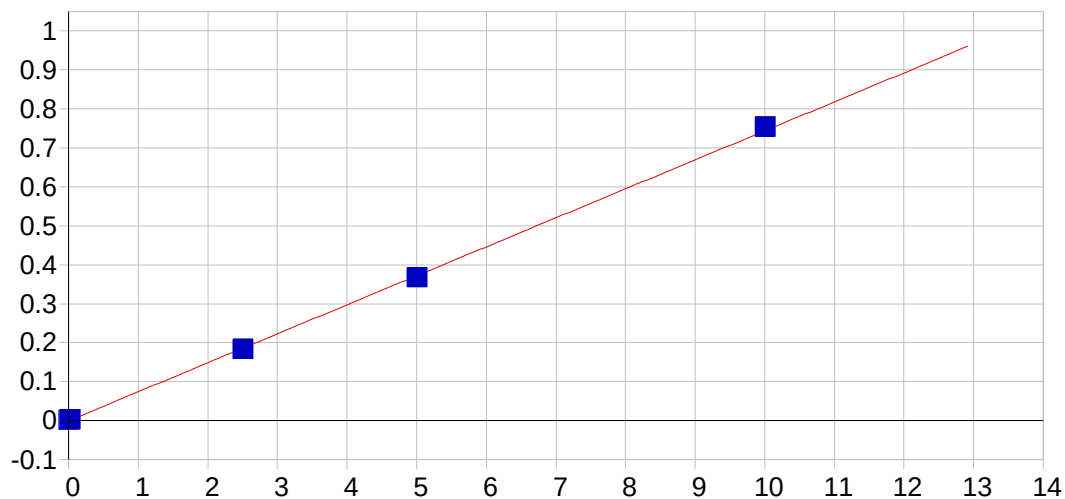




As 189.042 {478}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): -0.000463

Re-Slope: 1.000000

A1 (Gain): 0.074421

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.999901

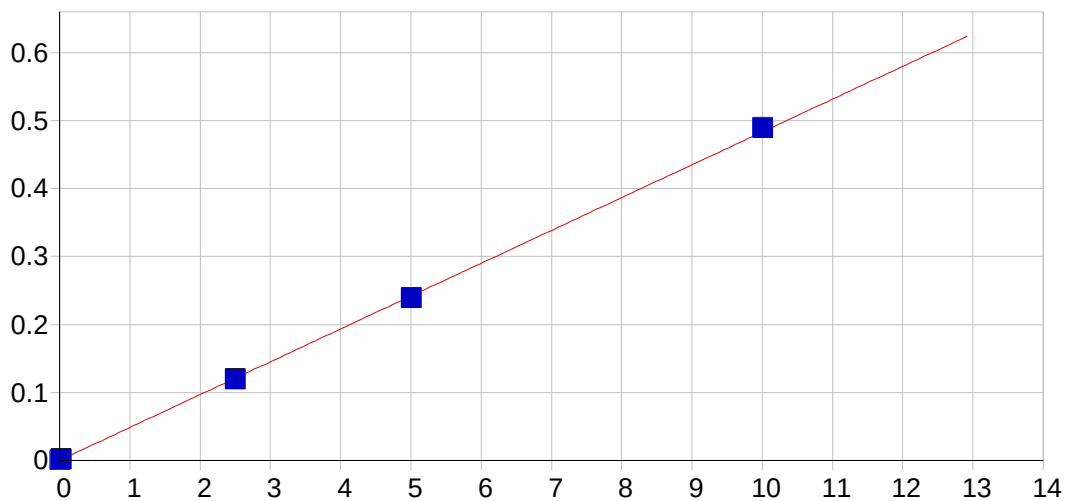
Status: OK.

Std Error of Est: 0.000025

Predicted MDL: 0.002713

Predicted MQL: 0.009045

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00046 | .000    | 1        |
| S1        | .02000       | .02138      | .001       | 6.92    | .00113  | .000    | 1        |
| S3        | 2.5000       | 2.4534      | -.047      | -1.86   | .18211  | .001    | 1        |
| S4        | 5.0000       | 4.9259      | -.074      | -1.48   | .36610  | .001    | 1        |
| S5        | 10.000       | 10.119      | .119       | 1.19    | .75258  | .002    | 1        |



As 189.042 {479}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

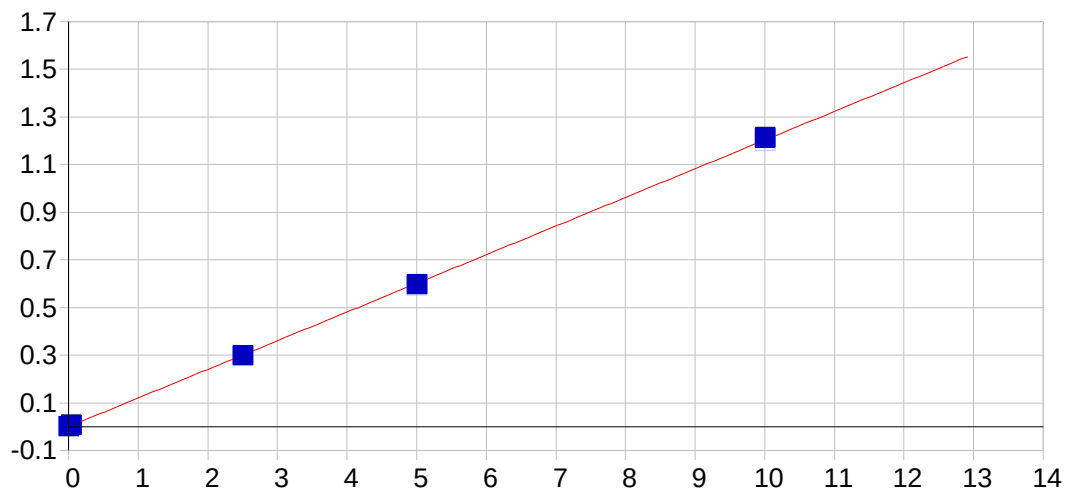
Weighting: 1/Conc

A0 (Offset): 0.000351

Re-Slope: 1.000000

A1 (Gain): 0.048287 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999911 Status: OK.  
 Std Error of Est: 0.000016  
 Predicted MDL: 0.002650  
 Predicted MQL: 0.008835

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00035 | .000    | 1        |
| S1        | .02000       | .02124      | .001       | 6.19    | .00138 | .000    | 1        |
| S3        | 2.5000       | 2.4525      | -.047      | -1.90   | .11878 | .001    | 1        |
| S4        | 5.0000       | 4.9339      | -.066      | -1.32   | .23860 | .000    | 1        |
| S5        | 10.000       | 10.112      | .112       | 1.12    | .48865 | .001    | 1        |

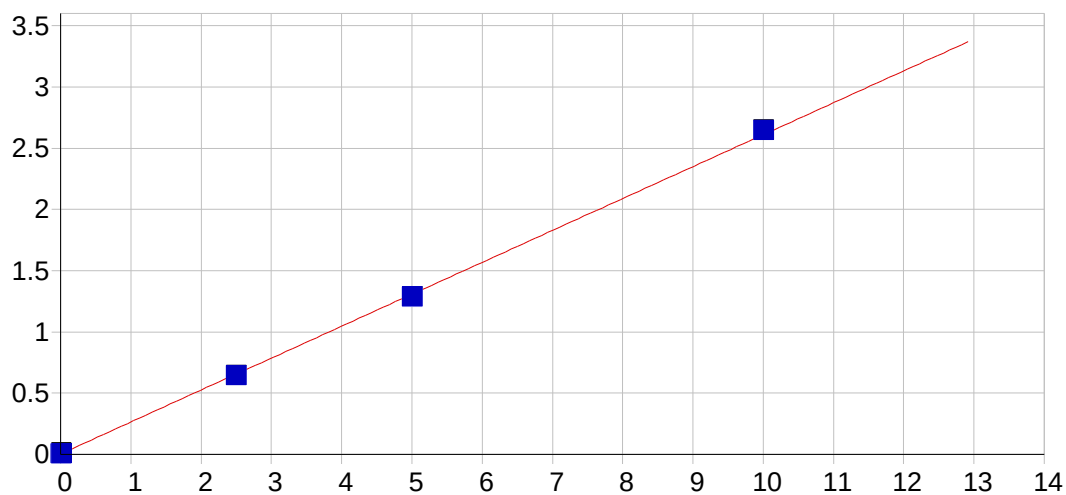


TI 190.856 {477}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000114 Re-Slope: 1.000000  
 A1 (Gain): 0.120314 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999966 Status: OK.  
 Std Error of Est: 0.000034  
 Predicted MDL: 0.001234  
 Predicted MQL: 0.004114

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00011 | .000    | 1        |
| S1        | .04000       | .04204      | .002       | 5.09    | .00482  | .000    | 1        |
| S3        | 2.5000       | 2.4754      | -.025      | -.984   | .29463  | .001    | 1        |
| S4        | 5.0000       | 4.9559      | -.044      | -.882   | .58998  | .001    | 1        |
| S5        | 10.000       | 10.067      | .067       | .667    | 1.1987  | .001    | 1        |

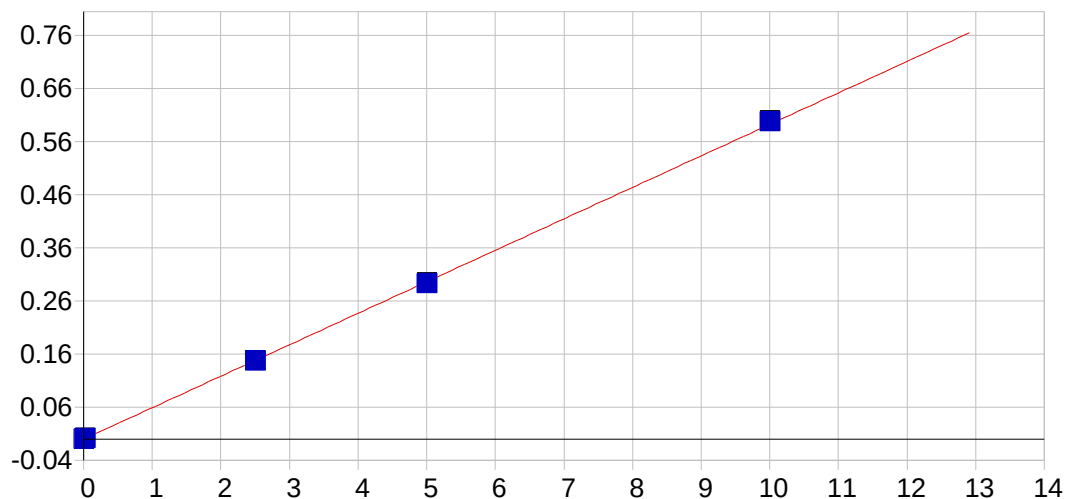


Pb 220.353 {453}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004448 Re-Slope: 1.000000  
 A1 (Gain): 0.260537 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999874 Status: OK.  
 Std Error of Est: 0.000077  
 Predicted MDL: 0.000935  
 Predicted MQL: 0.003115

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00445 | .000    | 1        |
| S1        | .01200       | .01285      | .001       | 7.11    | .00774 | .000    | 1        |
| S3        | 2.5000       | 2.4516      | -.048      | -1.94   | .64230 | .001    | 1        |
| S4        | 5.0000       | 4.9116      | -.088      | -1.77   | 1.2823 | .002    | 1        |
| S5        | 10.000       | 10.136      | .136       | 1.36    | 2.6417 | .003    | 1        |



Se 196.090 {472}

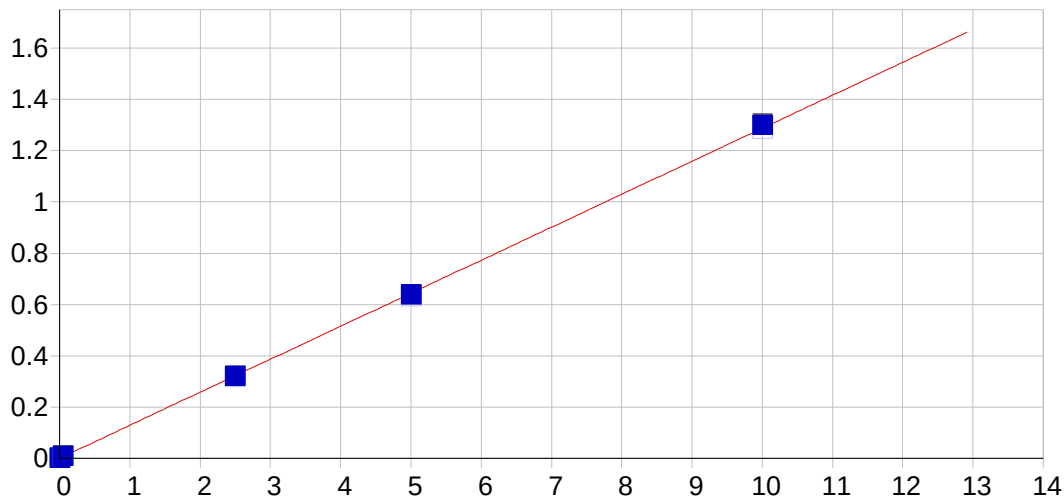
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000244 Re-Slope: 1.000000  
 A1 (Gain): 0.059291 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999952  
 Std Error of Est: 0.000014  
 Predicted MDL: 0.003005  
 Predicted MQL: 0.010016

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00024 | .000    | 1        |
| S1        | .02000       | .02200      | .002       | 10.0    | .00106  | .000    | 1        |
| S3        | 2.5000       | 2.4731      | -.027      | -1.07   | .14636  | .001    | 1        |
| S4        | 5.0000       | 4.9465      | -.054      | -1.07   | .29297  | .001    | 1        |
| S5        | 10.000       | 10.078      | .078       | .784    | .59719  | .002    | 1        |



Sb 206.833 {463}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

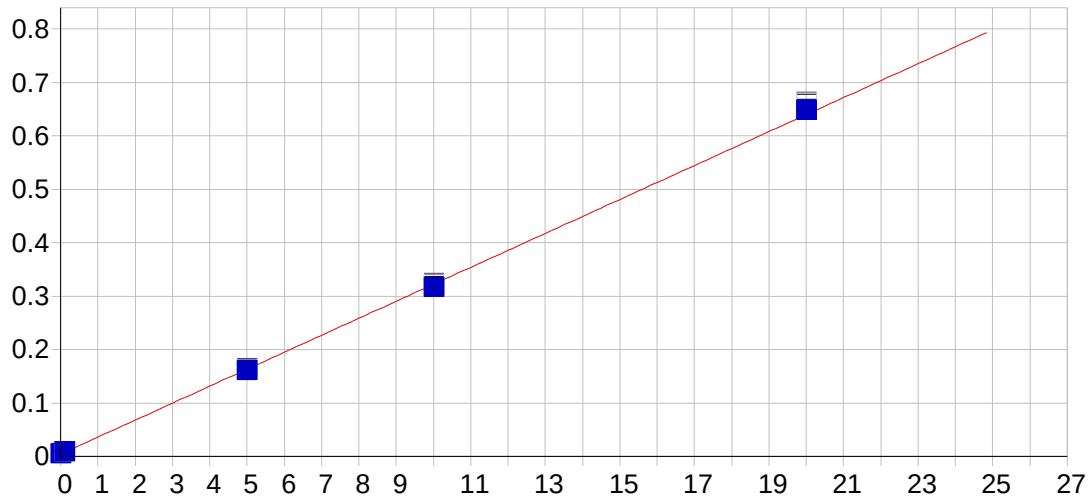
Weighting: 1/Conc

A0 (Offset): 0.000376  
 A1 (Gain): 0.128690  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999934  
 Std Error of Est: 0.000056  
 Predicted MDL: 0.001743  
 Predicted MQL: 0.005811

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00038 | .000    | 1        |
| S1        | .05000       | .05458      | .005       | 9.16    | .00724 | .000    | 1        |
| S3        | 2.5000       | 2.4754      | -.025      | -.985   | .31532 | .001    | 1        |
| S4        | 5.0000       | 4.9341      | -.066      | -1.32   | .62811 | .002    | 1        |
| S5        | 10.000       | 10.086      | .086       | .860    | 1.2839 | .004    | 1        |

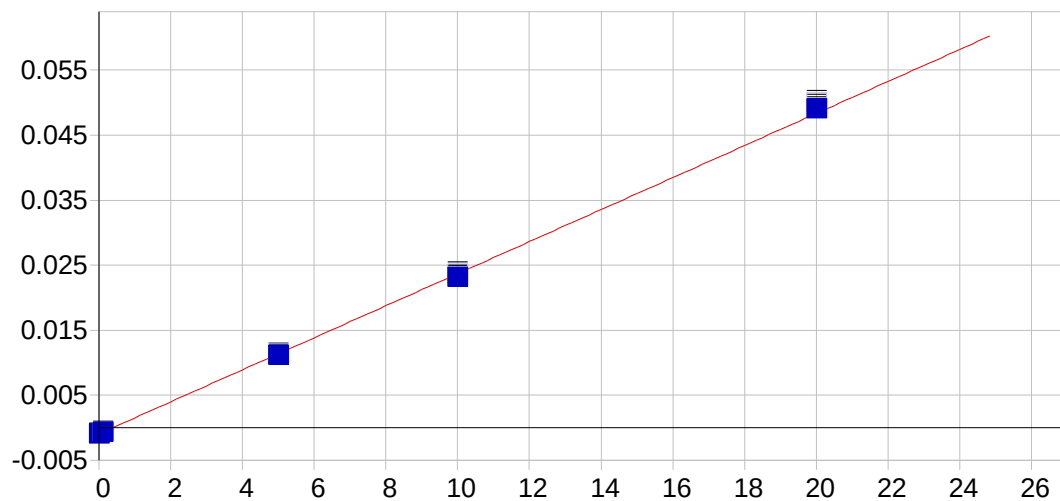


AI 308.215 {109}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004298 Re-Slope: 1.000000  
 A1 (Gain): 0.031783 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999845 Status: OK.  
 Std Error of Est: 0.000044  
 Predicted MDL: 0.002790  
 Predicted MQL: 0.009300

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00430 | .000    | 1        |
| S1        | .10000       | .11682      | .017       | 16.8    | .00823 | .000    | 1        |
| S3        | 5.0000       | 4.9093      | -.091      | -1.81   | .16349 | .000    | 1        |
| S4        | 10.000       | 9.8134      | -.187      | -1.87   | .32252 | .001    | 1        |
| S5        | 20.000       | 20.260      | .260       | 1.30    | .66087 | .001    | 1        |



AI 309.271 {109}

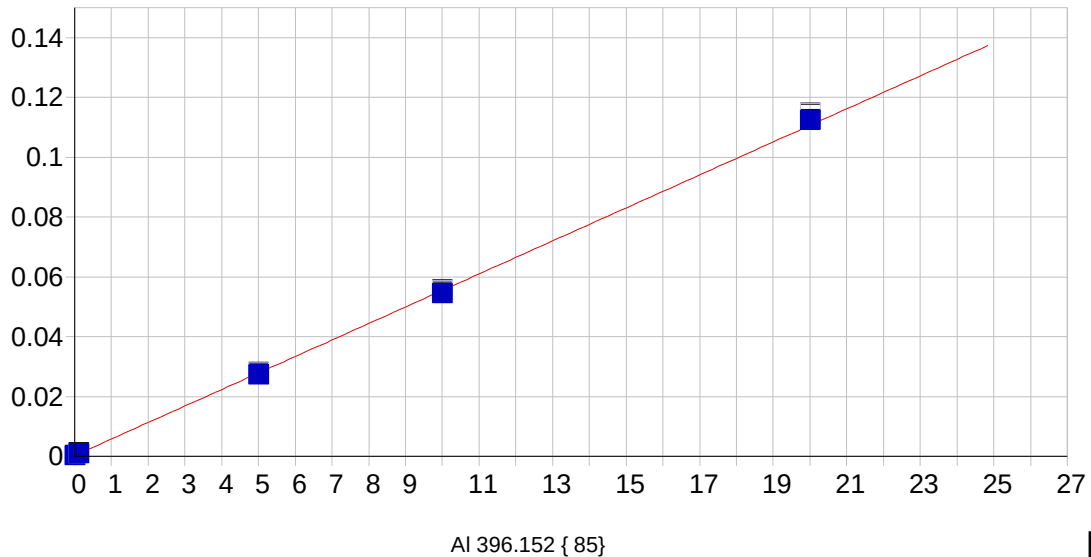
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000933 Re-Slope: 1.000000  
 A1 (Gain): 0.002464 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999838  
 Std Error of Est: 0.000003  
 Predicted MDL: 0.029264  
 Predicted MQL: 0.097547

Status: OK.

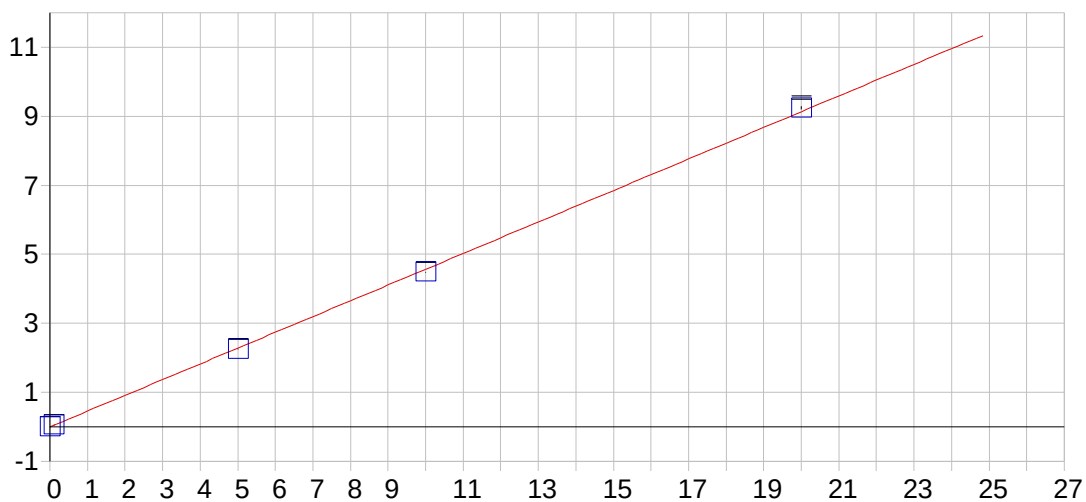
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | -.00093 | .000    | 1        |
| S1        | .10000       | .11233      | .012       | 12.3    | -.00064 | .000    | 1        |
| S3        | 5.0000       | 4.9120      | -.088      | -1.76   | .01141  | .000    | 1        |
| S4        | 10.000       | 9.7855      | -.214      | -2.14   | .02366  | .000    | 1        |
| S5        | 20.000       | 20.290      | .290       | 1.45    | .05003  | .000    | 1        |



Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000261 Re-Slope: 1.000000  
 A1 (Gain): 0.005519 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999809 Status: OK.  
 Std Error of Est: 0.000008  
 Predicted MDL: 0.017018  
 Predicted MQL: 0.056726

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00026 | .000    | 1        |
| S1        | .10000       | .11547      | .015       | 15.5    | .00094 | .000    | 1        |
| S3        | 5.0000       | 4.8883      | -.112      | -2.23   | .02779 | .000    | 1        |
| S4        | 10.000       | 9.7903      | -.210      | -2.10   | .05539 | .000    | 1        |
| S5        | 20.000       | 20.305      | .305       | 1.53    | .11453 | .000    | 1        |

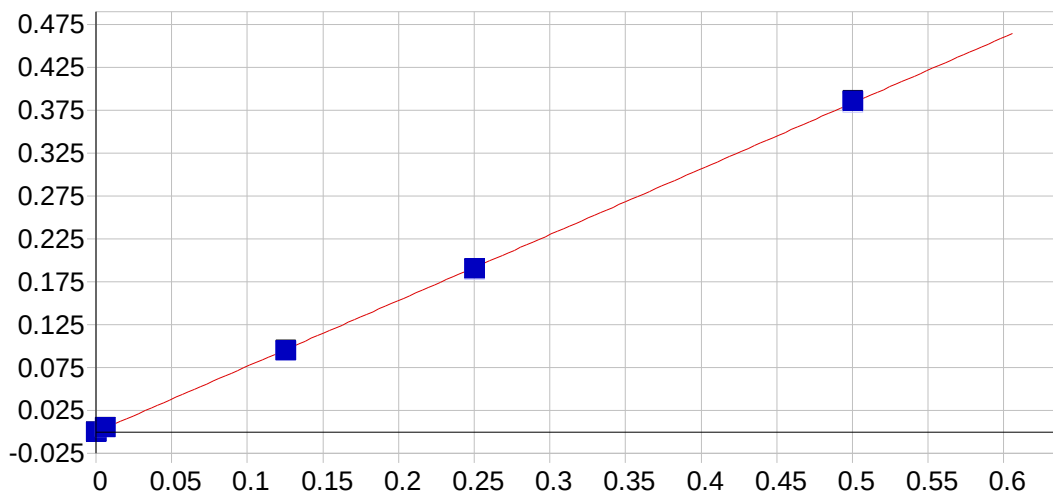


Ba 493.409 { 68}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000919 Re-Slope: 1.000000  
 A1 (Gain): 0.456706 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999898 Status: OK.  
 Std Error of Est: 0.000500  
 Predicted MDL: 0.000509  
 Predicted MQL: 0.001697

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | -.00092 | .000    | 1        |
| S1        | .10000       | .10835      | .008       | 8.35    | .04856  | .000    | 1        |
| S3        | 5.0000       | 4.9339      | -.066      | -1.32   | 2.2524  | .009    | 1        |
| S5        | 20.000       | 20.230      | .230       | 1.15    | 9.2383  | .047    | 1        |
| S4        | 10.000       | 9.8276      | -.172      | -1.72   | 4.4874  | .010    | 1        |



Be 234.861 {144}

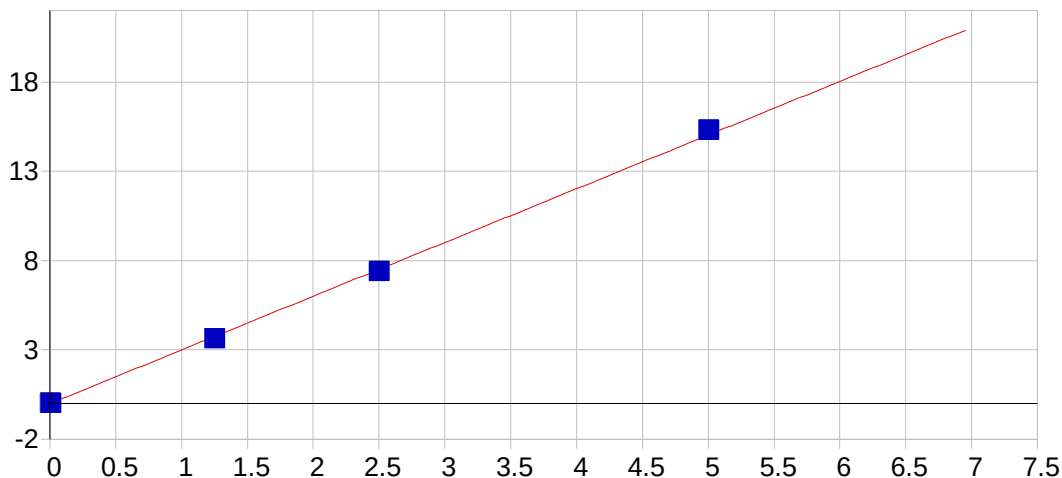
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000238 Re-Slope: 1.000000  
 A1 (Gain): 0.767402 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999927  
 Std Error of Est: 0.000027  
 Predicted MDL: 0.000076  
 Predicted MQL: 0.000254

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00024 | .000    | 1        |
| S1        | .00600       | .00667      | .001       | 11.1    | .00483  | .000    | 1        |
| S3        | .12500       | .12372      | -.001      | -1.03   | .09410  | .000    | 1        |
| S4        | .25000       | .24763      | -.002      | -.947   | .18859  | .000    | 1        |
| S5        | .50000       | .50299      | .003       | .598    | .38334  | .001    | 1        |



Cd 226.502 {449}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

Weighting: 1/Conc

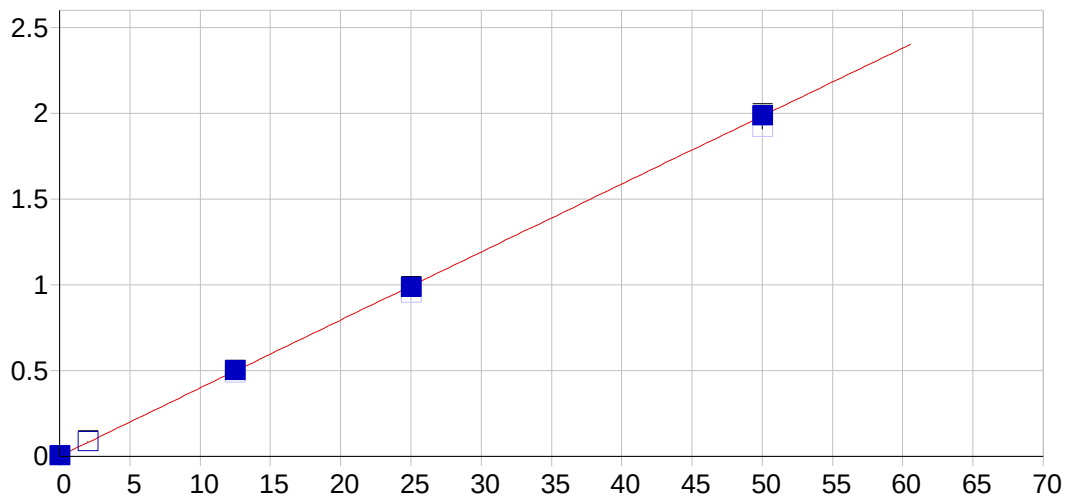
A0 (Offset): -0.003930  
 A1 (Gain): 3.006275  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999789  
 Std Error of Est: 0.000577  
 Predicted MDL: 0.000091  
 Predicted MQL: 0.000304

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00393 | .000    | 1        |
| S1        | .00600       | .00619      | .000       | 3.16    | .01471  | .000    | 1        |
| S3        | 1.2500       | 1.2070      | -.043      | -3.44   | 3.6254  | .010    | 1        |
| S4        | 2.5000       | 2.4571      | -.043      | -1.72   | 7.3845  | .011    | 1        |
| S5        | 5.0000       | 5.0857      | .086       | 1.71    | 15.289  | .016    | 1        |



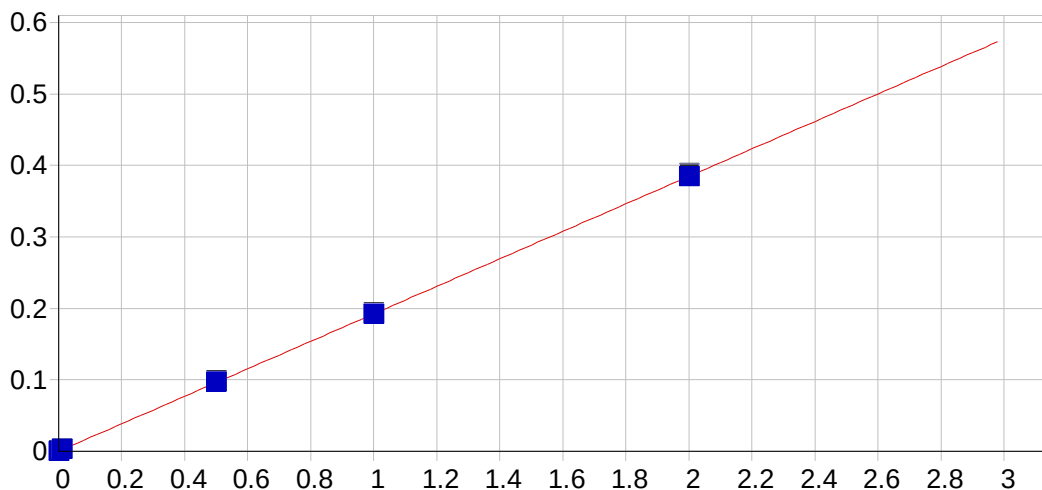


Ca 373.690 { 90}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002019 Re-Slope: 1.000000  
 A1 (Gain): 0.039634 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999927 Status: OK.  
 Std Error of Est: 0.000254  
 Predicted MDL: 0.017303  
 Predicted MQL: 0.057678

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.1446      | .145       | 7.23    | .08702 | .001    | 1        |
| S0        | .00000       | -.00014     | -.000      | .000    | .00201 | .001    | 1        |
| S3        | 12.500       | 12.562      | .062       | .497    | .48339 | .001    | 1        |
| S4        | 25.000       | 24.805      | -.195      | -.780   | .95211 | .004    | 1        |
| S5        | 50.000       | 49.983      | -.017      | -.033   | 1.9170 | .012    | 1        |



Cr 267.716 {126}

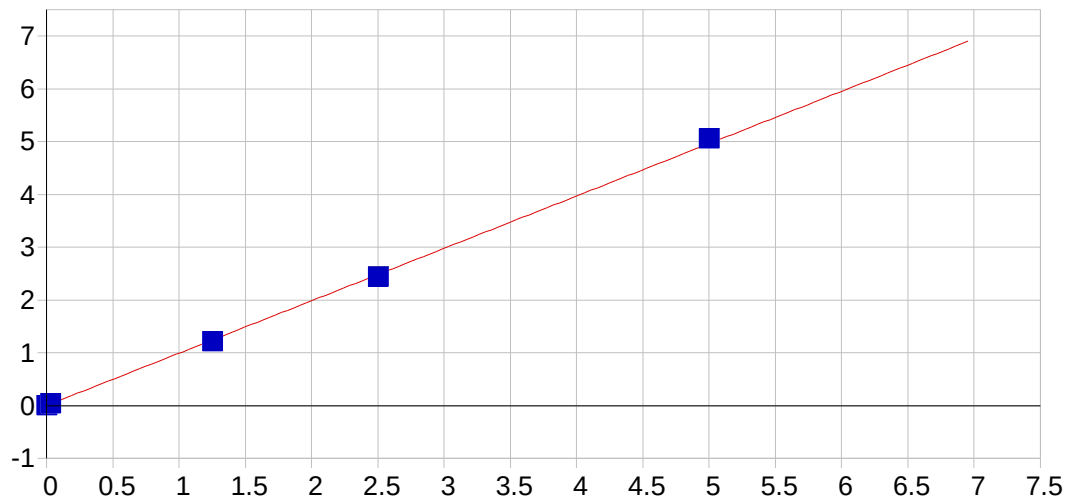
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000064 Re-Slope: 1.000000  
 A1 (Gain): 0.192369 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999959  
 Std Error of Est: 0.000013  
 Predicted MDL: 0.000419  
 Predicted MQL: 0.001398

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00006 | .000    | 1        |
| S1        | .01000       | .01145      | .001       | 14.5    | .00228 | .000    | 1        |
| S3        | .50000       | .50484      | .005       | .968    | .09794 | .000    | 1        |
| S4        | 1.0000       | .99414      | -.006      | -.586   | .19282 | .000    | 1        |
| S5        | 2.0000       | 1.9996      | -.000      | -.022   | .38774 | .001    | 1        |



Co 228.616 {447}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

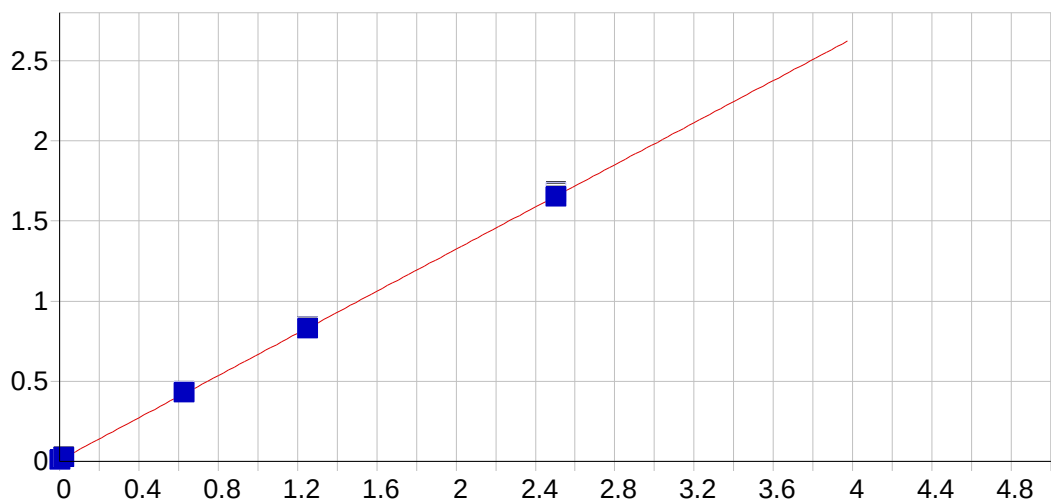
Weighting: 1/Conc

A0 (Offset): -0.000076  
 A1 (Gain): 0.992467  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999791  
 Std Error of Est: 0.000425  
 Predicted MDL: 0.000234  
 Predicted MQL: 0.000781

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00008 | .000    | 1        |
| S1        | .03000       | .03089      | .001       | 2.98    | .03038  | .000    | 1        |
| S3        | 1.2500       | 1.2130      | -.037      | -2.96   | 1.2047  | .002    | 1        |
| S4        | 2.5000       | 2.4492      | -.051      | -2.03   | 2.4326  | .003    | 1        |
| S5        | 5.0000       | 5.0870      | .087       | 1.74    | 5.0525  | .002    | 1        |

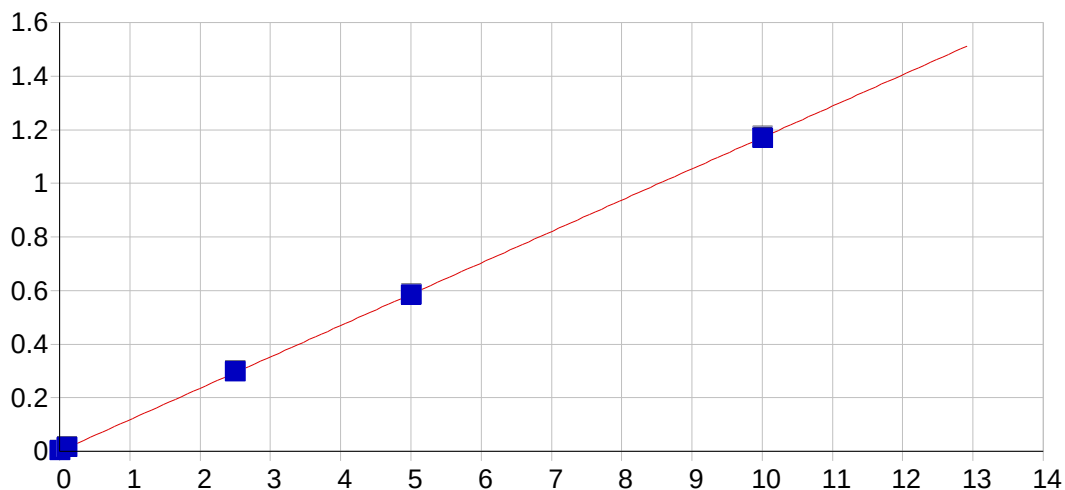


Cu 224.700 {450}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.009262 Re-Slope: 1.000000  
 A1 (Gain): 0.657696 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999906 Status: OK.  
 Std Error of Est: 0.000111  
 Predicted MDL: 0.000442  
 Predicted MQL: 0.001472

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00926 | .000    | 1        |
| S1        | .02000       | .02346      | .003       | 17.3    | .02490 | .000    | 1        |
| S3        | .62500       | .63533      | .010       | 1.65    | .43376 | .002    | 1        |
| S4        | 1.2500       | 1.2405      | -.009      | -.758   | .83843 | .001    | 1        |
| S5        | 2.5000       | 2.4957      | -.004      | -.172   | 1.6772 | .004    | 1        |



Fe 240.488 {140}

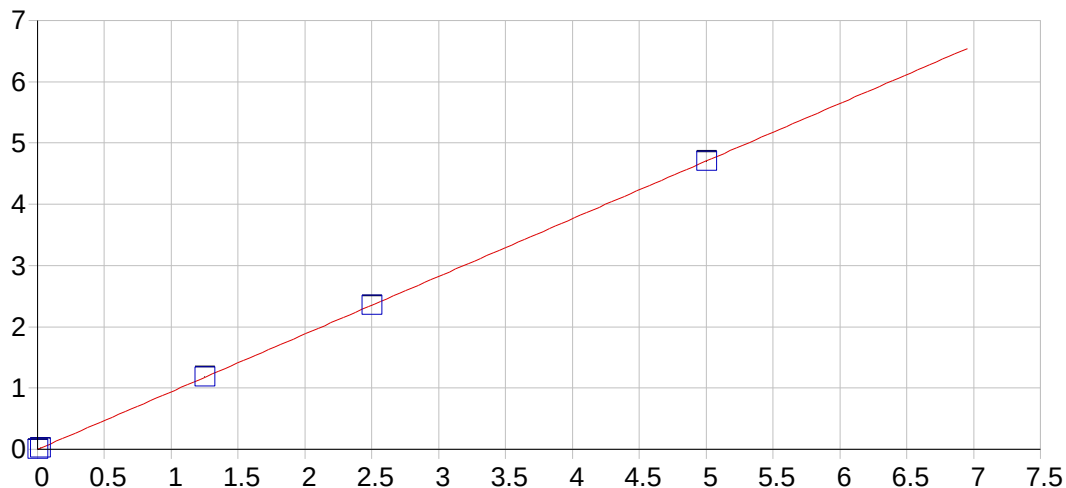
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001219 Re-Slope: 1.000000  
 A1 (Gain): 0.116973 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999900  
 Std Error of Est: 0.000090  
 Predicted MDL: 0.000604  
 Predicted MQL: 0.002014

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00002     | -.000      | .000    | .00122 | .000    | 1        |
| S1        | .10000       | .11733      | .017       | 17.3    | .01500 | .000    | 1        |
| S3        | 2.5000       | 2.5300      | .030       | 1.20    | .29826 | .000    | 1        |
| S4        | 5.0000       | 4.9769      | -.023      | -.462   | .58557 | .001    | 1        |
| S5        | 10.000       | 9.9757      | -.024      | -.243   | 1.1725 | .003    | 1        |



Mn 257.610 {131}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

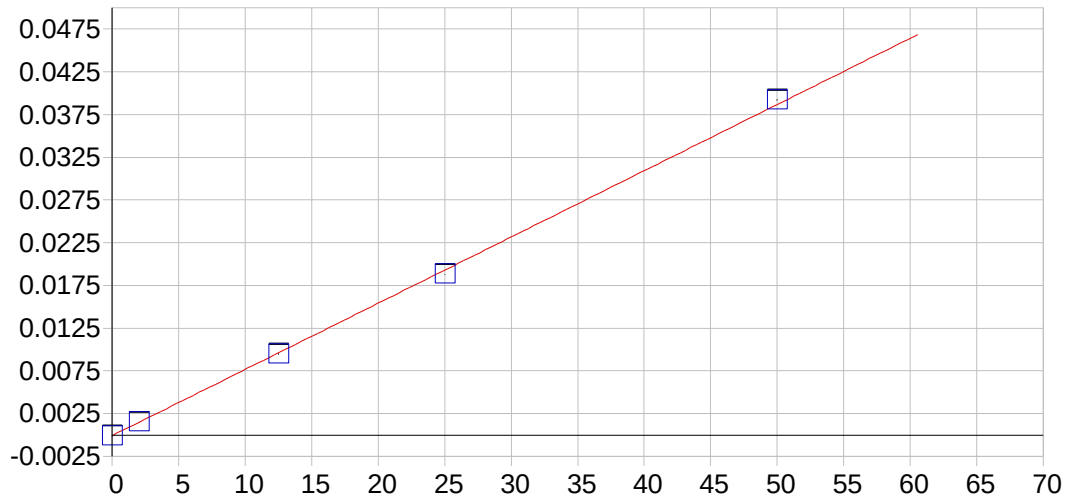
Weighting: 1/Conc

A0 (Offset): 0.000063  
 A1 (Gain): 0.941077  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999965  
 Std Error of Est: 0.000134  
 Predicted MDL: 0.000072  
 Predicted MQL: 0.000241

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00006 | .000    | 1        |
| S1        | .02000       | .02323      | .003       | 16.2    | .02192 | .000    | 1        |
| S3        | 1.2500       | 1.2592      | .009       | .736    | 1.1851 | .001    | 1        |
| S4        | 2.5000       | 2.4944      | -.006      | -.222   | 2.3475 | .002    | 1        |
| S5        | 5.0000       | 4.9931      | -.007      | -.137   | 4.6990 | .011    | 1        |

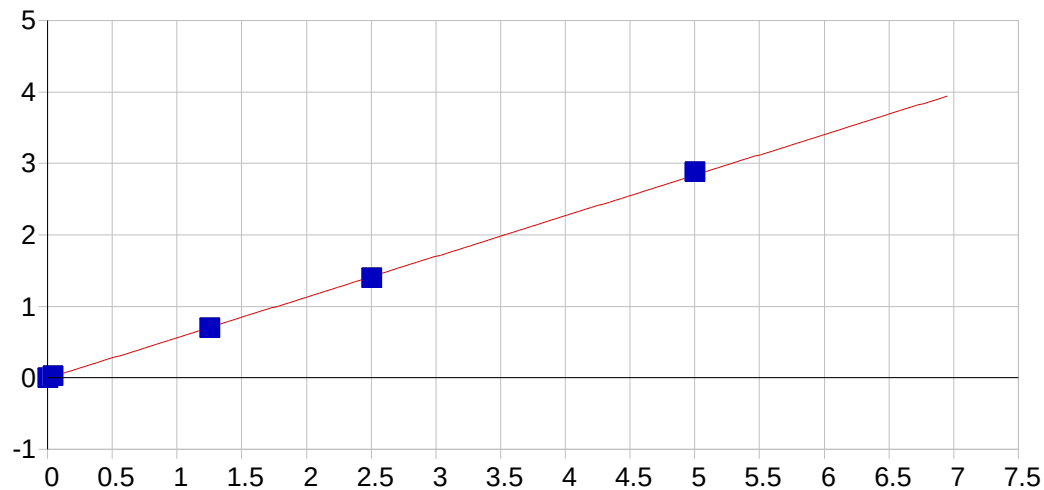


Mg 279.079 {121}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000079 Re-Slope: 1.000000  
 A1 (Gain): 0.000775 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999845 Status: OK.  
 Std Error of Est: 0.000007  
 Predicted MDL: 0.047445  
 Predicted MQL: 0.158149

