acquired: 05/20/2019 17:46:15      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCV031      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| Elem   | Mo2020   | S_1820   | Si2516   | Sn1899   | Ti3361   | Li6707   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | 5.174204 | 5.232914 | 4.936042 | 5.111704 | 5.048942 | 5.143507 |
| Stddev | .017100  | .013393  | .021371  | .012344  | .014744  | .013044  |
| %RSD   | .3304895 | .2559357 | .4329487 | .2414901 | .2920130 | .2536079 |

|    |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|
| #1 | 5.193913 | 5.246674 | 4.956296 | 5.100654 | 5.040673 | 5.137239 |
| #2 | 5.163306 | 5.219921 | 4.913708 | 5.125026 | 5.040190 | 5.134779 |
| #3 | 5.165393 | 5.232148 | 4.938122 | 5.109431 | 5.065964 | 5.158502 |

|        |          |
|--------|----------|
| Elem   | Sr4077   |
| Units  | ppm      |
| Avg    | 5.136071 |
| Stddev | .034777  |
| %RSD   | .6771037 |

|    |          |
|----|----------|
| #1 | 5.174782 |
| #2 | 5.125965 |
| #3 | 5.107467 |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 2765.154 | 3437.067 | 58985.23 | 11804.81 | 4103.680 |
| Stddev    | 22.047   | 9.177    | 267.21   | 27.48    | 5.892    |
| %RSD      | .7973075 | .2669984 | .4530073 | .2328031 | .1435874 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 2790.354 | 3426.779 | 59251.92 | 11798.27 | 4102.976 |
| #2 | 2749.426 | 3444.410 | 58717.51 | 11834.97 | 4109.893 |
| #3 | 2755.683 | 3440.011 | 58986.27 | 11781.18 | 4098.172 |

Sample Name: CCB031      Acquired: 05/20/2019 17:50:08      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCB031      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068   | Al3961   | Ba4934   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0005833 | -.000498 | .0001226 | -.001906 | .0003009 | .0117238 | .0006324 |
| Stddev | .0036809 | .000243  | .0013579 | .002333  | .0015680 | .0073654 | .0001736 |
| %RSD   | 631.0262 | 48.73959 | 1107.329 | 122.3915 | 521.1906 | 62.82435 | 27.44603 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.003664 | -.000324 | .0014555 | -.003051 | .0020716 | .0201686 | .0004613 |
| #2 | .002558  | -.000394 | -.001259 | .000778  | -.000912 | .0083755 | .0006276 |
| #3 | .002856  | -.000775 | .000171  | -.003445 | -.000257 | .0066274 | .0008083 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Be2348   | Cd2144   | Ca3736   | Cr2677   | Co2286   | Cu3247   | Fe2598   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0000347 | .0002065 | .0234101 | .0006661 | .0001434 | .0089122 | .0652742 |
| Stddev | .0000683 | .0000428 | .0052516 | .0007061 | .0002045 | .0019686 | .0137035 |
| %RSD   | 197.0718 | 20.74835 | 22.43312 | 105.9990 | 142.5914 | 22.08871 | 20.99377 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0000055 | .0002015 | .0246201 | .0008983 | .0003484 | .0107460 | .0796879 |
| #2 | -.000014 | .0002516 | .0176591 | .0012269 | .0001423 | .0068320 | .0637215 |
| #3 | .000113  | .0001664 | .0279511 | -.000127 | -.000061 | .0091586 | .0524131 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | Mn2576   | Mg2790   | Ni2316   | Ag3280   | Na8183   | V_2924   | Zn2138   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | .0040203 | .0616654 | -.000613 | -.000302 | .2910051 | -.003744 | .0015387 |
| Stddev | .0003549 | .0102488 | .000120  | .000166  | .2167400 | .002941  | .0004001 |
| %RSD   | 8.826549 | 16.62006 | 19.52775 | 55.08590 | 74.47979 | 78.55099 | 26.00097 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | .0044170 | .0546502 | -.000475 | -.000201 | .1344373 | -.006162 | .0018106 |
| #2 | .0039111 | .0569189 | -.000681 | -.000494 | .5383781 | -.004601 | .0010793 |
| #3 | .0037329 | .0734270 | -.000684 | -.000211 | .2002000 | -.000470 | .0017263 |

|        |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|
| Elem   | K_7698   | P_1774   | B_2496   | Mo2020   | S_1820   | Si2516   | Sn1899   |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      |
| Avg    | -.085567 | -.004466 | .0049422 | .0006904 | -.009209 | -.006259 | .0004843 |
| Stddev | .026740  | .001757  | .0015577 | .0001205 | .005995  | .000990  | .0009589 |
| %RSD   | 31.25070 | 39.33173 | 31.51761 | 17.45994 | 65.10535 | 15.81651 | 197.9808 |

|    |          |          |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|----------|----------|
| #1 | -.058387 | -.003523 | .0043116 | .0006258 | -.005844 | -.007401 | .0007326 |
| #2 | -.086469 | -.006493 | .0067163 | .0008295 | -.005652 | -.005635 | .0012947 |
| #3 | -.111845 | -.003383 | .0037988 | .0006160 | -.016131 | -.005742 | -.000574 |



Sample Name: CCB031      Acquired: 05/20/2019 17:50:08      Type: Unk  
Method: ISM02.4 INSTRUMENT P5 WITH 6 POINT ICAL(v878)      Mode: CONC      Corr. Factor: 1.000000  
User: BIN H      Custom ID1: CCB031      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | Ti3361   | Li6707   | Sr4077   |
| Units  | ppm      | ppm      | ppm      |
| Avg    | .0004810 | .0045957 | .0000133 |
| Stddev | .0006079 | .0022033 | .0000193 |
| %RSD   | 126.3948 | 47.94313 | 145.3919 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .0002921 | .0039700 | .0000325 |
| #2 | -.000010 | .0027728 | -.000006 |
| #3 | .001161  | .0070441 | .000014  |

|           |          |          |          |          |          |
|-----------|----------|----------|----------|----------|----------|
| Int. Std. | Y_2243   | Y_2243   | Y_3600   | Y_3710   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3172.367 | 3945.394 | 64002.79 | 12295.65 | 4836.710 |
| Stddev    | 5.894    | 8.558    | 205.40   | 140.33   | 3.625    |
| %RSD      | .1857930 | .2169221 | .3209254 | 1.141300 | .0749553 |

|    |          |          |          |          |          |
|----|----------|----------|----------|----------|----------|
| #1 | 3171.481 | 3941.321 | 63883.55 | 12427.09 | 4832.962 |
| #2 | 3166.966 | 3939.633 | 63884.86 | 12147.86 | 4836.969 |
| #3 | 3178.653 | 3955.228 | 64239.97 | 12312.01 | 4840.199 |