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S2        | 2.0000       | 2.0701      | .070       | 3.50    | .00153  | .000    | 1        |
| S0        | .00000       | -.00002     | -.000      | .000    | -.00008 | .000    | 1        |
| S3        | 12.500       | 12.333      | -.167      | -1.33   | .00948  | .000    | 1        |
| S4        | 25.000       | 24.413      | -.587      | -2.35   | .01884  | .000    | 1        |
| S5        | 50.000       | 50.683      | .683       | 1.37    | .03920  | .000    | 1        |



Ni 231.604 {445}

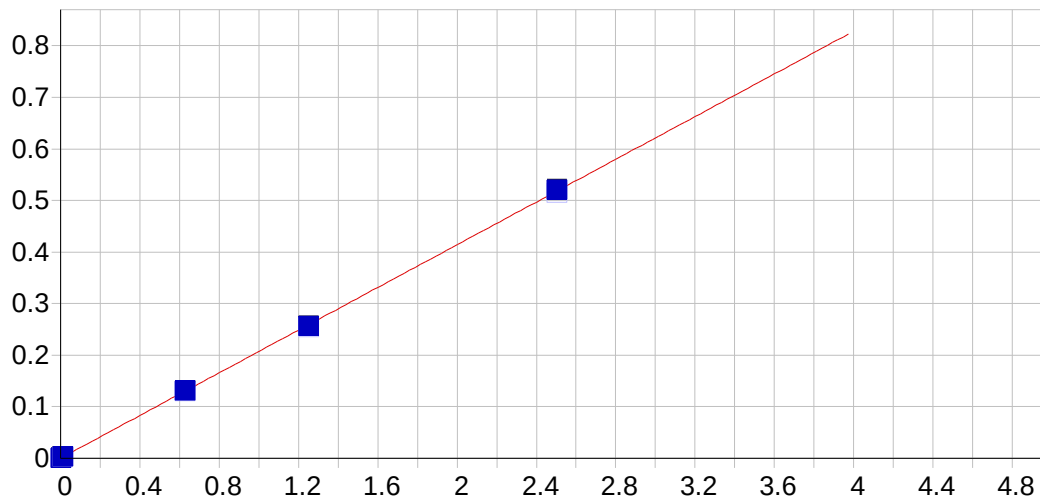
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.006654 Re-Slope: 1.000000  
 A1 (Gain): 0.568490 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999872  
 Std Error of Est: 0.000220  
 Predicted MDL: 0.000437  
 Predicted MQL: 0.001456

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00665 | .000    | 1        |
| S1        | .04000       | .04231      | .002       | 5.77    | .01741  | .000    | 1        |
| S3        | 1.2500       | 1.2255      | -.025      | -1.96   | .69079  | .002    | 1        |
| S4        | 2.5000       | 2.4561      | -.044      | -1.75   | 1.3912  | .001    | 1        |
| S5        | 5.0000       | 5.0661      | .066       | 1.32    | 2.8765  | .001    | 1        |



Ag 328.068 {103}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

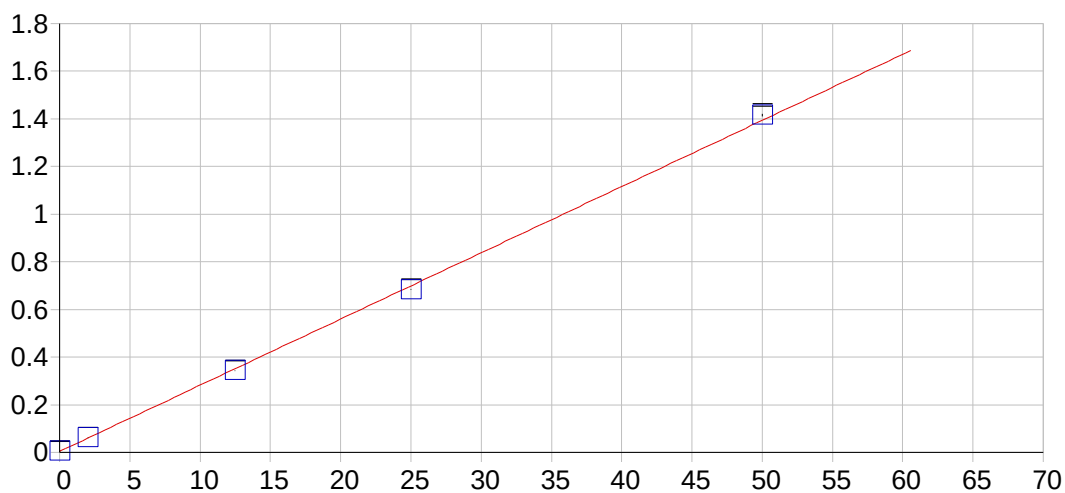
Weighting: 1/Conc

A0 (Offset): 0.000222  
 A1 (Gain): 0.206987  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999953  
 Std Error of Est: 0.000017  
 Predicted MDL: 0.000582  
 Predicted MQL: 0.001939

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00022 | .000    | 1        |
| S1        | .01000       | .01137      | .001       | 13.7    | .00253 | .000    | 1        |
| S3        | .62500       | .62843      | .003       | .549    | .12883 | .001    | 1        |
| S4        | 1.2500       | 1.2357      | -.014      | -1.14   | .25306 | .000    | 1        |
| S5        | 2.5000       | 2.5095      | .009       | .379    | .51376 | .001    | 1        |

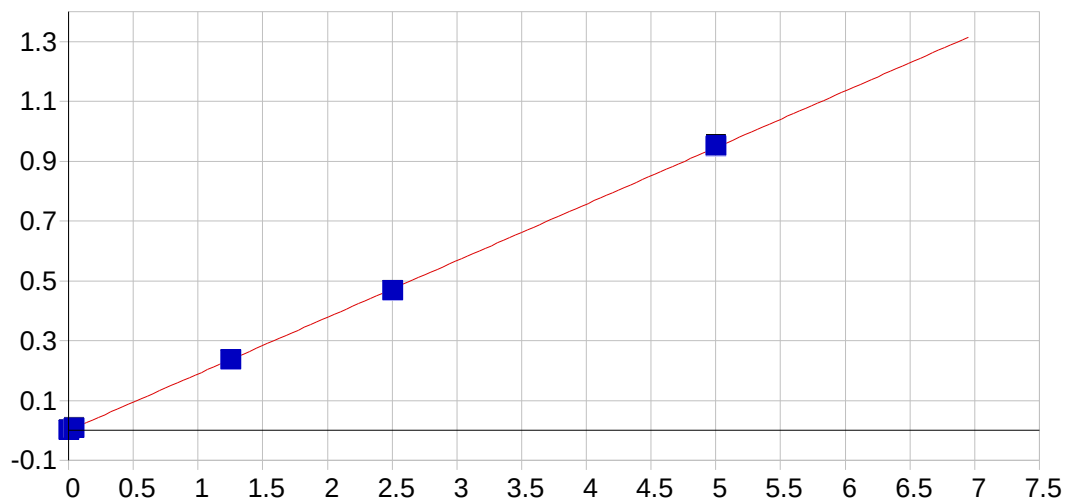


Na 589.592 { 57}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004173 Re-Slope: 1.000000  
 A1 (Gain): 0.027788 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999806 Status: OK.  
 Std Error of Est: 0.000299  
 Predicted MDL: 0.008831  
 Predicted MQL: 0.029437

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.0628      | .063       | 3.14    | .06149 | .000    | 1        |
| S0        | .00000       | -.00000     | -.000      | .000    | .00417 | .000    | 1        |
| S3        | 12.500       | 12.186      | -.314      | -2.52   | .34278 | .001    | 1        |
| S4        | 25.000       | 24.452      | -.548      | -2.19   | .68363 | .001    | 1        |
| S5        | 50.000       | 50.800      | .800       | 1.60    | 1.4158 | .006    | 1        |



V 292.402 {115}

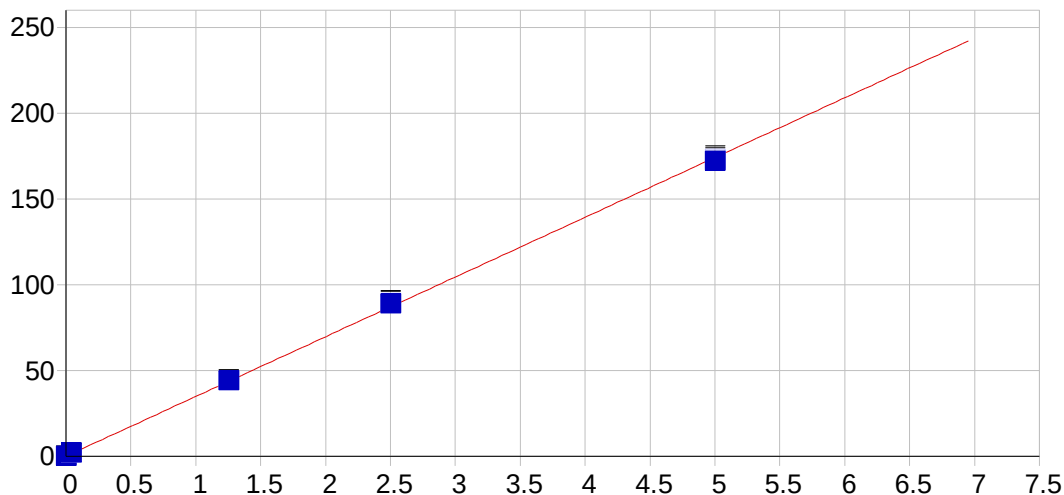
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000116 Re-Slope: 1.000000  
 A1 (Gain): 0.189134 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999953  
 Std Error of Est: 0.000044  
 Predicted MDL: 0.000485  
 Predicted MQL: 0.001616

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00012 | .000    | 1        |
| S1        | .04000       | .04306      | .003       | 7.65    | .00791  | .000    | 1        |
| S3        | 1.2500       | 1.2443      | -.006      | -.460   | .23367  | .001    | 1        |
| S4        | 2.5000       | 2.4705      | -.029      | -1.18   | .46405  | .001    | 1        |
| S5        | 5.0000       | 5.0322      | .032       | .644    | .94547  | .003    | 1        |



Zn 206.200 {163}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

Weighting: 1/Conc

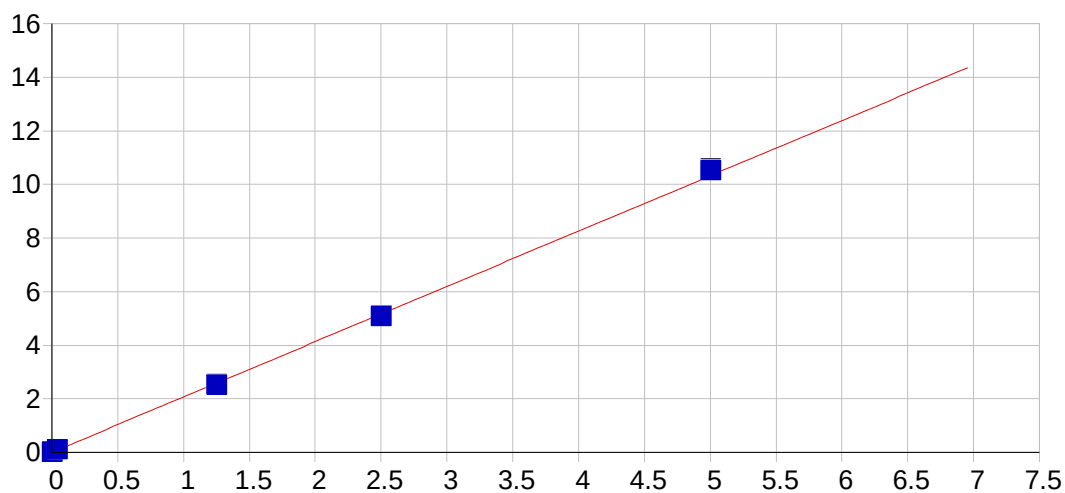
A0 (Offset): 0.048086  
 A1 (Gain): 34.818761  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999818  
 Std Error of Est: 0.016151  
 Predicted MDL: 0.000485  
 Predicted MQL: 0.001616

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .04781 | .039    | 1        |
| S1        | .04000       | .04737      | .007       | 18.4    | 1.7066 | .013    | 1        |
| S3        | 1.2500       | 1.2587      | .009       | .700    | 44.139 | .350    | 1        |
| S4        | 2.5000       | 2.5490      | .049       | 1.96    | 89.328 | 1.39    | 1        |
| S5        | 5.0000       | 4.9349      | -.065      | -1.30   | 172.93 | 1.92    | 1        |



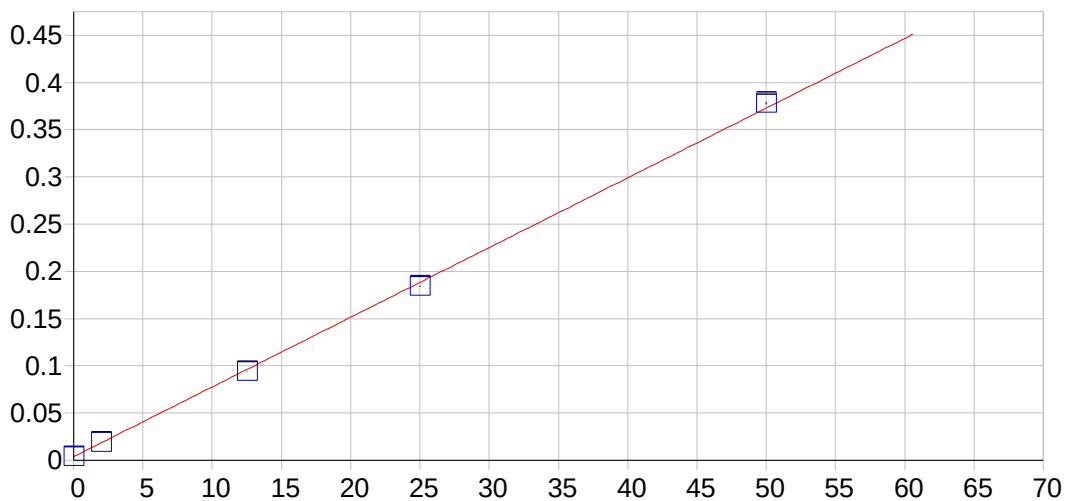


Zn 213.856 {458}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004656 Re-Slope: 1.000000  
 A1 (Gain): 2.062946 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999778 Status: OK.  
 Std Error of Est: 0.001058  
 Predicted MDL: 0.000096  
 Predicted MQL: 0.000320

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00465 | .000    | 1        |
| S1        | .04000       | .04293      | .003       | 7.32    | .09379 | .000    | 1        |
| S3        | 1.2500       | 1.2116      | -.038      | -3.07   | 2.5206 | .007    | 1        |
| S4        | 2.5000       | 2.4487      | -.051      | -2.05   | 5.0892 | .003    | 1        |
| S5        | 5.0000       | 5.0867      | .087       | 1.73    | 10.564 | .013    | 1        |



K 766.490 {44}

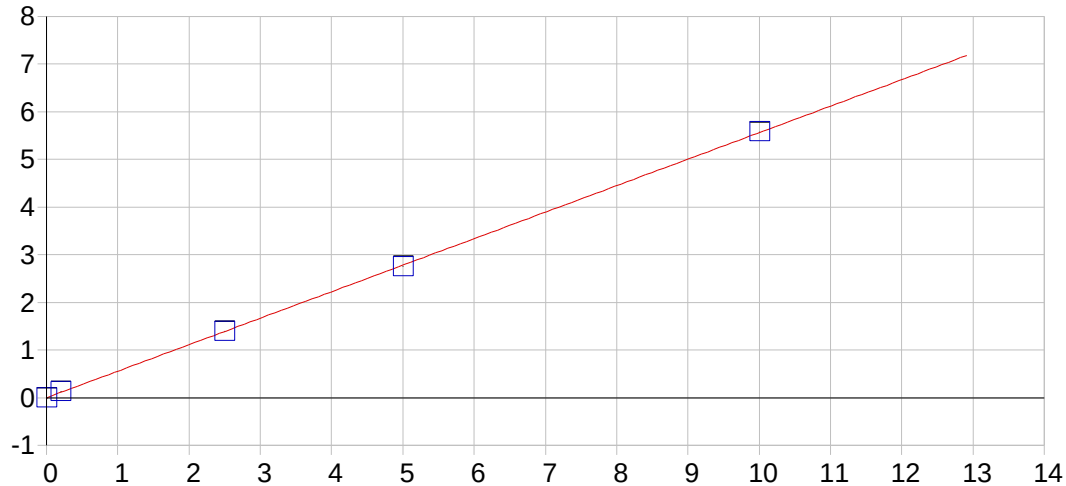
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003843 Re-Slope: 1.000000  
 A1 (Gain): 0.007381 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999817  
 Std Error of Est: 0.000077  
 Predicted MDL: 0.031602  
 Predicted MQL: 0.105339

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.0865      | .087       | 4.33    | .01924 | .000    | 1        |
| S0        | .00000       | -.00003     | -.000      | .000    | .00384 | .000    | 1        |
| S3        | 12.500       | 12.196      | -.304      | -2.43   | .09387 | .001    | 1        |
| S4        | 25.000       | 24.481      | -.519      | -2.08   | .18454 | .001    | 1        |
| S5        | 50.000       | 50.736      | .736       | 1.47    | .37834 | .001    | 1        |



Mo 202.030 {467}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

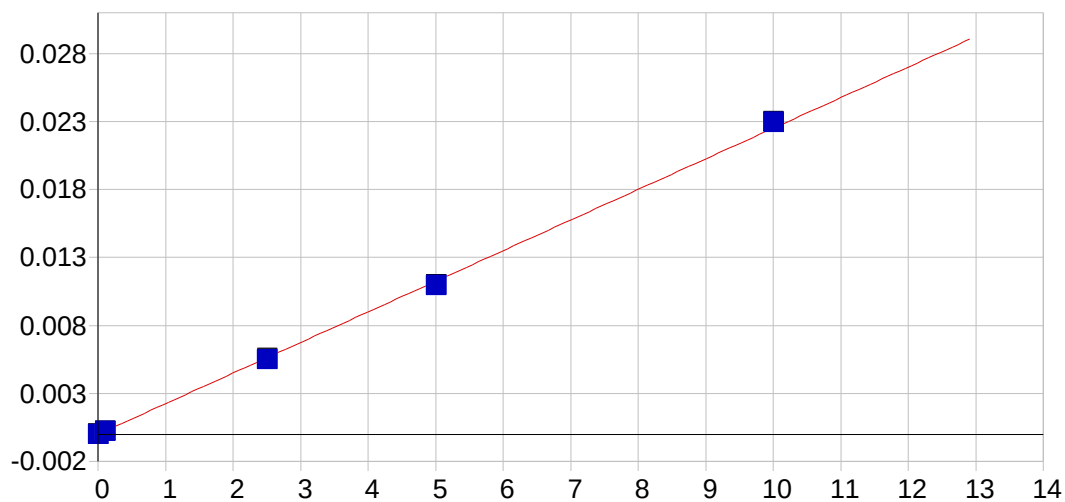
Weighting: 1/Conc

A0 (Offset): -0.000263  
 A1 (Gain): 0.556208  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999909  
 Std Error of Est: 0.000575  
 Predicted MDL: 0.000326  
 Predicted MQL: 0.001087

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00002     | -.000      | .000    | -.00027 | .000    | 1        |
| S1        | .20000       | .22264      | .023       | 11.3    | .12357  | .001    | 1        |
| S3        | 2.5000       | 2.4996      | -.000      | -.016   | 1.3900  | .004    | 1        |
| S4        | 5.0000       | 4.9475      | -.052      | -1.05   | 2.7516  | .004    | 1        |
| S5        | 10.000       | 10.030      | .030       | .302    | 5.5786  | .005    | 1        |

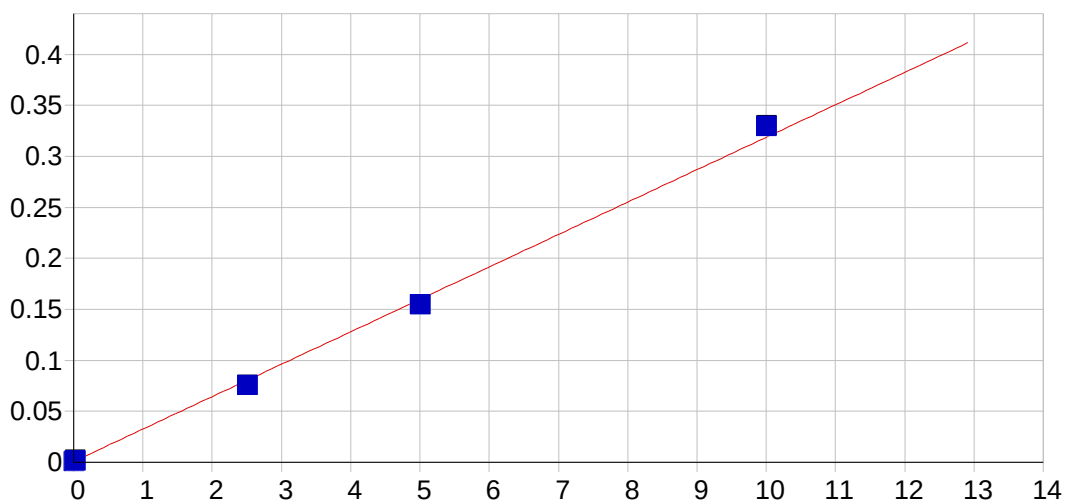


B 249.678 {135}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000010 Re-Slope: 1.000000  
 A1 (Gain): 0.002251 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999746 Status: OK.  
 Std Error of Est: 0.000003  
 Predicted MDL: 0.012383  
 Predicted MQL: 0.041278

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00001 | .000    | 1        |
| S1        | .10000       | .10073      | .001       | .730    | .00022  | .000    | 1        |
| S3        | 2.5000       | 2.4368      | -.063      | -2.53   | .00546  | .000    | 1        |
| S4        | 5.0000       | 4.8675      | -.133      | -2.65   | .01092  | .000    | 1        |
| S5        | 10.000       | 10.195      | .195       | 1.95    | .02289  | .000    | 1        |



S 182.034 {485}

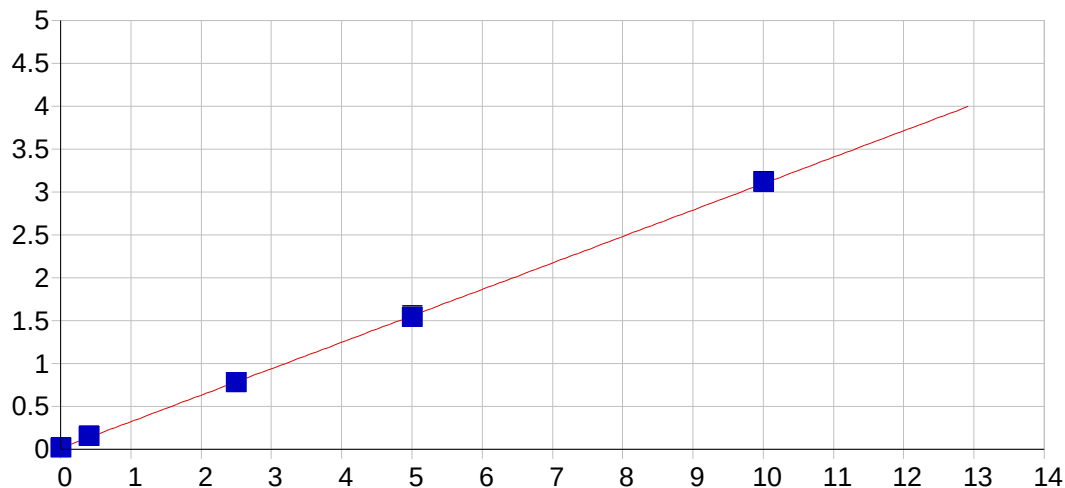
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000826 Re-Slope: 1.000000  
 A1 (Gain): 0.031798 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999195  
 Std Error of Est: 0.000031  
 Predicted MDL: 0.003335  
 Predicted MQL: 0.011118

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00083 | .000    | 1        |
| S1        | .02000       | .02283      | .003       | 14.1    | .00153 | .000    | 1        |
| S3        | 2.5000       | 2.3365      | -.164      | -6.54   | .07503 | .000    | 1        |
| S4        | 5.0000       | 4.8272      | -.173      | -3.46   | .15414 | .000    | 1        |
| S5        | 10.000       | 10.334      | .334       | 3.34    | .32906 | .001    | 1        |



Si 288.158 {117}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

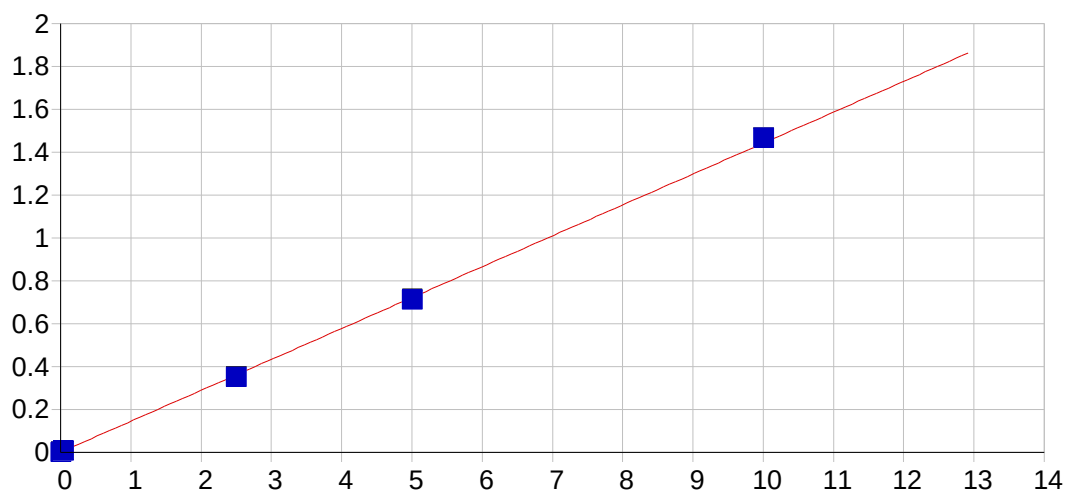
Weighting: 1/Conc

A0 (Offset): 0.014191  
 A1 (Gain): 0.308372  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999830  
 Std Error of Est: 0.000621  
 Predicted MDL: 0.002516  
 Predicted MQL: 0.008387

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00004     | -.000      | .000    | .01418 | .001    | 1        |
| S1        | .40000       | .44509      | .045       | 11.3    | .15134 | .001    | 1        |
| S3        | 2.5000       | 2.4730      | -.027      | -1.08   | .77640 | .003    | 1        |
| S4        | 5.0000       | 4.9459      | -.054      | -1.08   | 1.5385 | .012    | 1        |
| S5        | 10.000       | 10.036      | .036       | .360    | 3.1074 | .012    | 1        |

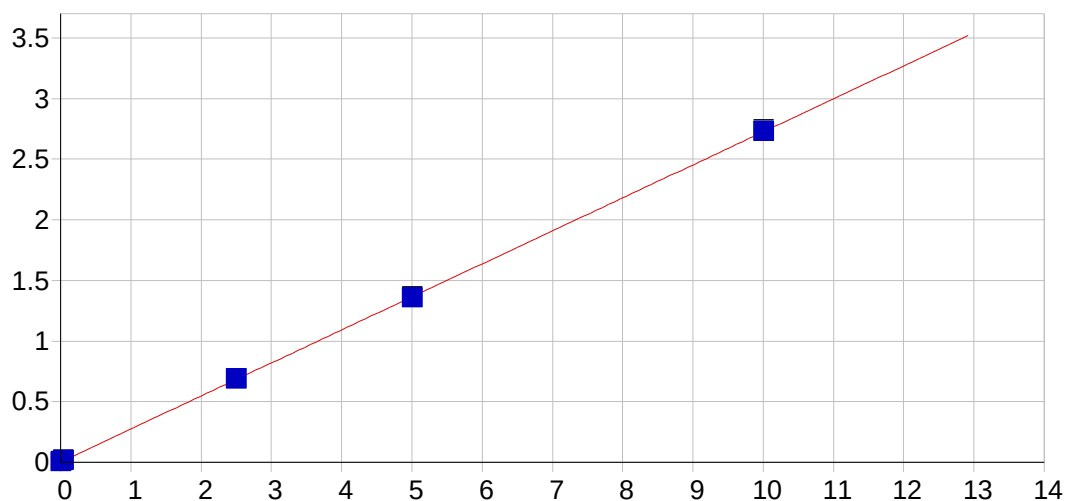


Sn 189.989 {477}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001243 Re-Slope: 1.000000  
 A1 (Gain): 0.144124 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999823 Status: OK.  
 Std Error of Est: 0.000093  
 Predicted MDL: 0.000778  
 Predicted MQL: 0.002594

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00124 | .000    | 1        |
| S1        | .04000       | .04017      | .000       | .432    | .00703 | .000    | 1        |
| S3        | 2.5000       | 2.4229      | -.077      | -3.08   | .35051 | .001    | 1        |
| S4        | 5.0000       | 4.9183      | -.082      | -1.63   | .71022 | .002    | 1        |
| S5        | 10.000       | 10.159      | .159       | 1.59    | 1.4656 | .001    | 1        |



Ti 336.121 {100}

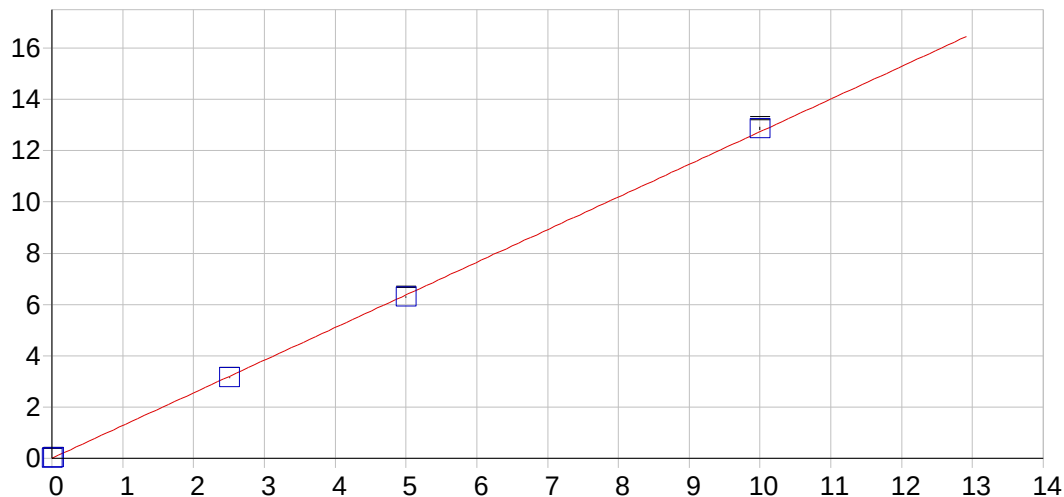
Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002952 Re-Slope: 1.000000  
 A1 (Gain): 0.272232 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999974  
 Std Error of Est: 0.000067  
 Predicted MDL: 0.001887  
 Predicted MQL: 0.006291

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00295 | .000    | 1        |
| S1        | .04000       | .04489      | .005       | 12.2    | .01517 | .000    | 1        |
| S3        | 2.5000       | 2.5111      | .011       | .445    | .68648 | .002    | 1        |
| S4        | 5.0000       | 4.9663      | -.034      | -.674   | 1.3548 | .008    | 1        |
| S5        | 10.000       | 10.018      | .018       | .177    | 2.7297 | .012    | 1        |



Li 670.784 { 50}

Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

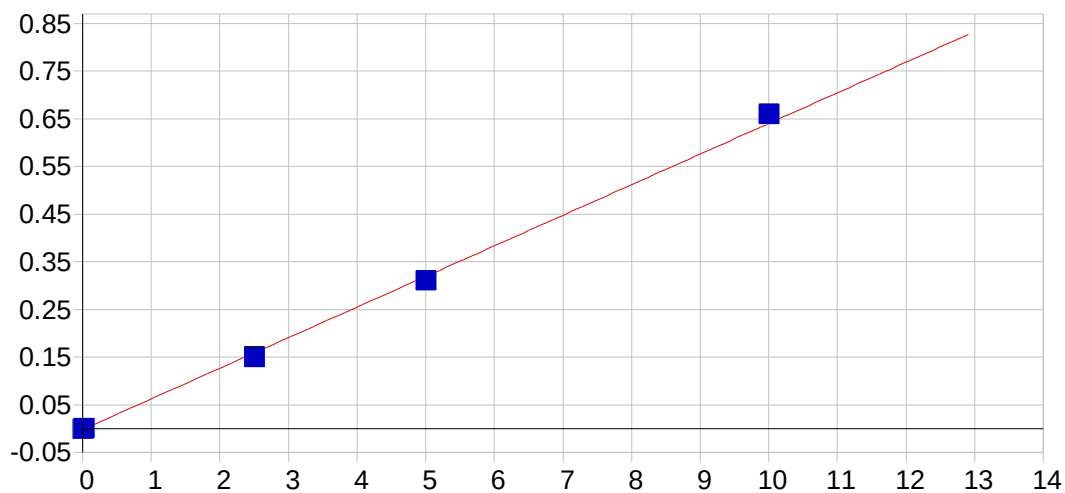
Weighting: 1/Conc

A0 (Offset): 0.005001  
 A1 (Gain): 1.273456  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999933  
 Std Error of Est: 0.000355  
 Predicted MDL: 0.001742  
 Predicted MQL: 0.005807

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00500 | .002    | 1        |
| S1        | .02000       | .02043      | .000       | 2.17    | .03102 | .001    | 1        |
| S3        | 2.5000       | 2.4682      | -.032      | -1.27   | 3.1481 | .005    | 1        |
| S4        | 5.0000       | 4.9318      | -.068      | -1.36   | 6.2854 | .025    | 1        |
| S5        | 10.000       | 10.100      | .100       | .996    | 12.866 | .066    | 1        |

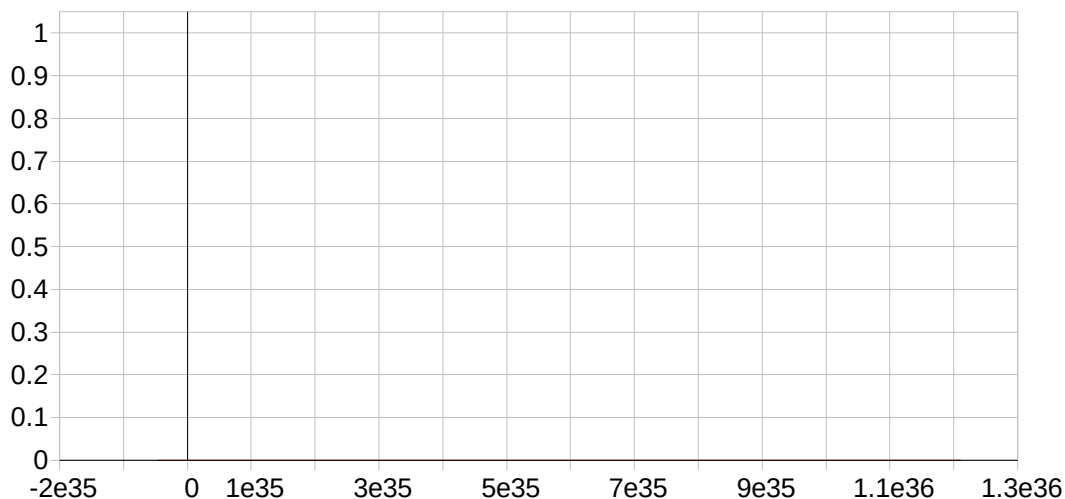


P 177.495 {490}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001958 Re-Slope: 1.000000  
 A1 (Gain): 0.064224 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999405 Status: OK.  
 Std Error of Est: 0.000053  
 Predicted MDL: 0.001851  
 Predicted MQL: 0.006169

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00196 | .000    | 1        |
| S1        | .02000       | .02129      | .001       | 6.44    | -.00059 | .000    | 1        |
| S3        | 2.5000       | 2.3566      | -.143      | -5.74   | .14916  | .001    | 1        |
| S4        | 5.0000       | 4.8545      | -.145      | -2.91   | .30935  | .001    | 1        |
| S5        | 10.000       | 10.288      | .288       | 2.88    | .65782  | .001    | 1        |



Y 224.306 {450}\*

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

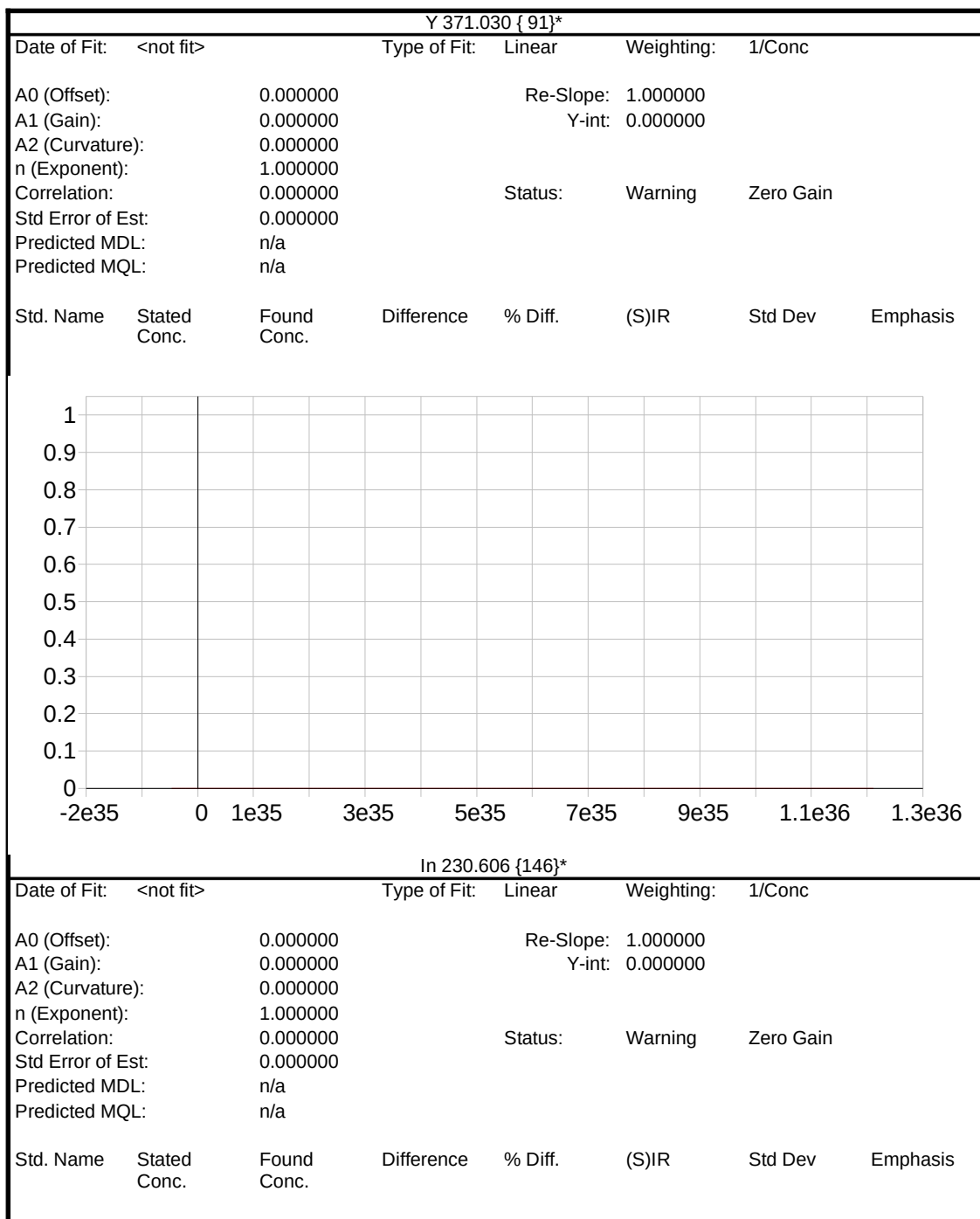
Status:      Warning      Zero Gain

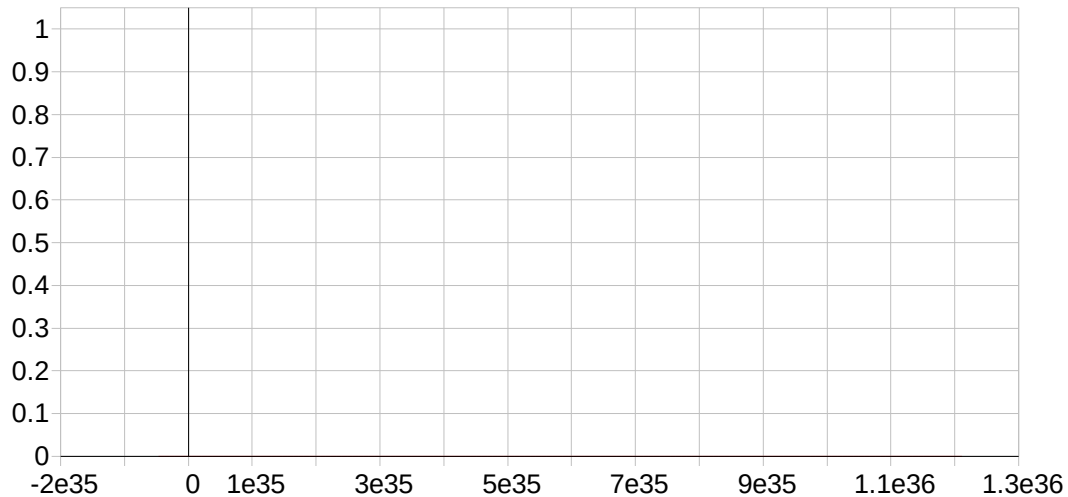
|              |           |              |        |            |        |
|--------------|-----------|--------------|--------|------------|--------|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |
|--------------|-----------|--------------|--------|------------|--------|

Re-Slope: 1.000000  
Y-int: 0.000000

Status:      Warning      Zero Gain



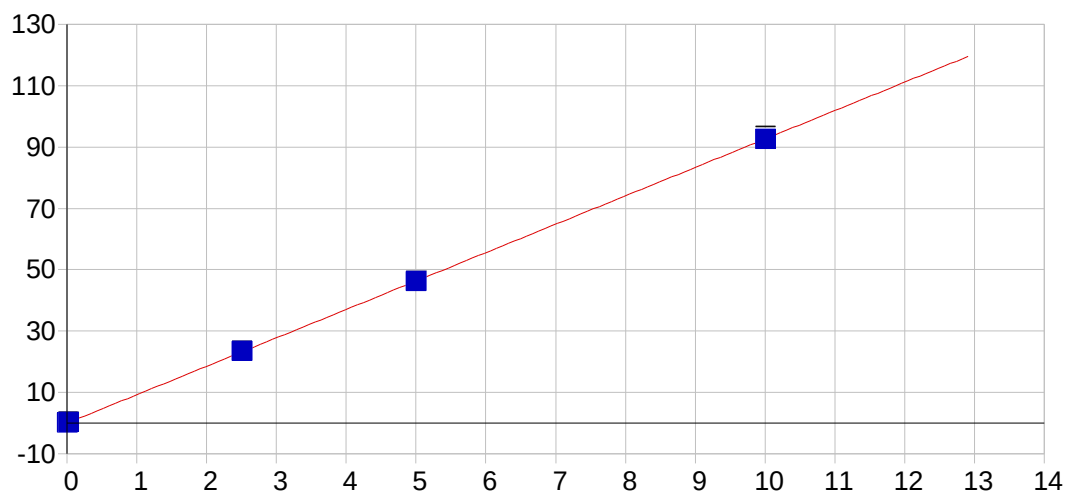




Date of Fit: <not fit>      Type of Fit: Linear      Weighting: 1/Conc

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

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

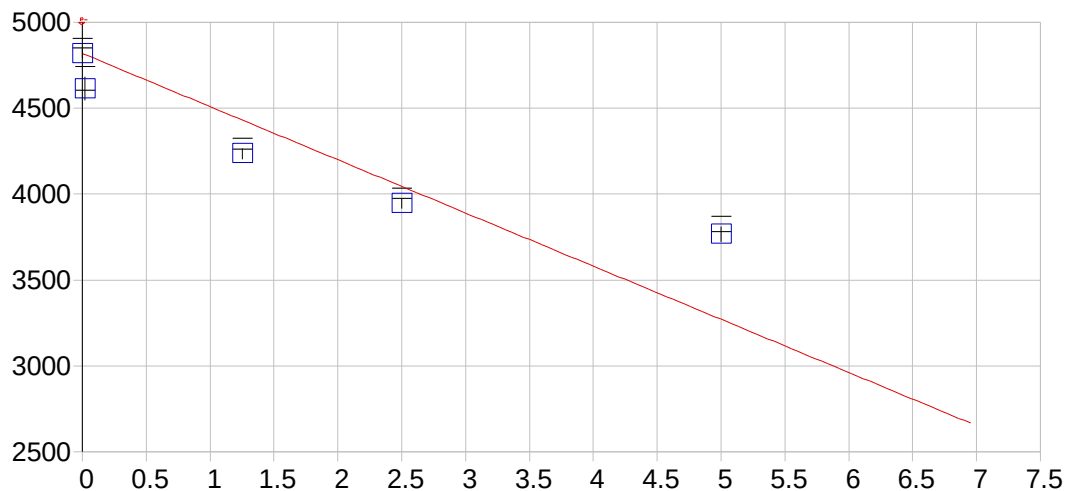


Date of Fit: 6/11/2019 17:42:28      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.003825      Re-Slope: 1.000000  
 A1 (Gain): 9.262024      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999983      Status: OK.  
 Std Error of Est: 0.001324  
 Predicted MDL: 0.000103

Predicted MQL: 0.000342

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00386 | .001    | 1        |
| S1        | .02000       | .02318      | .003       | 15.9    | .21184  | .001    | 1        |
| S3        | 2.5000       | 2.5146      | .015       | .585    | 23.312  | .060    | 1        |
| S4        | 5.0000       | 4.9915      | -.009      | -.171   | 46.278  | .123    | 1        |
| S5        | 10.000       | 9.9907      | -.009      | -.093   | 92.632  | .837    | 1        |



Date of Fit: 6/11/2019 17:42:28

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 4818.894677

Re-Slope: 1.000000

A1 (Gain): -309.557945

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.536169

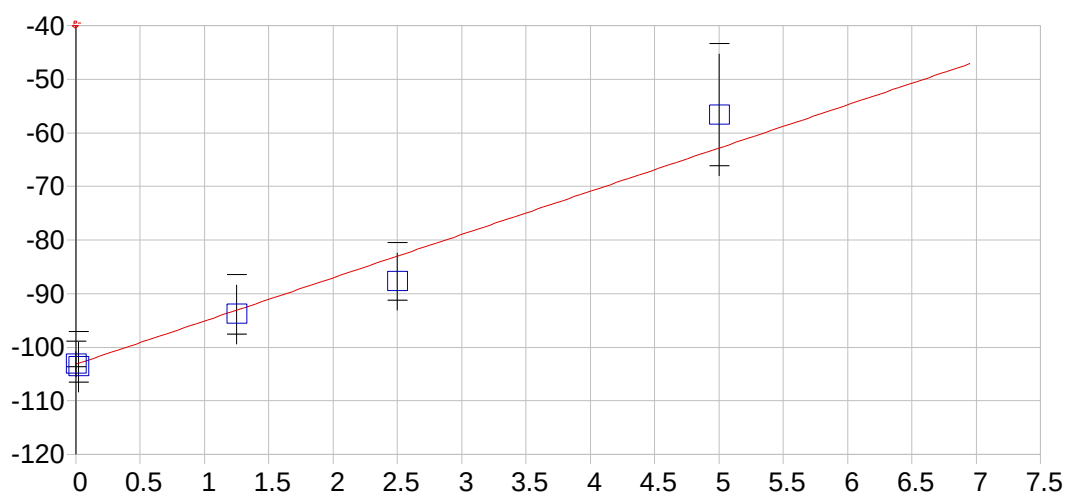
Status: Warning Negative Gain

Std Error of Est: 8.328140

Predicted MDL: n/a

Predicted MQL: n/a

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00065     | -.001      | .000    | 4819.1 | 26.6    | 1        |
| S1        | .02000       | .66548      | .645       | 3230.   | 4612.9 | 69.1    | 1        |
| S3        | 1.2500       | 1.8877      | .638       | 51.0    | 4234.5 | 32.9    | 1        |
| S4        | 2.5000       | 2.8222      | .322       | 12.9    | 3945.3 | 29.7    | 1        |
| S5        | 5.0000       | 3.3946      | -1.61      | -32.1   | 3768.1 | 44.2    | 1        |



U 385.958 { 87}

Date of Fit: 6/11/2019 17:42:28 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -103.175416 Re-Slope: 1.000000  
 A1 (Gain): 8.064639 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.966700 Status: OK.  
 Std Error of Est: 0.036483  
 Predicted MDL: 1.291039  
 Predicted MQL: 4.303463

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00009      | .000       | .000    | -103.17 | 2.38    | 1        |
| S1        | .02000       | -.06424     | -.084      | -421.   | -103.69 | 4.72    | 1        |
| S3        | 1.2500       | 1.1533      | -.097      | -7.74   | -93.875 | 5.57    | 1        |
| S4        | 2.5000       | 1.9181      | -.582      | -23.3   | -87.707 | 5.38    | 1        |
| S5        | 5.0000       | 5.7629      | .763       | 15.3    | -56.700 | 11.4    | 1        |

Sample Name: S0      Acquired: 6/11/2019 11:42:55      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |        |         |         |
|--------|--------|---------|--------|---------|--------|--------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934  | Be2348  |
| Units  | Cts/S  | Cts/S   | Cts/S  | Cts/S   | Cts/S  | Cts/S  | Cts/S   | Cts/S   |
| Avg    | .00035 | -.00011 | .00445 | -.00024 | .00038 | .00026 | -.00092 | -.00024 |
| Stddev | .00002 | .00006  | .00009 | .00019  | .00014 | .00005 | .00009  | .00004  |
| %RSD   | 5.0592 | 49.175  | 2.1047 | 76.552  | 38.191 | 19.588 | 9.9550  | 16.366  |

|    |        |         |        |         |        |        |         |         |
|----|--------|---------|--------|---------|--------|--------|---------|---------|
| #1 | .00035 | -.00015 | .00455 | -.00041 | .00021 | .00032 | -.00096 | -.00023 |
| #2 | .00033 | -.00005 | .00437 | -.00028 | .00048 | .00023 | -.00082 | -.00021 |
| #3 | .00037 | -.00015 | .00442 | -.00004 | .00043 | .00023 | -.00099 | -.00028 |

|        |         |        |        |         |        |        |        |         |
|--------|---------|--------|--------|---------|--------|--------|--------|---------|
| Elem   | Cd2265  | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | Cts/S   | Cts/S  | Cts/S  | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S   |
| Avg    | -.00393 | .00201 | .00006 | -.00008 | .00926 | .00122 | .00006 | -.00008 |
| Stddev | .00009  | .00064 | .00005 | .00011  | .00009 | .00003 | .00002 | .00002  |
| %RSD   | 2.4151  | 31.970 | 80.989 | 140.64  | .92261 | 2.7623 | 37.417 | 30.651  |

|    |         |        |        |         |        |        |        |         |
|----|---------|--------|--------|---------|--------|--------|--------|---------|
| #1 | -.00398 | .00167 | .00010 | -.00010 | .00935 | .00124 | .00003 | -.00007 |
| #2 | -.00399 | .00162 | .00009 | -.00017 | .00924 | .00118 | .00008 | -.00006 |
| #3 | -.00382 | .00276 | .00000 | .00004  | .00918 | .00123 | .00007 | -.00011 |

|        |         |        |        |         |        |        |         |         |
|--------|---------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Ni2316  | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | Cts/S   | Cts/S  | Cts/S  | Cts/S   | Cts/S  | Cts/S  | Cts/S   | Cts/S   |
| Avg    | -.00665 | .00022 | .00417 | -.00012 | .00465 | .00384 | -.00027 | -.00001 |
| Stddev | .00007  | .00002 | .00023 | .00009  | .00016 | .00028 | .00004  | .00002  |
| %RSD   | 1.0632  | 10.664 | 5.5874 | 80.226  | 3.4023 | 7.2372 | 13.403  | 190.56  |

|    |         |        |        |         |        |        |         |         |
|----|---------|--------|--------|---------|--------|--------|---------|---------|
| #1 | -.00658 | .00023 | .00401 | -.00014 | .00477 | .00395 | -.00031 | -.00001 |
| #2 | -.00665 | .00019 | .00407 | -.00020 | .00472 | .00405 | -.00027 | .00001  |
| #3 | -.00673 | .00024 | .00444 | -.00001 | .00447 | .00353 | -.00024 | -.00003 |

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S  |
| Avg    | .00083 | .01418 | .00124 | .00295 | .00500 | -.0020 | -.00386 | 4819.1 |
| Stddev | .00008 | .00057 | .00002 | .00034 | .00226 | .0001  | .00119  | 26.6   |
| %RSD   | 9.3738 | 4.0302 | 1.4325 | 11.531 | 45.154 | 3.368  | 30.769  | .55213 |

|    |        |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00085 | .01353 | .00126 | .00291 | .00240 | -.0019 | -.00274 | 4797.7 |
| #2 | .00074 | .01439 | .00122 | .00263 | .00614 | -.0020 | -.00373 | 4810.7 |
| #3 | .00089 | .01462 | .00125 | .00331 | .00646 | -.0019 | -.00510 | 4848.9 |

Sample Name: S0      Acquired: 6/11/2019 11:42:55      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -103.17 |
| Stddev | 2.38    |
| %RSD   | 2.3066  |

|    |         |
|----|---------|
| #1 | -102.06 |
| #2 | -101.56 |
| #3 | -105.91 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3358.5 | 47244. | 5062.0 | 82.600 | 4017.1 |
| Stddev    | 14.4   | 122.   | 27.7   | 1.509  | 19.0   |
| %RSD      | .42969 | .25758 | .54751 | 1.8266 | .47306 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3342.3 | 47290. | 5030.3 | 80.942 | 3996.8 |
| #2 | 3363.4 | 47106. | 5074.4 | 83.892 | 4020.1 |
| #3 | 3369.9 | 47336. | 5081.4 | 82.967 | 4034.5 |

Sample Name: S1      Acquired: 6/11/2019 11:47:22      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .00138 | .00482 | .00774 | .00106 | .00724 | .00094 | .04856 | .00483 |
| Stddev | .00009 | .00019 | .00039 | .00007 | .00007 | .00007 | .00038 | .00005 |
| %RSD   | 6.3406 | 4.0177 | 4.9953 | 6.6508 | 1.0339 | 7.6396 | .78262 | .95781 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00143 | .00481 | .00790 | .00100 | .00724 | .00092 | .04837 | .00479 |
| #2 | .00128 | .00463 | .00802 | .00114 | .00731 | .00087 | .04900 | .00481 |
| #3 | .00143 | .00501 | .00730 | .00105 | .00716 | .00101 | .04832 | .00488 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Ni2316 | Ag3280 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .01471 | .00228 | .03038 | .02490 | .01500 | .02192 | .01741 | .00253 |
| Stddev | .00026 | .00008 | .00013 | .00015 | .00012 | .00004 | .00006 | .00012 |
| %RSD   | 1.7862 | 3.5235 | .44242 | .59938 | .80025 | .16092 | .31659 | 4.6395 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .01449 | .00237 | .03040 | .02506 | .01498 | .02191 | .01745 | .00266 |
| #2 | .01500 | .00222 | .03051 | .02476 | .01513 | .02196 | .01743 | .00252 |
| #3 | .01464 | .00225 | .03024 | .02488 | .01490 | .02190 | .01735 | .00242 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | V_2924 | Zn2138 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .00791 | .09379 | .12357 | .00022 | .00153 | .15134 | .00703 | .01517 |
| Stddev | .00005 | .00021 | .00051 | .00001 | .00006 | .00052 | .00012 | .00024 |
| %RSD   | .57331 | .22377 | .41673 | 5.9670 | 3.9733 | .34323 | 1.7388 | 1.5541 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00786 | .09388 | .12298 | .00023 | .00158 | .15087 | .00717 | .01502 |
| #2 | .00794 | .09393 | .12386 | .00021 | .00146 | .15190 | .00693 | .01544 |
| #3 | .00793 | .09355 | .12388 | .00021 | .00156 | .15126 | .00700 | .01504 |

|        |        |        |        |        |         |
|--------|--------|--------|--------|--------|---------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859  |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   |
| Avg    | .03102 | -.0006 | .21184 | 4612.9 | -103.69 |
| Stddev | .00094 | .0001  | .00091 | 69.1   | 4.72    |
| %RSD   | 3.0210 | 16.81  | .42976 | 1.4976 | 4.5498  |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .03193 | -.0007 | .21285 | 4649.2 | -102.95 |
| #2 | .03006 | -.0005 | .21162 | 4656.2 | -99.392 |
| #3 | .03109 | -.0006 | .21107 | 4533.2 | -108.74 |

Sample Name: S1      Acquired: 6/11/2019 11:47:22      Type: Cal  
 Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3348.8 | 47259. | 5091.3 | 84.289 | 3981.4 |
| Stddev    | 2.7    | 247.   | 7.0    | 1.509  | 6.9    |
| %RSD      | .08156 | .52189 | .13786 | 1.7899 | .17278 |
|           |        |        |        |        |        |
| #1        | 3345.6 | 47241. | 5083.5 | 86.000 | 3973.6 |
| #2        | 3350.3 | 47021. | 5093.1 | 83.717 | 3984.1 |
| #3        | 3350.4 | 47513. | 5097.2 | 83.150 | 3986.5 |



Sample Name: S2      Acquired: 6/11/2019 11:52:00      Type: Cal  
 Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| Elem   | Ca3736 | Mg2790 | Na5895 | K_7664 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .08702 | .00153 | .06149 | .01924 |
| Stddev | .00110 | .00002 | .00039 | .00029 |
| %RSD   | 1.2615 | 1.4880 | .63359 | 1.5277 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | .08640 | .00154 | .06119 | .01922 |
| #2 | .08828 | .00150 | .06193 | .01896 |
| #3 | .08636 | .00154 | .06135 | .01955 |

|           |        |        |
|-----------|--------|--------|
| Int. Std. | Y_3600 | Y_3710 |
| Units     | Cts/S  | Cts/S  |
| Avg       | 47617. | 5141.9 |
| Stddev    | 52.    | 8.6    |
| %RSD      | .10910 | .16652 |

|    |        |        |
|----|--------|--------|
| #1 | 47640. | 5142.3 |
| #2 | 47654. | 5150.3 |
| #3 | 47558. | 5133.2 |

Sample Name: S3      Acquired: 6/11/2019 11:56:15      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .11878 | .29463 | .64230 | .14636 | .31532 | .02779 | 2.2524 | .09410 |
| Stddev | .00085 | .00079 | .00118 | .00052 | .00117 | .00026 | .0085  | .00014 |
| %RSD   | .71187 | .26891 | .18428 | .35686 | .37188 | .93452 | .37914 | .15007 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .11786 | .29489 | .64204 | .14599 | .31422 | .02783 | 2.2456 | .09426 |
| #2 | .11952 | .29525 | .64360 | .14613 | .31655 | .02751 | 2.2497 | .09405 |
| #3 | .11895 | .29373 | .64127 | .14696 | .31517 | .02803 | 2.2620 | .09399 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 3.6254 | .48339 | .09794 | 1.2047 | .43376 | .29826 | 1.1851 | .00948 |
| Stddev | .0104  | .00083 | .00031 | .0022  | .00212 | .00041 | .0011  | .00008 |
| %RSD   | .28540 | .17181 | .31455 | .18704 | .48778 | .13599 | .09187 | .86720 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 3.6303 | .48282 | .09762 | 1.2054 | .43132 | .29796 | 1.1844 | .00940 |
| #2 | 3.6324 | .48301 | .09796 | 1.2066 | .43515 | .29809 | 1.1863 | .00948 |
| #3 | 3.6135 | .48435 | .09823 | 1.2022 | .43480 | .29872 | 1.1845 | .00956 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .69079 | .12883 | .34278 | .23367 | 2.5206 | .09387 | 1.3900 | .00546 |
| Stddev | .00222 | .00063 | .00103 | .00114 | .0072  | .00056 | .0045  | .00008 |
| %RSD   | .32113 | .49174 | .30135 | .48978 | .28679 | .59647 | .32025 | 1.5426 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .69311 | .12810 | .34211 | .23341 | 2.5243 | .09360 | 1.3849 | .00538 |
| #2 | .69057 | .12907 | .34227 | .23492 | 2.5252 | .09349 | 1.3930 | .00546 |
| #3 | .68869 | .12930 | .34397 | .23268 | 2.5123 | .09451 | 1.3922 | .00555 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .07503 | .77640 | .35051 | .68648 | 3.1481 | .1492  | 23.312 | 4234.5 |
| Stddev | .00023 | .00292 | .00064 | .00199 | .0055  | .0006  | .060   | 32.9   |
| %RSD   | .30576 | .37561 | .18157 | .28975 | .17395 | .3742  | .25717 | .77671 |

|    |        |        |        |        |        |       |        |        |
|----|--------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .07530 | .77896 | .35101 | .68502 | 3.1473 | .1495 | 23.316 | 4205.4 |
| #2 | .07489 | .77701 | .35072 | .68567 | 3.1540 | .1485 | 23.370 | 4228.1 |
| #3 | .07491 | .77322 | .34979 | .68874 | 3.1431 | .1495 | 23.250 | 4270.2 |

Sample Name: S3      Acquired: 6/11/2019 11:56:15      Type: Cal  
 Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -93.875 |
| Stddev | 5.572   |
| %RSD   | 5.9361  |

|    |         |
|----|---------|
| #1 | -87.445 |
| #2 | -97.311 |
| #3 | -96.868 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3278.8 | 46687. | 5192.5 | 85.082 | 3739.3 |
| Stddev    | 9.6    | 119.   | 19.8   | .795   | 12.0   |
| %RSD      | .29287 | .25392 | .38063 | .93428 | .32158 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3287.4 | 46715. | 5177.2 | 84.166 | 3732.6 |
| #2 | 3268.4 | 46789. | 5185.6 | 85.600 | 3732.1 |
| #3 | 3280.5 | 46557. | 5214.8 | 85.478 | 3753.2 |

Sample Name: S4      Acquired: 6/11/2019 12:00:17      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .23860 | .58998 | 1.2823 | .29297 | .62811 | .05539 | 4.4874 | .18859 |
| Stddev | .00024 | .00087 | .0024  | .00070 | .00234 | .00018 | .0098  | .00024 |
| %RSD   | .10049 | .14745 | .18859 | .23965 | .37235 | .32319 | .21852 | .12860 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .23881 | .59053 | 1.2796 | .29226 | .62625 | .05542 | 4.4797 | .18861 |
| #2 | .23866 | .58898 | 1.2830 | .29366 | .63074 | .05520 | 4.4984 | .18882 |
| #3 | .23834 | .59043 | 1.2843 | .29299 | .62734 | .05556 | 4.4842 | .18834 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 7.3845 | .95211 | .19282 | 2.4326 | .83843 | .58557 | 2.3475 | .01884 |
| Stddev | .0111  | .00378 | .00033 | .0026  | .00095 | .00060 | .0022  | .00004 |
| %RSD   | .14976 | .39751 | .16926 | .10809 | .11326 | .10211 | .09468 | .19631 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 7.3768 | .94990 | .19255 | 2.4314 | .83774 | .58605 | 2.3476 | .01883 |
| #2 | 7.3797 | .94996 | .19273 | 2.4307 | .83804 | .58490 | 2.3497 | .01881 |
| #3 | 7.3972 | .95648 | .19318 | 2.4356 | .83952 | .58575 | 2.3452 | .01888 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 1.3912 | .25306 | .68363 | .46405 | 5.0892 | .18454 | 2.7516 | .01092 |
| Stddev | .0011  | .00021 | .00066 | .00085 | .0031  | .00058 | .0039  | .00007 |
| %RSD   | .08227 | .08376 | .09695 | .18386 | .06104 | .31325 | .14097 | .62016 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.3901 | .25330 | .68295 | .46401 | 5.0869 | .18396 | 2.7471 | .01098 |
| #2 | 1.3911 | .25294 | .68427 | .46493 | 5.0879 | .18512 | 2.7542 | .01085 |
| #3 | 1.3924 | .25293 | .68368 | .46322 | 5.0927 | .18454 | 2.7534 | .01093 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .15414 | 1.5385 | .71022 | 1.3548 | 6.2854 | .3094  | 46.278 | 3945.3 |
| Stddev | .00008 | .0115  | .00202 | .0081  | .0245  | .0005  | .123   | 29.7   |
| %RSD   | .05419 | .74851 | .28503 | .59693 | .39046 | .1631  | .26559 | .75298 |

|    |        |        |        |        |        |       |        |        |
|----|--------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .15424 | 1.5324 | .71194 | 1.3469 | 6.2643 | .3095 | 46.168 | 3937.1 |
| #2 | .15408 | 1.5314 | .70799 | 1.3544 | 6.2795 | .3088 | 46.256 | 3920.4 |
| #3 | .15411 | 1.5518 | .71072 | 1.3630 | 6.3124 | .3098 | 46.411 | 3978.2 |

Sample Name: S4      Acquired: 6/11/2019 12:00:17      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -87.707 |
| Stddev | 5.376   |
| %RSD   | 6.1299  |

|    |         |
|----|---------|
| #1 | -86.310 |
| #2 | -83.167 |
| #3 | -93.644 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3212.6 | 46124. | 5146.7 | 81.446 | 3570.7 |
| Stddev    | 2.2    | 22.    | 22.1   | 1.240  | 3.3    |
| %RSD      | .06784 | .04679 | .42954 | 1.5224 | .09170 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3210.3 | 46146. | 5159.7 | 80.130 | 3567.2 |
| #2 | 3212.8 | 46123. | 5159.1 | 82.593 | 3573.7 |
| #3 | 3214.6 | 46103. | 5121.1 | 81.615 | 3571.1 |

Sample Name: S5      Acquired: 6/11/2019 12:04:17      Type: Cal  
Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .48865 | 1.1987 | 2.6417 | .59719 | 1.2839 | .11453 | 9.2383 | .38334 |
| Stddev | .00058 | .0014  | .0030  | .00154 | .0040  | .00026 | .0466  | .00070 |
| %RSD   | .11776 | .11707 | .11343 | .25834 | .31212 | .23093 | .50488 | .18176 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .48923 | 1.1996 | 2.6434 | .59885 | 1.2885 | .11422 | 9.1847 | .38397 |
| #2 | .48864 | 1.1994 | 2.6435 | .59691 | 1.2811 | .11466 | 9.2608 | .38346 |
| #3 | .48808 | 1.1971 | 2.6383 | .59580 | 1.2820 | .11469 | 9.2694 | .38259 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 15.289 | 1.9170 | .38774 | 5.0525 | 1.6772 | 1.1725 | 4.6990 | .03920 |
| Stddev | .016   | .0116  | .00099 | .0018  | .0039  | .0027  | .0109  | .00006 |
| %RSD   | .10508 | .60425 | .25573 | .03507 | .23409 | .22896 | .23284 | .16534 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 15.305 | 1.9105 | .38825 | 5.0545 | 1.6812 | 1.1753 | 4.7114 | .03924 |
| #2 | 15.288 | 1.9101 | .38660 | 5.0517 | 1.6771 | 1.1699 | 4.6948 | .03924 |
| #3 | 15.273 | 1.9304 | .38838 | 5.0513 | 1.6734 | 1.1722 | 4.6908 | .03913 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.8765 | .51376 | 1.4158 | .94547 | 10.564 | .37834 | 5.5786 | .02289 |
| Stddev | .0008  | .00111 | .0060  | .00270 | .013   | .00132 | .0055  | .00007 |
| %RSD   | .02899 | .21633 | .42044 | .28589 | .12703 | .34849 | .09851 | .30551 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.8772 | .51320 | 1.4090 | .94854 | 10.579 | .37684 | 5.5835 | .02293 |
| #2 | 2.8755 | .51304 | 1.4182 | .94440 | 10.558 | .37887 | 5.5798 | .02293 |
| #3 | 2.8767 | .51504 | 1.4201 | .94346 | 10.555 | .37930 | 5.5727 | .02281 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | .32906 | 3.1074 | 1.4656 | 2.7297 | 12.866 | .6578  | 92.632 | 3768.1 |
| Stddev | .00074 | .0119  | .0013  | .0117  | .066   | .0010  | .837   | 44.2   |
| %RSD   | .22387 | .38224 | .08979 | .42808 | .51251 | .1474  | .90398 | 1.1720 |

|    |        |        |        |        |        |       |        |        |
|----|--------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .32979 | 3.0992 | 1.4671 | 2.7200 | 12.800 | .6587 | 92.122 | 3743.0 |
| #2 | .32832 | 3.1019 | 1.4646 | 2.7266 | 12.868 | .6579 | 93.599 | 3742.2 |
| #3 | .32906 | 3.1210 | 1.4652 | 2.7427 | 12.932 | .6568 | 92.177 | 3819.1 |

Sample Name: S5      Acquired: 6/11/2019 12:04:17      Type: Cal  
 Method: P4-ICP2(v3189)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -56.700 |
| Stddev | 11.397  |
| %RSD   | 20.101  |

|    |         |
|----|---------|
| #1 | -68.345 |
| #2 | -45.568 |
| #3 | -56.186 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3115.7 | 44750. | 5095.4 | 81.721 | 3358.1 |
| Stddev    | 2.6    | 24.    | 10.5   | .786   | 1.7    |
| %RSD      | .08199 | .05285 | .20572 | .96212 | .05072 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3112.9 | 44743. | 5103.6 | 80.833 | 3356.5 |
| #2 | 3118.0 | 44777. | 5099.0 | 82.328 | 3358.0 |
| #3 | 3116.2 | 44732. | 5083.6 | 82.002 | 3359.9 |

Sample Name: ICV01      Acquired: 6/11/2019 12:08:35      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICV01      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |          |         |          |          |
|--------|----------|--------|--------|--------|----------|---------|----------|----------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068   | Al3961  | Ba4934   | Be2348   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | 1.0172   | 1.0399 | 1.0104 | 1.0180 | 1.0035   | 2.5437  | .50019   | .49479   |
| Stddev | .0039    | .0050  | .0054  | .0004  | .0049    | .0088   | .00139   | .00082   |
| %RSD   | .38015   | .48345 | .53100 | .04351 | .48450   | .34389  | .27816   | .16515   |
| #1     | 1.0181   | 1.0434 | 1.0074 | 1.0179 | .99822   | 2.5405  | .49930   | .49573   |
| #2     | 1.0205   | 1.0341 | 1.0072 | 1.0184 | 1.0078   | 2.5536  | .50179   | .49435   |
| #3     | 1.0129   | 1.0421 | 1.0166 | 1.0176 | 1.0043   | 2.5371  | .49947   | .49427   |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247   | Fe2404  | Mn2576   | Mg2790   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | .48761   | 10.950 | .51285 | .50363 | .51264   | 5.2137  | .51683   | 6.0869   |
| Stddev | .00075   | .011   | .00203 | .00164 | .00117   | .0126   | .00075   | .0325    |
| %RSD   | .15422   | .10435 | .39514 | .32511 | .22728   | .24095  | .14531   | .53424   |
| #1     | .48684   | 10.946 | .51518 | .50368 | .51295   | 5.2219  | .51743   | 6.1201   |
| #2     | .48766   | 10.941 | .51193 | .50196 | .51136   | 5.1992  | .51599   | 6.0855   |
| #3     | .48834   | 10.963 | .51145 | .50524 | .51363   | 5.2199  | .51706   | 6.0551   |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138   | K_7664  | Mo2020   | B_2496   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | .50799   | .51175 | 9.9005 | .50170 | .99382   | 10.089  | 2.6050   | 2.5296   |
| Stddev | .00096   | .00115 | .0363  | .00152 | .00271   | .075    | .0029    | .0236    |
| %RSD   | .18830   | .22411 | .36655 | .30320 | .27278   | .74303  | .11255   | .93129   |
| #1     | .50740   | .51298 | 9.9086 | .50319 | .99272   | 10.130  | 2.6084   | 2.5480   |
| #2     | .50747   | .51071 | 9.9320 | .50015 | .99184   | 10.134  | 2.6028   | 2.5378   |
| #3     | .50909   | .51155 | 9.8608 | .50177 | .99691   | 10.002  | 2.6039   | 2.5030   |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707   | P_1774  | Sr4077   | U_3670   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | F .00870 | 2.4173 | 2.4866 | 2.5962 | F .00003 | F .0008 | F .00659 | F 2.3197 |
| Stddev | .00190   | .0139  | .0083  | .0101  | .00031   | .0018   | .00009   | .0732    |
| %RSD   | 21.844   | .57597 | .33286 | .38700 | 1091.9   | 221.4   | 1.3409   | 3.1541   |
| #1     | .00652   | 2.4132 | 2.4813 | 2.5905 | .00032   | -.0009  | .00657   | 2.2375   |
| #2     | .00956   | 2.4059 | 2.4824 | 2.5903 | .00007   | .0006   | .00652   | 2.3439   |
| #3     | .01002   | 2.4328 | 2.4961 | 2.6078 | -.00030  | .0027   | .00669   | 2.3776   |



Sample Name: ICV01      Acquired: 6/11/2019 12:08:35      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICV01      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2.6891 |
| Stddev | 1.0062   |
| %RSD   | 37.418   |

|    |        |
|----|--------|
| #1 | 3.5500 |
| #2 | 2.9343 |
| #3 | 1.5829 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3292.1 | 47662. | 5233.9 | 86.693 | 3838.0 |
| Stddev    | 4.6    | 138.   | 22.6   | 1.626  | 3.7    |
| %RSD      | .13963 | .28903 | .43255 | 1.8761 | .09643 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3292.3 | 47507. | 5236.1 | 86.447 | 3841.3 |
| #2 | 3287.4 | 47705. | 5255.3 | 88.428 | 3838.8 |
| #3 | 3296.6 | 47772. | 5210.2 | 85.203 | 3834.0 |

Sample Name: LLICV01      Acquired: 6/11/2019 12:19:12      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LLICV01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02367 | .04223 | .01235 | .01913 | .05765 | .11477 | .10917 |
| Stddev | .00193 | .00061 | .00017 | .00291 | .00061 | .01022 | .00077 |
| %RSD   | 8.1396 | 1.4489 | 1.3583 | 15.238 | 1.0652 | 8.9066 | .70661 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02558 | .04283 | .01254 | .01986 | .05774 | .11354 | .10995 |
| #2 | .02173 | .04161 | .01224 | .01591 | .05699 | .12554 | .10840 |
| #3 | .02370 | .04225 | .01227 | .02160 | .05821 | .10521 | .10915 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00672 | .00622 | 2.1556 | .00966 | .03102 | .02265 | .11887 |
| Stddev | .00002 | .00006 | .0232  | .00007 | .00018 | .00037 | .00059 |
| %RSD   | .23628 | .91287 | 1.0753 | .76717 | .57034 | 1.6423 | .49598 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00670 | .00619 | 2.1310 | .00963 | .03107 | .02304 | .11909 |
| #2 | .00673 | .00628 | 2.1587 | .00961 | .03082 | .02230 | .11932 |
| #3 | .00672 | .00619 | 2.1771 | .00975 | .03117 | .02260 | .11821 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02339 | 2.1561 | .04187 | .01157 | 2.0543 | .04269 | .04298 |
| Stddev | .00011 | .0138  | .00066 | .00052 | .0158  | .00026 | .00018 |
| %RSD   | .47770 | .63830 | 1.5819 | 4.4783 | .77071 | .60511 | .42931 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02350 | 2.1719 | .04197 | .01118 | 2.0706 | .04252 | .04290 |
| #2 | .02338 | 2.1492 | .04116 | .01138 | 2.0390 | .04298 | .04284 |
| #3 | .02328 | 2.1471 | .04247 | .01216 | 2.0532 | .04256 | .04319 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.1140 | .22436 | .11910 | .02268 | .42801 | .04156 | .04368 |
| Stddev | .0135  | .00065 | .01377 | .00206 | .00305 | .00015 | .00019 |
| %RSD   | .63876 | .29158 | 11.563 | 9.0883 | .71343 | .37264 | .44238 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.1295 | .22378 | .12944 | .02363 | .42458 | .04154 | .04380 |
| #2 | 2.1057 | .22507 | .10347 | .02031 | .43044 | .04141 | .04378 |
| #3 | 2.1066 | .22423 | .12439 | .02409 | .42900 | .04172 | .04345 |

Sample Name: LLICV01      Acquired: 6/11/2019 12:19:12      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LLICV01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |          |          |
|--------|--------|--------|--------|----------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg    | .02006 | .0191  | .02296 | F 1.9972 | F<.00000 |
| Stddev | .00045 | .0017  | .00009 | .0694    | 1.3293   |
| %RSD   | 2.2477 | 8.776  | .41294 | 3.4773   | 58.648   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .02045 | .0208 | .02285 | 1.9260 | -3.7866 |
| #2 | .02017 | .0174 | .02300 | 2.0010 | -1.3214 |
| #3 | .01957 | .0191 | .02302 | 2.0647 | -1.6919 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3328.0 | 48212. | 5238.4 | 86.775 | 3968.2 |
| Stddev    | 10.1   | 43.    | 30.8   | 1.505  | 9.2    |
| %RSD      | .30249 | .08927 | .58739 | 1.7342 | .23152 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3324.8 | 48182. | 5274.0 | 88.492 | 3961.8 |
| #2 | 3319.9 | 48261. | 5220.4 | 86.150 | 3978.7 |
| #3 | 3339.3 | 48193. | 5220.9 | 85.683 | 3964.0 |

Sample Name: ICB01      Acquired: 6/11/2019 12:23:39      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICB01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00013 | .00018 | -.00080 | -.00111 | .00081 | -.00251 | .00088 |
| Stddev | .00249 | .00094 | .00078  | .00185  | .00159 | .00412  | .00065 |
| %RSD   | 1979.7 | 535.94 | 97.625  | 167.03  | 196.12 | 164.30  | 74.240 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00166 | .00033  | -.00010 | -.00324 | -.00028 | -.00671 | .00042 |
| #2 | -.00093 | .00103  | -.00164 | -.00006 | .00008  | .00152  | .00059 |
| #3 | .00298  | -.00083 | -.00066 | -.00002 | .00264  | -.00232 | .00162 |

|        |        |        |         |        |         |         |         |
|--------|--------|--------|---------|--------|---------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00001 | .00007 | -.00124 | .00041 | -.00010 | -.00033 | -.00003 |
| Stddev | .00004 | .00005 | .00490  | .00024 | .00014  | .00071  | .00020  |
| %RSD   | 287.40 | 76.704 | 396.44  | 57.633 | 143.56  | 215.33  | 656.30  |

|    |         |        |         |        |         |         |         |
|----|---------|--------|---------|--------|---------|---------|---------|
| #1 | -.00002 | .00012 | -.00469 | .00041 | -.00000 | .00016  | -.00020 |
| #2 | .00001  | .00002 | -.00339 | .00066 | -.00025 | -.00115 | -.00008 |
| #3 | .00005  | .00007 | .00437  | .00018 | -.00003 | -.00000 | .00019  |

|        |         |         |         |        |         |         |         |
|--------|---------|---------|---------|--------|---------|---------|---------|
| Elem   | Mn2576  | Mg2790  | Ni2316  | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm     | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | -.00002 | -.00001 | -.00022 | .00044 | -.08687 | -.00065 | -.00109 |
| Stddev | .00002  | .04468  | .00032  | .00017 | .00853  | .00029  | .00009  |
| %RSD   | 119.91  | 348990. | 143.25  | 39.147 | 9.8146  | 44.570  | 8.4343  |

|    |         |         |         |        |         |         |         |
|----|---------|---------|---------|--------|---------|---------|---------|
| #1 | -.00004 | .03981  | .00005  | .00043 | -.09513 | -.00079 | -.00111 |
| #2 | .00000  | .00848  | -.00015 | .00062 | -.07810 | -.00085 | -.00099 |
| #3 | -.00001 | -.04834 | -.00057 | .00027 | -.08739 | -.00032 | -.00118 |

|        |         |        |        |        |         |         |        |
|--------|---------|--------|--------|--------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.02895 | .00011 | .00745 | .00222 | -.00139 | -.00182 | .00160 |
| Stddev | .02986  | .00033 | .00208 | .00181 | .00124  | .00042  | .00048 |
| %RSD   | 103.17  | 306.58 | 27.983 | 81.578 | 89.445  | 23.102  | 29.875 |

|    |         |         |        |        |         |         |        |
|----|---------|---------|--------|--------|---------|---------|--------|
| #1 | .00445  | -.00015 | .00817 | .00431 | -.00124 | -.00217 | .00211 |
| #2 | -.03820 | .00049  | .00908 | .00130 | -.00023 | -.00193 | .00153 |
| #3 | -.05308 | -.00000 | .00510 | .00106 | -.00270 | -.00135 | .00116 |

Sample Name: ICB01      Acquired: 6/11/2019 12:23:39      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICB01      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |         |          |          |
|-----------|---------|--------|---------|----------|----------|
| Elem      | Li6707  | P_1774 | Sr4077  | U_3670   | U_3859   |
| Units     | ppm     | ppm    | ppm     | ppm      | ppm      |
| Avg       | -.00327 | -.0016 | .00001  | F 2.1454 | F<.00000 |
| Stddev    | .00181  | .0014  | .00012  | .0785    | 1.0336   |
| %RSD      | 55.179  | 83.26  | 995.50  | 3.6582   | 32.589   |
| #1        | -.00182 | -.0019 | .00010  | 2.0548   | -4.2076  |
| #2        | -.00271 | -.0028 | .00006  | 2.1928   | -2.1404  |
| #3        | -.00530 | -.0002 | -.00012 | 2.1886   | -3.1669  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710  | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S   | Cts/S    | Cts/S    |
| Avg       | 3327.0  | 48702. | 5220.5  | 88.367   | 3993.5   |
| Stddev    | 13.7    | 79.    | 26.8    | .530     | 8.9      |
| %RSD      | .41234  | .16320 | .51245  | .60022   | .22218   |
| #1        | 3312.1  | 48610. | 5193.5  | 87.858   | 3983.6   |
| #2        | 3329.9  | 48754. | 5221.1  | 88.917   | 3996.1   |
| #3        | 3339.0  | 48741. | 5247.0  | 88.325   | 4000.7   |

Sample Name: CRI01      Acquired: 6/11/2019 12:28:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CRI01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02129 | .04128 | .01296 | .01992 | .05369 | .09593 | .10694 |
| Stddev | .00047 | .00029 | .00060 | .00137 | .00209 | .00835 | .00049 |
| %RSD   | 2.2255 | .70835 | 4.6217 | 6.8789 | 3.8901 | 8.7031 | .46156 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02095 | .04131 | .01253 | .02142 | .05411 | .09564 | .10748 |
| #2 | .02184 | .04156 | .01271 | .01874 | .05554 | .10443 | .10683 |
| #3 | .02110 | .04098 | .01365 | .01960 | .05143 | .08773 | .10651 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00657 | .00599 | 2.1033 | .01179 | .03034 | .02265 | .12181 |
| Stddev | .00008 | .00005 | .0154  | .00029 | .00025 | .00064 | .00018 |
| %RSD   | 1.2147 | .82092 | .73191 | 2.4996 | .81183 | 2.8054 | .15170 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00661 | .00597 | 2.0993 | .01152 | .03014 | .02317 | .12202 |
| #2 | .00663 | .00604 | 2.0903 | .01174 | .03027 | .02194 | .12170 |
| #3 | .00648 | .00595 | 2.1203 | .01210 | .03061 | .02283 | .12170 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02292 | 2.0677 | .04305 | .01084 | 1.9945 | .04106 | .04400 |
| Stddev | .00019 | .0413  | .00048 | .00061 | .0066  | .00065 | .00022 |
| %RSD   | .82155 | 1.9949 | 1.1240 | 5.6206 | .33284 | 1.5879 | .49052 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02296 | 2.0881 | .04272 | .01088 | 1.9984 | .04181 | .04382 |
| #2 | .02309 | 2.0947 | .04361 | .01144 | 1.9868 | .04078 | .04424 |
| #3 | .02272 | 2.0202 | .04283 | .01022 | 1.9982 | .04060 | .04394 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.0696 | .21997 | .09512 | .01902 | .49447 | .03875 | .04404 |
| Stddev | .0098  | .00031 | .00632 | .00173 | .00717 | .00098 | .00114 |
| %RSD   | .47554 | .13905 | 6.6405 | 9.1144 | 1.4502 | 2.5337 | 2.5848 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0589 | .21985 | .09094 | .01707 | .49316 | .03909 | .04356 |
| #2 | 2.0719 | .21975 | .10238 | .01961 | .50220 | .03951 | .04322 |
| #3 | 2.0782 | .22032 | .09203 | .02038 | .48804 | .03764 | .04534 |

Sample Name: CRI01      Acquired: 6/11/2019 12:28:07      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CRI01      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |          |          |
|-----------|--------|--------|--------|----------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg       | .01938 | .0195  | .02244 | F 2.4158 | F<.00000 |
| Stddev    | .00076 | .0004  | .00009 | .0707    | .22390   |
| %RSD      | 3.8985 | 2.090  | .39444 | 2.9287   | 9.3468   |
| #1        | .01934 | .0196  | .02249 | 2.4950   | -2.2102  |
| #2        | .01865 | .0197  | .02249 | 2.3935   | -2.3318  |
| #3        | .02016 | .0190  | .02234 | 2.3588   | -2.6442  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3303.1 | 48242. | 5259.6 | 86.889   | 3952.9   |
| Stddev    | 9.3    | 176.   | 4.5    | 1.624    | 6.0      |
| %RSD      | .28178 | .36400 | .08595 | 1.8688   | .15197   |
| #1        | 3302.8 | 48059. | 5260.3 | 85.033   | 3950.5   |
| #2        | 3312.6 | 48259. | 5254.8 | 88.050   | 3959.7   |
| #3        | 3294.0 | 48409. | 5263.8 | 87.583   | 3948.4   |

Sample Name: ICSA01      Acquired: 6/11/2019 12:32:34      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSA01      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |         |         |         |         |         |        |
|--------|----------|---------|---------|---------|---------|---------|---------|--------|
| Elem   | As1890   | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .01276   | -.00255 | -.00586 | -.01079 | .00597  | 296.54  | .00781  | .00378 |
| Stddev | .00246   | .00150  | .00149  | .00411  | .00012  | .68     | .00048  | .00010 |
| %RSD   | 19.250   | 59.054  | 25.492  | 38.048  | 1.9441  | .22768  | 6.0858  | 2.6492 |
| #1     | .01559   | -.00095 | -.00424 | -.01043 | .00588  | 295.93  | .00732  | .00384 |
| #2     | .01118   | -.00275 | -.00718 | -.00687 | .00593  | 296.42  | .00827  | .00367 |
| #3     | .01152   | -.00394 | -.00617 | -.01506 | .00610  | 297.27  | .00782  | .00383 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.00338  | 267.78  | .04778  | -.00039 | .00827  | 99.307  | .01551  | 292.52 |
| Stddev | .00013   | 1.37    | .00018  | .00011  | .00094  | .847    | .00007  | .14    |
| %RSD   | 3.9682   | .51215  | .36761  | 29.002  | 11.321  | .85250  | .45561  | .04797 |
| #1     | -.00326  | 267.21  | .04796  | -.00049 | .00934  | 98.537  | .01547  | 292.60 |
| #2     | -.00336  | 266.78  | .04761  | -.00027 | .00783  | 99.170  | .01559  | 292.35 |
| #3     | -.00353  | 269.34  | .04775  | -.00042 | .00762  | 100.21  | .01546  | 292.60 |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.01960  | -.00678 | -.03160 | .00135  | -.01238 | .02301  | -.00420 | .05226 |
| Stddev | .00055   | .00040  | .00363  | .00027  | .00044  | .01588  | .00047  | .00469 |
| %RSD   | 2.8077   | 5.8796  | 11.484  | 19.994  | 3.5537  | 69.000  | 11.259  | 8.9755 |
| #1     | -.02023  | -.00701 | -.03443 | .00131  | -.01194 | .01955  | -.00474 | .05318 |
| #2     | -.01934  | -.00701 | -.02751 | .00164  | -.01237 | .00915  | -.00388 | .05642 |
| #3     | -.01923  | -.00632 | -.03287 | .00111  | -.01282 | .04034  | -.00399 | .04718 |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | F .04172 | -.00518 | .00709  | -.00333 | .00199  | F .0283 | .00167  | 3.9712 |
| Stddev | .00589   | .00045  | .00206  | .00099  | .00103  | .0023   | .00052  | .0438  |
| %RSD   | 14.113   | 8.7345  | 28.995  | 29.842  | 51.835  | 8.241   | 31.220  | 1.1026 |
| #1     | .03636   | -.00565 | .00904  | -.00229 | .00306  | .0258   | .00226  | 3.9216 |
| #2     | .04802   | -.00513 | .00728  | -.00343 | .00101  | .0303   | .00149  | 4.0042 |
| #3     | .04077   | -.00475 | .00494  | -.00426 | .00189  | .0289   | .00127  | 3.9879 |



Sample Name: ICSA01      Acquired: 6/11/2019 12:32:34      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA01      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 84.580 |
| Stddev | .992   |
| %RSD   | 1.1728 |

|    |        |
|----|--------|
| #1 | 85.725 |
| #2 | 84.001 |
| #3 | 84.013 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2963.9 | 42862. | 5057.9 | 79.737 | 3186.7 |
| Stddev    | 7.9    | 102.   | 33.0   | .579   | 9.6    |
| %RSD      | .26507 | .23827 | .65274 | .72650 | .30108 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2969.1 | 42851. | 5062.7 | 80.337 | 3194.9 |
| #2 | 2954.9 | 42969. | 5088.2 | 79.694 | 3176.2 |
| #3 | 2967.8 | 42765. | 5022.7 | 79.181 | 3189.1 |

Sample Name: ICSAB01      Acquired: 6/11/2019 12:37:13      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB01      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |         |        |          |         |          |          |
|--------|----------|--------|---------|--------|----------|---------|----------|----------|
| Elem   | As1890   | Tl1908 | Pb2203  | Se1960 | Sb2068   | Al3961  | Ba4934   | Be2348   |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | .11929   | .09928 | .05087  | .04524 | .66142   | 291.86  | .58320   | .57471   |
| Stddev | .00414   | .00289 | .00304  | .00112 | .00389   | 1.92    | .00139   | .00165   |
| %RSD   | 3.4689   | 2.9110 | 5.9761  | 2.4659 | .58759   | .65771  | .23871   | .28698   |
| #1     | .12363   | .10247 | .05428  | .04500 | .66306   | 289.87  | .58230   | .57546   |
| #2     | .11884   | .09684 | .04846  | .04426 | .66423   | 292.03  | .58251   | .57584   |
| #3     | .11539   | .09853 | .04985  | .04645 | .65699   | 293.69  | .58481   | .57282   |
| Elem   | Cd2265   | Ca3736 | Cr2677  | Co2286 | Cu2247   | Fe2404  | Mn2576   | Mg2790   |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | 1.0439   | 259.61 | .58211  | .53056 | .53262   | 96.325  | .54967   | 286.54   |
| Stddev | .0005    | .88    | .00044  | .00026 | .00106   | .032    | .00070   | 1.82     |
| %RSD   | .04953   | .33922 | .07638  | .04937 | .19930   | .03295  | .12719   | .63655   |
| #1     | 1.0436   | 259.17 | .58250  | .53073 | .53362   | 96.331  | .54992   | 285.17   |
| #2     | 1.0436   | 259.04 | .58220  | .53026 | .53273   | 96.353  | .55022   | 285.84   |
| #3     | 1.0445   | 260.63 | .58163  | .53070 | .53151   | 96.291  | .54888   | 288.61   |
| Elem   | Ni2316   | Ag3280 | Na5895  | V_2924 | Zn2138   | K_7664  | Mo2020   | B_2496   |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | 1.0248   | .21820 | -.02685 | .53741 | 1.1315   | .02557  | 1.0959   | F 1.2082 |
| Stddev | .0013    | .00060 | .00378  | .00134 | .0017    | .04814  | .0009    | .0012    |
| %RSD   | .12895   | .27347 | 14.075  | .24904 | .15200   | 188.27  | .07995   | .10214   |
| #1     | 1.0254   | .21824 | -.03122 | .53868 | 1.1334   | .01288  | 1.0968   | 1.2091   |
| #2     | 1.0257   | .21877 | -.02477 | .53755 | 1.1310   | .07877  | 1.0959   | 1.2068   |
| #3     | 1.0233   | .21758 | -.02458 | .53601 | 1.1300   | -.01496 | 1.0951   | 1.2087   |
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361 | Li6707   | P_1774  | Sr4077   | U_3670   |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm      | ppm      |
| Avg    | F .03805 | .93816 | 1.1013  | 1.0843 | F .00183 | F .0284 | F .00218 | 4.0295   |
| Stddev | .00631   | .00399 | .0024   | .0056  | .00079   | .0028   | .00035   | .0385    |
| %RSD   | 16.586   | .42506 | .21528  | .51203 | 43.148   | 9.942   | 16.100   | .95502   |
| #1     | .03120   | .93608 | 1.1040  | 1.0784 | .00131   | .0252   | .00200   | 4.0712   |
| #2     | .03934   | .93565 | 1.1006  | 1.0851 | .00274   | .0293   | .00258   | 4.0222   |
| #3     | .04362   | .94276 | 1.0994  | 1.0894 | .00143   | .0306   | .00195   | 3.9952   |

Sample Name: ICSAB01      Acquired: 6/11/2019 12:37:13      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSAB01      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 85.076 |
| Stddev | 1.461  |
| %RSD   | 1.7168 |

|    |        |
|----|--------|
| #1 | 85.161 |
| #2 | 86.492 |
| #3 | 83.574 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2956.6 | 42837. | 5111.1 | 78.468 | 3189.4 |
| Stddev    | 3.8    | 34.    | 11.6   | .547   | 1.6    |
| %RSD      | .12842 | .07988 | .22618 | .69659 | .05052 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2952.6 | 42874. | 5097.8 | 78.530 | 3188.3 |
| #2 | 2957.1 | 42831. | 5117.4 | 78.980 | 3188.6 |
| #3 | 2960.1 | 42806. | 5118.2 | 77.892 | 3191.3 |

Sample Name: CCV01      Acquired: 6/11/2019 12:41:38      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9600 | 4.9748 | 4.9115 | 4.9739 | 4.9709 | 9.9508 | 9.8712 | .24773   |
| Stddev | .0120  | .0062  | .0112  | .0171  | .0145  | .0654  | .0305  | .00114   |
| %RSD   | .24281 | .12536 | .22817 | .34313 | .29142 | .65686 | .30845 | .45830   |
| #1     | 4.9703 | 4.9723 | 4.9038 | 4.9920 | 4.9876 | 9.9613 | 9.9063 | .24801   |
| #2     | 4.9630 | 4.9820 | 4.9063 | 4.9582 | 4.9633 | 9.8808 | 9.8520 | .24648   |
| #3     | 4.9468 | 4.9703 | 4.9243 | 4.9715 | 4.9618 | 10.010 | 9.8552 | .24870   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4491 | 24.543 | .98385 | 2.4590 | 1.2626 | 4.9594 | 2.4992 | 24.623   |
| Stddev | .0036  | .073   | .00219 | .0034  | .0059  | .0050  | .0065  | .159     |
| %RSD   | .14649 | .29559 | .22273 | .14027 | .46621 | .10130 | .25935 | .64614   |
| #1     | 2.4453 | 24.494 | .98381 | 2.4590 | 1.2692 | 4.9650 | 2.5000 | 24.552   |
| #2     | 2.4495 | 24.509 | .98168 | 2.4556 | 1.2604 | 4.9553 | 2.4923 | 24.805   |
| #3     | 2.4524 | 24.627 | .98606 | 2.4625 | 1.2581 | 4.9580 | 2.5052 | 24.511   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4461 | 1.2294 | 24.367 | 2.4422 | 2.4656 | 24.705 | 5.0024 | 4.9086   |
| Stddev | .0034  | .0020  | .102   | .0082  | .0037  | .085   | .0180  | .0133    |
| %RSD   | .13922 | .16271 | .42051 | .33553 | .15010 | .34320 | .36030 | .27050   |
| #1     | 2.4426 | 1.2316 | 24.472 | 2.4411 | 2.4643 | 24.781 | 5.0229 | 4.9193   |
| #2     | 2.4494 | 1.2277 | 24.362 | 2.4345 | 2.4627 | 24.720 | 4.9952 | 4.9128   |
| #3     | 2.4461 | 1.2289 | 24.267 | 2.4508 | 2.4697 | 24.614 | 4.9891 | 4.8938   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9058 | 4.8001 | 4.9198 | 4.9523 | 4.9310 | 4.981  | 4.9692 | F 3.6512 |
| Stddev | .0068  | .0262  | .0130  | .0207  | .0091  | .012   | .0088  | .0703    |
| %RSD   | .13775 | .54585 | .26399 | .41848 | .18482 | .2483  | .17755 | 1.9242   |
| #1     | 4.9136 | 4.7767 | 4.9048 | 4.9490 | 4.9342 | 4.968  | 4.9702 | 3.6101   |
| #2     | 4.9014 | 4.7952 | 4.9268 | 4.9335 | 4.9207 | 4.984  | 4.9600 | 3.7323   |
| #3     | 4.9025 | 4.8284 | 4.9278 | 4.9745 | 4.9381 | 4.992  | 4.9776 | 3.6111   |

Sample Name: CCV01      Acquired: 6/11/2019 12:41:38      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV01      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F .63348 |
| Stddev | .97637   |
| %RSD   | 154.13   |

|    |         |
|----|---------|
| #1 | 1.1262  |
| #2 | 1.2653  |
| #3 | -.49107 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3174.8 | 46433. | 5220.2 | 83.671 | 3547.6 |
| Stddev    | 14.0   | 174.   | 10.4   | 1.016  | 2.3    |
| %RSD      | .44171 | .37403 | .19906 | 1.2142 | .06429 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3158.7 | 46310. | 5229.9 | 84.067 | 3545.1 |
| #2 | 3181.9 | 46358. | 5209.2 | 82.517 | 3548.1 |
| #3 | 3184.0 | 46632. | 5221.4 | 84.429 | 3549.5 |

Sample Name: LLCCV01      Acquired: 6/11/2019 12:45:38      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LLCCV01      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02302 | .04186 | .01243 | .02223 | .05472 | .10943 | .10580 |
| Stddev | .00130 | .00233 | .00021 | .00280 | .00073 | .01413 | .00056 |
| %RSD   | 5.6638 | 5.5773 | 1.6612 | 12.619 | 1.3368 | 12.911 | .52891 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02445 | .04331 | .01258 | .02181 | .05389 | .12524 | .10644 |
| #2 | .02189 | .04311 | .01251 | .02522 | .05527 | .09804 | .10547 |
| #3 | .02272 | .03917 | .01220 | .01965 | .05502 | .10501 | .10547 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00645 | .00603 | 2.0715 | .00913 | .03013 | .02223 | .10887 |
| Stddev | .00004 | .00006 | .0144  | .00041 | .00012 | .00007 | .00026 |
| %RSD   | .63757 | .98223 | .69769 | 4.4385 | .41166 | .30592 | .23503 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00648 | .00610 | 2.0770 | .00956 | .03001 | .02226 | .10916 |
| #2 | .00647 | .00599 | 2.0823 | .00875 | .03013 | .02215 | .10879 |
| #3 | .00640 | .00600 | 2.0551 | .00909 | .03026 | .02228 | .10867 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02273 | 2.0585 | .04135 | .01117 | 1.9773 | .04089 | .03897 |
| Stddev | .00001 | .0437  | .00050 | .00036 | .0018  | .00017 | .00009 |
| %RSD   | .04542 | 2.1254 | 1.2021 | 3.1916 | .09077 | .41454 | .23575 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02272 | 2.0302 | .04170 | .01152 | 1.9771 | .04108 | .03887 |
| #2 | .02272 | 2.0364 | .04157 | .01120 | 1.9791 | .04081 | .03905 |
| #3 | .02274 | 2.1089 | .04078 | .01081 | 1.9756 | .04077 | .03899 |

|        |        |        |          |        |        |        |        |
|--------|--------|--------|----------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496   | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.0652 | .21973 | F .13091 | .02003 | .38822 | .03931 | .04341 |
| Stddev | .0262  | .00095 | .01870   | .00569 | .00410 | .00131 | .00179 |
| %RSD   | 1.2660 | .43461 | 14.282   | 28.434 | 1.0569 | 3.3362 | 4.1129 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0453 | .22081 | .14155 | .01360 | .38442 | .03968 | .04526 |
| #2 | 2.0555 | .21941 | .14186 | .02206 | .38768 | .04040 | .04170 |
| #3 | 2.0948 | .21898 | .10932 | .02443 | .39257 | .03786 | .04328 |

Sample Name: LLCCV01      Acquired: 6/11/2019 12:45:38      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: LLCCV01      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |          |          |
|--------|--------|--------|--------|----------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg    | .01918 | .0179  | .02230 | F 2.5755 | F<.00000 |
| Stddev | .00135 | .0010  | .00008 | .0319    | .39624   |
| %RSD   | 7.0534 | 5.706  | .34818 | 1.2403   | 14.437   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01984 | .0177 | .02229 | 2.6062 | -2.9384 |
| #2 | .02007 | .0190 | .02238 | 2.5780 | -3.0067 |
| #3 | .01762 | .0170 | .02223 | 2.5425 | -2.2888 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3320.4 | 48692. | 5277.0 | 87.778 | 3971.7 |
| Stddev    | 4.7    | 77.    | 12.7   | 1.060  | 2.5    |
| %RSD      | .14113 | .15837 | .24113 | 1.2078 | .06385 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3315.3 | 48623. | 5267.2 | 88.633 | 3969.8 |
| #2 | 3324.5 | 48775. | 5291.4 | 88.108 | 3970.8 |
| #3 | 3321.6 | 48678. | 5272.4 | 86.592 | 3974.6 |

Sample Name: CCB01      Acquired: 6/11/2019 12:50:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB01      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |        |         |        |
|--------|--------|---------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00004 | -.00015 | -.00022 | -.00310 | .00184 | -.00398 | .00072 |
| Stddev | .00112 | .00103  | .00088  | .00184  | .00088 | .00976  | .00054 |
| %RSD   | 2631.2 | 712.46  | 399.61  | 59.242  | 47.733 | 245.04  | 74.461 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | .00133  | -.00124 | -.00031 | -.00098 | .00213 | .00722  | .00031 |
| #2 | -.00044 | .00082  | -.00106 | -.00418 | .00085 | -.00855 | .00133 |
| #3 | -.00076 | -.00001 | .00070  | -.00415 | .00253 | -.01061 | .00053 |

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00006 | .00007 | -.00374 | -.00010 | .00019 | -.00043 | .00046 |
| Stddev | .00002 | .00008 | .01343  | .00035  | .00019 | .00018  | .00030 |
| %RSD   | 35.338 | 114.10 | 359.53  | 363.21  | 100.38 | 43.043  | 64.522 |

|    |        |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00005 | .00006  | -.01643 | .00019  | .00034  | -.00022 | .00059 |
| #2 | .00009 | -.00000 | .01033  | .00001  | .00027  | -.00055 | .00068 |
| #3 | .00005 | .00016  | -.00511 | -.00049 | -.00003 | -.00052 | .00012 |

|        |         |        |        |        |         |         |         |
|--------|---------|--------|--------|--------|---------|---------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     |
| Avg    | -.00002 | .03021 | .00015 | .00023 | -.09967 | -.00031 | -.00076 |
| Stddev | .00004  | .04887 | .00044 | .00037 | .00897  | .00029  | .00004  |
| %RSD   | 149.64  | 161.74 | 300.74 | 161.90 | 9.0043  | 91.182  | 5.1136  |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00002  | -.00982 | .00065  | .00066  | -.10217 | -.00033 | -.00079 |
| #2 | -.00004 | .08466  | -.00005 | -.00002 | -.10713 | -.00059 | -.00072 |
| #3 | -.00005 | .01579  | -.00016 | .00005  | -.08971 | -.00002 | -.00076 |

|        |         |        |        |         |         |         |         |
|--------|---------|--------|--------|---------|---------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.02637 | .00011 | .00940 | -.00062 | -.00480 | -.00293 | -.00020 |
| Stddev | .00531  | .00034 | .00488 | .00368  | .00169  | .00072  | .00044  |
| %RSD   | 20.145  | 302.56 | 51.873 | 592.27  | 35.193  | 24.459  | 216.39  |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.02055 | -.00001 | .00382 | -.00463 | -.00292 | -.00333 | -.00063 |
| #2 | -.03096 | .00049  | .01155 | .00259  | -.00620 | -.00211 | -.00022 |
| #3 | -.02759 | -.00015 | .01283 | .00018  | -.00526 | -.00337 | .00024  |



Sample Name: CCB01      Acquired: 6/11/2019 12:50:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB01      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00042 | -.0007 | .00005 | F 2.9030 | F<.00000 |
| Stddev | .00054  | .0022  | .00007 | .1010    | .64051   |
| %RSD   | 127.36  | 327.5  | 143.18 | 3.4784   | 20.615   |

|    |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|
| #1 | -.00092 | -.0022 | .00006  | 2.7916 | -2.7340 |
| #2 | -.00049 | .0019  | .00011  | 2.9289 | -2.7403 |
| #3 | .00015  | -.0017 | -.00002 | 2.9885 | -3.8465 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3321.1 | 48946. | 5303.2 | 88.667 | 3993.0 |
| Stddev    | 11.8   | 116.   | 23.1   | 2.138  | 9.2    |
| %RSD      | .35493 | .23603 | .43481 | 2.4107 | .23130 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3308.9 | 48902. | 5279.1 | 86.533 | 3982.4 |
| #2 | 3332.4 | 48858. | 5305.5 | 88.658 | 3999.5 |
| #3 | 3322.1 | 49077. | 5325.0 | 90.808 | 3997.0 |

Sample Name: LR CHECK 1      Acquired: 6/11/2019 12:55:32      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02221 | -.16583 | .16244 | -.66142 | .05612 | 2189.9 | .01516 | .11343 |
| Stddev | .01129  | .00580  | .01063 | .01128  | .00516 | 6.5    | .00085 | .00112 |
| %RSD   | 50.851  | 3.5002  | 6.5449 | 1.7054  | 9.1915 | .29738 | 5.6338 | .99024 |

|    |         |         |        |         |        |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.03469 | -.17066 | .17377 | -.65847 | .06207 | 2186.9 | .01424 | .11244 |
| #2 | -.01269 | -.16743 | .15267 | -.65191 | .05329 | 2197.4 | .01533 | .11465 |
| #3 | -.01926 | -.15939 | .16089 | -.67388 | .05299 | 2185.5 | .01592 | .11320 |

|        |        |        |         |        |        |        |         |        |
|--------|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .16826 | 1962.6 | -.07690 | .10392 | 1.2472 | 820.61 | -.01472 | 1934.2 |
| Stddev | .00034 | 29.3   | .00094  | .00043 | .0024  | 1.74   | .00025  | 5.5    |
| %RSD   | .20232 | 1.4919 | 1.2271  | .41711 | .19058 | .21188 | 1.6699  | .28593 |

|    |        |        |         |        |        |        |         |        |
|----|--------|--------|---------|--------|--------|--------|---------|--------|
| #1 | .16787 | 1988.9 | -.07641 | .10436 | 1.2445 | 818.69 | -.01494 | 1928.1 |
| #2 | .16839 | 1967.8 | -.07631 | .10392 | 1.2488 | 821.06 | -.01445 | 1935.6 |
| #3 | .16851 | 1931.0 | -.07799 | .10349 | 1.2484 | 822.08 | -.01476 | 1938.9 |

|        |         |         |        |        |        |        |         |         |
|--------|---------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.14719 | -.29500 | 1751.1 | .00384 | .25142 | 929.85 | -.04762 | -1.2439 |
| Stddev | .00150  | .00069  | 7.6    | .00059 | .00046 | 4.25   | .00026  | .0135   |
| %RSD   | 1.0162  | .23246  | .43406 | 15.462 | .18327 | .45697 | .55419  | 1.0813  |

|    |         |         |        |        |        |        |         |         |
|----|---------|---------|--------|--------|--------|--------|---------|---------|
| #1 | -.14840 | -.29565 | 1750.1 | .00448 | .25151 | 932.11 | -.04787 | -1.2285 |
| #2 | -.14766 | -.29429 | 1744.1 | .00331 | .25092 | 924.94 | -.04734 | -1.2502 |
| #3 | -.14552 | -.29507 | 1759.2 | .00372 | .25183 | 932.48 | -.04764 | -1.2530 |

|        |        |        |        |         |        |        |         |        |
|--------|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .52716 | .01460 | .10038 | -.06649 | .03884 | .2686  | -.88850 | .40765 |
| Stddev | .02695 | .00352 | .00701 | .00223  | .00188 | .0105  | .00186  | .06658 |
| %RSD   | 5.1115 | 24.087 | 6.9870 | 3.3504  | 4.8443 | 3.913  | .20886  | 16.333 |

|    |        |        |        |         |        |       |         |        |
|----|--------|--------|--------|---------|--------|-------|---------|--------|
| #1 | .49859 | .01603 | .10479 | -.06709 | .03670 | .2567 | -.88644 | .33671 |
| #2 | .53077 | .01059 | .09229 | -.06402 | .03959 | .2769 | -.88900 | .41744 |
| #3 | .55212 | .01718 | .10406 | -.06835 | .04024 | .2721 | -.89005 | .46879 |

Sample Name: LR CHECK 1      Acquired: 6/11/2019 12:55:32      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 1796.0 |
| Stddev | 7.0    |
| %RSD   | .38735 |

|    |        |
|----|--------|
| #1 | 1801.9 |
| #2 | 1788.3 |
| #3 | 1797.8 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2154.5 | 31438. | 4389.0 | 64.026 | 1931.8 |
| Stddev    | 2.6    | 64.    | 40.7   | 2.311  | .6     |
| %RSD      | .12033 | .20226 | .92740 | 3.6100 | .03359 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2155.4 | 31468. | 4362.1 | 65.992 | 1932.5 |
| #2 | 2156.6 | 31480. | 4369.1 | 61.480 | 1931.7 |
| #3 | 2151.6 | 31365. | 4435.8 | 64.607 | 1931.2 |

Sample Name: LR CHECK 2      Acquired: 6/11/2019 13:00:37      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |         |        |         |
|--------|--------|---------|--------|--------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00785 | -.01843 | 244.79 | .03413 | -.06786 | -.32847 | 95.172 | -.00082 |
| Stddev | .00206 | .00211  | .59    | .00250 | .00310  | .00693  | .429   | .00006  |
| %RSD   | 26.215 | 11.425  | .24002 | 7.3322 | 4.5723  | 2.1109  | .45061 | 7.4794  |

|    |        |         |        |        |         |         |        |         |
|----|--------|---------|--------|--------|---------|---------|--------|---------|
| #1 | .00966 | -.01616 | 245.46 | .03227 | -.06794 | -.32513 | 94.678 | -.00088 |
| #2 | .00561 | -.02032 | 244.48 | .03314 | -.07092 | -.32385 | 95.388 | -.00082 |
| #3 | .00828 | -.01880 | 244.41 | .03698 | -.06471 | -.33645 | 95.449 | -.00076 |

|        |         |        |         |         |        |         |        |         |
|--------|---------|--------|---------|---------|--------|---------|--------|---------|
| Elem   | Cd2265  | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | -.01542 | .11334 | -.12505 | -.01638 | 251.61 | -.71514 | 42.455 | -.04573 |
| Stddev | .00022  | .00535 | .00027  | .00034  | 1.33   | .00121  | .380   | .06509  |
| %RSD   | 1.4182  | 4.7229 | .21974  | 2.0733  | .52699 | .16973  | .89572 | 142.32  |

|    |         |        |         |         |        |         |        |         |
|----|---------|--------|---------|---------|--------|---------|--------|---------|
| #1 | -.01566 | .11867 | -.12485 | -.01664 | 253.15 | -.71404 | 42.070 | -.07225 |
| #2 | -.01523 | .10797 | -.12493 | -.01599 | 250.81 | -.71644 | 42.831 | .02843  |
| #3 | -.01538 | .11340 | -.12536 | -.01650 | 250.89 | -.71495 | 42.465 | -.09338 |

|        |        |        |        |         |        |        |         |         |
|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | 50.645 | .00234 | .88480 | -.24037 | 32.894 | .89532 | -.01309 | -.00337 |
| Stddev | .121   | .00059 | .13356 | .00069  | .091   | .11911 | .00068  | .00720  |
| %RSD   | .23977 | 25.075 | 15.095 | .28768  | .27540 | 13.304 | 5.1864  | 213.62  |

|    |        |        |        |         |        |        |         |         |
|----|--------|--------|--------|---------|--------|--------|---------|---------|
| #1 | 50.773 | .00189 | 1.0216 | -.24114 | 32.992 | 1.0170 | -.01233 | -.00185 |
| #2 | 50.631 | .00300 | .87807 | -.24019 | 32.812 | .89008 | -.01363 | -.01120 |
| #3 | 50.531 | .00213 | .75473 | -.23979 | 32.879 | .77892 | -.01332 | .00295  |

|        |        |        |         |        |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .10717 | .01260 | -.00227 | .02595 | .00183 | .0510  | .00339 | 3.6150 |
| Stddev | .00458 | .00288 | .00056  | .00143 | .00132 | .0074  | .00003 | .1311  |
| %RSD   | 4.2758 | 22.872 | 24.548  | 5.5028 | 72.112 | 14.44  | 1.0195 | 3.6261 |

|    |        |        |         |        |        |       |        |        |
|----|--------|--------|---------|--------|--------|-------|--------|--------|
| #1 | .10804 | .01564 | -.00291 | .02645 | .00285 | .0454 | .00335 | 3.4778 |
| #2 | .10222 | .00991 | -.00186 | .02434 | .00034 | .0483 | .00341 | 3.6282 |
| #3 | .11126 | .01226 | -.00205 | .02706 | .00231 | .0593 | .00341 | 3.7389 |

Sample Name: LR CHECK 2      Acquired: 6/11/2019 13:00:37      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | .05252  |
| %RSD   | 2.0174  |

|    |         |
|----|---------|
| #1 | -2.5518 |
| #2 | -2.6012 |
| #3 | -2.6568 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2438.6 | 48919. | 5308.7 | 88.214 | 3623.1 |
| Stddev    | 12.5   | 239.   | 36.5   | 1.777  | 7.4    |
| %RSD      | .51202 | .48783 | .68810 | 2.0139 | .20291 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2424.4 | 49156. | 5268.0 | 88.050 | 3614.7 |
| #2 | 2443.8 | 48679. | 5338.6 | 90.067 | 3628.3 |
| #3 | 2447.7 | 48922. | 5319.5 | 86.525 | 3626.4 |

Sample Name: PB120495BS      Acquired: 6/11/2019 13:05:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .73483 | 1.9294 | .99086 | 1.8825 | .76337 | 1.9071 | .19547 |
| Stddev | .00546 | .0141  | .00459 | .0054  | .00165 | .0352  | .00113 |
| %RSD   | .74280 | .72941 | .46280 | .28491 | .21617 | 1.8484 | .57752 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .74112 | 1.9136 | .99591 | 1.8856 | .76309 | 1.8897 | .19525 |
| #2 | .73140 | 1.9337 | .98697 | 1.8856 | .76513 | 1.8839 | .19447 |
| #3 | .73196 | 1.9408 | .98969 | 1.8763 | .76187 | 1.9477 | .19669 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .18795 | .18366 | 1.0316 | .39653 | .19248 | .31411 | 3.0354 |
| Stddev | .00042 | .00108 | .0114  | .00065 | .00150 | .00086 | .0135  |
| %RSD   | .22590 | .58854 | 1.1014 | .16388 | .77965 | .27282 | .44307 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .18839 | .18261 | 1.0313 | .39639 | .19135 | .31471 | 3.0502 |
| #2 | .18794 | .18361 | 1.0204 | .39596 | .19191 | .31448 | 3.0239 |
| #3 | .18754 | .18477 | 1.0431 | .39724 | .19418 | .31313 | 3.0321 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20383 | 1.9010 | .47804 | .06972 | 3.2211 | .29541 | .18726 |
| Stddev | .00072 | .0185  | .00233 | .00094 | .0252  | .00103 | .00083 |
| %RSD   | .35184 | .97164 | .48644 | 1.3453 | .78212 | .34927 | .44256 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20433 | 1.9163 | .47554 | .06885 | 3.2152 | .29505 | .18705 |
| #2 | .20301 | 1.9062 | .47846 | .07071 | 3.1993 | .29460 | .18656 |
| #3 | .20415 | 1.8804 | .48013 | .06959 | 3.2487 | .29657 | .18818 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 9.8632 | .40130 | .30060 | F -.00128 | .84695 | .65580 | .19786 |
| Stddev | .1107  | .00126 | .01636 | .00149    | .00982 | .00351 | .00195 |
| %RSD   | 1.1222 | .31427 | 5.4420 | 115.94    | 1.1597 | .53568 | .98399 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 9.8111 | .40258 | .30204 | -.00214 | .84333 | .65271 | .19744 |
| #2 | 9.7882 | .40125 | .28357 | .00043  | .85807 | .65506 | .19615 |
| #3 | 9.9903 | .40006 | .31620 | -.00214 | .83945 | .65962 | .19998 |

Sample Name: PB120495BS      Acquired: 6/11/2019 13:05:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |          |          |
|-----------|--------|--------|--------|----------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg       | .21071 | 5.424  | .20243 | F 3.1730 | F 4.5091 |
| Stddev    | .00140 | .018   | .00026 | .1446    | 1.0328   |
| %RSD      | .66447 | .3273  | .12844 | 4.5564   | 22.904   |
| #1        | .21115 | 5.418  | .20226 | 3.3378   | 5.2436   |
| #2        | .21184 | 5.410  | .20273 | 3.1137   | 4.9555   |
| #3        | .20914 | 5.444  | .20229 | 3.0675   | 3.3282   |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3278.8 | 48189. | 5173.7 | 87.108   | 3893.1   |
| Stddev    | 10.6   | 171.   | 36.6   | 2.281    | 19.5     |
| %RSD      | .32364 | .35529 | .70746 | 2.6186   | .49998   |
| #1        | 3268.1 | 48044. | 5144.1 | 85.158   | 3894.6   |
| #2        | 3289.3 | 48378. | 5162.4 | 86.550   | 3911.8   |
| #3        | 3278.9 | 48144. | 5214.6 | 89.617   | 3873.0   |

Sample Name: PB120518BS      Acquired: 6/11/2019 13:09:16      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |         |          |        |
|--------|----------|--------|--------|--------|--------|---------|----------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934   | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | .75832   | 2.0069 | .98535 | 1.9777 | .79257 | 1.9405  | .19741   | .19727 |
| Stddev | .00726   | .0049  | .00586 | .0042  | .00232 | .0125   | .00055   | .00074 |
| %RSD   | .95697   | .24427 | .59440 | .21311 | .29270 | .64208  | .28036   | .37297 |
| #1     | .75091   | 2.0118 | .99205 | 1.9728 | .79017 | 1.9269  | .19690   | .19782 |
| #2     | .76541   | 2.0067 | .98277 | 1.9806 | .79274 | 1.9514  | .19800   | .19754 |
| #3     | .75864   | 2.0020 | .98122 | 1.9796 | .79480 | 1.9431  | .19733   | .19643 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576   | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | .19078   | 1.0584 | .40625 | .19715 | .32201 | 3.1116  | .20910   | 1.9110 |
| Stddev | .00055   | .0130  | .00120 | .00047 | .00017 | .0045   | .00042   | .0332  |
| %RSD   | .28610   | 1.2317 | .29634 | .23796 | .05137 | .14556  | .19890   | 1.7371 |
| #1     | .19140   | 1.0496 | .40636 | .19769 | .32182 | 3.1090  | .20946   | 1.8736 |
| #2     | .19038   | 1.0522 | .40739 | .19687 | .32207 | 3.1168  | .20918   | 1.9220 |
| #3     | .19056   | 1.0734 | .40499 | .19688 | .32213 | 3.1089  | .20864   | 1.9372 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020   | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | .49496   | .07304 | 3.0620 | .30182 | .19277 | 9.9450  | .41007   | .29949 |
| Stddev | .00233   | .00042 | .0160  | .00138 | .00097 | .0447   | .00195   | .01393 |
| %RSD   | .47102   | .56936 | .52138 | .45770 | .50511 | .44924  | .47666   | 4.6513 |
| #1     | .49740   | .07327 | 3.0527 | .30215 | .19370 | 9.8995  | .40944   | .28465 |
| #2     | .49472   | .07329 | 3.0805 | .30301 | .19285 | 9.9467  | .40851   | .30155 |
| #3     | .49276   | .07256 | 3.0530 | .30030 | .19175 | 9.9888  | .41227   | .31228 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077   | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | F .01027 | .89255 | .68417 | .20415 | .21049 | F 5.668 | F .20685 | 2.8377 |
| Stddev | .00123   | .00612 | .00324 | .00152 | .00206 | .025    | .00132   | .0678  |
| %RSD   | 11.937   | .68566 | .47344 | .74541 | .98060 | .4469   | .63903   | 2.3902 |
| #1     | .00946   | .88550 | .68759 | .20273 | .21052 | 5.697   | .20541   | 2.9111 |
| #2     | .01168   | .89555 | .68379 | .20576 | .21254 | 5.658   | .20712   | 2.8248 |
| #3     | .00967   | .89658 | .68114 | .20398 | .20841 | 5.650   | .20801   | 2.7773 |



Sample Name: PB120518BS      Acquired: 6/11/2019 13:09:16      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 5.4374 |
| Stddev | 1.2089 |
| %RSD   | 22.234 |

|    |        |
|----|--------|
| #1 | 4.5138 |
| #2 | 6.8056 |
| #3 | 4.9926 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3313.1 | 48177. | 5165.2 | 87.072 | 3912.0 |
| Stddev    | 15.3   | 24.    | 5.4    | .889   | 9.4    |
| %RSD      | .46140 | .04987 | .10370 | 1.0206 | .24153 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3324.9 | 48154. | 5165.1 | 88.058 | 3901.4 |
| #2 | 3318.7 | 48176. | 5170.7 | 86.825 | 3919.5 |
| #3 | 3295.9 | 48202. | 5160.0 | 86.333 | 3915.2 |

Sample Name: K3193-04DLX10      Acquired: 6/11/2019 13:12:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00213 | -.00220 | .01323 | .00104 | .00064 | -.04952 | .19425 |
| Stddev | .00191 | .00118  | .00080 | .00365 | .00196 | .01928  | .00123 |
| %RSD   | 89.599 | 53.827  | 6.0273 | 351.76 | 303.92 | 38.927  | .63545 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .00243 | -.00199 | .01408 | .00004  | -.00156 | -.03460 | .19439 |
| #2 | .00388 | -.00348 | .01249 | -.00201 | .00129  | -.07129 | .19541 |
| #3 | .00009 | -.00114 | .01313 | .00508  | .00220  | -.04267 | .19295 |

|        |        |         |        |         |         |        |        |
|--------|--------|---------|--------|---------|---------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00016 | -.00070 | 57.063 | -.00062 | -.00010 | .00619 | 2.7464 |
| Stddev | .00007 | .00011  | .168   | .00052  | .00015  | .00030 | .0083  |
| %RSD   | 42.659 | 16.471  | .29366 | 82.912  | 151.30  | 4.8573 | .30422 |

|    |        |         |        |         |         |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|
| #1 | .00010 | -.00082 | 56.893 | -.00003 | .00008  | .00646 | 2.7549 |
| #2 | .00023 | -.00060 | 57.228 | -.00085 | -.00020 | .00624 | 2.7461 |
| #3 | .00014 | -.00066 | 57.068 | -.00098 | -.00018 | .00587 | 2.7382 |

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .49921 | 148.54 | -.00536 | -.00015 | 1267.4 | -.00035 | .00252 |
| Stddev | .00060 | .33    | .00024  | .00033  | 5.8    | .00055  | .00016 |
| %RSD   | .12057 | .22283 | 4.5385  | 215.07  | .45718 | 160.47  | 6.1619 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | .49938 | 148.17 | -.00542 | .00020  | 1260.8 | -.00081 | .00241 |
| #2 | .49972 | 148.80 | -.00509 | -.00021 | 1271.7 | .00027  | .00270 |
| #3 | .49855 | 148.66 | -.00557 | -.00046 | 1269.6 | -.00050 | .00245 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 55.359 | .01324 | .72348 | 4.7885 | 3.0675 | -.00169 | -.00089 |
| Stddev | .182   | .00035 | .00950 | .0513  | .0260  | .00078  | .00024  |
| %RSD   | .32863 | 2.6341 | 1.3125 | 1.0721 | .84903 | 45.924  | 26.876  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 55.149 | .01285 | .71332 | 4.8477 | 3.0693 | -.00251 | -.00061 |
| #2 | 55.461 | .01351 | .72499 | 4.7555 | 3.0926 | -.00161 | -.00102 |
| #3 | 55.468 | .01337 | .73214 | 4.7624 | 3.0406 | -.00096 | -.00103 |

Sample Name: K3193-04DLX10      Acquired: 6/11/2019 13:12:56      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .04970 | .0170  | 1.0012 | 5.2422 | F<.00000 |
| Stddev    | .00481 | .0009  | .0026  | .0378  | .76793   |
| %RSD      | 9.6847 | 5.304  | .26083 | .72062 | 8.5772   |
| #1        | .04424 | .0179  | 1.0002 | 5.2336 | -8.0918  |
| #2        | .05150 | .0172  | 1.0042 | 5.2095 | -9.2015  |
| #3        | .05335 | .0161  | .99930 | 5.2836 | -9.5662  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2847.4 | 39776. | 4875.0 | 79.542 | 3000.2   |
| Stddev    | 10.3   | 73.    | 20.1   | .720   | 9.3      |
| %RSD      | .36277 | .18315 | .41162 | .90500 | .30914   |
| #1        | 2838.8 | 39766. | 4880.9 | 78.993 | 2992.2   |
| #2        | 2858.8 | 39709. | 4852.6 | 80.357 | 3010.3   |
| #3        | 2844.4 | 39854. | 4891.4 | 79.276 | 2998.0   |

Sample Name: K3193-04DUPDLX10      Acquired: 6/11/2019 13:17:25      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |
|--------|--------|---------|--------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00579 | -.00142 | .01096 | -.00119 | -.00050 | -.06489 | .18801 |
| Stddev | .00534 | .00054  | .00030 | .00547  | .00048  | .00901  | .00197 |
| %RSD   | 92.201 | 37.836  | 2.7326 | 459.73  | 95.863  | 13.886  | 1.0457 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .00136 | -.00204 | .01086 | -.00751 | .00004  | -.05716 | .18582 |
| #2 | .00430 | -.00114 | .01072 | .00211  | -.00086 | -.07479 | .18861 |
| #3 | .01172 | -.00109 | .01130 | .00183  | -.00067 | -.06272 | .18962 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00021 | -.00073 | 54.872 | -.00038 | .00011 | .00596 | 2.6333 |
| Stddev | .00007 | .00005  | .250   | .00036  | .00006 | .00049 | .0045  |
| %RSD   | 34.628 | 6.2529  | .45565 | 94.452  | 55.146 | 8.1674 | .17085 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00016 | -.00078 | 55.154 | -.00078 | .00016 | .00566 | 2.6316 |
| #2 | .00018 | -.00073 | 54.786 | -.00008 | .00014 | .00571 | 2.6299 |
| #3 | .00030 | -.00069 | 54.676 | -.00029 | .00004 | .00653 | 2.6384 |

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .47835 | 142.85 | -.00493 | -.00019 | 1212.0 | -.00062 | .00223 |
| Stddev | .00039 | 1.38   | .00056  | .00025  | 3.1    | .00038  | .00006 |
| %RSD   | .08069 | .96517 | 11.387  | 131.65  | .25399 | 61.314  | 2.5208 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | .47841 | 141.27 | -.00533 | -.00010 | 1212.6 | -.00069 | .00222 |
| #2 | .47793 | 143.46 | -.00518 | -.00047 | 1208.6 | -.00095 | .00217 |
| #3 | .47870 | 143.82 | -.00429 | .00000  | 1214.7 | -.00021 | .00229 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 53.353 | .01282 | .67145 | 4.6389 | 2.9412 | -.00205 | -.00015 |
| Stddev | .374   | .00016 | .01588 | .0192  | .0265  | .00173  | .00084  |
| %RSD   | .70158 | 1.2152 | 2.3652 | .41435 | .90102 | 84.791  | 543.58  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 52.989 | .01267 | .66628 | 4.6370 | 2.9715 | -.00007 | -.00023 |
| #2 | 53.333 | .01283 | .65879 | 4.6590 | 2.9297 | -.00273 | -.00095 |
| #3 | 53.737 | .01298 | .68927 | 4.6207 | 2.9223 | -.00334 | .00072  |

Sample Name: K3193-04DUPDLX10      Acquired: 6/11/2019 13:17:25      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .05183 | .0175  | .96565 | 5.1139 | F<.00000 |
| Stddev | .00202 | .0008  | .00523 | .0330  | 1.3296   |
| %RSD   | 3.8934 | 4.363  | .54112 | .64567 | 14.843   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .05022 | .0178 | .97166 | 5.0799 | -7.4224 |
| #2 | .05117 | .0166 | .96220 | 5.1159 | -9.7347 |
| #3 | .05409 | .0181 | .96309 | 5.1458 | -9.7161 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2886.6 | 40217. | 4923.9 | 80.111 | 3048.5 |
| Stddev    | 13.1   | 24.    | 56.6   | 2.361  | 11.5   |
| %RSD      | .45326 | .06084 | 1.1491 | 2.9470 | .37587 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2872.0 | 40207. | 4860.6 | 77.443 | 3035.4 |
| #2 | 2897.2 | 40245. | 4941.5 | 80.964 | 3056.6 |
| #3 | 2890.7 | 40199. | 4969.6 | 81.928 | 3053.5 |

Sample Name: K3193-04LDLX50      Acquired: 6/11/2019 13:21:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00378 | .00008 | .00465 | .00054 | .00045 | -.02102 | .03584 |
| Stddev | .00131 | .00060 | .00109 | .00223 | .00137 | .00387  | .00063 |
| %RSD   | 34.768 | 718.30 | 23.489 | 412.21 | 304.10 | 18.435  | 1.7656 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .00229 | .00075  | .00494 | .00144  | .00112  | -.02475 | .03569 |
| #2 | .00477 | -.00042 | .00556 | -.00199 | .00136  | -.01701 | .03529 |
| #3 | .00428 | -.00008 | .00344 | .00218  | -.00113 | -.02130 | .03653 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00013 | -.00021 | 11.018 | .00083 | .00001 | .00132 | .53048 |
| Stddev | .00003 | .00008  | .062   | .00029 | .00024 | .00022 | .00085 |
| %RSD   | 22.895 | 41.301  | .56013 | 35.643 | 2302.9 | 17.047 | .16092 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .00016 | -.00014 | 10.987 | .00083 | -.00026 | .00106 | .53109 |
| #2 | .00012 | -.00030 | 11.089 | .00053 | .00019  | .00141 | .52951 |
| #3 | .00011 | -.00018 | 10.977 | .00112 | .00010  | .00148 | .53085 |

|        |        |        |         |        |        |         |         |
|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280 | Na5895 | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .09599 | 25.989 | -.00175 | .00021 | 231.04 | -.00020 | -.00005 |
| Stddev | .00026 | .180   | .00076  | .00020 | .51    | .00019  | .00005  |
| %RSD   | .27546 | .69431 | 43.408  | 98.279 | .22044 | 96.527  | 109.17  |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | .09619 | 26.071 | -.00088 | .00014 | 231.12 | -.00042 | -.00010 |
| #2 | .09608 | 25.782 | -.00217 | .00043 | 230.50 | -.00011 | -.00005 |
| #3 | .09569 | 26.114 | -.00222 | .00005 | 231.51 | -.00007 | .00001  |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 9.7048 | .00252 | .11816 | .83629 | .58809 | -.00415 | .00141 |
| Stddev | .0353  | .00018 | .01091 | .00817 | .00379 | .00045  | .00089 |
| %RSD   | .36418 | 7.1666 | 9.2365 | .97714 | .64411 | 10.791  | 63.151 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 9.7447 | .00234 | .13071 | .82759 | .59167 | -.00388 | .00049 |
| #2 | 9.6773 | .00270 | .11093 | .84380 | .58849 | -.00390 | .00147 |
| #3 | 9.6925 | .00250 | .11283 | .83748 | .58412 | -.00467 | .00227 |

Sample Name: K3193-04LDLX50      Acquired: 6/11/2019 13:21:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01344 | .0011  | .19296 | 3.5038 | F<.00000 |
| Stddev | .00096 | .0004  | .00041 | .0504  | .65055   |
| %RSD   | 7.1196 | 36.18  | .21441 | 1.4391 | 8.2867   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01248 | .0016 | .19343 | 3.4488 | -7.3221 |
| #2 | .01346 | .0009 | .19278 | 3.5478 | -8.5771 |
| #3 | .01439 | .0008 | .19266 | 3.5149 | -7.6523 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3186.4 | 45755. | 5232.6 | 85.191 | 3546.5 |
| Stddev    | 8.1    | 127.   | 32.9   | 2.594  | 10.7   |
| %RSD      | .25320 | .27748 | .62956 | 3.0453 | .30036 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3194.0 | 45635. | 5207.0 | 82.200 | 3556.9 |
| #2 | 3177.9 | 45888. | 5220.9 | 86.537 | 3535.6 |
| #3 | 3187.3 | 45741. | 5269.7 | 86.835 | 3547.0 |

Sample Name: K3193-04MSDLX10      Acquired: 6/11/2019 13:26:23      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .09316 | .20315 | .11463 | .22504 | .08680 | .20113 | .20501 |
| Stddev | .00547 | .00274 | .00087 | .00198 | .00205 | .01633 | .00222 |
| %RSD   | 5.8678 | 1.3481 | .75723 | .87787 | 2.3653 | 8.1190 | 1.0806 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .09849 | .20329 | .11514 | .22438 | .08917 | .18267 | .20292 |
| #2 | .09342 | .20034 | .11512 | .22347 | .08562 | .20702 | .20479 |
| #3 | .08757 | .20582 | .11362 | .22726 | .08562 | .21369 | .20733 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02346 | .02114 | 52.404 | .04476 | .02192 | .03767 | 2.8528 |
| Stddev | .00013 | .00011 | .104   | .00025 | .00041 | .00031 | .0073  |
| %RSD   | .53558 | .52764 | .19764 | .55897 | 1.8717 | .82045 | .25773 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02349 | .02121 | 52.377 | .04492 | .02165 | .03794 | 2.8613 |
| #2 | .02356 | .02119 | 52.519 | .04489 | .02172 | .03733 | 2.8480 |
| #3 | .02332 | .02101 | 52.317 | .04447 | .02239 | .03774 | 2.8492 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .48159 | 137.05 | .05014 | .00826 | 1172.5 | .03309 | .02780 |
| Stddev | .00076 | .88    | .00028 | .00047 | 12.4   | .00019 | .00020 |
| %RSD   | .15775 | .64431 | .56521 | 5.7425 | 1.0603 | .56873 | .71302 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .48246 | 136.05 | .05043 | .00865 | 1167.0 | .03310 | .02803 |
| #2 | .48108 | 137.39 | .05012 | .00773 | 1163.7 | .03289 | .02770 |
| #3 | .48123 | 137.71 | .04986 | .00839 | 1186.7 | .03327 | .02767 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 52.498 | .05649 | .71602 | 4.4743 | 2.8591 | .07464 | .02020 |
| Stddev | .284   | .00062 | .01470 | .0020  | .0116  | .00119 | .00175 |
| %RSD   | .54178 | 1.0958 | 2.0537 | .04420 | .40632 | 1.5989 | 8.6689 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 52.213 | .05709 | .73159 | 4.4766 | 2.8725 | .07359 | .02025 |
| #2 | 52.498 | .05653 | .71412 | 4.4731 | 2.8519 | .07594 | .02192 |
| #3 | 52.782 | .05585 | .70236 | 4.4733 | 2.8530 | .07439 | .01842 |



Sample Name: K3193-04MSDLX10      Acquired: 6/11/2019 13:26:23      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .06436 | .7866  | .94271 | 5.1374 | F<.00000 |
| Stddev    | .00219 | .0079  | .00128 | .0329  | .57852   |
| %RSD      | 3.4030 | 1.001  | .13605 | .64031 | 7.0195   |
| #1        | .06200 | .7795  | .94374 | 5.1407 | -8.3436  |
| #2        | .06475 | .7851  | .94128 | 5.1686 | -7.6190  |
| #3        | .06633 | .7951  | .94312 | 5.1030 | -8.7624  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2899.6 | 40796. | 5053.8 | 81.043 | 3059.2   |
| Stddev    | 7.9    | 50.    | 32.0   | .885   | 8.1      |
| %RSD      | .27413 | .12232 | .63358 | 1.0916 | .26383   |
| #1        | 2890.5 | 40797. | 5018.7 | 80.440 | 3050.7   |
| #2        | 2903.8 | 40745. | 5061.4 | 82.059 | 3060.1   |
| #3        | 2904.6 | 40845. | 5081.4 | 80.631 | 3066.7   |

Sample Name: K3193-04MSDDLX10      Acquired: 6/11/2019 13:30:54      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .08282 | .18985 | .10339 | .20494 | .08331 | .20918 | .18648 |
| Stddev | .00147 | .00183 | .00067 | .00208 | .00257 | .02727 | .00047 |
| %RSD   | 1.7756 | .96382 | .64538 | 1.0148 | 3.0796 | 13.038 | .25267 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .08246 | .19052 | .10262 | .20518 | .08487 | .24055 | .18700 |
| #2 | .08157 | .19126 | .10381 | .20276 | .08471 | .19595 | .18607 |
| #3 | .08444 | .18779 | .10374 | .20690 | .08035 | .19105 | .18638 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02146 | .01917 | 49.026 | .04204 | .01996 | .03453 | 2.6218 |
| Stddev | .00012 | .00007 | .219   | .00056 | .00018 | .00009 | .0121  |
| %RSD   | .56820 | .35383 | .44574 | 1.3405 | .92381 | .26650 | .45960 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02136 | .01924 | 48.774 | .04163 | .01999 | .03446 | 2.6121 |
| #2 | .02143 | .01915 | 49.150 | .04182 | .02014 | .03463 | 2.6353 |
| #3 | .02160 | .01911 | 49.155 | .04269 | .01977 | .03450 | 2.6180 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .44243 | 124.82 | .04634 | .00727 | 1057.2 | .03048 | .02534 |
| Stddev | .00158 | .24    | .00046 | .00042 | 6.4    | .00017 | .00018 |
| %RSD   | .35789 | .19533 | .98237 | 5.7184 | .60108 | .57026 | .72131 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .44100 | 124.78 | .04639 | .00752 | 1049.8 | .03039 | .02546 |
| #2 | .44413 | 125.08 | .04586 | .00679 | 1061.0 | .03068 | .02542 |
| #3 | .44215 | 124.60 | .04677 | .00750 | 1060.7 | .03037 | .02513 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 47.903 | .05162 | .64814 | 4.0821 | 2.6694 | .06765 | .01924 |
| Stddev | .123   | .00067 | .01613 | .0173  | .0256  | .00066 | .00240 |
| %RSD   | .25752 | 1.2887 | 2.4893 | .42403 | .95915 | .97999 | 12.454 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 47.769 | .05190 | .66330 | 4.0801 | 2.6428 | .06837 | .01682 |
| #2 | 48.011 | .05210 | .63119 | 4.1003 | 2.6716 | .06751 | .01930 |
| #3 | 47.929 | .05086 | .64995 | 4.0659 | 2.6939 | .06706 | .02161 |

Sample Name: K3193-04MSDDLX10      Acquired: 6/11/2019 13:30:54      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .06165 | .7177  | .87548 | 5.0201 | F<.00000 |
| Stddev | .00421 | .0024  | .00612 | .0980  | .81177   |
| %RSD   | 6.8363 | .3379  | .69883 | 1.9526 | 11.922   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .05679 | .7172 | .86867 | 5.1208 | -6.4618 |
| #2 | .06438 | .7203 | .88050 | 5.0145 | -6.2289 |
| #3 | .06377 | .7155 | .87728 | 4.9250 | -7.7368 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2926.9 | 40984. | 4984.5 | 79.973 | 3091.1 |
| Stddev    | 22.1   | 80.    | 33.6   | 2.712  | 20.4   |
| %RSD      | .75356 | .19542 | .67373 | 3.3905 | .65932 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2914.3 | 40986. | 5019.7 | 83.100 | 3077.7 |
| #2 | 2914.0 | 40904. | 4952.9 | 78.543 | 3081.1 |
| #3 | 2952.4 | 41064. | 4980.8 | 78.277 | 3114.5 |

Sample Name: K3193-04ADLX10      Acquired: 6/11/2019 13:35:25      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .08065 | .18557 | .10270 | .20426 | .08061 | .25213 | .18654 |
| Stddev | .00443 | .00054 | .00173 | .00167 | .00133 | .01165 | .00189 |
| %RSD   | 5.4898 | .29303 | 1.6865 | .81818 | 1.6444 | 4.6209 | 1.0112 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .07785 | .18616 | .10427 | .20415 | .08205 | .24958 | .18495 |
| #2 | .08576 | .18510 | .10084 | .20598 | .08035 | .24198 | .18862 |
| #3 | .07835 | .18544 | .10301 | .20264 | .07943 | .26485 | .18605 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02129 | .01915 | 48.694 | .04609 | .01991 | .03438 | 2.6285 |
| Stddev | .00009 | .00012 | .255   | .00060 | .00013 | .00085 | .0008  |
| %RSD   | .41812 | .65178 | .52420 | 1.2952 | .65357 | 2.4706 | .02933 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02130 | .01929 | 48.401 | .04666 | .01995 | .03531 | 2.6286 |
| #2 | .02137 | .01905 | 48.816 | .04547 | .02001 | .03417 | 2.6277 |
| #3 | .02119 | .01911 | 48.866 | .04615 | .01976 | .03365 | 2.6293 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .44229 | 124.49 | .04878 | .00736 | 1047.3 | .03063 | .02565 |
| Stddev | .00034 | 1.65   | .00039 | .00046 | 9.6    | .00008 | .00006 |
| %RSD   | .07759 | 1.3223 | .79158 | 6.2029 | .91777 | .25880 | .21923 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .44264 | 122.61 | .04841 | .00786 | 1037.8 | .03070 | .02559 |
| #2 | .44196 | 125.21 | .04918 | .00696 | 1057.0 | .03063 | .02570 |
| #3 | .44226 | 125.65 | .04876 | .00726 | 1047.1 | .03054 | .02565 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 47.379 | .05234 | .63061 | 4.0735 | 2.6480 | .06808 | .01807 |
| Stddev | .362   | .00058 | .02327 | .0147  | .0242  | .00076 | .00268 |
| %RSD   | .76488 | 1.0997 | 3.6896 | .36188 | .91522 | 1.1104 | 14.806 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 46.968 | .05300 | .62117 | 4.0834 | 2.6757 | .06895 | .02018 |
| #2 | 47.516 | .05195 | .61354 | 4.0805 | 2.6311 | .06757 | .01897 |
| #3 | 47.653 | .05206 | .65711 | 4.0565 | 2.6370 | .06773 | .01506 |

Sample Name: K3193-04ADLX10      Acquired: 6/11/2019 13:35:25      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .05850 | .7109  | .86422 | 4.9644 | F<.00000 |
| Stddev    | .00292 | .0020  | .00526 | .0896  | .38563   |
| %RSD      | 4.9914 | .2803  | .60913 | 1.8059 | 4.6254   |
| #1        | .05544 | .7126  | .86985 | 4.9882 | -7.9326  |
| #2        | .05880 | .7115  | .86338 | 5.0398 | -8.3785  |
| #3        | .06126 | .7087  | .85943 | 4.8653 | -8.7005  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2923.6 | 41075. | 5021.9 | 81.085 | 3084.1   |
| Stddev    | 3.2    | 73.    | 40.6   | .726   | 6.2      |
| %RSD      | .11011 | .17653 | .80777 | .89507 | .19952   |
| #1        | 2921.9 | 41086. | 4975.7 | 81.922 | 3086.2   |
| #2        | 2921.5 | 40998. | 5038.0 | 80.697 | 3077.2   |
| #3        | 2927.3 | 41142. | 5051.9 | 80.636 | 3089.0   |

Sample Name: CCV02      Acquired: 6/11/2019 13:39:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.8561 | 4.8791 | 4.7970 | 4.8847 | 4.8646 | 9.5754 | 9.5168 | .23925   |
| Stddev | .0056  | .0174  | .0092  | .0196  | .0150  | .0574  | .0166  | .00058   |
| %RSD   | .11529 | .35683 | .19279 | .40113 | .30819 | .59984 | .17422 | .24134   |
| #1     | 4.8498 | 4.8598 | 4.7926 | 4.8633 | 4.8524 | 9.5318 | 9.4980 | .23887   |
| #2     | 4.8606 | 4.8937 | 4.8076 | 4.8889 | 4.8600 | 9.6405 | 9.5294 | .23897   |
| #3     | 4.8579 | 4.8836 | 4.7908 | 4.9018 | 4.8813 | 9.5540 | 9.5229 | .23991   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4038 | 25.395 | .95929 | 2.4090 | 1.2223 | 4.8060 | 2.4336 | 23.571   |
| Stddev | .0078  | .063   | .00095 | .0081  | .0040  | .0145  | .0084  | .234     |
| %RSD   | .32646 | .24818 | .09932 | .33763 | .32667 | .30257 | .34698 | .99378   |
| #1     | 2.3963 | 25.322 | .95837 | 2.4018 | 1.2177 | 4.7979 | 2.4255 | 23.361   |
| #2     | 2.4119 | 25.425 | .95923 | 2.4178 | 1.2246 | 4.7973 | 2.4331 | 23.824   |
| #3     | 2.4033 | 25.437 | .96027 | 2.4074 | 1.2247 | 4.8228 | 2.4424 | 23.528   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4127 | 1.1987 | 24.036 | 2.5265 | 2.3965 | 24.040 | 4.8976 | 4.7277   |
| Stddev | .0072  | .0037  | .062   | .0055  | .0043  | .049   | .0112  | .0365    |
| %RSD   | .29722 | .30560 | .25892 | .21922 | .18134 | .20533 | .22937 | .77228   |
| #1     | 2.4071 | 1.1965 | 23.966 | 2.5206 | 2.3932 | 23.989 | 4.8853 | 4.7550   |
| #2     | 2.4208 | 1.1967 | 24.056 | 2.5316 | 2.4014 | 24.088 | 4.9002 | 4.7418   |
| #3     | 2.4101 | 1.2030 | 24.085 | 2.5273 | 2.3948 | 24.042 | 4.9073 | 4.6862   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.8444 | 4.7209 | 4.8303 | 4.8157 | 4.8670 | 5.022  | 4.8908 | F 3.1880 |
| Stddev | .0098  | .0130  | .0177  | .0294  | .0233  | .027   | .0219  | .1325    |
| %RSD   | .20322 | .27548 | .36562 | .61081 | .47764 | .5402  | .44719 | 4.1553   |
| #1     | 4.8336 | 4.7295 | 4.8172 | 4.7819 | 4.8550 | 4.991  | 4.8714 | 3.0386   |
| #2     | 4.8529 | 4.7059 | 4.8504 | 4.8352 | 4.8523 | 5.038  | 4.8865 | 3.2339   |
| #3     | 4.8467 | 4.7272 | 4.8232 | 4.8301 | 4.8938 | 5.038  | 4.9145 | 3.2914   |

Sample Name: CCV02      Acquired: 6/11/2019 13:39:56      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2.1709 |
| Stddev | .8503    |
| %RSD   | 39.169   |

|    |        |
|----|--------|
| #1 | 1.9017 |
| #2 | 1.4878 |
| #3 | 3.1232 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3250.4 | 47487. | 5250.2 | 85.130 | 3618.0 |
| Stddev    | 3.3    | 49.    | 17.5   | .499   | 8.4    |
| %RSD      | .10085 | .10237 | .33302 | .58631 | .23273 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3253.3 | 47432. | 5250.0 | 85.446 | 3624.1 |
| #2 | 3251.1 | 47525. | 5267.8 | 85.389 | 3608.4 |
| #3 | 3246.8 | 47503. | 5232.8 | 84.554 | 3621.5 |

Sample Name: CCB02      Acquired: 6/11/2019 13:43:54      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |         |         |        |
|--------|---------|---------|--------|---------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.00269 | -.00033 | .00033 | -.00123 | -.00091 | -.00094 | .00161 |
| Stddev | .00178  | .00101  | .00064 | .00129  | .00059  | .01252  | .00045 |
| %RSD   | 65.942  | 310.36  | 195.66 | 104.35  | 64.986  | 1336.7  | 27.714 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00255 | .00080  | -.00030 | -.00060 | -.00023 | -.01528 | .00212 |
| #2 | -.00453 | -.00118 | .00029  | -.00038 | -.00127 | .00463  | .00128 |
| #3 | -.00099 | -.00060 | .00098  | -.00271 | -.00125 | .00784  | .00144 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00011 | .00017 | -.01017 | .00028 | .00019 | -.00146 | .00028 |
| Stddev | .00003 | .00006 | .00886  | .00036 | .00024 | .00038  | .00066 |
| %RSD   | 22.656 | 33.648 | 87.088  | 128.43 | 124.38 | 25.958  | 233.33 |

|    |        |        |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00009 | .00020 | -.01128 | .00036  | .00035  | -.00159 | -.00020 |
| #2 | .00014 | .00010 | -.00081 | .00058  | .00030  | -.00177 | .00002  |
| #3 | .00011 | .00020 | -.01842 | -.00011 | -.00008 | -.00104 | .00103  |

|        |         |        |        |         |        |         |         |
|--------|---------|--------|--------|---------|--------|---------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     |
| Avg    | -.00001 | .02619 | .00045 | -.00004 | .28740 | -.00041 | -.00119 |
| Stddev | .00003  | .02617 | .00010 | .00032  | .00337 | .00024  | .00006  |
| %RSD   | 437.31  | 99.919 | 23.416 | 727.09  | 1.1716 | 58.307  | 4.7706  |

|    |         |         |        |         |        |         |         |
|----|---------|---------|--------|---------|--------|---------|---------|
| #1 | -.00004 | -.00394 | .00048 | -.00021 | .28960 | -.00061 | -.00113 |
| #2 | .00002  | .03922  | .00033 | -.00024 | .28907 | -.00014 | -.00120 |
| #3 | .00000  | .04328  | .00053 | .00032  | .28352 | -.00048 | -.00124 |

|        |        |        |        |         |         |         |         |
|--------|--------|--------|--------|---------|---------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | .06704 | .00015 | .01548 | -.00146 | -.00313 | -.00303 | -.00006 |
| Stddev | .00376 | .00018 | .00708 | .00001  | .00086  | .00135  | .00103  |
| %RSD   | 5.6051 | 117.39 | 45.774 | .52831  | 27.475  | 44.399  | 1757.2  |

|    |        |        |        |         |         |         |         |
|----|--------|--------|--------|---------|---------|---------|---------|
| #1 | .06344 | .00035 | .00822 | -.00146 | -.00406 | -.00156 | .00114  |
| #2 | .07094 | .00003 | .01583 | -.00146 | -.00294 | -.00334 | -.00063 |
| #3 | .06675 | .00007 | .02238 | -.00147 | -.00237 | -.00419 | -.00068 |



Sample Name: CCB02      Acquired: 6/11/2019 13:43:54      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |          |          |
|-----------|---------|--------|--------|----------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg       | .00018  | -.0017 | .00005 | F 2.2796 | F<.00000 |
| Stddev    | .00190  | .0019  | .00004 | .0957    | .31646   |
| %RSD      | 1039.4  | 107.9  | 82.039 | 4.1994   | 13.648   |
| #1        | -.00179 | .0004  | .00010 | 2.3816   | -2.3880  |
| #2        | .00033  | -.0024 | .00004 | 2.1918   | -1.9734  |
| #3        | .00201  | -.0031 | .00002 | 2.2653   | -2.5949  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3406.7  | 49773. | 5337.3 | 89.308   | 4068.9   |
| Stddev    | 5.4     | 132.   | 8.5    | 1.758    | 1.6      |
| %RSD      | .15927  | .26523 | .15990 | 1.9683   | .03838   |
| #1        | 3410.5  | 49623. | 5345.6 | 89.825   | 4067.1   |
| #2        | 3400.4  | 49824. | 5337.7 | 87.350   | 4069.9   |
| #3        | 3409.1  | 49872. | 5328.5 | 90.750   | 4069.7   |

Sample Name: K3193-05DLX10      Acquired: 6/11/2019 13:48:24      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |
|--------|--------|---------|--------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00207 | -.00040 | .00668 | -.00245 | -.00159 | -.01556 | .11422 |
| Stddev | .00156 | .00056  | .00063 | .00392  | .00292  | .00697  | .00102 |
| %RSD   | 75.624 | 140.53  | 9.4112 | 159.74  | 183.84  | 44.782  | .88923 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .00320 | -.00072 | .00608 | .00144  | -.00488 | -.02297 | .11356 |
| #2 | .00028 | .00025  | .00663 | -.00640 | -.00057 | -.01456 | .11539 |
| #3 | .00272 | -.00071 | .00734 | -.00240 | .00068  | -.00914 | .11371 |

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00009 | -.00054 | 42.698 | .00101 | -.00009 | .00327 | .12550 |
| Stddev | .00002 | .00004  | .166   | .00019 | .00030  | .00006 | .00051 |
| %RSD   | 28.744 | 7.2471  | .38930 | 19.183 | 346.80  | 1.9777 | .40919 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .00011 | -.00058 | 42.509 | .00123 | -.00042 | .00321 | .12508 |
| #2 | .00007 | -.00053 | 42.821 | .00092 | .00014  | .00333 | .12608 |
| #3 | .00007 | -.00051 | 42.764 | .00088 | .00002  | .00327 | .12535 |

|        |        |        |         |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .14975 | 104.41 | -.00387 | .00036 | 917.03 | .00096 | .00343 |
| Stddev | .00074 | .93    | .00016  | .00031 | 4.28   | .00052 | .00010 |
| %RSD   | .49166 | .88994 | 4.1596  | 87.272 | .46708 | 54.069 | 3.0410 |

|    |        |        |         |        |        |        |        |
|----|--------|--------|---------|--------|--------|--------|--------|
| #1 | .14941 | 103.54 | -.00389 | .00002 | 914.76 | .00137 | .00350 |
| #2 | .14925 | 105.39 | -.00402 | .00063 | 921.97 | .00038 | .00347 |
| #3 | .15060 | 104.31 | -.00370 | .00043 | 914.35 | .00114 | .00331 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 41.640 | .00064 | .51823 | 3.8425 | 3.2572 | -.00307 | .00113 |
| Stddev | .158   | .00014 | .01771 | .0087  | .0323  | .00045  | .00195 |
| %RSD   | .37960 | 22.349 | 3.4178 | .22695 | .99264 | 14.649  | 172.84 |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 41.570 | .00053 | .53730 | 3.8501 | 3.2328 | -.00338 | -.00110 |
| #2 | 41.821 | .00081 | .51508 | 3.8443 | 3.2449 | -.00328 | .00200  |
| #3 | 41.529 | .00059 | .50230 | 3.8330 | 3.2939 | -.00255 | .00248  |

Sample Name: K3193-05DLX10      Acquired: 6/11/2019 13:48:24      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .02444 | .9813  | .80358 | 4.9194 | F<.00000 |
| Stddev    | .00125 | .0036  | .00145 | .1269  | .96143   |
| %RSD      | 5.0997 | .3682  | .18026 | 2.5801 | 8.5011   |
| #1        | .02306 | .9851  | .80198 | 5.0552 | -11.494  |
| #2        | .02479 | .9810  | .80397 | 4.8038 | -12.165  |
| #3        | .02548 | .9779  | .80480 | 4.8993 | -10.269  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2949.0 | 41630. | 5040.2 | 82.090 | 3128.8   |
| Stddev    | 11.7   | 112.   | 18.2   | .490   | 14.2     |
| %RSD      | .39670 | .26943 | .36036 | .59722 | .45305   |
| #1        | 2935.5 | 41730. | 5053.8 | 81.861 | 3113.0   |
| #2        | 2956.3 | 41509. | 5047.2 | 81.756 | 3133.0   |
| #3        | 2955.1 | 41652. | 5019.6 | 82.652 | 3140.4   |

Sample Name: K3211-02      Acquired: 6/11/2019 13:57:27      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |        |
|--------|--------|---------|--------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00076 | -.00208 | .00255 | -.00077 | -.00028 | .02889 | .09741 |
| Stddev | .00201 | .00131  | .00060 | .00247  | .00094  | .00330 | .00010 |
| %RSD   | 262.45 | 63.066  | 23.393 | 321.74  | 329.28  | 11.436 | .10709 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00294  | -.00359 | .00312 | -.00035 | .00071  | .02920 | .09733 |
| #2 | .00036  | -.00122 | .00259 | .00147  | -.00115 | .02545 | .09753 |
| #3 | -.00101 | -.00143 | .00193 | -.00343 | -.00041 | .03203 | .09736 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00011 | -.00007 | 13.764 | .00025 | .00080 | .00014 | .09113 |
| Stddev | .00008 | .00001  | .105   | .00022 | .00014 | .00044 | .00069 |
| %RSD   | 67.660 | 10.614  | .76245 | 88.474 | 17.528 | 318.43 | .75260 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .00020 | -.00008 | 13.661 | .00045 | .00072 | .00020  | .09060 |
| #2 | .00008 | -.00007 | 13.759 | .00029 | .00097 | .00055  | .09190 |
| #3 | .00006 | -.00006 | 13.871 | .00001 | .00072 | -.00033 | .09088 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .04227 | .52502 | .00066 | -.00009 | 141.19 | -.00029 | .05317 |
| Stddev | .00025 | .01571 | .00023 | .00046  | .42    | .00033  | .00032 |
| %RSD   | .60166 | 2.9919 | 35.556 | 524.74  | .29525 | 114.02  | .59563 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .04241 | .53042 | .00053 | -.00013 | 141.02 | .00009  | .05354 |
| #2 | .04242 | .50732 | .00051 | .00039  | 140.89 | -.00044 | .05300 |
| #3 | .04198 | .53731 | .00093 | -.00053 | 141.67 | -.00052 | .05298 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .32524 | .00000  | .03738 | .22670 | .25022 | -.00379 | .00064 |
| Stddev | .01568 | .00030  | .00531 | .00364 | .00180 | .00071  | .00040 |
| %RSD   | 4.8200 | 116160. | 14.207 | 1.6038 | .71971 | 18.663  | 62.563 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .34166 | .00003  | .03129 | .22374 | .24925 | -.00306 | .00097 |
| #2 | .32362 | -.00031 | .04103 | .22561 | .24911 | -.00447 | .00076 |
| #3 | .31044 | .00028  | .03981 | .23076 | .25230 | -.00383 | .00019 |

Sample Name: K3211-02      Acquired: 6/11/2019 13:57:27      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00013 | .0031  | .06353 | 2.9331 | F<.00000 |
| Stddev | .00122 | .0023  | .00003 | .0503  | .64542   |
| %RSD   | 927.71 | 73.59  | .04248 | 1.7135 | 11.406   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00041 | .0025 | .06355 | 2.8899 | -6.1379 |
| #2 | -.00073 | .0012 | .06350 | 2.9211 | -5.9137 |
| #3 | .00153  | .0057 | .06355 | 2.9883 | -4.9249 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3305.7 | 47373. | 5312.8 | 86.431 | 3735.7 |
| Stddev    | 19.1   | 109.   | 24.8   | 1.050  | 13.8   |
| %RSD      | .57693 | .22984 | .46624 | 1.2152 | .37072 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3301.7 | 47247. | 5292.6 | 85.617 | 3735.0 |
| #2 | 3289.0 | 47430. | 5340.5 | 87.616 | 3722.2 |
| #3 | 3326.5 | 47441. | 5305.4 | 86.060 | 3749.9 |

Sample Name: K3211-04      Acquired: 6/11/2019 14:01:55      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00146 | -.00232 | .00210 | .00007 | -.00092 | .08513 | .08573 |
| Stddev | .00249  | .00147  | .00083 | .00129 | .00045  | .00166 | .00088 |
| %RSD   | 170.98  | 63.481  | 39.570 | 1821.0 | 48.228  | 1.9520 | 1.0225 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00079  | -.00303 | .00281 | -.00023 | -.00090 | .08374 | .08490 |
| #2 | -.00414 | -.00331 | .00119 | .00148  | -.00138 | .08697 | .08665 |
| #3 | -.00103 | -.00063 | .00230 | -.00104 | -.00049 | .08468 | .08563 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00011 | .00002 | 2.2320 | .00063 | .00028 | -.00074 | .00298 |
| Stddev | .00002 | .00005 | .0171  | .00022 | .00005 | .00014  | .00025 |
| %RSD   | 18.895 | 269.31 | .76734 | 35.345 | 18.384 | 19.422  | 8.3858 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .00012 | -.00002 | 2.2128 | .00051 | .00024 | -.00082 | .00323 |
| #2 | .00011 | .00007  | 2.2458 | .00088 | .00034 | -.00082 | .00297 |
| #3 | .00008 | .00000  | 2.2374 | .00048 | .00025 | -.00057 | .00274 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00723 | .54091 | .00081 | .00038 | 143.06 | -.00032 | .05441 |
| Stddev | .00006 | .03277 | .00013 | .00041 | .90    | .00022  | .00029 |
| %RSD   | .89075 | 6.0590 | 15.822 | 107.32 | .62890 | 68.211  | .53910 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00725 | .50697 | .00070 | .00040  | 142.04 | -.00041 | .05475 |
| #2 | .00716 | .57237 | .00077 | -.00004 | 143.76 | -.00048 | .05425 |
| #3 | .00729 | .54339 | .00095 | .00078  | 143.38 | -.00007 | .05422 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .30998 | -.00006 | .01132 | .24606 | .10880 | -.00382 | -.00016 |
| Stddev | .01439 | .00008  | .00337 | .00214 | .00193 | .00076  | .00127  |
| %RSD   | 4.6436 | 130.51  | 29.813 | .86923 | 1.7703 | 19.919  | 786.55  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | .31093 | -.00005 | .00895 | .24852 | .11098 | -.00440 | .00128  |
| #2 | .32387 | -.00013 | .01518 | .24507 | .10809 | -.00296 | -.00111 |
| #3 | .29513 | .00002  | .00982 | .24460 | .10733 | -.00409 | -.00065 |

Sample Name: K3211-04      Acquired: 6/11/2019 14:01:55      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |         |        |        |        |          |
|-----------|---------|--------|--------|--------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg       | -.00098 | -.0009 | .01355 | 2.8906 | F<.00000 |
| Stddev    | .00138  | .0006  | .00013 | .0536  | .38752   |
| %RSD      | 141.39  | 73.61  | .94096 | 1.8552 | 5.4366   |
| #1        | -.00215 | -.0004 | .01340 | 2.8933 | -7.2817  |
| #2        | -.00133 | -.0016 | .01362 | 2.8356 | -7.4152  |
| #3        | .00055  | -.0007 | .01362 | 2.9427 | -6.6873  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3291.7  | 47395. | 5344.8 | 86.689 | 3708.8   |
| Stddev    | 6.6     | 132.   | 10.1   | .394   | 18.1     |
| %RSD      | .20118  | .27774 | .18839 | .45467 | .48808   |
| #1        | 3292.8  | 47412. | 5333.3 | 86.581 | 3687.9   |
| #2        | 3284.6  | 47256. | 5349.1 | 86.360 | 3718.6   |
| #3        | 3297.7  | 47518. | 5352.1 | 87.126 | 3719.9   |

Sample Name: K3211-08      Acquired: 6/11/2019 14:06:24      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |
|--------|--------|---------|--------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00261 | -.00444 | .00411 | -.00097 | -.00156 | -.03447 | .11258 |
| Stddev | .00177 | .00118  | .00050 | .00155  | .00087  | .00913  | .00124 |
| %RSD   | 68.119 | 26.644  | 12.121 | 160.11  | 55.717  | 26.488  | 1.0988 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .00120 | -.00574 | .00390 | -.00067 | -.00069 | -.03719 | .11119 |
| #2 | .00202 | -.00342 | .00468 | -.00264 | -.00157 | -.04193 | .11357 |
| #3 | .00460 | -.00417 | .00376 | .00041  | -.00243 | -.02429 | .11298 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00006 | -.00003 | 53.660 | .00070 | .00086 | .00056 | .00894 |
| Stddev | .00004 | .00008  | .016   | .00029 | .00022 | .00005 | .00016 |
| %RSD   | 63.659 | 262.83  | .02913 | 41.733 | 26.046 | 9.0829 | 1.7698 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00006 | .00002  | 53.642 | .00093 | .00069 | .00051 | .00885 |
| #2 | .00011 | .00001  | 53.667 | .00080 | .00112 | .00061 | .00885 |
| #3 | .00003 | -.00012 | 53.671 | .00037 | .00079 | .00055 | .00913 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .06919 | .51676 | .00034 | -.00057 | 141.30 | -.00041 | .04375 |
| Stddev | .00045 | .02815 | .00019 | .00012  | 1.25   | .00044  | .00006 |
| %RSD   | .64440 | 5.4476 | 55.157 | 20.792  | .88297 | 107.78  | .13953 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .06898 | .48831 | .00014 | -.00068 | 139.86 | -.00026 | .04378 |
| #2 | .06888 | .51737 | .00051 | -.00059 | 142.04 | -.00091 | .04368 |
| #3 | .06970 | .54461 | .00037 | -.00045 | 142.00 | -.00007 | .04379 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .43141 | -.00047 | .02214 | .21838 | .16484 | -.00353 | .00047 |
| Stddev | .01017 | .00049  | .00799 | .00385 | .00400 | .00043  | .00032 |
| %RSD   | 2.3580 | 104.47  | 36.071 | 1.7623 | 2.4294 | 12.053  | 67.980 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .43776 | -.00097 | .02590 | .21482 | .16166 | -.00322 | .00018 |
| #2 | .41967 | -.00043 | .01297 | .22247 | .16352 | -.00335 | .00041 |
| #3 | .43679 | .00000  | .02755 | .21785 | .16934 | -.00401 | .00081 |



Sample Name: K3211-08      Acquired: 6/11/2019 14:06:24      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00134 | -.0011 | .25824 | 3.2545 | F<.00000 |
| Stddev | .00146 | .0036  | .00180 | .1432  | .92861   |
| %RSD   | 108.68 | 342.2  | .69731 | 4.3999 | 13.865   |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .00292 | .0030  | .25733 | 3.1042 | -7.4060 |
| #2 | .00104 | -.0039 | .25708 | 3.3894 | -5.6463 |
| #3 | .00006 | -.0023 | .26032 | 3.2699 | -7.0404 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3205.4 | 46585. | 5280.4 | 86.576 | 3623.2 |
| Stddev    | 5.8    | 116.   | 32.1   | 1.094  | 7.1    |
| %RSD      | .18187 | .24860 | .60709 | 1.2639 | .19495 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3198.7 | 46718. | 5243.4 | 86.522 | 3615.1 |
| #2 | 3208.9 | 46507. | 5300.4 | 85.510 | 3626.7 |
| #3 | 3208.7 | 46530. | 5297.3 | 87.696 | 3627.8 |

Sample Name: K3218-06      Acquired: 6/11/2019 14:10:49      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |        |
|--------|--------|---------|--------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00037 | -.00374 | .00122 | -.00013 | -.00186 | .04121 | .11648 |
| Stddev | .00390 | .00127  | .00091 | .00160  | .00303  | .01566 | .00004 |
| %RSD   | 1046.4 | 33.879  | 74.635 | 1208.8  | 162.87  | 38.008 | .03801 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00413 | -.00521 | .00145 | .00106  | -.00300 | .02370 | .11648 |
| #2 | .00247  | -.00300 | .00022 | -.00196 | -.00415 | .05389 | .11653 |
| #3 | .00278  | -.00302 | .00201 | .00050  | .00157  | .04604 | .11644 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00010 | .00009 | 1.8702 | .00188 | .00010 | -.00076 | .00740 |
| Stddev | .00002 | .00007 | .0152  | .00011 | .00026 | .00041  | .00079 |
| %RSD   | 17.132 | 81.034 | .81320 | 5.9807 | 267.69 | 53.826  | 10.615 |

|    |        |        |        |        |         |         |        |
|----|--------|--------|--------|--------|---------|---------|--------|
| #1 | .00012 | .00002 | 1.8604 | .00188 | -.00008 | -.00040 | .00687 |
| #2 | .00010 | .00009 | 1.8624 | .00200 | .00040  | -.00121 | .00702 |
| #3 | .00008 | .00016 | 1.8877 | .00177 | -.00003 | -.00068 | .00830 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .01319 | .34499 | .00111 | .00005 | 142.80 | -.00037 | .04650 |
| Stddev | .00008 | .04181 | .00014 | .00032 | .05    | .00004  | .00064 |
| %RSD   | .61233 | 12.121 | 12.650 | 648.12 | .03576 | 9.8156  | 1.3793 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .01310 | .33038 | .00124 | .00038  | 142.74 | -.00041 | .04663 |
| #2 | .01326 | .39215 | .00111 | .00003  | 142.84 | -.00034 | .04706 |
| #3 | .01322 | .31244 | .00096 | -.00026 | 142.81 | -.00035 | .04580 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .28253 | -.00014 | .03399 | .15713 | .14799 | -.00475 | .00162 |
| Stddev | .05005 | .00018  | .00840 | .00160 | .00381 | .00075  | .00109 |
| %RSD   | 17.715 | 131.78  | 24.723 | 1.0208 | 2.5729 | 15.831  | 66.799 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .28136 | -.00017 | .03179 | .15709 | .15204 | -.00562 | .00208 |
| #2 | .33315 | .00006  | .02690 | .15875 | .14746 | -.00440 | .00039 |
| #3 | .23307 | -.00031 | .04327 | .15554 | .14448 | -.00424 | .00241 |

Sample Name: K3218-06      Acquired: 6/11/2019 14:10:49      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00080 | -.0018 | .01302 | 3.0523 | F<.00000 |
| Stddev | .00160  | .0016  | .00009 | .2473  | 1.2275   |
| %RSD   | 199.72  | 91.31  | .71712 | 8.1031 | 18.994   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00048 | -.0036 | .01295 | 3.1464 | -5.0744 |
| #2 | .00061  | -.0005 | .01312 | 3.2388 | -6.9103 |
| #3 | -.00253 | -.0012 | .01298 | 2.7718 | -7.4039 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3288.0 | 47106. | 5275.6 | 87.886 | 3714.3 |
| Stddev    | 14.0   | 201.   | 33.3   | .697   | 14.3   |
| %RSD      | .42489 | .42652 | .63198 | .79350 | .38559 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3276.1 | 46881. | 5237.1 | 87.537 | 3700.9 |
| #2 | 3284.5 | 47268. | 5295.0 | 88.690 | 3712.6 |
| #3 | 3303.4 | 47167. | 5294.7 | 87.433 | 3729.4 |

Sample Name: K3218-09      Acquired: 6/11/2019 14:15:16      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00069 | -.00312 | .00342 | -.00298 | .00024 | .03839 | .13085 |
| Stddev | .00230 | .00095  | .00036 | .00230  | .00085 | .00585 | .00143 |
| %RSD   | 331.79 | 30.520  | 10.620 | 76.954  | 349.75 | 15.241 | 1.0950 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00163 | -.00358 | .00344 | -.00033 | -.00010 | .03171 | .13028 |
| #2 | .00297  | -.00203 | .00377 | -.00438 | -.00038 | .04084 | .12979 |
| #3 | .00074  | -.00376 | .00305 | -.00424 | .00122  | .04262 | .13248 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00004 | .00014 | 2.2590 | .00120 | .00012 | -.00028 | .00935 |
| Stddev | .00004 | .00007 | .0223  | .00019 | .00013 | .00032  | .00037 |
| %RSD   | 102.18 | 49.622 | .98909 | 16.014 | 111.19 | 114.00  | 3.9656 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00009 | .00011 | 2.2843 | .00098 | .00004 | -.00063 | .00893 |
| #2 | .00002 | .00022 | 2.2510 | .00134 | .00027 | -.00020 | .00963 |
| #3 | .00002 | .00009 | 2.2418 | .00130 | .00004 | -.00001 | .00949 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00823 | .43801 | .00047 | -.00004 | 147.88 | -.00050 | .06154 |
| Stddev | .00008 | .02672 | .00028 | .00023  | .31    | .00023  | .00059 |
| %RSD   | 1.0315 | 6.0992 | 59.340 | 571.27  | .20988 | 45.443  | .95246 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00820 | .41329 | .00035 | .00021  | 147.90 | -.00047 | .06211 |
| #2 | .00832 | .43438 | .00080 | -.00009 | 147.56 | -.00075 | .06157 |
| #3 | .00815 | .46635 | .00028 | -.00025 | 148.18 | -.00029 | .06094 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .47353 | -.00019 | .02117 | .13407 | .13634 | -.00381 | .00148 |
| Stddev | .01909 | .00034  | .00842 | .00181 | .00261 | .00044  | .00050 |
| %RSD   | 4.0307 | 176.30  | 39.745 | 1.3482 | 1.9127 | 11.594  | 34.005 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .46908 | -.00019 | .02048 | .13585 | .13402 | -.00431 | .00124 |
| #2 | .49445 | -.00053 | .01313 | .13223 | .13916 | -.00346 | .00206 |
| #3 | .45706 | .00014  | .02991 | .13413 | .13583 | -.00367 | .00115 |

Sample Name: K3218-09      Acquired: 6/11/2019 14:15:16      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |        |          |
|-----------|---------|--------|--------|--------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg       | -.00033 | .0004  | .02517 | 2.9102 | F<.00000 |
| Stddev    | .00087  | .0008  | .00006 | .0763  | .77311   |
| %RSD      | 267.32  | 221.4  | .24616 | 2.6213 | 11.764   |
| #1        | -.00062 | .0009  | .02517 | 2.8923 | -6.1888  |
| #2        | .00066  | .0008  | .02523 | 2.8445 | -7.4618  |
| #3        | -.00102 | -.0006 | .02511 | 2.9939 | -6.0652  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3270.0  | 46772. | 5330.2 | 88.959 | 3692.3   |
| Stddev    | 23.7    | 100.   | 9.8    | 1.499  | 33.8     |
| %RSD      | .72389  | .21478 | .18309 | 1.6853 | .91406   |
| #1        | 3243.2  | 46788. | 5319.0 | 88.918 | 3653.4   |
| #2        | 3278.7  | 46864. | 5334.5 | 87.480 | 3713.1   |
| #3        | 3288.1  | 46665. | 5337.0 | 90.478 | 3710.6   |

Sample Name: K3236-02      Acquired: 6/11/2019 14:30:25      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |        |
|--------|--------|---------|--------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00153 | -.00138 | .00067 | -.00203 | -.00089 | .01669 | .01730 |
| Stddev | .00295 | .00096  | .00068 | .00232  | .00059  | .00863 | .00031 |
| %RSD   | 193.22 | 69.588  | 102.61 | 114.74  | 66.506  | 51.729 | 1.8077 |

|    |         |         |         |         |         |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|
| #1 | -.00021 | -.00029 | .00114  | .00001  | -.00023 | .02658 | .01732 |
| #2 | .00493  | -.00210 | -.00012 | -.00456 | -.00104 | .01065 | .01760 |
| #3 | -.00014 | -.00173 | .00098  | -.00153 | -.00138 | .01285 | .01698 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00012 | -.00001 | 15.770 | .00044 | .00009 | .00006 | .03036 |
| Stddev | .00006 | .00002  | .043   | .00019 | .00008 | .00030 | .00039 |
| %RSD   | 52.022 | 129.38  | .27428 | 42.553 | 96.555 | 488.14 | 1.2836 |

|    |        |         |        |        |         |         |        |
|----|--------|---------|--------|--------|---------|---------|--------|
| #1 | .00018 | -.00001 | 15.754 | .00039 | .00011  | -.00028 | .03046 |
| #2 | .00006 | .00000  | 15.737 | .00028 | .00016  | .00018  | .03070 |
| #3 | .00012 | -.00003 | 15.819 | .00064 | -.00001 | .00028  | .02994 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .12516 | 5.7451 | .00032 | .00015 | 19.640 | .00018 | .00085 |
| Stddev | .00036 | .0416  | .00022 | .00041 | .039   | .00007 | .00006 |
| %RSD   | .28801 | .72347 | 68.201 | 274.32 | .19847 | 39.844 | 7.1591 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .12494 | 5.7099 | .00024 | .00031  | 19.672 | .00010 | .00078 |
| #2 | .12496 | 5.7910 | .00015 | .00045  | 19.650 | .00019 | .00087 |
| #3 | .12557 | 5.7346 | .00057 | -.00031 | 19.596 | .00024 | .00090 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 2.4489 | .00327 | .03715 | 6.1219 | 1.8181 | -.00574 | .00064 |
| Stddev | .0124  | .00017 | .00082 | .0377  | .0122  | .00155  | .00141 |
| %RSD   | .50600 | 5.1350 | 2.2010 | .61561 | .67107 | 27.030  | 218.49 |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 2.4381 | .00346 | .03630 | 6.0788 | 1.8097 | -.00683 | .00093  |
| #2 | 2.4461 | .00313 | .03723 | 6.1385 | 1.8126 | -.00643 | .00188  |
| #3 | 2.4624 | .00322 | .03793 | 6.1485 | 1.8321 | -.00397 | -.00088 |

Sample Name: K3236-02      Acquired: 6/11/2019 14:30:25      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |         |        |        |        |          |
|-----------|---------|--------|--------|--------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg       | -.00011 | .0005  | .07079 | 2.6404 | F<.00000 |
| Stddev    | .00162  | .0007  | .00022 | .0560  | .27865   |
| %RSD      | 1459.0  | 144.6  | .31113 | 2.1194 | 16.705   |
| #1        | -.00184 | -.0002 | .07058 | 2.6959 | -1.8817  |
| #2        | .00015  | .0004  | .07102 | 2.6414 | -1.7697  |
| #3        | .00136  | .0011  | .07078 | 2.5840 | -1.3529  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3291.4  | 48210. | 5394.5 | 89.345 | 3886.4   |
| Stddev    | 1.7     | 59.    | 18.4   | 1.244  | 3.2      |
| %RSD      | .05085  | .12185 | .34080 | 1.3927 | .08283   |
| #1        | 3290.0  | 48143. | 5389.1 | 87.943 | 3887.2   |
| #2        | 3290.9  | 48238. | 5414.9 | 90.317 | 3882.9   |
| #3        | 3293.3  | 48250. | 5379.3 | 89.776 | 3889.2   |

Sample Name: K3236-02DUP      Acquired: 6/11/2019 14:34:48      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00104 | -.00195 | .00073 | .00074 | -.00169 | .00153 | .01685 |
| Stddev | .00174  | .00035  | .00066 | .00067 | .00208  | .00359 | .00039 |
| %RSD   | 167.68  | 17.694  | 91.121 | 91.017 | 122.97  | 234.14 | 2.3410 |

|    |         |         |        |        |         |         |        |
|----|---------|---------|--------|--------|---------|---------|--------|
| #1 | -.00298 | -.00159 | .00050 | .00152 | -.00062 | -.00011 | .01726 |
| #2 | -.00050 | -.00228 | .00147 | .00037 | -.00409 | .00565  | .01682 |
| #3 | .00037  | -.00198 | .00021 | .00034 | -.00036 | -.00094 | .01648 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00015 | .00003 | 15.805 | .00121 | .00021 | -.00002 | .03317 |
| Stddev | .00008 | .00003 | .038   | .00024 | .00010 | .00023  | .00087 |
| %RSD   | 51.837 | 81.095 | .23994 | 20.061 | 46.158 | 1075.4  | 2.6372 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00024 | .00004 | 15.761 | .00139 | .00014 | -.00029 | .03347 |
| #2 | .00008 | .00000 | 15.826 | .00094 | .00017 | .00014  | .03386 |
| #3 | .00014 | .00005 | 15.828 | .00131 | .00032 | .00008  | .03219 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .12652 | 5.7697 | .00085 | -.00016 | 19.637 | .00066 | .00032 |
| Stddev | .00030 | .0352  | .00013 | .00017  | .036   | .00035 | .00013 |
| %RSD   | .23714 | .60944 | 15.772 | 104.65  | .18425 | 52.749 | 39.068 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .12639 | 5.7305 | .00094 | -.00000 | 19.611 | .00059 | .00035 |
| #2 | .12686 | 5.7801 | .00092 | -.00014 | 19.678 | .00034 | .00043 |
| #3 | .12630 | 5.7985 | .00070 | -.00034 | 19.623 | .00103 | .00018 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 2.4385 | .00347 | .03395 | 6.1283 | 1.8455 | -.00634 | .00058 |
| Stddev | .0315  | .00023 | .01292 | .0494  | .0105  | .00050  | .00094 |
| %RSD   | 1.2924 | 6.5498 | 38.065 | .80606 | .56731 | 7.9339  | 162.17 |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 2.4132 | .00350 | .04305 | 6.0724 | 1.8542 | -.00626 | .00123  |
| #2 | 2.4738 | .00323 | .03964 | 6.1660 | 1.8484 | -.00588 | .00101  |
| #3 | 2.4285 | .00368 | .01916 | 6.1465 | 1.8339 | -.00687 | -.00050 |



Sample Name: K3236-02DUP      Acquired: 6/11/2019 14:34:48      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00030 | -.0009 | .07090 | 2.4628 | F<.00000 |
| Stddev | .00203  | .0017  | .00017 | .1485  | .40549   |
| %RSD   | 677.50  | 200.5  | .24631 | 6.0314 | 15.936   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00098 | .0001  | .07074 | 2.5245 | -2.9383 |
| #2 | -.00190 | .0002  | .07108 | 2.2934 | -2.5671 |
| #3 | .00199  | -.0029 | .07088 | 2.5706 | -2.1282 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3307.1 | 48369. | 5390.2 | 88.670 | 3901.2 |
| Stddev    | 8.2    | 80.    | 27.2   | 1.379  | 16.0   |
| %RSD      | .24685 | .16600 | .50454 | 1.5548 | .40913 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3297.7 | 48276. | 5359.5 | 88.267 | 3918.8 |
| #2 | 3311.3 | 48408. | 5400.0 | 90.206 | 3887.7 |
| #3 | 3312.3 | 48422. | 5411.1 | 87.538 | 3897.1 |

Sample Name: K3236-02LX5      Acquired: 6/11/2019 14:39:12      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |         |         |        |
|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00102 | -.00106 | -.00090 | -.00048 | -.00022 | -.00827 | .00486 |
| Stddev | .00407 | .00034  | .00056  | .00121  | .00072  | .00578  | .00038 |
| %RSD   | 398.09 | 32.559  | 62.088  | 250.38  | 326.95  | 69.945  | 7.8539 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00367 | -.00144 | -.00082 | .00026  | .00053  | -.01474 | .00444 |
| #2 | .00321  | -.00079 | -.00149 | .00016  | -.00029 | -.00361 | .00497 |
| #3 | .00352  | -.00094 | -.00039 | -.00187 | -.00090 | -.00645 | .00518 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00009 | .00003 | 3.2623 | .00179 | .00025 | -.00104 | .01285 |
| Stddev | .00004 | .00007 | .0296  | .00013 | .00015 | .00036  | .00046 |
| %RSD   | 41.732 | 259.53 | .90803 | 7.2443 | 61.248 | 34.031  | 3.5807 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .00005 | .00010  | 3.2789 | .00194 | .00009 | -.00064 | .01301 |
| #2 | .00011 | .00003  | 3.2281 | .00175 | .00040 | -.00131 | .01233 |
| #3 | .00012 | -.00004 | 3.2799 | .00169 | .00027 | -.00118 | .01321 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .02606 | 1.1660 | .00169 | .00029 | 4.0414 | -.00009 | -.00029 |
| Stddev | .00006 | .0525  | .00045 | .00037 | .0081  | .00027  | .00004  |
| %RSD   | .22128 | 4.5008 | 26.696 | 125.95 | .19963 | 311.51  | 12.094  |

|    |        |        |        |         |        |         |         |
|----|--------|--------|--------|---------|--------|---------|---------|
| #1 | .02611 | 1.2185 | .00121 | .00054  | 4.0469 | -.00026 | -.00033 |
| #2 | .02600 | 1.1136 | .00175 | .00047  | 4.0451 | .00023  | -.00026 |
| #3 | .02606 | 1.1658 | .00211 | -.00013 | 4.0321 | -.00023 | -.00029 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .45002 | .00072 | .00793 | 1.2093 | .37381 | -.00438 | .00040 |
| Stddev | .02346 | .00016 | .01818 | .0079  | .00304 | .00032  | .00035 |
| %RSD   | 5.2123 | 22.122 | 229.12 | .65114 | .81269 | 7.3780  | 87.143 |

|    |        |        |         |        |        |         |        |
|----|--------|--------|---------|--------|--------|---------|--------|
| #1 | .47554 | .00054 | -.01135 | 1.2037 | .37032 | -.00402 | .00000 |
| #2 | .42940 | .00082 | .01041  | 1.2059 | .37581 | -.00445 | .00066 |
| #3 | .44512 | .00080 | .02475  | 1.2183 | .37531 | -.00465 | .00053 |

Sample Name: K3236-02LX5      Acquired: 6/11/2019 14:39:12      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00182 | -.0027 | .01447 | 2.3652 | F<.00000 |
| Stddev | .00125  | .0009  | .00007 | .1465  | .65772   |
| %RSD   | 68.877  | 32.79  | .48785 | 6.1944 | 51.165   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00100 | -.0021 | .01440 | 2.1997 | -.52999 |
| #2 | -.00326 | -.0037 | .01454 | 2.4176 | -1.7303 |
| #3 | -.00119 | -.0023 | .01445 | 2.4784 | -1.5962 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3352.0 | 48866. | 5361.2 | 88.903 | 3998.2 |
| Stddev    | 6.6    | 206.   | 10.0   | .328   | 1.5    |
| %RSD      | .19757 | .42239 | .18641 | .36908 | .03760 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3344.4 | 48657. | 5356.6 | 89.067 | 3999.0 |
| #2 | 3356.1 | 48871. | 5354.3 | 88.525 | 3999.2 |
| #3 | 3355.6 | 49070. | 5372.7 | 89.117 | 3996.5 |

Sample Name: CCV03      Acquired: 6/11/2019 14:43:41      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9703 | 4.9252 | 4.8559 | 4.9908 | 4.9725 | 9.9747 | 9.9390 | .24433   |
| Stddev | .0211  | .0172  | .0109  | .0141  | .0010  | .0561  | .0327  | .00034   |
| %RSD   | .42430 | .34974 | .22439 | .28289 | .01955 | .56244 | .32904 | .14048   |
| #1     | 4.9691 | 4.9053 | 4.8436 | 4.9933 | 4.9716 | 9.9304 | 9.9373 | .24402   |
| #2     | 4.9919 | 4.9341 | 4.8596 | 4.9756 | 4.9735 | 9.9559 | 9.9072 | .24426   |
| #3     | 4.9498 | 4.9361 | 4.8644 | 5.0035 | 4.9724 | 10.038 | 9.9725 | .24470   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4280 | 25.759 | .97412 | 2.4389 | 1.2516 | 4.8955 | 2.4813 | 24.376   |
| Stddev | .0050  | .095   | .00181 | .0053  | .0025  | .0028  | .0016  | .015     |
| %RSD   | .20516 | .36756 | .18555 | .21952 | .19847 | .05679 | .06268 | .05955   |
| #1     | 2.4226 | 25.653 | .97620 | 2.4334 | 1.2490 | 4.8948 | 2.4818 | 24.391   |
| #2     | 2.4324 | 25.833 | .97329 | 2.4441 | 1.2518 | 4.8931 | 2.4796 | 24.363   |
| #3     | 2.4290 | 25.793 | .97289 | 2.4393 | 1.2540 | 4.8986 | 2.4826 | 24.374   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4354 | 1.2231 | 24.622 | 2.5791 | 2.4467 | 24.798 | 4.9814 | 4.9010   |
| Stddev | .0046  | .0036  | .072   | .0046  | .0032  | .118   | .0072  | .0285    |
| %RSD   | .18798 | .29050 | .29173 | .17793 | .13117 | .47613 | .14453 | .58070   |
| #1     | 2.4310 | 1.2263 | 24.641 | 2.5808 | 2.4430 | 24.707 | 4.9732 | 4.8897   |
| #2     | 2.4401 | 1.2193 | 24.543 | 2.5827 | 2.4486 | 24.755 | 4.9865 | 4.8799   |
| #3     | 2.4352 | 1.2238 | 24.682 | 2.5740 | 2.4485 | 24.931 | 4.9845 | 4.9333   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9562 | 4.7045 | 4.8717 | 4.9026 | 4.9206 | 5.157  | 4.9699 | F 3.4118 |
| Stddev | .0197  | .0094  | .0286  | .0167  | .0156  | .015   | .0066  | .0447    |
| %RSD   | .39731 | .19896 | .58779 | .34052 | .31720 | .2871  | .13288 | 1.3098   |
| #1     | 4.9396 | 4.7138 | 4.8675 | 4.8890 | 4.9385 | 5.140  | 4.9772 | 3.3802   |
| #2     | 4.9779 | 4.7048 | 4.9022 | 4.8977 | 4.9130 | 5.167  | 4.9678 | 3.4629   |
| #3     | 4.9510 | 4.6950 | 4.8454 | 4.9212 | 4.9102 | 5.164  | 4.9645 | 3.3923   |

Sample Name: CCV03      Acquired: 6/11/2019 14:43:41      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 1.5337  
Stddev      1.1784  
%RSD      76.837

#1      .19419  
#2      1.9960  
#3      2.4108

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3191.7 | 46826. | 5312.9 | 84.446 | 3574.5 |
| Stddev    | 4.5    | 142.   | 25.2   | .877   | 7.0    |
| %RSD      | .14145 | .30319 | .47368 | 1.0386 | .19669 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3194.5 | 46664. | 5287.9 | 83.541 | 3577.0 |
| #2 | 3186.5 | 46925. | 5312.8 | 85.293 | 3566.6 |
| #3 | 3194.1 | 46890. | 5338.2 | 84.504 | 3580.0 |

Sample Name: CCB03      Acquired: 6/11/2019 14:47:39      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |        |        |        |
|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00361 | -.00042 | -.00013 | -.00209 | .00121 | .00435 | .00126 |
| Stddev | .00185 | .00096  | .00056  | .00330  | .00096 | .01523 | .00019 |
| %RSD   | 51.254 | 231.64  | 445.20  | 157.63  | 79.221 | 349.98 | 14.849 |

|    |        |         |         |         |        |         |        |
|----|--------|---------|---------|---------|--------|---------|--------|
| #1 | .00202 | -.00019 | -.00077 | -.00555 | .00012 | -.00049 | .00108 |
| #2 | .00317 | .00042  | .00019  | .00102  | .00159 | .02141  | .00146 |
| #3 | .00564 | -.00147 | .00021  | -.00175 | .00191 | -.00787 | .00124 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00009 | .00010 | -.00580 | .00022 | .00019 | -.00141 | .00041 |
| Stddev | .00001 | .00009 | .01450  | .00036 | .00005 | .00010  | .00008 |
| %RSD   | 7.0725 | 89.684 | 250.17  | 165.28 | 24.601 | 6.9829  | 20.206 |

|    |        |         |         |         |        |         |        |
|----|--------|---------|---------|---------|--------|---------|--------|
| #1 | .00010 | .00017  | -.00752 | .00040  | .00023 | -.00139 | .00050 |
| #2 | .00009 | -.00000 | .00949  | .00044  | .00014 | -.00133 | .00036 |
| #3 | .00008 | .00014  | -.01937 | -.00020 | .00019 | -.00152 | .00036 |

|        |         |        |        |        |        |         |         |
|--------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.00003 | .01946 | .00043 | .00028 | .02019 | -.00032 | -.00119 |
| Stddev | .00003  | .03023 | .00042 | .00013 | .00686 | .00016  | .00004  |
| %RSD   | 102.57  | 155.33 | 97.672 | 46.530 | 33.978 | 49.782  | 3.4368  |

|    |         |         |        |        |        |         |         |
|----|---------|---------|--------|--------|--------|---------|---------|
| #1 | .00001  | .04921  | .00005 | .00014 | .01774 | -.00050 | -.00116 |
| #2 | -.00005 | .02042  | .00036 | .00040 | .02795 | -.00019 | -.00124 |
| #3 | -.00004 | -.01123 | .00087 | .00030 | .01490 | -.00028 | -.00118 |

|        |         |        |        |        |         |         |        |
|--------|---------|--------|--------|--------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.01926 | .00015 | .00890 | .00089 | -.00339 | -.00306 | .00067 |
| Stddev | .01822  | .00024 | .01266 | .00380 | .00118  | .00053  | .00185 |
| %RSD   | 94.609  | 158.02 | 142.31 | 427.55 | 34.823  | 17.442  | 276.45 |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.00228 | .00034  | .00972  | -.00206 | -.00211 | -.00319 | .00278  |
| #2 | -.01698 | -.00012 | -.00416 | -.00045 | -.00362 | -.00247 | -.00013 |
| #3 | -.03851 | .00024  | .02113  | .00518  | -.00444 | -.00352 | -.00064 |

Sample Name: CCB03      Acquired: 6/11/2019 14:47:39      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |          |          |
|-----------|---------|--------|--------|----------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg       | -.00321 | -.0030 | .00015 | F 2.4101 | F<.00000 |
| Stddev    | .00101  | .0006  | .00001 | .1367    | .30783   |
| %RSD      | 31.379  | 20.32  | 5.1869 | 5.6705   | 12.746   |
| #1        | -.00299 | -.0023 | .00016 | 2.2526   | -2.0716  |
| #2        | -.00430 | -.0035 | .00016 | 2.4967   | -2.6659  |
| #3        | -.00233 | -.0032 | .00014 | 2.4812   | -2.5079  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3338.0  | 49250. | 5375.4 | 89.447   | 3989.3   |
| Stddev    | 5.4     | 287.   | 24.7   | .609     | 3.2      |
| %RSD      | .16117  | .58343 | .45880 | .68044   | .08054   |
| #1        | 3342.2  | 48928. | 5403.9 | 89.092   | 3988.1   |
| #2        | 3339.9  | 49341. | 5361.3 | 89.100   | 3993.0   |
| #3        | 3332.0  | 49481. | 5361.0 | 90.150   | 3986.9   |

Sample Name: K3236-02MS      Acquired: 6/11/2019 14:52:08      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .82243 | 2.0770 | 1.0070 | 2.1320 | .84401 | 2.0916 | .22970 | .20911 | .19953 |
| Stddev | .00276 | .0172  | .0042  | .0038  | .00247 | .0302  | .00205 | .00060 | .00075 |
| %RSD   | .33561 | .82888 | .41569 | .17937 | .29225 | 1.4437 | .89333 | .28900 | .37701 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .82224 | 2.0837 | 1.0094 | 2.1354 | .84198 | 2.0574 | .22760 | .20852 | .20006 |
| #2 | .81976 | 2.0574 | 1.0021 | 2.1278 | .84675 | 2.1029 | .22979 | .20909 | .19867 |
| #3 | .82527 | 2.0898 | 1.0094 | 2.1327 | .84330 | 2.1145 | .23170 | .20972 | .19987 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 17.697 | .42156 | .20497 | .32983 | 3.2377 | .33903 | 7.9206 | .51238 | .07532 |
| Stddev | .109   | .00109 | .00024 | .00091 | .0040  | .00092 | .1182  | .00174 | .00080 |
| %RSD   | .61768 | .25791 | .11599 | .27738 | .12292 | .27004 | 1.4922 | .34031 | 1.0655 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 17.571 | .42033 | .20519 | .33054 | 3.2358 | .33799 | 7.8186 | .51352 | .07491 |
| #2 | 17.751 | .42193 | .20471 | .33014 | 3.2349 | .33936 | 7.8930 | .51038 | .07624 |
| #3 | 17.768 | .42241 | .20501 | .32880 | 3.2422 | .33973 | 8.0501 | .51326 | .07481 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 23.017 | .31837 | .20642 | 13.000 | .43312 | .35306 | 6.2081 | 2.7695 | .72260 |
| Stddev | .165   | .00118 | .00065 | .050   | .00157 | .00872 | .0489  | .0083  | .00197 |
| %RSD   | .71887 | .37036 | .31720 | .38187 | .36224 | 2.4711 | .78709 | .29866 | .27325 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 22.887 | .31711 | .20645 | 12.943 | .43220 | .35851 | 6.2247 | 2.7782 | .72398 |
| #2 | 22.961 | .31854 | .20575 | 13.032 | .43222 | .34299 | 6.1530 | 2.7684 | .72034 |
| #3 | 23.203 | .31945 | .20706 | 13.025 | .43493 | .35766 | 6.2464 | 2.7618 | .72349 |

|        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21384 | .21470 | 6.367  | .28246 | 2.9944 | 4.5088 |
| Stddev | .00137 | .00127 | .034   | .00074 | .0407  | 1.1642 |
| %RSD   | .63931 | .59273 | .5320  | .26299 | 1.3579 | 25.821 |

|    |        |        |       |        |        |        |
|----|--------|--------|-------|--------|--------|--------|
| #1 | .21274 | .21352 | 6.370 | .28318 | 2.9501 | 5.8338 |
| #2 | .21537 | .21453 | 6.331 | .28250 | 3.0301 | 4.0428 |
| #3 | .21341 | .21605 | 6.399 | .28169 | 3.0029 | 3.6498 |



Sample Name: K3236-02MS      Acquired: 6/11/2019 14:52:08      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3288.2 | 47828. | 5349.4 | 88.994 | 3829.3 |
| Stddev    | 10.5   | 131.   | 29.8   | 2.060  | 24.5   |
| %RSD      | .31858 | .27472 | .55768 | 2.3143 | .63866 |
| #1        | 3286.0 | 47841. | 5317.1 | 87.143 | 3812.8 |
| #2        | 3299.6 | 47953. | 5355.3 | 88.627 | 3857.4 |
| #3        | 3279.0 | 47691. | 5375.9 | 91.213 | 3817.7 |

Sample Name: K3236-02MSD      Acquired: 6/11/2019 14:56:14      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .83766 | 2.1069 | 1.0169 | 2.1638 | .85544 | 2.1109 | .23138 | .21052 | .20239 |
| Stddev | .00503 | .0098  | .0031  | .0120  | .00472 | .0293  | .00166 | .00037 | .00026 |
| %RSD   | .60091 | .46773 | .30897 | .55656 | .55180 | 1.3859 | .71740 | .17544 | .12938 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .83537 | 2.1054 | 1.0203 | 2.1603 | .85382 | 2.0818 | .22969 | .21095 | .20209 |
| #2 | .83418 | 2.1174 | 1.0163 | 2.1539 | .85174 | 2.1104 | .23301 | .21031 | .20259 |
| #3 | .84344 | 2.0978 | 1.0141 | 2.1772 | .86075 | 2.1403 | .23143 | .21031 | .20247 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 17.552 | .42458 | .20811 | .33379 | 3.2617 | .33923 | 7.8664 | .51862 | .07591 |
| Stddev | .086   | .00028 | .00073 | .00093 | .0010  | .00033 | .0805  | .00044 | .00090 |
| %RSD   | .48717 | .06503 | .35001 | .27934 | .03180 | .09802 | 1.0230 | .08512 | 1.1919 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 17.455 | .42436 | .20727 | .33338 | 3.2606 | .33914 | 7.7818 | .51857 | .07564 |
| #2 | 17.585 | .42489 | .20859 | .33313 | 3.2619 | .33896 | 7.9420 | .51820 | .07517 |
| #3 | 17.617 | .42449 | .20846 | .33486 | 3.2627 | .33960 | 7.8754 | .51908 | .07691 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 22.905 | .32029 | .21109 | 13.035 | .44060 | .35477 | 6.2216 | 2.7635 | .73751 |
| Stddev | .139   | .00052 | .00042 | .067   | .00185 | .00511 | .0213  | .0133  | .00187 |
| %RSD   | .60524 | .16240 | .20089 | .51766 | .41912 | 1.4394 | .34203 | .48251 | .25302 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 22.745 | .32007 | .21099 | 12.959 | .44090 | .36038 | 6.2172 | 2.7786 | .73866 |
| #2 | 22.980 | .32089 | .21156 | 13.059 | .43862 | .35041 | 6.2447 | 2.7587 | .73851 |
| #3 | 22.989 | .31992 | .21073 | 13.088 | .44227 | .35350 | 6.2029 | 2.7532 | .73536 |

|        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21819 | .21551 | 6.467  | .28552 | 2.9211 | 5.4739 |
| Stddev | .00174 | .00126 | .006   | .00035 | .0964  | .2996  |
| %RSD   | .79871 | .58635 | .0963  | .12185 | 3.3009 | 5.4738 |

|    |        |        |       |        |        |        |
|----|--------|--------|-------|--------|--------|--------|
| #1 | .21784 | .21455 | 6.473 | .28512 | 2.8312 | 5.2707 |
| #2 | .21665 | .21694 | 6.468 | .28577 | 3.0230 | 5.8180 |
| #3 | .22008 | .21503 | 6.461 | .28567 | 2.9092 | 5.3331 |

Sample Name: K3236-02MSD      Acquired: 6/11/2019 14:56:14      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3277.4 | 47882. | 5349.9 | 89.069 | 3810.9 |
| Stddev    | 8.9    | 247.   | 3.9    | 1.001  | 8.4    |
| %RSD      | .27144 | .51623 | .07277 | 1.1235 | .22091 |
| #1        | 3277.4 | 48162. | 5348.1 | 88.566 | 3806.1 |
| #2        | 3286.3 | 47790. | 5347.2 | 88.419 | 3806.0 |
| #3        | 3268.5 | 47694. | 5354.3 | 90.221 | 3820.6 |

Sample Name: K3236-02A      Acquired: 6/11/2019 15:00:20      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .83786 | 2.0945 | 1.0134 | 2.1600 | .85508 | 2.1118 | .23130 | .21100 | .20152 |
| Stddev | .00323 | .0059  | .0049  | .0052  | .00213 | .0043  | .00232 | .00042 | .00052 |
| %RSD   | .38507 | .27915 | .48490 | .24114 | .24933 | .20350 | 1.0051 | .20142 | .25647 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .83848 | 2.0905 | 1.0116 | 2.1636 | .85334 | 2.1168 | .22926 | .21110 | .20139 |
| #2 | .84073 | 2.0917 | 1.0096 | 2.1540 | .85445 | 2.1091 | .23082 | .21136 | .20108 |
| #3 | .83436 | 2.1012 | 1.0189 | 2.1624 | .85746 | 2.1096 | .23383 | .21053 | .20209 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 17.687 | .42482 | .20703 | .33483 | 3.2681 | .34078 | 7.8668 | .51734 | .07655 |
| Stddev | .014   | .00132 | .00025 | .00033 | .0112  | .00020 | .0940  | .00103 | .00057 |
| %RSD   | .07718 | .31169 | .12285 | .09725 | .34135 | .05760 | 1.1944 | .19859 | .74457 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 17.702 | .42330 | .20677 | .33470 | 3.2554 | .34073 | 7.7583 | .51653 | .07638 |
| #2 | 17.685 | .42563 | .20705 | .33459 | 3.2766 | .34100 | 7.9179 | .51700 | .07608 |
| #3 | 17.675 | .42555 | .20728 | .33520 | 3.2721 | .34061 | 7.9241 | .51849 | .07718 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 22.979 | .32109 | .20895 | 13.055 | .44047 | .36366 | 6.2001 | 2.7774 | .72927 |
| Stddev | .145   | .00082 | .00083 | .094   | .00024 | .01324 | .0270  | .0113  | .00177 |
| %RSD   | .62929 | .25391 | .39869 | .71778 | .05550 | 3.6412 | .43564 | .40688 | .24305 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 22.859 | .32090 | .20850 | 12.986 | .44030 | .34844 | 6.1779 | 2.7674 | .72867 |
| #2 | 22.939 | .32199 | .20844 | 13.016 | .44075 | .36998 | 6.1923 | 2.7896 | .72787 |
| #3 | 23.140 | .32039 | .20991 | 13.161 | .44036 | .37255 | 6.2302 | 2.7751 | .73126 |

|        |        |        |        |        |        |        |  |  |  |
|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |  |  |  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |  |  |  |
| Avg    | .21723 | .21512 | 6.422  | .28698 | 3.0067 | 4.4599 |  |  |  |
| Stddev | .00084 | .00208 | .017   | .00140 | .0993  | .7241  |  |  |  |
| %RSD   | .38863 | .96508 | .2570  | .48939 | 3.3016 | 16.236 |  |  |  |

|    |        |        |       |        |        |        |  |  |  |
|----|--------|--------|-------|--------|--------|--------|--|--|--|
| #1 | .21633 | .21639 | 6.424 | .28538 | 3.1007 | 3.9684 |  |  |  |
| #2 | .21734 | .21272 | 6.405 | .28756 | 3.0164 | 5.2915 |  |  |  |
| #3 | .21800 | .21625 | 6.437 | .28800 | 2.9029 | 4.1199 |  |  |  |

Sample Name: K3236-02A      Acquired: 6/11/2019 15:00:20      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3276.5 | 48156. | 5355.1 | 89.649 | 3827.4 |
| Stddev    | 7.4    | 80.    | 26.9   | 1.178  | 13.8   |
| %RSD      | .22709 | .16520 | .50242 | 1.3145 | .36186 |
| #1        | 3282.5 | 48240. | 5347.7 | 89.456 | 3835.7 |
| #2        | 3278.9 | 48082. | 5332.7 | 88.579 | 3835.0 |
| #3        | 3268.2 | 48145. | 5384.9 | 90.912 | 3811.4 |

Sample Name: PB120518BL      Acquired: 6/11/2019 15:04:27      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |        |        |        |
|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00155 | -.00038 | -.00066 | -.00119 | .00077 | .00424 | .00108 |
| Stddev | .00413 | .00040  | .00022  | .00398  | .00233 | .00800 | .00010 |
| %RSD   | 265.59 | 106.89  | 33.417  | 333.84  | 304.40 | 188.91 | 9.4438 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | .00481  | -.00041 | -.00085 | .00233  | .00067  | .00448  | .00119 |
| #2 | -.00309 | -.00077 | -.00042 | -.00040 | -.00152 | .01211  | .00105 |
| #3 | .00294  | .00004  | -.00071 | -.00552 | .00314  | -.00389 | .00099 |

|        |        |        |         |         |        |         |         |
|--------|--------|--------|---------|---------|--------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     |
| Avg    | .00008 | .00011 | -.01037 | -.00001 | .00020 | -.00156 | -.00001 |
| Stddev | .00002 | .00006 | .01333  | .00056  | .00016 | .00048  | .00039  |
| %RSD   | 22.169 | 54.905 | 128.52  | 8910.9  | 78.044 | 30.435  | 4056.3  |

|    |        |        |         |         |        |         |         |
|----|--------|--------|---------|---------|--------|---------|---------|
| #1 | .00009 | .00017 | -.01143 | -.00056 | .00015 | -.00124 | .00008  |
| #2 | .00008 | .00012 | .00346  | -.00002 | .00007 | -.00211 | .00033  |
| #3 | .00006 | .00005 | -.02314 | .00056  | .00037 | -.00135 | -.00044 |

|        |         |        |        |        |        |         |         |
|--------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.00001 | .04493 | .00070 | .00028 | .01083 | -.00001 | -.00132 |
| Stddev | .00002  | .04946 | .00019 | .00040 | .00451 | .00018  | .00007  |
| %RSD   | 248.67  | 110.08 | 27.651 | 144.71 | 41.672 | 2599.5  | 5.6205  |

|    |         |         |        |         |        |         |         |
|----|---------|---------|--------|---------|--------|---------|---------|
| #1 | .00001  | -.00941 | .00093 | .00045  | .00587 | .00016  | -.00141 |
| #2 | -.00002 | .08732  | .00057 | -.00018 | .01469 | .00002  | -.00129 |
| #3 | -.00002 | .05689  | .00061 | .00056  | .01192 | -.00020 | -.00127 |

|        |         |        |        |         |         |         |        |
|--------|---------|--------|--------|---------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.02277 | .00001 | .01051 | -.00170 | -.00411 | -.00548 | .00018 |
| Stddev | .01802  | .00020 | .00676 | .00057  | .00256  | .00065  | .00064 |
| %RSD   | 79.142  | 1965.7 | 64.310 | 33.606  | 62.229  | 11.940  | 356.96 |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.03333 | .00024  | .01225 | -.00150 | -.00311 | -.00593 | -.00056 |
| #2 | -.03302 | -.00012 | .01623 | -.00126 | -.00702 | -.00473 | .00048  |
| #3 | -.00196 | -.00009 | .00305 | -.00235 | -.00220 | -.00577 | .00062  |

Sample Name: PB120518BL      Acquired: 6/11/2019 15:04:27      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |        |          |          |
|--------|----------|---------|--------|----------|----------|
| Elem   | Li6707   | P_1774  | Sr4077 | U_3670   | U_3859   |
| Units  | ppm      | ppm     | ppm    | ppm      | ppm      |
| Avg    | -0.00213 | -0.0020 | .00004 | F 2.3593 | F<.00000 |
| Stddev | .00118   | .0020   | .00008 | .0495    | .44442   |
| %RSD   | 55.242   | 104.9   | 225.34 | 2.0982   | 33.337   |

|    |          |         |         |        |         |
|----|----------|---------|---------|--------|---------|
| #1 | -0.00343 | -0.0039 | .00009  | 2.3398 | -.96337 |
| #2 | -0.00114 | -0.0022 | -.00006 | 2.4155 | -1.2098 |
| #3 | -0.00181 | .0002   | .00008  | 2.3225 | -1.8262 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3325.6 | 49427. | 5365.2 | 88.836 | 4003.4 |
| Stddev    | 10.0   | 137.   | 55.1   | 2.035  | 11.0   |
| %RSD      | .30179 | .27734 | 1.0275 | 2.2902 | .27568 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3332.9 | 49397. | 5302.7 | 87.233 | 4000.7 |
| #2 | 3314.1 | 49308. | 5386.3 | 91.125 | 3994.0 |
| #3 | 3329.7 | 49577. | 5406.7 | 88.150 | 4015.5 |

Sample Name: PB120495BL      Acquired: 6/11/2019 15:08:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |         |         |        |         |        |
|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890  | Tl1908 | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.00201 | .00032 | -.00155 | -.00240 | .00167 | -.01371 | .00104 |
| Stddev | .00222  | .00015 | .00066  | .00198  | .00106 | .01316  | .00048 |
| %RSD   | 110.59  | 48.568 | 42.319  | 82.533  | 63.306 | 96.005  | 46.535 |

|    |         |        |         |         |        |         |        |
|----|---------|--------|---------|---------|--------|---------|--------|
| #1 | -.00382 | .00014 | -.00191 | -.00413 | .00268 | -.02842 | .00143 |
| #2 | -.00269 | .00043 | -.00195 | -.00283 | .00176 | -.00303 | .00050 |
| #3 | .00047  | .00038 | -.00079 | -.00024 | .00057 | -.00969 | .00120 |

|        |        |        |         |        |         |         |         |
|--------|--------|--------|---------|--------|---------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00005 | .00016 | -.00367 | .00021 | -.00004 | -.00116 | -.00019 |
| Stddev | .00005 | .00009 | .01239  | .00047 | .00005  | .00011  | .00065  |
| %RSD   | 108.97 | 54.916 | 337.74  | 219.39 | 111.61  | 9.8964  | 345.99  |

|    |        |        |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00004 | .00014 | .00469  | .00035  | .00001  | -.00120 | -.00062 |
| #2 | .00000 | .00009 | -.01791 | -.00031 | -.00007 | -.00103 | -.00050 |
| #3 | .00010 | .00026 | .00221  | .00061  | -.00006 | -.00125 | .00056  |

|        |         |        |        |        |         |        |         |
|--------|---------|--------|--------|--------|---------|--------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924 | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | -.00003 | .02184 | .00024 | .00021 | -.00531 | .00007 | -.00126 |
| Stddev | .00006  | .02249 | .00012 | .00037 | .00929  | .00074 | .00001  |
| %RSD   | 210.57  | 102.97 | 47.812 | 176.07 | 175.01  | 1086.0 | .91456  |

|    |         |        |        |         |         |         |         |
|----|---------|--------|--------|---------|---------|---------|---------|
| #1 | .00003  | .04605 | .00012 | -.00018 | -.01601 | -.00077 | -.00125 |
| #2 | -.00009 | .01785 | .00034 | .00025  | .00063  | .00035  | -.00127 |
| #3 | -.00003 | .00161 | .00027 | .00057  | -.00054 | .00063  | -.00126 |

|        |         |        |         |         |         |         |        |
|--------|---------|--------|---------|---------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496  | S_1820  | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.01422 | .00007 | -.00213 | -.00007 | -.00470 | -.00431 | .00015 |
| Stddev | .02513  | .00021 | .01183  | .00078  | .00142  | .00067  | .00113 |
| %RSD   | 176.80  | 309.16 | 556.48  | 1047.1  | 30.216  | 15.651  | 756.38 |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.02162 | -.00014 | -.01555 | -.00073 | -.00330 | -.00471 | -.00096 |
| #2 | -.03482 | .00005  | .00680  | -.00027 | -.00466 | -.00353 | .00011  |
| #3 | .01379  | .00029  | .00237  | .00078  | -.00615 | -.00469 | .00129  |



Sample Name: PB120495BL      Acquired: 6/11/2019 15:08:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |         |        |         |          |          |
|-----------|---------|--------|---------|----------|----------|
| Elem      | Li6707  | P_1774 | Sr4077  | U_3670   | U_3859   |
| Units     | ppm     | ppm    | ppm     | ppm      | ppm      |
| Avg       | -.00213 | -.0032 | .00002  | F 2.4723 | F<.00000 |
| Stddev    | .00127  | .0021  | .00004  | .1500    | .29403   |
| %RSD      | 59.737  | 64.66  | 190.82  | 6.0685   | 18.386   |
| #1        | -.00072 | -.0016 | .00005  | 2.6335   | -1.9230  |
| #2        | -.00319 | -.0025 | -.00002 | 2.3367   | -1.5258  |
| #3        | -.00247 | -.0056 | .00004  | 2.4469   | -1.3489  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710  | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S   | Cts/S    | Cts/S    |
| Avg       | 3339.9  | 49477. | 5404.3  | 89.381   | 4000.2   |
| Stddev    | 8.2     | 159.   | 37.6    | .628     | 3.3      |
| %RSD      | .24599  | .32195 | .69630  | .70275   | .08151   |
| #1        | 3335.0  | 49306. | 5361.1  | 89.308   | 3999.6   |
| #2        | 3335.4  | 49507. | 5430.5  | 88.792   | 3997.3   |
| #3        | 3349.4  | 49620. | 5421.2  | 90.042   | 4003.7   |

Sample Name: PB120509BL      Acquired: 6/11/2019 15:13:24      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |         |        |         |        |
|--------|---------|---------|---------|---------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.00134 | -.00052 | -.00121 | -.00037 | .00099 | -.00625 | .00096 |
| Stddev | .00251  | .00059  | .00030  | .00161  | .00226 | .00738  | .00010 |
| %RSD   | 187.89  | 114.62  | 25.168  | 432.60  | 227.46 | 118.20  | 10.746 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | .00064  | .00017  | -.00086 | .00141  | .00305  | -.01446 | .00084 |
| #2 | -.00417 | -.00086 | -.00133 | -.00172 | -.00143 | -.00412 | .00102 |
| #3 | -.00048 | -.00086 | -.00143 | -.00080 | .00136  | -.00016 | .00102 |

|        |        |        |         |        |        |         |         |
|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00006 | .00005 | -.02107 | .00003 | .00021 | -.00101 | -.00027 |
| Stddev | .00005 | .00008 | .00283  | .00003 | .00025 | .00055  | .00052  |
| %RSD   | 93.855 | 166.12 | 13.440  | 97.873 | 118.47 | 54.602  | 194.46  |

|    |        |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00011 | .00014  | -.02340 | -.00000 | .00034  | -.00117 | -.00056 |
| #2 | .00001 | .00001  | -.02188 | .00006  | .00036  | -.00039 | .00033  |
| #3 | .00005 | -.00000 | -.01792 | .00004  | -.00008 | -.00146 | -.00057 |

|        |         |        |        |        |         |         |         |
|--------|---------|--------|--------|--------|---------|---------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     |
| Avg    | -.00002 | .01430 | .00066 | .00007 | -.00389 | -.00045 | -.00117 |
| Stddev | .00006  | .05775 | .00047 | .00030 | .00372  | .00028  | .00007  |
| %RSD   | 262.90  | 403.78 | 70.433 | 437.12 | 95.566  | 62.508  | 5.9931  |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.00007 | .07778  | .00057 | -.00021 | -.00057 | -.00052 | -.00125 |
| #2 | .00005  | -.03513 | .00025 | .00003  | -.00791 | -.00014 | -.00113 |
| #3 | -.00004 | .00026  | .00117 | .00038  | -.00320 | -.00070 | -.00113 |

|        |         |         |        |         |         |         |        |
|--------|---------|---------|--------|---------|---------|---------|--------|
| Elem   | K_7664  | Mo2020  | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.05722 | -.00017 | .01532 | -.00021 | -.00300 | -.00506 | .00014 |
| Stddev | .02346  | .00013  | .00901 | .00156  | .00134  | .00045  | .00118 |
| %RSD   | 41.007  | 76.101  | 58.814 | 732.86  | 44.638  | 8.9661  | 845.02 |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.04821 | -.00015 | .00766 | .00037  | -.00159 | -.00489 | .00043  |
| #2 | -.03959 | -.00005 | .01305 | -.00198 | -.00316 | -.00472 | -.00116 |
| #3 | -.08385 | -.00031 | .02525 | .00097  | -.00426 | -.00558 | .00114  |

Sample Name: PB120509BL      Acquired: 6/11/2019 15:13:24      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00265 | -.0034 | .00002 | F 2.4246 | F<.00000 |
| Stddev | .00045  | .0018  | .00003 | .0995    | .91320   |
| %RSD   | 16.948  | 54.66  | 181.03 | 4.1051   | 72.941   |

|    |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|
| #1 | -.00260 | -.0044 | .00003  | 2.5377 | -.56713 |
| #2 | -.00312 | -.0045 | -.00002 | 2.3503 | -.90002 |
| #3 | -.00223 | -.0012 | .00003  | 2.3857 | -2.2888 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3336.9 | 49473. | 5373.6 | 89.025 | 4003.7 |
| Stddev    | 7.6    | 17.    | 24.6   | .837   | 4.6    |
| %RSD      | .22713 | .03399 | .45854 | .94055 | .11472 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3328.2 | 49484. | 5371.6 | 88.058 | 3999.9 |
| #2 | 3341.9 | 49454. | 5350.0 | 89.525 | 4008.8 |
| #3 | 3340.8 | 49481. | 5399.2 | 89.492 | 4002.4 |

Sample Name: PB120509BS      Acquired: 6/11/2019 15:17:52      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .75152 | 1.9376 | .94201 | 1.9103 | .77914 | 1.9196 | .19871 |
| Stddev | .00218 | .0086  | .00109 | .0030  | .00045 | .0167  | .00207 |
| %RSD   | .28949 | .44535 | .11570 | .15552 | .05737 | .86755 | 1.0437 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .74901 | 1.9468 | .94084 | 1.9106 | .77895 | 1.9388 | .19678 |
| #2 | .75261 | 1.9362 | .94221 | 1.9131 | .77881 | 1.9097 | .19844 |
| #3 | .75292 | 1.9297 | .94299 | 1.9071 | .77965 | 1.9103 | .20090 |

|        |        |        |          |        |        |        |        |
|--------|--------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | .18760 | .18455 | F 1.4731 | .39328 | .19309 | .31565 | 3.0307 |
| Stddev | .00045 | .00017 | .0223    | .00168 | .00019 | .00156 | .0048  |
| %RSD   | .24163 | .09375 | 1.5139   | .42836 | .10032 | .49359 | .15886 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .18812 | .18463 | 1.4623 | .39508 | .19295 | .31385 | 3.0333 |
| #2 | .18739 | .18436 | 1.4582 | .39174 | .19302 | .31641 | 3.0252 |
| #3 | .18730 | .18467 | 1.4987 | .39301 | .19331 | .31668 | 3.0337 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20301 | 1.8794 | .48096 | .06970 | 2.9350 | .29314 | .19049 |
| Stddev | .00072 | .0435  | .00110 | .00095 | .0271  | .00007 | .00023 |
| %RSD   | .35496 | 2.3128 | .22851 | 1.3667 | .92210 | .02464 | .12170 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20373 | 1.8357 | .47976 | .06860 | 2.9146 | .29306 | .19050 |
| #2 | .20229 | 1.9226 | .48120 | .07023 | 2.9246 | .29318 | .19071 |
| #3 | .20301 | 1.8798 | .48192 | .07027 | 2.9657 | .29318 | .19025 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 9.7307 | .40512 | .27976 | F -.00027 | .83191 | .66132 | .19971 |
| Stddev | .0994  | .00074 | .01159 | .00327    | .00252 | .00178 | .00085 |
| %RSD   | 1.0216 | .18260 | 4.1432 | 1217.6    | .30334 | .26936 | .42329 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 9.6412 | .40459 | .27873 | -.00353 | .83477 | .66078 | .20040 |
| #2 | 9.7133 | .40596 | .29183 | -.00027 | .83001 | .66331 | .19877 |
| #3 | 9.8377 | .40480 | .26872 | .00300  | .83093 | .65988 | .19997 |

Sample Name: PB120509BS      Acquired: 6/11/2019 15:17:52      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |        |         |        |          |          |
|-----------|--------|---------|--------|----------|----------|
| Elem      | Li6707 | P_1774  | Sr4077 | U_3670   | U_3859   |
| Units     | ppm    | ppm     | ppm    | ppm      | ppm      |
| Avg       | .20038 | F 5.627 | .20246 | F 2.8242 | F 5.2827 |
| Stddev    | .00204 | .009    | .00087 | .1463    | .4914    |
| %RSD      | 1.0203 | .1618   | .42973 | 5.1793   | 9.3019   |
| #1        | .19816 | 5.637   | .20161 | 2.9928   | 5.8153   |
| #2        | .20080 | 5.624   | .20242 | 2.7312   | 4.8469   |
| #3        | .20219 | 5.620   | .20335 | 2.7486   | 5.1859   |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3291.5 | 48806.  | 5360.2 | 88.992   | 3909.5   |
| Stddev    | 7.3    | 196.    | 7.1    | 2.034    | 7.8      |
| %RSD      | .22108 | .40239  | .13297 | 2.2853   | .19832   |
| #1        | 3291.3 | 48883.  | 5353.0 | 87.350   | 3902.2   |
| #2        | 3284.3 | 48952.  | 5367.3 | 91.267   | 3908.6   |
| #3        | 3298.9 | 48583.  | 5360.2 | 88.358   | 3917.6   |

Sample Name: K3249-07      Acquired: 6/11/2019 15:21:59      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |         |        |
|--------|---------|---------|--------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00150 | -.00170 | .00451 | .00059 | -.00019 | -.00265 | .13598 |
| Stddev | .00048  | .00221  | .00168 | .00160 | .00013  | .00675  | .00095 |
| %RSD   | 31.871  | 129.82  | 37.163 | 269.95 | 65.451  | 254.43  | .70043 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | -.00120 | -.00138 | .00644 | -.00078 | -.00005 | -.00558 | .13639 |
| #2 | -.00205 | .00033  | .00344 | .00235  | -.00027 | .00507  | .13489 |
| #3 | -.00124 | -.00405 | .00365 | .00020  | -.00026 | -.00744 | .13666 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00021 | .00005 | 27.483 | .00182 | .00057 | .00232 | .01992 |
| Stddev | .00004 | .00003 | .077   | .00040 | .00028 | .00012 | .00023 |
| %RSD   | 17.796 | 61.970 | .27968 | 22.032 | 49.136 | 5.0675 | 1.1325 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00023 | .00002 | 27.434 | .00136 | .00025 | .00241 | .02010 |
| #2 | .00022 | .00005 | 27.443 | .00196 | .00079 | .00235 | .02000 |
| #3 | .00016 | .00008 | 27.571 | .00212 | .00068 | .00219 | .01967 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .02168 | 9.5466 | .00166 | -.00034 | 35.022 | -.00009 | .03182 |
| Stddev | .00017 | .0784  | .00019 | .00007  | .217   | .00040  | .00014 |
| %RSD   | .76151 | .82105 | 11.570 | 20.226  | .61984 | 433.11  | .44179 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .02157 | 9.6176 | .00183 | -.00031 | 35.006 | -.00005 | .03196 |
| #2 | .02161 | 9.4625 | .00171 | -.00043 | 34.814 | .00029  | .03182 |
| #3 | .02187 | 9.5597 | .00145 | -.00030 | 35.247 | -.00051 | .03168 |

|        |        |        |        |          |        |        |         |
|--------|--------|--------|--------|----------|--------|--------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm     |
| Avg    | 2.2890 | .00001 | .04997 | F 14.849 | 9.3511 | .69378 | -.00058 |
| Stddev | .0053  | .00036 | .00654 | .053     | .0512  | .00312 | .00034  |
| %RSD   | .23163 | 3866.4 | 13.091 | .35948   | .54797 | .45022 | 58.704  |

|    |        |         |        |        |        |        |         |
|----|--------|---------|--------|--------|--------|--------|---------|
| #1 | 2.2924 | .00033  | .05723 | 14.825 | 9.3179 | .69373 | -.00051 |
| #2 | 2.2829 | .00009  | .04453 | 14.812 | 9.4101 | .69068 | -.00095 |
| #3 | 2.2917 | -.00038 | .04816 | 14.910 | 9.3252 | .69693 | -.00028 |

Sample Name: K3249-07      Acquired: 6/11/2019 15:21:59      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00236 | -.0010 | .35635 | 3.0586 | F<.00000 |
| Stddev | .00046  | .0022  | .00100 | .1056  | 1.3321   |
| %RSD   | 19.617  | 215.5  | .28011 | 3.4512 | 50.657   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00256 | .0015  | .35522 | 3.1535 | -3.0957 |
| #2 | -.00183 | -.0024 | .35672 | 3.0774 | -1.1271 |
| #3 | -.00269 | -.0021 | .35710 | 2.9449 | -3.6660 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3196.9 | 47569. | 5285.5 | 87.077 | 3803.3 |
| Stddev    | 9.0    | 246.   | 15.8   | 1.575  | 9.6    |
| %RSD      | .28255 | .51687 | .29874 | 1.8082 | .25355 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3206.9 | 47357. | 5271.4 | 85.760 | 3814.4 |
| #2 | 3189.3 | 47838. | 5282.6 | 88.821 | 3799.0 |
| #3 | 3194.4 | 47512. | 5302.6 | 86.649 | 3796.6 |

Sample Name: K3249-07DUP      Acquired: 6/11/2019 15:26:22      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |        |         |        |
|--------|---------|---------|--------|--------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.00171 | -.00101 | .00536 | .00303 | .00207 | -.00537 | .13496 |
| Stddev | .00180  | .00162  | .00037 | .00101 | .00089 | .01814  | .00077 |
| %RSD   | 105.68  | 160.21  | 6.9033 | 33.232 | 43.076 | 338.08  | .57249 |

|    |         |         |        |        |        |         |        |
|----|---------|---------|--------|--------|--------|---------|--------|
| #1 | -.00093 | -.00054 | .00501 | .00297 | .00106 | -.02528 | .13449 |
| #2 | -.00376 | .00032  | .00532 | .00407 | .00274 | -.00106 | .13585 |
| #3 | -.00042 | -.00282 | .00575 | .00206 | .00240 | .01023  | .13453 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00014 | .00001 | 27.317 | .00169 | .00052 | .00222 | .02311 |
| Stddev | .00005 | .00002 | .091   | .00015 | .00015 | .00038 | .00182 |
| %RSD   | 39.366 | 177.83 | .33157 | 8.8526 | 30.006 | 17.243 | 7.8833 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00015 | -.00000 | 27.269 | .00184 | .00035 | .00263 | .02218 |
| #2 | .00008 | .00000  | 27.262 | .00154 | .00053 | .00187 | .02521 |
| #3 | .00018 | .00004  | 27.422 | .00168 | .00066 | .00215 | .02194 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .02188 | 9.5368 | .00183 | -.00039 | 34.798 | -.00034 | .03193 |
| Stddev | .00021 | .0833  | .00019 | .00031  | .022   | .00067  | .00017 |
| %RSD   | .95383 | .87361 | 10.611 | 78.863  | .06391 | 196.31  | .52177 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .02170 | 9.6330 | .00201 | -.00030 | 34.779 | -.00038 | .03175 |
| #2 | .02184 | 9.4903 | .00163 | -.00073 | 34.822 | .00035  | .03199 |
| #3 | .02211 | 9.4871 | .00184 | -.00013 | 34.792 | -.00099 | .03207 |

|        |        |         |        |          |        |        |         |
|--------|--------|---------|--------|----------|--------|--------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm    | ppm    | ppm     |
| Avg    | 2.2754 | -.00037 | .04369 | F 14.918 | 9.2920 | .85139 | -.00040 |
| Stddev | .0413  | .00032  | .00243 | .034     | .0078  | .00091 | .00130  |
| %RSD   | 1.8153 | 85.694  | 5.5672 | .22839   | .08453 | .10663 | 323.45  |

|    |        |         |        |        |        |        |         |
|----|--------|---------|--------|--------|--------|--------|---------|
| #1 | 2.2595 | -.00065 | .04284 | 14.898 | 9.2994 | .85040 | .00110  |
| #2 | 2.2443 | -.00003 | .04644 | 14.899 | 9.2838 | .85159 | -.00121 |
| #3 | 2.3222 | -.00043 | .04180 | 14.958 | 9.2927 | .85219 | -.00109 |



Sample Name: K3249-07DUP      Acquired: 6/11/2019 15:26:22      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00163 | -.0013 | .35413 | 3.2586 | F<.00000 |
| Stddev | .00086  | .0004  | .00066 | .0841  | .77599   |
| %RSD   | 52.546  | 30.18  | .18529 | 2.5822 | 21.119   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00096 | -.0016 | .35462 | 3.2170 | -3.2080 |
| #2 | -.00134 | -.0009 | .35339 | 3.3555 | -3.2450 |
| #3 | -.00260 | -.0015 | .35439 | 3.2034 | -4.5701 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3190.1 | 47877. | 5317.8 | 88.740 | 3793.1 |
| Stddev    | 2.2    | 118.   | 15.4   | .565   | 7.6    |
| %RSD      | .06772 | .24545 | .28977 | .63662 | .19978 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3189.7 | 47747. | 5300.3 | 88.304 | 3799.3 |
| #2 | 3192.5 | 47909. | 5329.3 | 88.538 | 3795.3 |
| #3 | 3188.2 | 47976. | 5323.7 | 89.378 | 3784.7 |

Sample Name: K3249-07LX5      Acquired: 6/11/2019 15:30:45      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |         |        |         |        |
|--------|---------|---------|---------|---------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.00025 | -.00051 | -.00063 | -.00196 | .00206 | -.00354 | .02793 |
| Stddev | .00388  | .00102  | .00051  | .00185  | .00048 | .01245  | .00050 |
| %RSD   | 1581.3  | 200.53  | 81.685  | 94.462  | 23.316 | 351.45  | 1.7966 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | .00197  | .00050  | -.00005 | -.00280 | .00157 | .00478  | .02766 |
| #2 | -.00472 | -.00154 | -.00081 | -.00324 | .00208 | .00244  | .02851 |
| #3 | .00202  | -.00048 | -.00103 | .00016  | .00253 | -.01785 | .02762 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00012 | .00012 | 5.4537 | .00040 | .00021 | -.00018 | .00485 |
| Stddev | .00001 | .00004 | .0512  | .00035 | .00005 | .00023  | .00072 |
| %RSD   | 8.6657 | 30.050 | .93971 | 87.981 | 23.467 | 133.73  | 14.858 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00012 | .00015 | 5.3965 | .00001 | .00019 | -.00033 | .00446 |
| #2 | .00012 | .00008 | 5.4694 | .00050 | .00027 | -.00029 | .00441 |
| #3 | .00011 | .00012 | 5.4953 | .00069 | .00018 | .00009  | .00569 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00452 | 1.9250 | .00076 | -.00000 | 6.9669 | -.00065 | .00589 |
| Stddev | .00004 | .0073  | .00044 | .00038  | .0337  | .00039  | .00005 |
| %RSD   | .87868 | .37645 | 57.790 | 8374.0  | .48364 | 60.230  | .79089 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00453 | 1.9333 | .00073 | .00043  | 7.0044 | -.00020 | .00589 |
| #2 | .00456 | 1.9222 | .00122 | -.00018 | 6.9573 | -.00085 | .00594 |
| #3 | .00448 | 1.9197 | .00034 | -.00026 | 6.9391 | -.00091 | .00584 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .43939 | -.00017 | .00674 | 3.0160 | 1.9323 | .05938 | .00063 |
| Stddev | .02542 | .00011  | .01870 | .0097  | .0080  | .00101 | .00208 |
| %RSD   | 5.7863 | 62.467  | 277.57 | .32286 | .41439 | 1.7019 | 327.70 |

|    |        |         |         |        |        |        |         |
|----|--------|---------|---------|--------|--------|--------|---------|
| #1 | .42852 | -.00005 | -.01458 | 3.0177 | 1.9250 | .05866 | -.00171 |
| #2 | .42120 | -.00021 | .01443  | 3.0248 | 1.9310 | .05894 | .00224  |
| #3 | .46844 | -.00026 | .02037  | 3.0056 | 1.9408 | .06053 | .00137  |

Sample Name: K3249-07LX5      Acquired: 6/11/2019 15:30:45      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00178 | .0010  | .07121 | 2.5980 | F<.00000 |
| Stddev | .00295  | .0022  | .00012 | .1035  | .65931   |
| %RSD   | 165.97  | 223.8  | .17352 | 3.9818 | 31.259   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00382 | .0014  | .07107 | 2.6535 | -2.6039 |
| #2 | -.00312 | -.0014 | .07128 | 2.6618 | -2.3629 |
| #3 | .00161  | .0028  | .07128 | 2.4786 | -1.3607 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3305.2 | 49235. | 5437.3 | 90.318 | 3978.1 |
| Stddev    | 11.2   | 7.     | 7.8    | 1.554  | 12.9   |
| %RSD      | .33886 | .01378 | .14421 | 1.7204 | .32441 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3294.4 | 49241. | 5446.0 | 91.992 | 3971.2 |
| #2 | 3304.5 | 49236. | 5435.1 | 90.042 | 3970.0 |
| #3 | 3316.8 | 49227. | 5430.8 | 88.921 | 3992.9 |

Sample Name: CCV04      Acquired: 6/11/2019 15:35:11      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15093      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0145 | 4.8979 | 4.8655 | 4.9817 | 5.0051 | 9.9672 | 9.9641 | .24553   |
| Stddev | .0160  | .0033  | .0111  | .0112  | .0170  | .1223  | .0465  | .00066   |
| %RSD   | .31880 | .06747 | .22729 | .22460 | .33937 | 1.2272 | .46681 | .26797   |
| #1     | 5.0033 | 4.8941 | 4.8572 | 4.9892 | 4.9892 | 9.9284 | 9.9466 | .24627   |
| #2     | 5.0074 | 4.9002 | 4.8613 | 4.9870 | 5.0230 | 9.8690 | 9.9289 | .24535   |
| #3     | 5.0328 | 4.8994 | 4.8781 | 4.9688 | 5.0030 | 10.104 | 10.017 | .24499   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4177 | 26.000 | .96811 | 2.4429 | 1.2730 | 4.9539 | 2.4887 | 24.626   |
| Stddev | .0057  | .131   | .00265 | .0049  | .0022  | .0100  | .0032  | .195     |
| %RSD   | .23433 | .50504 | .27331 | .19885 | .17290 | .20182 | .12842 | .79025   |
| #1     | 2.4160 | 25.967 | .96792 | 2.4405 | 1.2707 | 4.9536 | 2.4923 | 24.515   |
| #2     | 2.4131 | 25.888 | .96556 | 2.4398 | 1.2732 | 4.9440 | 2.4862 | 24.512   |
| #3     | 2.4240 | 26.145 | .97084 | 2.4485 | 1.2750 | 4.9640 | 2.4875 | 24.850   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4149 | 1.2255 | 24.537 | 2.5764 | 2.4691 | 24.868 | 5.0232 | 4.8944   |
| Stddev | .0006  | .0026  | .103   | .0058  | .0044  | .059   | .0073  | .0563    |
| %RSD   | .02582 | .21281 | .41830 | .22625 | .17987 | .23817 | .14487 | 1.1493   |
| #1     | 2.4142 | 1.2268 | 24.518 | 2.5822 | 2.4671 | 24.840 | 5.0157 | 4.8715   |
| #2     | 2.4155 | 1.2225 | 24.446 | 2.5705 | 2.4660 | 24.829 | 5.0302 | 4.8531   |
| #3     | 2.4149 | 1.2272 | 24.648 | 2.5764 | 2.4741 | 24.937 | 5.0238 | 4.9584   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9989 | 4.6773 | 4.8724 | 4.8937 | 4.9038 | 5.138  | 4.9526 | F 3.5420 |
| Stddev | .0124  | .0130  | .0164  | .0247  | .0067  | .007   | .0025  | .0577    |
| %RSD   | .24910 | .27868 | .33583 | .50544 | .13719 | .1336  | .04994 | 1.6295   |
| #1     | 4.9849 | 4.6848 | 4.8560 | 4.8879 | 4.9092 | 5.139  | 4.9548 | 3.6050   |
| #2     | 5.0030 | 4.6848 | 4.8724 | 4.8724 | 4.9060 | 5.145  | 4.9530 | 3.5292   |
| #3     | 5.0088 | 4.6623 | 4.8887 | 4.9208 | 4.8963 | 5.131  | 4.9499 | 3.4918   |

Sample Name: CCV04      Acquired: 6/11/2019 15:35:11      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV15093      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 1.2892 |
| Stddev | .4555    |
| %RSD   | 35.330   |

|    |        |
|----|--------|
| #1 | .91824 |
| #2 | 1.7975 |
| #3 | 1.1517 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3190.8 | 47149. | 5370.6 | 85.643 | 3597.6 |
| Stddev    | 1.3    | 84.    | 22.2   | 1.969  | 6.7    |
| %RSD      | .04220 | .17750 | .41338 | 2.2994 | .18645 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3191.5 | 47103. | 5352.4 | 83.467 | 3596.0 |
| #2 | 3191.7 | 47246. | 5364.2 | 86.162 | 3604.9 |
| #3 | 3189.3 | 47099. | 5395.3 | 87.302 | 3591.8 |

Sample Name: CCB04      Acquired: 6/11/2019 15:39:09      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15093      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00260 | .00001 | -.00087 | -.00175 | -.00069 | -.01901 | .00153 |
| Stddev | .00094 | .00052 | .00075  | .00163  | .00103  | .00590  | .00026 |
| %RSD   | 36.218 | 5534.3 | 86.824  | 93.302  | 148.50  | 31.019  | 16.888 |

|    |        |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00153 | .00053  | -.00163 | -.00305 | .00043  | -.01830 | .00176 |
| #2 | .00329 | .00001  | -.00013 | .00008  | -.00091 | -.02523 | .00125 |
| #3 | .00298 | -.00051 | -.00084 | -.00228 | -.00160 | -.01350 | .00157 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00009 | .00009 | -.00243 | .00038 | .00021 | -.00162 | .00045 |
| Stddev | .00011 | .00001 | .02927  | .00046 | .00009 | .00026  | .00058 |
| %RSD   | 123.35 | 9.7616 | 1203.1  | 122.52 | 42.725 | 16.201  | 127.47 |

|    |         |        |         |         |        |         |         |
|----|---------|--------|---------|---------|--------|---------|---------|
| #1 | .00009  | .00008 | -.02040 | .00065  | .00022 | -.00186 | .00087  |
| #2 | .00019  | .00010 | .03134  | -.00016 | .00029 | -.00166 | .00069  |
| #3 | -.00002 | .00010 | -.01825 | .00064  | .00011 | -.00134 | -.00021 |

|        |        |        |        |        |         |         |         |
|--------|--------|--------|--------|--------|---------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00008 | .01346 | .00084 | .00043 | -.01660 | -.00002 | -.00119 |
| Stddev | .00003 | .07960 | .00015 | .00027 | .00656  | .00029  | .00004  |
| %RSD   | 39.211 | 591.39 | 17.684 | 63.379 | 39.514  | 1408.9  | 3.5345  |

|    |        |         |        |        |         |         |         |
|----|--------|---------|--------|--------|---------|---------|---------|
| #1 | .00009 | -.06007 | .00071 | .00013 | -.01139 | -.00030 | -.00115 |
| #2 | .00004 | .00246  | .00100 | .00066 | -.01444 | -.00005 | -.00123 |
| #3 | .00010 | .09798  | .00081 | .00050 | -.02397 | .00028  | -.00120 |

|        |         |        |        |         |         |         |        |
|--------|---------|--------|--------|---------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.04652 | .00011 | .00010 | -.00100 | -.00047 | -.00354 | .00013 |
| Stddev | .01701  | .00020 | .00290 | .00097  | .00129  | .00021  | .00152 |
| %RSD   | 36.567  | 171.93 | 2984.2 | 97.600  | 275.04  | 6.0372  | 1215.7 |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.06235 | .00009  | .00228  | -.00013 | -.00181 | -.00340 | -.00120 |
| #2 | -.02853 | -.00007 | -.00320 | -.00205 | -.00035 | -.00344 | .00179  |
| #3 | -.04867 | .00032  | .00122  | -.00082 | .00075  | -.00379 | -.00021 |

Sample Name: CCB04      Acquired: 6/11/2019 15:39:09      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCB15093      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |          |          |
|-----------|---------|--------|--------|----------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg       | -.00229 | -.0028 | .00009 | F 2.6377 | F<.00000 |
| Stddev    | .00159  | .0017  | .00005 | .0644    | .78548   |
| %RSD      | 69.647  | 61.89  | 60.363 | 2.4409   | 35.393   |
| #1        | -.00155 | -.0012 | .00008 | 2.5872   | -1.8566  |
| #2        | -.00411 | -.0046 | .00004 | 2.6157   | -1.6807  |
| #3        | -.00119 | -.0025 | .00014 | 2.7102   | -3.1206  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3325.8  | 49751. | 5446.7 | 89.994   | 4017.5   |
| Stddev    | 22.3    | 340.   | 17.5   | 1.347    | 10.7     |
| %RSD      | .66915  | .68419 | .32189 | 1.4970   | .26755   |
| #1        | 3316.1  | 49445. | 5448.8 | 90.550   | 4022.1   |
| #2        | 3310.0  | 49689. | 5463.1 | 90.975   | 4005.3   |
| #3        | 3351.2  | 50118. | 5428.2 | 88.458   | 4025.3   |

Sample Name: K3249-07MS      Acquired: 6/11/2019 15:54:46      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |        |
|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .73841   | 1.7910 | .88465 | 1.8321 | .85956 | 1.8727 | .32055 | .18018 |
| Stddev | .00282   | .0107  | .00460 | .0026  | .00041 | .0271  | .00094 | .00070 |
| %RSD   | .38231   | .59600 | .51944 | .14307 | .04781 | 1.4493 | .29447 | .38828 |
| #1     | .73863   | 1.7805 | .87982 | 1.8307 | .85918 | 1.8488 | .31992 | .17941 |
| #2     | .73548   | 1.7907 | .88515 | 1.8351 | .85950 | 1.9022 | .32163 | .18038 |
| #3     | .74111   | 1.8019 | .88897 | 1.8305 | .86000 | 1.8671 | .32008 | .18077 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .17316   | 26.311 | .37559 | .18457 | .29910 | 2.9025 | .21247 | 10.679 |
| Stddev | .00052   | .091   | .00141 | .00103 | .00125 | .0063  | .00077 | .081   |
| %RSD   | .30032   | .34423 | .37446 | .56009 | .41680 | .21542 | .36037 | .75998 |
| #1     | .17262   | 26.262 | .37608 | .18342 | .29770 | 2.8981 | .21202 | 10.595 |
| #2     | .17318   | 26.255 | .37400 | .18542 | .30010 | 2.8997 | .21203 | 10.685 |
| #3     | .17366   | 26.415 | .37669 | .18487 | .29949 | 2.9097 | .21335 | 10.757 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .45138   | .06518 | 35.037 | .28384 | .20290 | 11.649 | .45128 | .31247 |
| Stddev | .00246   | .00146 | .068   | .00223 | .00052 | .031   | .00112 | .01378 |
| %RSD   | .54505   | 2.2371 | .19414 | .78498 | .25774 | .26198 | .24875 | 4.4111 |
| #1     | .44857   | .06597 | 35.023 | .28127 | .20238 | 11.614 | .45196 | .31052 |
| #2     | .45245   | .06350 | 34.978 | .28499 | .20290 | 11.672 | .45190 | .32712 |
| #3     | .45313   | .06607 | 35.111 | .28526 | .20342 | 11.659 | .44999 | .29976 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 13.901 | 9.2673 | .72178 | .21609 | .19360 | 5.554  | .51832 | 3.5389 |
| Stddev | .054     | .0473  | .00258 | .00130 | .00047 | .026   | .00370 | .1096  |
| %RSD   | .38724   | .51038 | .35712 | .60149 | .24320 | .4652  | .71320 | 3.0982 |
| #1     | 13.845   | 9.2481 | .71889 | .21545 | .19313 | 5.524  | .51638 | 3.4975 |
| #2     | 13.905   | 9.2327 | .72262 | .21758 | .19359 | 5.569  | .51600 | 3.4560 |
| #3     | 13.952   | 9.3212 | .72383 | .21523 | .19407 | 5.568  | .52259 | 3.6632 |



Sample Name: K3249-07MS      Acquired: 6/11/2019 15:54:46      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30 Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 4.2320 |
| Stddev | .5113  |
| %RSD   | 12.081 |

|    |        |
|----|--------|
| #1 | 4.6283 |
| #2 | 4.4128 |
| #3 | 3.6549 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3143.1 | 47405. | 5305.4 | 87.156 | 3727.6 |
| Stddev    | 7.4    | 94.    | 15.9   | 1.488  | 5.8    |
| %RSD      | .23423 | .19889 | .29964 | 1.7073 | .15617 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3135.6 | 47451. | 5319.6 | 87.076 | 3731.7 |
| #2 | 3143.5 | 47297. | 5308.6 | 88.682 | 3730.1 |
| #3 | 3150.3 | 47468. | 5288.2 | 85.709 | 3720.9 |

Sample Name: K3249-10      Acquired: 6/11/2019 15:58:53      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-DUP03-201      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |        |         |        |
|--------|---------|---------|--------|--------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.00112 | -.00153 | .00389 | .00215 | .00050 | -.00908 | .11919 |
| Stddev | .00183  | .00029  | .00050 | .00107 | .00064 | .00718  | .00076 |
| %RSD   | 162.92  | 18.743  | 12.804 | 50.016 | 129.50 | 79.111  | .64134 |

|    |         |         |        |        |        |         |        |
|----|---------|---------|--------|--------|--------|---------|--------|
| #1 | .00097  | -.00124 | .00372 | .00157 | .00026 | -.00878 | .11886 |
| #2 | -.00240 | -.00154 | .00445 | .00339 | .00122 | -.01640 | .11865 |
| #3 | -.00194 | -.00182 | .00349 | .00149 | .00001 | -.00205 | .12007 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00012 | .00004 | 23.429 | .00220 | .00043 | .00135 | .01771 |
| Stddev | .00000 | .00002 | .050   | .00012 | .00012 | .00018 | .00068 |
| %RSD   | 4.0024 | 57.443 | .21305 | 5.5726 | 27.865 | 13.415 | 3.8568 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00013 | .00007 | 23.380 | .00228 | .00030 | .00139 | .01735 |
| #2 | .00012 | .00003 | 23.427 | .00206 | .00053 | .00150 | .01729 |
| #3 | .00012 | .00002 | 23.480 | .00226 | .00047 | .00115 | .01850 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .01959 | 8.4591 | .00234 | -.00041 | 30.893 | -.00018 | .02405 |
| Stddev | .00010 | .0504  | .00009 | .00031  | .119   | .00041  | .00023 |
| %RSD   | .48516 | .59586 | 3.9222 | 76.035  | .38566 | 226.57  | .95624 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .01958 | 8.4219 | .00223 | -.00020 | 30.855 | -.00049 | .02382 |
| #2 | .01969 | 8.5165 | .00237 | -.00025 | 30.798 | .00028  | .02428 |
| #3 | .01950 | 8.4389 | .00241 | -.00076 | 31.027 | -.00033 | .02405 |

|        |        |         |        |          |        |         |        |
|--------|--------|---------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 1.9717 | -.00017 | .04612 | F 13.097 | 8.0124 | -.00846 | .00010 |
| Stddev | .0052  | .00015  | .00336 | .023     | .0396  | .00093  | .00205 |
| %RSD   | .26306 | 86.872  | 7.2860 | .17431   | .49418 | 10.973  | 1958.3 |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 1.9763 | -.00034 | .04959 | 13.107 | 8.0020 | -.00885 | .00084  |
| #2 | 1.9661 | -.00015 | .04588 | 13.114 | 8.0561 | -.00914 | -.00221 |
| #3 | 1.9727 | -.00004 | .04288 | 13.071 | 7.9790 | -.00740 | .00168  |

Sample Name: K3249-10      Acquired: 6/11/2019 15:58:53      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-DUP03-201      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00162 | -.0001 | .30895 | 3.1761 | F<.00000 |
| Stddev | .00141  | .0008  | .00060 | .0117  | 1.2234   |
| %RSD   | 86.866  | 1442.  | .19400 | .36742 | 59.760   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00078 | .0008  | .30832 | 3.1627 | -2.4775 |
| #2 | -.00325 | -.0002 | .30952 | 3.1819 | -2.9973 |
| #3 | -.00084 | -.0008 | .30900 | 3.1838 | -.66676 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3173.2 | 47963. | 5393.6 | 88.948 | 3792.5 |
| Stddev    | 6.6    | 193.   | 27.8   | 1.087  | 10.6   |
| %RSD      | .20664 | .40305 | .51510 | 1.2216 | .27974 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3170.2 | 47750. | 5374.8 | 87.713 | 3794.1 |
| #2 | 3168.7 | 48127. | 5380.4 | 89.375 | 3781.2 |
| #3 | 3180.8 | 48013. | 5425.5 | 89.757 | 3802.2 |

Sample Name: K3249-13      Acquired: 6/11/2019 16:03:18      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-HN-MW24S-      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |         |        |
|--------|---------|---------|--------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00129 | -.00204 | .00309 | .00354 | -.00251 | -.03535 | .12564 |
| Stddev | .00165  | .00087  | .00054 | .00274 | .00160  | .00694  | .00088 |
| %RSD   | 127.99  | 42.613  | 17.360 | 77.333 | 63.974  | 19.642  | .70426 |

|    |         |         |        |        |         |         |        |
|----|---------|---------|--------|--------|---------|---------|--------|
| #1 | .00049  | -.00191 | .00335 | .00067 | -.00389 | -.03796 | .12513 |
| #2 | -.00277 | -.00297 | .00248 | .00384 | -.00075 | -.02748 | .12666 |
| #3 | -.00160 | -.00124 | .00346 | .00612 | -.00287 | -.04061 | .12513 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00015 | .00034 | 52.273 | .00174 | .00004 | .00106 | .02498 |
| Stddev | .00003 | .00007 | .554   | .00036 | .00016 | .00023 | .00039 |
| %RSD   | 19.267 | 20.817 | 1.0606 | 20.670 | 368.04 | 21.811 | 1.5590 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00015 | .00041 | 51.660 | .00183 | .00007  | .00103 | .02498 |
| #2 | .00013 | .00034 | 52.421 | .00134 | .00019  | .00130 | .02460 |
| #3 | .00019 | .00027 | 52.739 | .00204 | -.00013 | .00084 | .02538 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00199 | 13.305 | .00029 | -.00064 | 55.869 | .00079 | .00965 |
| Stddev | .00003 | .086   | .00045 | .00027  | .272   | .00037 | .00008 |
| %RSD   | 1.6603 | .64532 | 151.56 | 42.060  | .48629 | 47.557 | .81097 |

|    |        |        |         |         |        |        |        |
|----|--------|--------|---------|---------|--------|--------|--------|
| #1 | .00195 | 13.354 | .00076  | -.00065 | 55.715 | .00118 | .00967 |
| #2 | .00202 | 13.354 | .00026  | -.00090 | 56.183 | .00044 | .00956 |
| #3 | .00199 | 13.206 | -.00013 | -.00036 | 55.709 | .00074 | .00972 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 7.2606 | .00006 | .04266 | 6.2779 | 4.6374 | -.00571 | -.00056 |
| Stddev | .0482  | .00026 | .01739 | .0251  | .0367  | .00064  | .00048  |
| %RSD   | .66444 | 432.91 | 40.769 | .40029 | .79197 | 11.165  | 85.971  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 7.2945 | -.00012 | .06012 | 6.2517 | 4.6153 | -.00534 | -.00015 |
| #2 | 7.2820 | -.00006 | .04251 | 6.2802 | 4.6171 | -.00534 | -.00044 |
| #3 | 7.2054 | .00035  | .02534 | 6.3018 | 4.6798 | -.00644 | -.00110 |

Sample Name: K3249-13      Acquired: 6/11/2019 16:03:18      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BP-HN-MW24S-      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00205 | .0068  | .35865 | 3.4614 | F<.00000 |
| Stddev | .00035  | .0003  | .00168 | .1053  | .42569   |
| %RSD   | 17.265  | 3.991  | .46806 | 3.0432 | 10.313   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00198 | .0071 | .35686 | 3.4695 | -3.8871 |
| #2 | -.00244 | .0066 | .35891 | 3.5625 | -4.6193 |
| #3 | -.00174 | .0066 | .36018 | 3.3523 | -3.8771 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3097.4 | 46813. | 5297.1 | 86.709 | 3650.3 |
| Stddev    | 2.7    | 148.   | 15.3   | 1.466  | 17.8   |
| %RSD      | .08821 | .31657 | .28950 | 1.6905 | .48688 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3094.9 | 46777. | 5309.5 | 87.736 | 3655.4 |
| #2 | 3100.3 | 46686. | 5301.7 | 85.031 | 3664.9 |
| #3 | 3097.0 | 46976. | 5279.9 | 87.362 | 3630.5 |

Sample Name: K3249-15      Acquired: 6/11/2019 16:07:42      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-DUP04-201      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |         |        |
|--------|---------|---------|--------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00111 | -.00236 | .00338 | .00713 | -.00130 | -.04057 | .13548 |
| Stddev | .00050  | .00136  | .00051 | .00305 | .00102  | .00348  | .00022 |
| %RSD   | 45.553  | 57.440  | 15.017 | 42.799 | 78.743  | 8.5845  | .16197 |

|    |         |         |        |        |         |         |        |
|----|---------|---------|--------|--------|---------|---------|--------|
| #1 | -.00167 | -.00379 | .00304 | .00727 | -.00038 | -.04012 | .13530 |
| #2 | -.00072 | -.00218 | .00313 | .00401 | -.00240 | -.04426 | .13541 |
| #3 | -.00092 | -.00110 | .00396 | .01012 | -.00111 | -.03733 | .13572 |

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00004 | .00032 | 55.051 | .00271 | -.00004 | .00126 | .02676 |
| Stddev | .00003 | .00014 | .097   | .00030 | .00025  | .00037 | .00057 |
| %RSD   | 77.987 | 43.461 | .17588 | 10.906 | 635.11  | 29.481 | 2.1376 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00001 | .00022 | 54.940 | .00305 | -.00033 | .00168 | .02737 |
| #2 | .00007 | .00047 | 55.110 | .00252 | .00012  | .00104 | .02669 |
| #3 | .00005 | .00026 | 55.104 | .00256 | .00008  | .00104 | .02623 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00541 | 14.120 | .00009 | -.00076 | 59.004 | .00019 | .01699 |
| Stddev | .00007 | .093   | .00024 | .00043  | .252   | .00041 | .00012 |
| %RSD   | 1.2193 | .65798 | 265.77 | 56.585  | .42642 | 219.54 | .73072 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | .00544 | 14.018 | .00036  | -.00104 | 58.725 | .00030  | .01686 |
| #2 | .00534 | 14.142 | -.00010 | -.00026 | 59.071 | -.00027 | .01711 |
| #3 | .00547 | 14.200 | .00001  | -.00097 | 59.215 | .00053  | .01699 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 7.7901 | .00000 | .04724 | 6.6074 | 4.8620 | -.00554 | -.00124 |
| Stddev | .0299  | .00034 | .01606 | .0156  | .0624  | .00070  | .00162  |
| %RSD   | .38347 | 8799.9 | 33.992 | .23660 | 1.2834 | 12.646  | 130.76  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 7.7617 | -.00037 | .03835 | 6.6025 | 4.9213 | -.00494 | -.00097 |
| #2 | 7.7873 | .00010  | .03759 | 6.5949 | 4.7969 | -.00536 | .00023  |
| #3 | 7.8213 | .00028  | .06577 | 6.6249 | 4.8677 | -.00631 | -.00298 |

Sample Name: K3249-15      Acquired: 6/11/2019 16:07:42      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BP-DUP04-201      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00026 | .0055  | .37642 | 3.4410 | F<.00000 |
| Stddev | .00033  | .0004  | .00022 | .2346  | 1.0217   |
| %RSD   | 127.02  | 8.099  | .05736 | 6.8173 | 21.873   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00008 | .0051 | .37655 | 3.4321 | -4.8682 |
| #2 | -.00064 | .0060 | .37654 | 3.6799 | -3.5652 |
| #3 | -.00006 | .0054 | .37617 | 3.2110 | -5.5800 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3093.6 | 46626. | 5323.3 | 87.505 | 3653.4 |
| Stddev    | 7.5    | 203.   | 34.4   | .502   | 7.8    |
| %RSD      | .24383 | .43616 | .64708 | .57319 | .21331 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3102.3 | 46447. | 5284.7 | 87.929 | 3661.0 |
| #2 | 3088.8 | 46847. | 5351.0 | 87.635 | 3653.8 |
| #3 | 3089.8 | 46585. | 5334.1 | 86.951 | 3645.4 |

Sample Name: K3249-17      Acquired: 6/11/2019 16:12:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-DUP05-201      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |         |        |
|--------|---------|---------|--------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00100 | -.00086 | .00461 | .00360 | -.00018 | -.01325 | .14243 |
| Stddev | .00199  | .00086  | .00045 | .00125 | .00052  | .01854  | .00099 |
| %RSD   | 199.75  | 100.02  | 9.8549 | 34.739 | 283.44  | 139.95  | .69477 |

|    |         |         |        |        |         |         |        |
|----|---------|---------|--------|--------|---------|---------|--------|
| #1 | .00028  | -.00020 | .00424 | .00443 | .00041  | .00701  | .14339 |
| #2 | -.00329 | -.00183 | .00511 | .00421 | -.00049 | -.02938 | .14249 |
| #3 | .00002  | -.00054 | .00447 | .00216 | -.00047 | -.01737 | .14141 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00021 | .00001 | 31.687 | .00119 | .00095 | .00774 | .00486 |
| Stddev | .00002 | .00003 | .109   | .00044 | .00018 | .00011 | .00078 |
| %RSD   | 9.6066 | 463.91 | .34448 | 36.747 | 19.044 | 1.4251 | 15.967 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00023 | -.00003 | 31.633 | .00069 | .00077 | .00771 | .00420 |
| #2 | .00021 | .00004  | 31.813 | .00149 | .00113 | .00765 | .00467 |
| #3 | .00019 | .00001  | 31.616 | .00138 | .00094 | .00786 | .00572 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .01066 | 9.6280 | .00334 | -.00038 | 50.946 | -.00010 | .04036 |
| Stddev | .00004 | .0798  | .00006 | .00022  | .305   | .00045  | .00025 |
| %RSD   | .36168 | .82895 | 1.9038 | 58.520  | .59815 | 443.41  | .63085 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .01068 | 9.7188 | .00335 | -.00034 | 51.282 | -.00062 | .04064 |
| #2 | .01069 | 9.5957 | .00340 | -.00018 | 50.868 | .00018  | .04029 |
| #3 | .01062 | 9.5693 | .00327 | -.00062 | 50.687 | .00013  | .04014 |

|        |        |         |        |          |        |         |         |
|--------|--------|---------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 6.1993 | -.00005 | .13072 | F 17.682 | 7.2913 | -.00924 | -.00052 |
| Stddev | .1084  | .00019  | .01300 | .091     | .0514  | .00013  | .00133  |
| %RSD   | 1.7493 | 342.84  | 9.9471 | .51695   | .70484 | 1.3760  | 257.54  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 6.2722 | .00001  | .12573 | 17.787 | 7.2360 | -.00910 | -.00205 |
| #2 | 6.2510 | .00009  | .12096 | 17.637 | 7.3003 | -.00935 | .00033  |
| #3 | 6.0746 | -.00026 | .14548 | 17.622 | 7.3376 | -.00927 | .00017  |



Sample Name: K3249-17      Acquired: 6/11/2019 16:12:07      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BP-DUP05-201      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00285 | -.0020 | .83096 | 3.2381 | F<.00000 |
| Stddev | .00061 | .0007  | .00206 | .0643  | .23781   |
| %RSD   | 21.393 | 33.78  | .24750 | 1.9848 | 5.6235   |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .00281 | -.0023 | .82896 | 3.3098 | -4.5027 |
| #2 | .00349 | -.0012 | .83085 | 3.2189 | -4.0747 |
| #3 | .00227 | -.0025 | .83307 | 3.1857 | -4.1091 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3130.9 | 47021. | 5322.2 | 86.798 | 3721.9 |
| Stddev    | 15.1   | 226.   | 12.6   | .662   | 30.0   |
| %RSD      | .48309 | .48094 | .23654 | .76314 | .80621 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3117.4 | 46774. | 5333.1 | 86.538 | 3689.0 |
| #2 | 3147.2 | 47072. | 5325.2 | 87.551 | 3747.8 |
| #3 | 3128.1 | 47218. | 5308.4 | 86.306 | 3728.9 |

Sample Name: K3249-19      Acquired: 6/11/2019 16:16:31      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-HN-MW24IR      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |         |        |
|--------|---------|---------|--------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00288 | -.00049 | .00351 | .00211 | -.00244 | -.02984 | .13376 |
| Stddev | .00212  | .00032  | .00058 | .00153 | .00086  | .00654  | .00090 |
| %RSD   | 73.703  | 66.608  | 16.435 | 72.610 | 35.275  | 21.911  | .67031 |

|    |         |         |        |        |         |         |        |
|----|---------|---------|--------|--------|---------|---------|--------|
| #1 | -.00515 | -.00085 | .00368 | .00287 | -.00340 | -.03335 | .13285 |
| #2 | -.00093 | -.00039 | .00399 | .00311 | -.00217 | -.03387 | .13465 |
| #3 | -.00256 | -.00022 | .00287 | .00035 | -.00174 | -.02229 | .13377 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00017 | -.00005 | 30.083 | .00114 | .00071 | .00688 | .00101 |
| Stddev | .00003 | .00004  | .156   | .00017 | .00017 | .00051 | .00015 |
| %RSD   | 19.839 | 72.816  | .51696 | 14.649 | 24.385 | 7.4626 | 14.838 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00020 | -.00001 | 29.904 | .00133 | .00061 | .00716 | .00085 |
| #2 | .00013 | -.00008 | 30.174 | .00108 | .00090 | .00719 | .00103 |
| #3 | .00017 | -.00008 | 30.172 | .00101 | .00060 | .00629 | .00115 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00940 | 9.0762 | .00341 | .00028 | 47.867 | .00005 | .03913 |
| Stddev | .00008 | .0634  | .00030 | .00029 | .075   | .00024 | .00014 |
| %RSD   | .80405 | .69838 | 8.7503 | 105.76 | .15623 | 515.32 | .35710 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00932 | 9.0072 | .00332 | .00002 | 47.795 | -.00006 | .03929 |
| #2 | .00946 | 9.0896 | .00375 | .00060 | 47.944 | .00032  | .03910 |
| #3 | .00943 | 9.1318 | .00317 | .00021 | 47.862 | -.00012 | .03901 |

|        |        |         |        |          |        |         |         |
|--------|--------|---------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 5.8080 | -.00020 | .12064 | F 16.828 | 6.9619 | -.00930 | -.00094 |
| Stddev | .0116  | .00010  | .02078 | .052     | .0167  | .00107  | .00058  |
| %RSD   | .19942 | 48.679  | 17.224 | .30815   | .24023 | 11.448  | 62.332  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 5.7961 | -.00010 | .09786 | 16.883 | 6.9795 | -.01014 | -.00027 |
| #2 | 5.8087 | -.00021 | .13857 | 16.781 | 6.9599 | -.00811 | -.00136 |
| #3 | 5.8192 | -.00030 | .12549 | 16.818 | 6.9462 | -.00966 | -.00118 |

Sample Name: K3249-19      Acquired: 6/11/2019 16:16:31      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-HN-MW24IR      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .00434 | -.0033 | .79319 | 3.0879 | F<.00000 |
| Stddev    | .00096 | .0015  | .00388 | .0723  | .12150   |
| %RSD      | 22.059 | 45.66  | .48885 | 2.3401 | 3.7277   |
| #1        | .00340 | -.0021 | .79511 | 3.1646 | -3.1894  |
| #2        | .00532 | -.0028 | .79573 | 3.0782 | -3.3998  |
| #3        | .00430 | -.0050 | .78873 | 3.0211 | -3.1892  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3136.6 | 47099. | 5286.6 | 87.630 | 3725.1   |
| Stddev    | 5.1    | 76.    | 24.0   | 1.069  | 7.8      |
| %RSD      | .16203 | .16128 | .45383 | 1.2196 | .20840   |
| #1        | 3132.2 | 47069. | 5271.5 | 88.245 | 3718.0   |
| #2        | 3135.5 | 47043. | 5274.2 | 86.396 | 3733.4   |
| #3        | 3142.2 | 47186. | 5314.3 | 88.249 | 3723.9   |

Sample Name: K3249-07MSD      Acquired: 6/11/2019 16:20:55      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |        |
|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .73975   | 1.7953 | .88831 | 1.8308 | .85662 | 1.8640 | .31766 | .18089 |
| Stddev | .00084   | .0106  | .00451 | .0011  | .00632 | .0242  | .00170 | .00022 |
| %RSD   | .11345   | .58879 | .50781 | .06115 | .73799 | 1.2994 | .53596 | .11954 |
| #1     | .74011   | 1.8075 | .89277 | 1.8314 | .86295 | 1.8774 | .31663 | .18074 |
| #2     | .74034   | 1.7897 | .88840 | 1.8314 | .85658 | 1.8785 | .31962 | .18114 |
| #3     | .73879   | 1.7887 | .88375 | 1.8295 | .85031 | 1.8360 | .31672 | .18079 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .17384   | 26.403 | .37546 | .18589 | .30073 | 2.9145 | .21362 | 10.670 |
| Stddev | .00081   | .092   | .00050 | .00077 | .00017 | .0070  | .00070 | .115   |
| %RSD   | .46617   | .34691 | .13428 | .41321 | .05611 | .24077 | .32871 | 1.0733 |
| #1     | .17458   | 26.297 | .37602 | .18678 | .30091 | 2.9109 | .21338 | 10.556 |
| #2     | .17396   | 26.454 | .37505 | .18544 | .30059 | 2.9226 | .21441 | 10.785 |
| #3     | .17298   | 26.457 | .37532 | .18546 | .30068 | 2.9100 | .21307 | 10.668 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .45215   | .06588 | 34.767 | .28470 | .20352 | 11.624 | .45348 | .30898 |
| Stddev | .00276   | .00068 | .237   | .00090 | .00101 | .018   | .00171 | .00528 |
| %RSD   | .60950   | 1.0323 | .68183 | .31563 | .49742 | .15847 | .37661 | 1.7092 |
| #1     | .45496   | .06614 | 34.575 | .28495 | .20468 | 11.602 | .45526 | .30901 |
| #2     | .45206   | .06511 | 35.032 | .28371 | .20290 | 11.636 | .45185 | .30369 |
| #3     | .44945   | .06640 | 34.693 | .28546 | .20296 | 11.632 | .45332 | .31425 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 13.929 | 9.3150 | .72224 | .21640 | .19351 | 5.571  | .51773 | 3.6298 |
| Stddev | .102     | .0361  | .00544 | .00266 | .00256 | .027   | .00270 | .1241  |
| %RSD   | .73409   | .38768 | .75325 | 1.2300 | 1.3251 | .4906  | .52089 | 3.4197 |
| #1     | 14.047   | 9.2958 | .72782 | .21619 | .19172 | 5.598  | .51484 | 3.5470 |
| #2     | 13.878   | 9.2927 | .72195 | .21917 | .19645 | 5.572  | .52018 | 3.7725 |
| #3     | 13.862   | 9.3567 | .71695 | .21386 | .19236 | 5.544  | .51817 | 3.5699 |

Sample Name: K3249-07MSD      Acquired: 6/11/2019 16:20:55      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30 Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 4.2735 |
| Stddev | .9739  |
| %RSD   | 22.790 |

|    |        |
|----|--------|
| #1 | 4.7807 |
| #2 | 3.1506 |
| #3 | 4.8892 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3152.2 | 47848. | 5306.8 | 89.262 | 3734.7 |
| Stddev    | 12.3   | 207.   | 12.5   | 1.731  | 26.8   |
| %RSD      | .38984 | .43205 | .23602 | 1.9390 | .71641 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3138.8 | 47887. | 5320.5 | 91.260 | 3706.2 |
| #2 | 3155.1 | 47624. | 5295.9 | 88.317 | 3738.6 |
| #3 | 3162.8 | 48032. | 5304.0 | 88.210 | 3759.2 |

Sample Name: K3249-07A      Acquired: 6/11/2019 16:29:32      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |        |
|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .73174   | 1.7643 | .87584 | 1.8100 | .84984 | 1.8836 | .31722 | .17831 |
| Stddev | .00255   | .0020  | .00343 | .0037  | .00068 | .0280  | .00202 | .00110 |
| %RSD   | .34908   | .11332 | .39193 | .20146 | .07993 | 1.4870 | .63620 | .61419 |
| #1     | .73174   | 1.7642 | .87210 | 1.8065 | .84977 | 1.8548 | .31514 | .17851 |
| #2     | .73429   | 1.7663 | .87884 | 1.8097 | .85055 | 1.9108 | .31917 | .17713 |
| #3     | .72918   | 1.7623 | .87659 | 1.8137 | .84920 | 1.8851 | .31735 | .17929 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .17147   | 25.873 | .37078 | .18348 | .29701 | 2.8756 | .21109 | 10.555 |
| Stddev | .00007   | .036   | .00066 | .00063 | .00086 | .0021  | .00053 | .121   |
| %RSD   | .03864   | .13884 | .17901 | .34134 | .28797 | .07326 | .25298 | 1.1469 |
| #1     | .17141   | 25.888 | .37154 | .18291 | .29702 | 2.8732 | .21165 | 10.425 |
| #2     | .17146   | 25.832 | .37035 | .18415 | .29615 | 2.8772 | .21059 | 10.665 |
| #3     | .17154   | 25.900 | .37044 | .18337 | .29786 | 2.8763 | .21103 | 10.574 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .44623   | .06419 | 34.512 | .27933 | .20129 | 11.536 | .44872 | .30246 |
| Stddev | .00011   | .00076 | .267   | .00131 | .00037 | .111   | .00040 | .01220 |
| %RSD   | .02534   | 1.1792 | .77280 | .46776 | .18610 | .96501 | .08990 | 4.0338 |
| #1     | .44626   | .06380 | 34.313 | .27858 | .20092 | 11.408 | .44874 | .29788 |
| #2     | .44610   | .06506 | 34.815 | .27857 | .20128 | 11.600 | .44911 | .29322 |
| #3     | .44633   | .06370 | 34.408 | .28084 | .20167 | 11.602 | .44831 | .31629 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 13.755 | 9.1829 | .71300 | .21499 | .19211 | 5.504  | .51092 | 3.5568 |
| Stddev | .005     | .1234  | .00345 | .00388 | .00146 | .004   | .00522 | .0372  |
| %RSD   | .03553   | 1.3439 | .48331 | 1.8066 | .75861 | .0780  | 1.0214 | 1.0469 |
| #1     | 13.757   | 9.3247 | .70932 | .21946 | .19372 | 5.507  | .51609 | 3.5258 |
| #2     | 13.759   | 9.1237 | .71616 | .21299 | .19173 | 5.499  | .51101 | 3.5466 |
| #3     | 13.750   | 9.1002 | .71351 | .21251 | .19088 | 5.505  | .50566 | 3.5981 |

Sample Name: K3249-07A      Acquired: 6/11/2019 16:29:32      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 3.8007 |
| Stddev | .8279  |
| %RSD   | 21.783 |

|    |        |
|----|--------|
| #1 | 4.7172 |
| #2 | 3.5780 |
| #3 | 3.1070 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3162.8 | 47988. | 5383.5 | 88.242 | 3750.7 |
| Stddev    | 8.2    | 139.   | 66.7   | .391   | 4.2    |
| %RSD      | .25853 | .28945 | 1.2382 | .44291 | .11143 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3153.7 | 47963. | 5307.7 | 88.588 | 3748.6 |
| #2 | 3165.2 | 47863. | 5409.6 | 87.818 | 3748.0 |
| #3 | 3169.5 | 48137. | 5433.1 | 88.318 | 3755.5 |

Sample Name: K3249-02      Acquired: 6/11/2019 16:33:39      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |         |         |         |        |        |
|--------|---------|--------|---------|---------|---------|--------|--------|
| Elem   | As1890  | Tl1908 | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avg    | -.00009 | .00029 | -.00143 | -.00179 | -.00032 | .00426 | .00133 |
| Stddev | .00037  | .00129 | .00042  | .00145  | .00126  | .00605 | .00058 |
| %RSD   | 413.77  | 445.75 | 29.084  | 80.906  | 398.86  | 141.98 | 43.876 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | .00014  | -.00120 | -.00100 | -.00344 | .00109  | .01117  | .00190 |
| #2 | .00011  | .00107  | -.00183 | -.00118 | -.00134 | .00175  | .00073 |
| #3 | -.00051 | .00101  | -.00145 | -.00074 | -.00070 | -.00013 | .00135 |

|        |        |        |         |        |        |         |         |
|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00012 | .00016 | -.02312 | .00039 | .00016 | -.00221 | -.00197 |
| Stddev | .00003 | .00007 | .01603  | .00026 | .00014 | .00009  | .00032  |
| %RSD   | 24.389 | 40.284 | 69.347  | 66.404 | 83.109 | 3.9538  | 16.257  |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | .00011 | .00023 | -.00781 | .00048 | .00006 | -.00230 | -.00230 |
| #2 | .00016 | .00010 | -.03979 | .00059 | .00011 | -.00222 | -.00166 |
| #3 | .00010 | .00016 | -.02176 | .00010 | .00032 | -.00213 | -.00196 |

|        |         |        |        |         |        |         |        |
|--------|---------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.00006 | .01130 | .00112 | -.00019 | 3.5587 | -.00060 | .00318 |
| Stddev | .00006  | .03621 | .00009 | .00019  | .0569  | .00005  | .00006 |
| %RSD   | 109.07  | 320.55 | 7.9437 | 99.005  | 1.5985 | 8.2455  | 1.7616 |

|    |         |         |        |         |        |         |        |
|----|---------|---------|--------|---------|--------|---------|--------|
| #1 | -.00002 | .05305  | .00121 | -.00030 | 3.4955 | -.00057 | .00318 |
| #2 | -.00002 | -.00770 | .00103 | -.00029 | 3.5747 | -.00058 | .00324 |
| #3 | -.00013 | -.01146 | .00111 | .00003  | 3.6058 | -.00066 | .00312 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .01094 | -.00008 | .00979 | .13021 | .29990 | -.00591 | -.00036 |
| Stddev | .04444 | .00024  | .01429 | .00371 | .00620 | .00029  | .00039  |
| %RSD   | 406.24 | 295.47  | 146.00 | 2.8493 | 2.0676 | 4.8502  | 108.11  |

|    |         |         |         |        |        |         |         |
|----|---------|---------|---------|--------|--------|---------|---------|
| #1 | .00639  | .00006  | .02405  | .13439 | .30706 | -.00614 | .00002  |
| #2 | -.03105 | -.00036 | .00984  | .12896 | .29626 | -.00559 | -.00034 |
| #3 | .05747  | .00006  | -.00453 | .12730 | .29638 | -.00599 | -.00076 |



Sample Name: K3249-02      Acquired: 6/11/2019 16:33:39      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00340 | -.0023 | .00006 | 2.7683 | F<.00000 |
| Stddev | .00194  | .0002  | .00012 | .1033  | .74896   |
| %RSD   | 57.082  | 6.634  | 199.59 | 3.7302 | 39.278   |

|    |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|
| #1 | -.00181 | -.0025 | -.00007 | 2.7115 | -2.7712 |
| #2 | -.00556 | -.0022 | .00008  | 2.7059 | -1.4515 |
| #3 | -.00281 | -.0023 | .00016  | 2.8875 | -1.4977 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3276.6 | 49974. | 5497.3 | 92.792 | 4042.7 |
| Stddev    | 10.9   | 276.   | 55.3   | 2.205  | 15.6   |
| %RSD      | .33216 | .55296 | 1.0052 | 2.3764 | .38465 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3289.1 | 50237. | 5435.2 | 91.158 | 4057.8 |
| #2 | 3269.4 | 49686. | 5541.1 | 91.917 | 4026.7 |
| #3 | 3271.2 | 49999. | 5515.5 | 95.300 | 4043.5 |

Sample Name: K3249-03      Acquired: 6/11/2019 16:38:07      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |         |         |         |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00184 | .00025 | -.00242 | -.00111 | -.00039 | .00554 | .00110 |
| Stddev | .00294 | .00103 | .00089  | .00217  | .00147  | .00887 | .00030 |
| %RSD   | 159.73 | 420.61 | 36.884  | 195.23  | 374.15  | 160.21 | 27.623 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00060 | .00142  | -.00340 | -.00284 | -.00034 | .00947  | .00145 |
| #2 | .00102  | -.00053 | -.00164 | -.00182 | -.00189 | .01176  | .00090 |
| #3 | .00511  | -.00016 | -.00224 | .00132  | .00105  | -.00462 | .00095 |

|        |        |        |         |        |        |         |         |
|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00009 | .00015 | -.01528 | .00035 | .00002 | -.00220 | -.00167 |
| Stddev | .00002 | .00005 | .01408  | .00010 | .00008 | .00028  | .00042  |
| %RSD   | 22.423 | 35.730 | 92.122  | 29.004 | 335.51 | 12.748  | 25.047  |

|    |        |        |         |        |         |         |         |
|----|--------|--------|---------|--------|---------|---------|---------|
| #1 | .00010 | .00021 | -.02734 | .00042 | .00011  | -.00214 | -.00120 |
| #2 | .00009 | .00012 | .00019  | .00040 | -.00004 | -.00196 | -.00198 |
| #3 | .00007 | .00011 | -.01869 | .00023 | .00001  | -.00251 | -.00183 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00001 | -.01656 | .00073 | .00071 | 3.6616 | -.00073 | .00207 |
| Stddev | .00009 | .03171  | .00006 | .00027 | .0324  | .00007  | .00008 |
| %RSD   | 1133.3 | 191.54  | 8.5497 | 38.186 | .88419 | 10.145  | 3.7742 |

|    |         |         |        |        |        |         |        |
|----|---------|---------|--------|--------|--------|---------|--------|
| #1 | -.00010 | -.03547 | .00069 | .00050 | 3.6739 | -.00073 | .00215 |
| #2 | .00003  | -.03426 | .00081 | .00061 | 3.6249 | -.00080 | .00205 |
| #3 | .00008  | .02006  | .00071 | .00102 | 3.6861 | -.00065 | .00200 |

|        |        |         |         |        |        |         |        |
|--------|--------|---------|---------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00397 | -.00019 | -.00264 | .13136 | .30130 | -.00545 | .00118 |
| Stddev | .03538 | .00048  | .01676  | .00048 | .00227 | .00039  | .00071 |
| %RSD   | 891.46 | 252.83  | 634.82  | .36634 | .75231 | 7.0648  | 59.914 |

|    |         |         |         |        |        |         |        |
|----|---------|---------|---------|--------|--------|---------|--------|
| #1 | -.01960 | .00025  | -.02180 | .13152 | .29889 | -.00504 | .00050 |
| #2 | .04465  | -.00012 | .00460  | .13173 | .30161 | -.00550 | .00113 |
| #3 | -.01314 | -.00070 | .00928  | .13081 | .30339 | -.00581 | .00192 |

Sample Name: K3249-03      Acquired: 6/11/2019 16:38:07      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |         |        |          |
|--------|---------|--------|---------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077  | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm     | ppm    | ppm      |
| Avg    | -.00333 | -.0020 | -.00002 | 2.8852 | F<.00000 |
| Stddev | .00018  | .0008  | .00008  | .0256  | .59314   |
| %RSD   | 5.2661  | 42.24  | 358.05  | .88549 | 22.845   |

|    |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|
| #1 | -.00317 | -.0028 | -.00011 | 2.8912 | -2.6164 |
| #2 | -.00352 | -.0019 | .00004  | 2.8572 | -3.1793 |
| #3 | -.00329 | -.0012 | .00001  | 2.9072 | -1.9935 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3241.6 | 49239. | 5472.1 | 91.572 | 4000.5 |
| Stddev    | 21.4   | 109.   | 29.5   | 1.646  | 5.3    |
| %RSD      | .65956 | .22129 | .53986 | 1.7979 | .13172 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3221.8 | 49250. | 5503.7 | 92.417 | 3998.0 |
| #2 | 3238.6 | 49342. | 5445.1 | 92.625 | 3997.0 |
| #3 | 3264.3 | 49125. | 5467.7 | 89.675 | 4006.6 |

Sample Name: CCV05      Acquired: 6/11/2019 16:42:36      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15095      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0576 | 4.8846 | 4.8602 | 4.9928 | 5.0514 | 10.061 | 10.053 | .24527   |
| Stddev | .0115  | .0150  | .0092  | .0103  | .0098  | .073   | .048   | .00060   |
| %RSD   | .22744 | .30673 | .18922 | .20681 | .19341 | .72086 | .47255 | .24473   |
| #1     | 5.0640 | 4.8847 | 4.8627 | 5.0028 | 5.0627 | 10.133 | 10.107 | .24521   |
| #2     | 5.0646 | 4.8697 | 4.8501 | 4.9935 | 5.0464 | 9.9875 | 10.019 | .24470   |
| #3     | 5.0443 | 4.8996 | 4.8680 | 4.9822 | 5.0452 | 10.062 | 10.033 | .24590   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4081 | 24.762 | .95509 | 2.4461 | 1.2857 | 4.9365 | 2.4798 | 24.490   |
| Stddev | .0079  | .092   | .00187 | .0097  | .0013  | .0097  | .0005  | .098     |
| %RSD   | .32876 | .37209 | .19607 | .39716 | .09801 | .19558 | .01971 | .40002   |
| #1     | 2.4072 | 24.657 | .95444 | 2.4490 | 1.2843 | 4.9455 | 2.4803 | 24.596   |
| #2     | 2.4006 | 24.798 | .95363 | 2.4353 | 1.2863 | 4.9263 | 2.4793 | 24.403   |
| #3     | 2.4164 | 24.830 | .95720 | 2.4540 | 1.2866 | 4.9377 | 2.4798 | 24.472   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4016 | 1.2195 | 24.514 | 2.4405 | 2.4815 | 24.974 | 5.0513 | 4.8448   |
| Stddev | .0094  | .0013  | .092   | .0004  | .0069  | .059   | .0105  | .0171    |
| %RSD   | .39222 | .10868 | .37612 | .01773 | .27992 | .23778 | .20757 | .35219   |
| #1     | 2.4055 | 1.2205 | 24.620 | 2.4406 | 2.4829 | 25.043 | 5.0596 | 4.8273   |
| #2     | 2.3908 | 1.2180 | 24.471 | 2.4400 | 2.4740 | 24.937 | 5.0547 | 4.8458   |
| #3     | 2.4084 | 1.2199 | 24.451 | 2.4409 | 2.4877 | 24.942 | 5.0395 | 4.8614   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0181 | 4.6611 | 4.8634 | 4.9048 | 4.9151 | 5.162  | 4.9489 | F 3.9145 |
| Stddev | .0142  | .0103  | .0081  | .0043  | .0033  | .005   | .0100  | .0307    |
| %RSD   | .28367 | .22031 | .16747 | .08683 | .06760 | .1035  | .20183 | .78294   |
| #1     | 5.0140 | 4.6492 | 4.8582 | 4.8999 | 4.9142 | 5.163  | 4.9484 | 3.9413   |
| #2     | 5.0063 | 4.6673 | 4.8593 | 4.9067 | 4.9188 | 5.157  | 4.9592 | 3.9210   |
| #3     | 5.0339 | 4.6667 | 4.8728 | 4.9078 | 4.9124 | 5.167  | 4.9392 | 3.8811   |

Sample Name: CCV05      Acquired: 6/11/2019 16:42:36      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV15095      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 1.9178 |
| Stddev | 1.0615   |
| %RSD   | 55.351   |

|    |        |
|----|--------|
| #1 | 2.5926 |
| #2 | .69422 |
| #3 | 2.4666 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3148.7 | 47298. | 5402.2 | 88.011 | 3567.9 |
| Stddev    | 13.5   | 267.   | 18.0   | 1.296  | 9.4    |
| %RSD      | .42776 | .56360 | .33243 | 1.4729 | .26233 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3136.4 | 46997. | 5393.4 | 89.039 | 3558.1 |
| #2 | 3146.7 | 47395. | 5390.4 | 88.439 | 3576.7 |
| #3 | 3163.1 | 47503. | 5422.9 | 86.554 | 3569.0 |

Sample Name: CCB05      Acquired: 6/11/2019 16:46:34      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15095      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |        |         |         |        |
|--------|---------|---------|---------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00074 | -.00007 | -.00087 | .00077 | -.00027 | -.00682 | .00151 |
| Stddev | .00342  | .00099  | .00046  | .00448 | .00103  | .01700  | .00040 |
| %RSD   | 459.63  | 1351.7  | 53.252  | 582.15 | 382.31  | 249.43  | 26.164 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00350 | .00006  | -.00109 | .00581  | .00046  | .01004  | .00108 |
| #2 | .00308  | .00085  | -.00118 | -.00075 | .00018  | -.02395 | .00160 |
| #3 | -.00182 | -.00113 | -.00034 | -.00275 | -.00145 | -.00654 | .00186 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00005 | .00015 | -.00839 | .00029 | .00002 | -.00143 | .00009 |
| Stddev | .00009 | .00005 | .00427  | .00020 | .00017 | .00028  | .00037 |
| %RSD   | 175.24 | 30.811 | 50.905  | 67.559 | 942.97 | 19.636  | 429.28 |

|    |         |        |         |        |         |         |         |
|----|---------|--------|---------|--------|---------|---------|---------|
| #1 | -.00003 | .00010 | -.01316 | .00025 | .00022  | -.00140 | .00048  |
| #2 | .00004  | .00017 | -.00710 | .00050 | -.00009 | -.00117 | -.00026 |
| #3 | .00015  | .00018 | -.00492 | .00011 | -.00007 | -.00173 | .00005  |

|        |        |        |        |        |         |         |         |
|--------|--------|--------|--------|--------|---------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00001 | .00424 | .00049 | .00036 | -.05459 | -.00006 | -.00121 |
| Stddev | .00003 | .01204 | .00028 | .00015 | .00986  | .00022  | .00010  |
| %RSD   | 562.53 | 283.76 | 56.484 | 42.387 | 18.063  | 345.94  | 8.0771  |

|    |         |         |        |        |         |         |         |
|----|---------|---------|--------|--------|---------|---------|---------|
| #1 | -.00002 | .01813  | .00017 | .00029 | -.06404 | .00017  | -.00109 |
| #2 | -.00000 | -.00238 | .00061 | .00026 | -.05535 | -.00010 | -.00126 |
| #3 | .00004  | -.00303 | .00069 | .00054 | -.04437 | -.00026 | -.00126 |

|        |         |        |        |        |         |         |        |
|--------|---------|--------|--------|--------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.04286 | .00054 | .01974 | .00078 | -.00368 | -.00349 | .00022 |
| Stddev | .01043  | .00021 | .01211 | .00106 | .00197  | .00093  | .00074 |
| %RSD   | 24.334  | 40.110 | 61.361 | 135.86 | 53.477  | 26.789  | 334.82 |

|    |         |        |        |         |         |         |         |
|----|---------|--------|--------|---------|---------|---------|---------|
| #1 | -.05321 | .00073 | .01909 | .00165  | -.00180 | -.00454 | .00103  |
| #2 | -.04304 | .00031 | .03216 | .00110  | -.00352 | -.00276 | .00006  |
| #3 | -.03235 | .00057 | .00796 | -.00040 | -.00573 | -.00316 | -.00043 |

Sample Name: CCB05      Acquired: 6/11/2019 16:46:34      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCB15095      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00300 | -.0038 | .00007 | F 2.4522 | F<.00000 |
| Stddev | .00080  | .0021  | .00005 | .1218    | .54326   |
| %RSD   | 26.791  | 55.35  | 66.141 | 4.9660   | 34.526   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00290 | -.0053 | .00002 | 2.5871 | -1.5106 |
| #2 | -.00226 | -.0047 | .00011 | 2.3503 | -1.0644 |
| #3 | -.00386 | -.0014 | .00007 | 2.4193 | -2.1455 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3293.7 | 49865. | 5485.1 | 90.475 | 3980.5 |
| Stddev    | 12.1   | 113.   | 52.4   | 1.849  | 6.6    |
| %RSD      | .36854 | .22692 | .95564 | 2.0437 | .16507 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3302.6 | 49744. | 5455.0 | 89.058 | 3981.4 |
| #2 | 3279.9 | 49968. | 5454.6 | 89.800 | 3973.6 |
| #3 | 3298.7 | 49883. | 5545.6 | 92.567 | 3986.6 |

Sample Name: K3163-05      Acquired: 6/11/2019 16:51:03      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |         |         |
|--------|--------|---------|--------|---------|---------|--------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     |
| Avg    | .03061 | -.06271 | .43992 | -.03465 | -.00055 | 201.24 | .90818  | .02637  |
| Stddev | .00243 | .00190  | .00391 | .00360  | .00202  | .49    | .00469  | .00004  |
| %RSD   | 7.9463 | 3.0310  | .88955 | 10.390  | 370.79  | .24402 | .51597  | .13531  |
| #1     | .03292 | -.06081 | .43676 | -.03404 | -.00240 | 201.61 | .91149  | .02639  |
| #2     | .03083 | -.06271 | .43869 | -.03139 | .00161  | 200.68 | .90282  | .02633  |
| #3     | .02807 | -.06461 | .44429 | -.03852 | -.00086 | 201.42 | .91022  | .02639  |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     |
| Avg    | .01158 | 110.31  | .19202 | .26228  | .74004  | 288.96 | 6.7902  | 53.619  |
| Stddev | .00065 | .68     | .00065 | .00125  | .00146  | 1.44   | .0019   | .093    |
| %RSD   | 5.5828 | .61945  | .33629 | .47479  | .19664  | .49847 | .02821  | .17316  |
| #1     | .01128 | 110.45  | .19259 | .26161  | .73911  | 289.70 | 6.7889  | 53.515  |
| #2     | .01113 | 110.91  | .19131 | .26152  | .74172  | 289.88 | 6.7893  | 53.694  |
| #3     | .01232 | 109.57  | .19215 | .26372  | .73930  | 287.30 | 6.7924  | 53.647  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     |
| Avg    | .18510 | -.02571 | 10.380 | .95019  | .87134  | 7.7948 | -.00240 | .12547  |
| Stddev | .00066 | .00017  | .044   | .00168  | .00356  | .0454  | .00021  | .01702  |
| %RSD   | .35686 | .66414  | .42643 | .17690  | .40859  | .58246 | 8.8156  | 13.567  |
| #1     | .18475 | -.02567 | 10.431 | .95198  | .86954  | 7.8286 | -.00216 | .14238  |
| #2     | .18469 | -.02556 | 10.352 | .94865  | .86904  | 7.7432 | -.00252 | .10834  |
| #3     | .18586 | -.02590 | 10.357 | .94994  | .87544  | 7.8127 | -.00254 | .12570  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     |
| Avg    | 4.2947 | 1.6053  | .02174 | 5.1513  | .13640  | 8.369  | -.08158 | <.00000 |
| Stddev | .0278  | .0053   | .00033 | .0055   | .00030  | .024   | .00117  | .09491  |
| %RSD   | .64614 | .33279  | 1.5102 | .10725  | .21992  | .2848  | 1.4337  | 4.7314  |
| #1     | 4.2906 | 1.6050  | .02210 | 5.1456  | .13637  | 8.368  | -.08266 | -2.0123 |
| #2     | 4.2692 | 1.6108  | .02146 | 5.1566  | .13672  | 8.345  | -.08172 | -2.0975 |
| #3     | 4.3243 | 1.6001  | .02167 | 5.1517  | .13612  | 8.393  | -.08034 | -1.9080 |



Sample Name: K3163-05      Acquired: 6/11/2019 16:51:03      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 542.82 |
| Stddev | 2.56     |
| %RSD   | .47104   |

|    |        |
|----|--------|
| #1 | 541.06 |
| #2 | 541.64 |
| #3 | 545.75 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3811.3 | 58219. | 6951.3 | 83.828 | 3338.4 |
| Stddev    | 1.9    | 73.    | 47.8   | 2.267  | 9.9    |
| %RSD      | .04935 | .12547 | .68692 | 2.7038 | .29779 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3812.5 | 58136. | 6960.1 | 81.214 | 3342.5 |
| #2 | 3812.3 | 58273. | 6899.7 | 85.021 | 3345.6 |
| #3 | 3809.1 | 58247. | 6994.0 | 85.249 | 3327.1 |

Sample Name: K3163-07      Acquired: 6/11/2019 16:55:37      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
 Comment:

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .03479 | -.04903 | .46001 | -.01504 | -.00246 | 134.06  | .73123  | .01724  |
| Stddev | .00346 | .00231  | .00066 | .00271  | .00095  | .59     | .00258  | .00019  |
| %RSD   | 9.9386 | 4.7170  | .14390 | 18.021  | 38.556  | .43814  | .35301  | 1.1011  |
| #1     | .03514 | -.05155 | .45982 | -.01191 | -.00195 | 133.45  | .72913  | .01740  |
| #2     | .03117 | -.04700 | .46075 | -.01667 | -.00188 | 134.12  | .73045  | .01728  |
| #3     | .03805 | -.04855 | .45947 | -.01655 | -.00356 | 134.62  | .73411  | .01703  |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00564 | 88.404  | .23621 | .16142  | .55307  | 207.58  | 5.0898  | 45.500  |
| Stddev | .00008 | .312    | .00047 | .00042  | .00372  | .22     | .0235   | .216    |
| %RSD   | 1.4802 | .35271  | .19844 | .26189  | .67315  | .10733  | .46109  | .47366  |
| #1     | .00565 | 88.461  | .23655 | .16150  | .55698  | 207.57  | 5.1165  | 45.300  |
| #2     | .00555 | 88.067  | .23640 | .16096  | .54957  | 207.81  | 5.0723  | 45.471  |
| #3     | .00572 | 88.683  | .23568 | .16180  | .55267  | 207.37  | 5.0807  | 45.728  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .19616 | -.01506 | 5.7593 | .39666  | .75060  | 10.238  | .00255  | .10138  |
| Stddev | .00094 | .00024  | .0170  | .00172  | .00563  | .074    | .00044  | .01006  |
| %RSD   | .47766 | 1.6009  | .29527 | .43272  | .75008  | .72586  | 17.290  | 9.9197  |
| #1     | .19548 | -.01478 | 5.7450 | .39852  | .74439  | 10.167  | .00301  | .11268  |
| #2     | .19576 | -.01518 | 5.7547 | .39631  | .75206  | 10.231  | .00250  | .09807  |
| #3     | .19723 | -.01521 | 5.7781 | .39514  | .75536  | 10.315  | .00214  | .09340  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 5.7139 | 1.4082  | .01678 | 4.1796  | .13606  | F 11.66 | -.03666 | <.00000 |
| Stddev | .0119  | .0135   | .00109 | .0113   | .00147  | .03     | .00124  | .17450  |
| %RSD   | .20890 | .95585  | 6.4963 | .26924  | 1.0790  | .2265   | 3.3854  | 7.6901  |
| #1     | 5.7109 | 1.4229  | .01738 | 4.1813  | .13763  | 11.63   | -.03617 | -2.4590 |
| #2     | 5.7037 | 1.3966  | .01552 | 4.1676  | .13584  | 11.68   | -.03807 | -2.2328 |
| #3     | 5.7270 | 1.4051  | .01743 | 4.1899  | .13472  | 11.68   | -.03573 | -2.1158 |

Sample Name: K3163-07      Acquired: 6/11/2019 16:55:37      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 344.38 |
| Stddev | 3.81     |
| %RSD   | 1.1072   |

|    |        |
|----|--------|
| #1 | 343.05 |
| #2 | 348.68 |
| #3 | 341.41 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3997.0 | 61076. | 7233.9 | 86.209 | 3443.4 |
| Stddev    | 6.2    | 170.   | 56.9   | .989   | 20.5   |
| %RSD      | .15575 | .27759 | .78640 | 1.1478 | .59634 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3990.0 | 60882. | 7175.3 | 85.236 | 3466.3 |
| #2 | 3999.3 | 61153. | 7288.9 | 87.214 | 3437.4 |
| #3 | 4001.9 | 61193. | 7237.4 | 86.176 | 3426.6 |

Sample Name: K3163-07DUP      Acquired: 6/11/2019 17:00:11      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .03706 | -.04808 | .45967 | -.01168 | -.00202 | 133.80  | .73283  | .01722  |
| Stddev | .00207 | .00203  | .00200 | .00193  | .00152  | .65     | .00468  | .00041  |
| %RSD   | 5.5878 | 4.2317  | .43444 | 16.481  | 75.118  | .48669  | .63912  | 2.4042  |
| #1     | .03481 | -.04977 | .45771 | -.01089 | -.00227 | 133.29  | .72820  | .01689  |
| #2     | .03751 | -.04864 | .45960 | -.01388 | -.00339 | 133.58  | .73274  | .01710  |
| #3     | .03887 | -.04582 | .46170 | -.01028 | -.00039 | 134.53  | .73757  | .01768  |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00569 | 88.403  | .23840 | .16075  | .55337  | 208.54  | 5.1508  | 45.179  |
| Stddev | .00021 | .505    | .00118 | .00016  | .00038  | 2.57    | .0182   | .302    |
| %RSD   | 3.7361 | .57167  | .49321 | .10096  | .06890  | 1.2318  | .35343  | .66946  |
| #1     | .00592 | 87.890  | .23891 | .16060  | .55347  | 205.59  | 5.1716  | 44.990  |
| #2     | .00549 | 88.901  | .23924 | .16072  | .55295  | 210.27  | 5.1429  | 45.020  |
| #3     | .00567 | 88.418  | .23706 | .16092  | .55369  | 209.76  | 5.1378  | 45.528  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .19664 | -.01564 | 5.7322 | .39821  | .75234  | 10.179  | .00287  | .10568  |
| Stddev | .00095 | .00017  | .0484  | .00049  | .00246  | .096    | .00046  | .00992  |
| %RSD   | .48332 | 1.0768  | .84396 | .12425  | .32645  | .94218  | 16.118  | 9.3877  |
| #1     | .19615 | -.01578 | 5.7155 | .39797  | .75516  | 10.076  | .00301  | .09692  |
| #2     | .19604 | -.01567 | 5.6943 | .39789  | .75065  | 10.266  | .00324  | .11645  |
| #3     | .19774 | -.01545 | 5.7867 | .39878  | .75122  | 10.195  | .00235  | .10366  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 5.5525 | 1.4260  | .01747 | 4.2018  | .13697  | F 11.51 | -.03619 | <.00000 |
| Stddev | .0088  | .0099   | .00086 | .0124   | .00084  | .02     | .00321  | .09200  |
| %RSD   | .15852 | .69416  | 4.9429 | .29519  | .61133  | .2087   | 8.8712  | 4.0734  |
| #1     | 5.5527 | 1.4325  | .01647 | 4.1900  | .13747  | 11.53   | -.03251 | -2.2491 |
| #2     | 5.5612 | 1.4309  | .01804 | 4.2147  | .13600  | 11.52   | -.03766 | -2.3550 |
| #3     | 5.5436 | 1.4146  | .01788 | 4.2008  | .13743  | 11.48   | -.03840 | -2.1717 |

Sample Name: K3163-07DUP      Acquired: 6/11/2019 17:00:11      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SU-04-060719 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 342.50 |
| Stddev | 1.19     |
| %RSD   | .34697   |

|    |        |
|----|--------|
| #1 | 343.72 |
| #2 | 341.35 |
| #3 | 342.43 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3979.6 | 60871. | 7177.9 | 87.502 | 3443.0 |
| Stddev    | 7.8    | 83.    | 56.5   | 1.993  | 9.3    |
| %RSD      | .19633 | .13684 | .78758 | 2.2779 | .27111 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3974.0 | 60965. | 7150.7 | 85.398 | 3434.4 |
| #2 | 3988.5 | 60846. | 7140.1 | 89.362 | 3452.9 |
| #3 | 3976.1 | 60804. | 7242.9 | 87.747 | 3441.8 |

Sample Name: K3163-07LX5      Acquired: 6/11/2019 17:04:45      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .01358 | -.00883 | .09271 | .00077 | .00031 | 32.221 | .18149 | .00370 |
| Stddev | .00603 | .00101  | .00016 | .00200 | .00070 | .162   | .00083 | .00002 |
| %RSD   | 44.382 | 11.460  | .17263 | 259.35 | 230.32 | .50371 | .45930 | .44511 |

|    |        |         |        |         |         |        |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|--------|
| #1 | .00680 | -.00948 | .09254 | .00215  | -.00050 | 32.188 | .18164 | .00368 |
| #2 | .01833 | -.00933 | .09274 | .00169  | .00065  | 32.397 | .18224 | .00371 |
| #3 | .01562 | -.00766 | .09286 | -.00152 | .00077  | 32.078 | .18059 | .00371 |

|        |         |        |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00164 | 24.626 | .06158 | .03283 | .14457 | 63.708 | 1.3675 | 11.372 |
| Stddev | .00007  | .123   | .00043 | .00015 | .00061 | .047   | .0008  | .084   |
| %RSD   | 4.2869  | .49783 | .70107 | .44306 | .42397 | .07393 | .05857 | .74123 |

|    |         |        |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|--------|
| #1 | -.00167 | 24.537 | .06150 | .03299 | .14516 | 63.654 | 1.3680 | 11.341 |
| #2 | -.00170 | 24.765 | .06204 | .03271 | .14462 | 63.737 | 1.3666 | 11.309 |
| #3 | -.00156 | 24.575 | .06119 | .03280 | .14394 | 63.733 | 1.3680 | 11.468 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03982 | -.00240 | 1.3488 | .10128 | .14587 | 2.4683 | .00046 | .04848 |
| Stddev | .00061 | .00015  | .0041  | .00058 | .00029 | .0056  | .00008 | .00951 |
| %RSD   | 1.5374 | 6.3255  | .30277 | .57505 | .19725 | .22515 | 16.813 | 19.617 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .03916 | -.00252 | 1.3536 | .10066 | .14583 | 2.4719 | .00052 | .03830 |
| #2 | .04038 | -.00223 | 1.3466 | .10181 | .14561 | 2.4619 | .00050 | .05713 |
| #3 | .03991 | -.00245 | 1.3463 | .10138 | .14618 | 2.4711 | .00037 | .05002 |

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 1.1316 | .37617 | .00023 | 1.0806 | .03233 | 2.347  | -.02040 | 1.9224 |
| Stddev | .0069  | .00468 | .00095 | .0017  | .00061 | .010   | .00024  | .0354  |
| %RSD   | .61036 | 1.2452 | 406.60 | .15802 | 1.8921 | .4232  | 1.1801  | 1.8414 |

|    |        |        |         |        |        |       |         |        |
|----|--------|--------|---------|--------|--------|-------|---------|--------|
| #1 | 1.1236 | .37730 | -.00002 | 1.0811 | .03162 | 2.354 | -.02066 | 1.8892 |
| #2 | 1.1358 | .38019 | .00129  | 1.0820 | .03265 | 2.335 | -.02019 | 1.9597 |
| #3 | 1.1354 | .37103 | -.00057 | 1.0787 | .03271 | 2.350 | -.02034 | 1.9183 |

Sample Name: K3163-07LX5      Acquired: 6/11/2019 17:04:45      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 63.165 |
| Stddev | 1.507  |
| %RSD   | 2.3866 |

|    |        |
|----|--------|
| #1 | 61.458 |
| #2 | 63.724 |
| #3 | 64.313 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3399.0 | 51686. | 5868.6 | 88.557 | 3751.9 |
| Stddev    | 8.5    | 204.   | 43.6   | 1.228  | 6.4    |
| %RSD      | .24938 | .39548 | .74223 | 1.3865 | .17142 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3389.3 | 51469. | 5869.7 | 87.550 | 3744.8 |
| #2 | 3404.9 | 51712. | 5824.5 | 88.197 | 3757.4 |
| #3 | 3402.8 | 51876. | 5911.6 | 89.925 | 3753.3 |

Sample Name: K3163-07MS      Acquired: 6/11/2019 17:09:13      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |         |
|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .62870 | 1.8655 | 1.4519 | 1.4392 | .09529 | 148.64  | .92332 | .16470  |
| Stddev | .00654 | .0115  | .0052  | .0065  | .00185 | .67     | .00491 | .00023  |
| %RSD   | 1.0398 | .61848 | .35828 | .45442 | 1.9378 | .45410  | .53175 | .13958  |
| #1     | .63242 | 1.8661 | 1.4491 | 1.4461 | .09326 | 148.02  | .91905 | .16480  |
| #2     | .63253 | 1.8537 | 1.4487 | 1.4384 | .09576 | 149.36  | .92868 | .16443  |
| #3     | .62115 | 1.8768 | 1.4579 | 1.4331 | .09686 | 148.54  | .92222 | .16485  |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .19881 | 93.163 | .52193 | .37436 | .79478 | 212.59  | 5.6140 | 49.331  |
| Stddev | .00069 | .152   | .00044 | .00115 | .00283 | .33     | .0360  | .176    |
| %RSD   | .34852 | .16267 | .08357 | .30639 | .35639 | .15442  | .64069 | .35747  |
| #1     | .19872 | 93.201 | .52213 | .37450 | .79794 | 212.72  | 5.5732 | 49.178  |
| #2     | .19816 | 92.996 | .52223 | .37314 | .79394 | 212.22  | 5.6412 | 49.524  |
| #3     | .19954 | 93.291 | .52143 | .37542 | .79247 | 212.84  | 5.6277 | 49.291  |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .70822 | .03842 | 8.5260 | .64035 | 1.0153 | 17.801  | .29079 | .29891  |
| Stddev | .00096 | .00074 | .0421  | .00160 | .0054  | .067    | .00067 | .01249  |
| %RSD   | .13562 | 1.9160 | .49369 | .24951 | .52830 | .37904  | .22904 | 4.1797  |
| #1     | .70761 | .03782 | 8.5186 | .64219 | 1.0093 | 17.754  | .29143 | .31325  |
| #2     | .70772 | .03820 | 8.5713 | .63947 | 1.0172 | 17.879  | .29010 | .29308  |
| #3     | .70932 | .03924 | 8.4881 | .63939 | 1.0195 | 17.771  | .29085 | .29040  |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | 5.2581 | 1.7739 | .64383 | 4.8356 | .29873 | F 19.60 | .12445 | <.00000 |
| Stddev | .0091  | .0089  | .00144 | .0136  | .00116 | .11     | .00090 | .08031  |
| %RSD   | .17288 | .50085 | .22359 | .28150 | .38721 | .5388   | .72695 | 3.3159  |
| #1     | 5.2629 | 1.7760 | .64457 | 4.8394 | .29934 | 19.48   | .12343 | -2.4017 |
| #2     | 5.2477 | 1.7642 | .64217 | 4.8205 | .29945 | 19.62   | .12516 | -2.3539 |
| #3     | 5.2638 | 1.7816 | .64474 | 4.8470 | .29740 | 19.69   | .12478 | -2.5106 |



Sample Name: K3163-07MS      Acquired: 6/11/2019 17:09:13      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SU-04-060719 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 368.03 |
| Stddev | 2.27     |
| %RSD   | .61803   |

|    |        |
|----|--------|
| #1 | 368.45 |
| #2 | 365.57 |
| #3 | 370.06 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 4054.0 | 62044. | 7259.0 | 86.006 | 3385.4 |
| Stddev    | 10.2   | 92.    | 23.4   | 1.172  | 20.7   |
| %RSD      | .25246 | .14777 | .32167 | 1.3629 | .61128 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 4058.2 | 62096. | 7248.5 | 87.321 | 3408.6 |
| #2 | 4042.4 | 61938. | 7285.8 | 85.627 | 3378.8 |
| #3 | 4061.5 | 62098. | 7242.8 | 85.070 | 3368.8 |

Sample Name: K3163-07MSD      Acquired: 6/11/2019 17:13:41      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SU-04-060719      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |         |
|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .62496 | 1.8594 | 1.4429 | 1.4264 | .09638 | 147.89  | .91745 | .16278  |
| Stddev | .00628 | .0060  | .0030  | .0021  | .00129 | .71     | .00348 | .00046  |
| %RSD   | 1.0054 | .32468 | .20785 | .14845 | 1.3356 | .47760  | .37925 | .28338  |
| #1     | .61772 | 1.8606 | 1.4422 | 1.4284 | .09493 | 147.08  | .91402 | .16270  |
| #2     | .62901 | 1.8529 | 1.4403 | 1.4268 | .09681 | 148.35  | .92098 | .16236  |
| #3     | .62815 | 1.8648 | 1.4462 | 1.4242 | .09739 | 148.24  | .91735 | .16328  |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .19776 | 92.580 | .51336 | .37197 | .78712 | 209.60  | 5.5870 | 48.035  |
| Stddev | .00066 | .318   | .00211 | .00129 | .00159 | 1.46    | .0271  | .244    |
| %RSD   | .33579 | .34395 | .41106 | .34766 | .20173 | .69715  | .48440 | .50751  |
| #1     | .19711 | 92.790 | .51532 | .37095 | .78894 | 210.65  | 5.5730 | 47.826  |
| #2     | .19773 | 92.737 | .51113 | .37153 | .78602 | 210.23  | 5.6182 | 48.303  |
| #3     | .19844 | 92.214 | .51363 | .37343 | .78641 | 207.93  | 5.5698 | 47.976  |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .69946 | .03846 | 8.4250 | .63333 | 1.0130 | 17.698  | .28957 | .29650  |
| Stddev | .00122 | .00037 | .0389  | .00058 | .0059  | .063    | .00077 | .00811  |
| %RSD   | .17454 | .96918 | .46182 | .09220 | .57816 | .35494  | .26686 | 2.7352  |
| #1     | .69848 | .03845 | 8.3816 | .63346 | 1.0096 | 17.649  | .29021 | .30444  |
| #2     | .69906 | .03809 | 8.4565 | .63384 | 1.0096 | 17.768  | .28978 | .29685  |
| #3     | .70083 | .03884 | 8.4370 | .63269 | 1.0198 | 17.675  | .28871 | .28823  |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | 5.4639 | 1.6984 | .64017 | 4.7397 | .29554 | F 20.09 | .11976 | <.00000 |
| Stddev | .0173  | .0075  | .00308 | .0090  | .00079 | .12     | .00155 | .02017  |
| %RSD   | .31585 | .44352 | .48130 | .18945 | .26656 | .6075   | 1.2977 | .84108  |
| #1     | 5.4779 | 1.7066 | .63682 | 4.7340 | .29567 | 20.00   | .11886 | -2.3962 |
| #2     | 5.4446 | 1.6919 | .64078 | 4.7352 | .29470 | 20.05   | .11887 | -2.3785 |
| #3     | 5.4692 | 1.6966 | .64289 | 4.7501 | .29626 | 20.23   | .12156 | -2.4187 |

Sample Name: K3163-07MSD      Acquired: 6/11/2019 17:13:41      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SU-04-060719 Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 364.91  
Stddev      1.24  
%RSD      .33869

#1      364.59  
#2      363.87  
#3      366.27

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 4066.1 | 62523. | 7371.6 | 85.982 | 3397.3 |
| Stddev    | 9.5    | 154.   | 49.2   | .610   | 17.3   |
| %RSD      | .23380 | .24664 | .66724 | .70939 | .50862 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 4061.5 | 62392. | 7314.9 | 85.423 | 3407.7 |
| #2 | 4077.0 | 62484. | 7402.8 | 86.632 | 3406.9 |
| #3 | 4059.7 | 62693. | 7397.1 | 85.890 | 3377.4 |

Sample Name: K3163-07A      Acquired: 6/11/2019 17:18:08      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CRI      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |         |
|--------|--------|--------|--------|--------|--------|---------|--------|---------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .63655 | 1.8850 | 1.4705 | 1.4478 | .09618 | 149.64  | .92985 | .16539  |
| Stddev | .00416 | .0235  | .0153  | .0076  | .00093 | 1.22    | .00621 | .00065  |
| %RSD   | .65317 | 1.2460 | 1.0384 | .52832 | .96968 | .81530  | .66838 | .39249  |
| #1     | .64056 | 1.8610 | 1.4545 | 1.4524 | .09690 | 149.29  | .92986 | .16466  |
| #2     | .63681 | 1.9080 | 1.4849 | 1.4519 | .09651 | 151.00  | .93605 | .16560  |
| #3     | .63226 | 1.8859 | 1.4720 | 1.4389 | .09512 | 148.64  | .92362 | .16590  |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .20155 | 93.042 | .52119 | .37896 | .80354 | 214.03  | 5.6338 | 49.442  |
| Stddev | .00170 | 1.840  | .00218 | .00291 | .00320 | 1.19    | .0350  | .348    |
| %RSD   | .84222 | 1.9781 | .41856 | .76722 | .39853 | .55744  | .62185 | .70470  |
| #1     | .19998 | 92.433 | .51868 | .37582 | .80413 | 212.95  | 5.6352 | 49.290  |
| #2     | .20335 | 95.110 | .52265 | .38156 | .80641 | 215.31  | 5.6682 | 49.840  |
| #3     | .20133 | 91.583 | .52223 | .37950 | .80009 | 213.83  | 5.5981 | 49.195  |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .71171 | .03913 | 8.5135 | .63589 | 1.0287 | 17.879  | .29635 | .28957  |
| Stddev | .00654 | .00090 | .0493  | .00113 | .0071  | .108    | .00103 | .01157  |
| %RSD   | .91836 | 2.3083 | .57933 | .17722 | .69413 | .60356  | .34894 | 3.9970  |
| #1     | .70470 | .03862 | 8.5190 | .63488 | 1.0205 | 17.882  | .29616 | .27621  |
| #2     | .71763 | .04017 | 8.5598 | .63569 | 1.0329 | 17.986  | .29747 | .29596  |
| #3     | .71280 | .03859 | 8.4616 | .63711 | 1.0327 | 17.770  | .29543 | .29654  |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | 5.3227 | 1.7850 | .64881 | 4.8722 | .30179 | F 19.60 | .12192 | <.00000 |
| Stddev | .0546  | .0370  | .00723 | .1493  | .01003 | .15     | .00963 | .06053  |
| %RSD   | 1.0251 | 2.0735 | 1.1136 | 3.0649 | 3.3249 | .7788   | 7.9014 | 2.7131  |
| #1     | 5.2739 | 1.7787 | .64298 | 4.8393 | .29960 | 19.42   | .12098 | -2.1760 |
| #2     | 5.3816 | 1.8247 | .65690 | 5.0352 | .31274 | 19.68   | .13199 | -2.2214 |
| #3     | 5.3125 | 1.7515 | .64656 | 4.7420 | .29304 | 19.69   | .11279 | -2.2959 |

Sample Name: K3163-07A      Acquired: 6/11/2019 17:18:08      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CRI      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 375.28  
Stddev      .75  
%RSD      .20023

#1      374.64  
#2      376.11  
#3      375.10

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 4016.8 | 62056. | 7294.2 | 84.864 | 3362.5 |
| Stddev    | 1.6    | 55.    | 164.3  | 5.126  | 25.5   |
| %RSD      | .04038 | .08894 | 2.2520 | 6.0402 | .75855 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 4017.7 | 62113. | 7330.2 | 84.330 | 3392.0 |
| #2 | 4017.7 | 62004. | 7115.0 | 80.026 | 3346.6 |
| #3 | 4014.9 | 62050. | 7437.5 | 90.236 | 3349.1 |

Sample Name: K3252-04      Acquired: 6/11/2019 17:22:35      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK11-CONTAIN      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |        |         |        |        |
|--------|--------|---------|---------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00586 | -.03500 | -.01487 | .03453 | -.00709 | 7.7531 | .00833 |
| Stddev | .00079 | .00129  | .00099  | .00145 | .00075  | .0686  | .00039 |
| %RSD   | 13.434 | 3.6900  | 6.6365  | 4.1940 | 10.639  | .88443 | 4.6420 |

|    |        |         |         |        |         |        |        |
|----|--------|---------|---------|--------|---------|--------|--------|
| #1 | .00498 | -.03382 | -.01482 | .03614 | -.00735 | 7.7818 | .00865 |
| #2 | .00650 | -.03638 | -.01588 | .03332 | -.00625 | 7.6748 | .00790 |
| #3 | .00609 | -.03480 | -.01390 | .03415 | -.00769 | 7.8026 | .00845 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00071 | -.00355 | 14.892 | .50711 | .76846 | .13856 | 4.0021 |
| Stddev | .00003 | .00007  | .034   | .00295 | .00118 | .00121 | .0100  |
| %RSD   | 3.6048 | 1.9399  | .23155 | .58151 | .15315 | .87073 | .24852 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00070 | -.00349 | 14.911 | .51048 | .76732 | .13995 | 4.0121 |
| #2 | .00074 | -.00354 | 14.913 | .50499 | .76967 | .13785 | 3.9922 |
| #3 | .00069 | -.00362 | 14.853 | .50586 | .76838 | .13787 | 4.0019 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21009 | 5.3419 | 3.7348 | .02226 | 195.84 | .00029 | .43437 |
| Stddev | .00085 | .0515  | .0134  | .00057 | .51    | .00014 | .00066 |
| %RSD   | .40379 | .96345 | .35933 | 2.5459 | .26003 | 47.839 | .15148 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21086 | 5.3621 | 3.7245 | .02257 | 195.51 | .00030 | .43491 |
| #2 | .21023 | 5.3802 | 3.7500 | .02161 | 196.43 | .00015 | .43456 |
| #3 | .20918 | 5.2834 | 3.7299 | .02261 | 195.59 | .00043 | .43364 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 4.1659 | .68512 | .35012 | F 22.804 | 1.0340 | -.00376 | .57483 |
| Stddev | .0062  | .00104 | .01183 | .048     | .0056  | .00138  | .00286 |
| %RSD   | .14866 | .15167 | 3.3780 | .21142   | .54195 | 36.686  | .49825 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 4.1597 | .68392 | .35974 | 22.786 | 1.0371 | -.00428 | .57807 |
| #2 | 4.1721 | .68568 | .33692 | 22.859 | 1.0373 | -.00480 | .57263 |
| #3 | 4.1658 | .68577 | .35371 | 22.768 | 1.0275 | -.00219 | .57378 |

Sample Name: K3252-04      Acquired: 6/11/2019 17:22:35      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TK11-CONTAIN      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00340 | 1.783  | .23136 | 3.8154 | F<.00000 |
| Stddev | .00064 | .011   | .00155 | .0960  | .37522   |
| %RSD   | 18.817 | .6153  | .67118 | 2.5154 | 22.531   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .00296 | 1.789 | .22988 | 3.7055 | -1.4758 |
| #2 | .00413 | 1.790 | .23298 | 3.8580 | -2.0976 |
| #3 | .00310 | 1.771 | .23120 | 3.8828 | -1.4228 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3067.6 | 47358. | 5593.4 | 88.085 | 3483.5 |
| Stddev    | 2.8    | 268.   | 45.3   | 2.216  | 9.0    |
| %RSD      | .09269 | .56597 | .80911 | 2.5161 | .25916 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3064.4 | 47060. | 5564.9 | 90.315 | 3484.6 |
| #2 | 3070.0 | 47433. | 5569.7 | 85.883 | 3473.9 |
| #3 | 3068.3 | 47580. | 5645.6 | 88.058 | 3491.9 |

Sample Name: K3252-05      Acquired: 6/11/2019 17:26:48      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK13-CONTAIN      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01751 | -.04003 | .00877 | .05047 | -.03332 | 2.9795 | .33741 | .00128 |
| Stddev | .00357 | .00096  | .00111 | .00341 | .00119  | .0198  | .00306 | .00009 |
| %RSD   | 20.398 | 2.4035  | 12.626 | 6.7565 | 3.5690  | .66508 | .90581 | 7.1787 |

|    |        |         |        |        |         |        |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|--------|
| #1 | .02157 | -.04080 | .00757 | .05414 | -.03392 | 2.9597 | .33548 | .00117 |
| #2 | .01613 | -.04033 | .00898 | .04985 | -.03408 | 2.9993 | .34093 | .00132 |
| #3 | .01484 | -.03895 | .00975 | .04741 | -.03195 | 2.9794 | .33581 | .00134 |

|        |         |        |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00454 | 234.06 | .81019 | .64525 | .14786 | 14.802 | .14510 | 1.9858 |
| Stddev | .00005  | 1.58   | .00300 | .00196 | .00154 | .023   | .00051 | .0163  |
| %RSD   | 1.1586  | .67310 | .37009 | .30434 | 1.0442 | .15305 | .34866 | .81920 |

|    |         |        |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|--------|
| #1 | -.00458 | 233.44 | .80941 | .64303 | .14842 | 14.776 | .14470 | 1.9704 |
| #2 | -.00448 | 232.88 | .81350 | .64676 | .14904 | 14.818 | .14567 | 2.0028 |
| #3 | -.00456 | 235.85 | .80766 | .64597 | .14611 | 14.812 | .14493 | 1.9840 |

|        |        |        |        |         |        |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 3.6504 | .09035 | 14.424 | -.00807 | .25341 | 2.9132 | 2.5488 | .76134 |
| Stddev | .0310  | .00038 | .067   | .00024  | .00009 | .0302  | .0143  | .00934 |
| %RSD   | .84972 | .41925 | .46147 | 2.9641  | .03742 | 1.0366 | .55964 | 1.2271 |

|    |        |        |        |         |        |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|--------|
| #1 | 3.6146 | .08992 | 14.434 | -.00794 | .25332 | 2.8933 | 2.5328 | .75984 |
| #2 | 3.6680 | .09055 | 14.485 | -.00835 | .25351 | 2.9479 | 2.5601 | .77134 |
| #3 | 3.6686 | .09059 | 14.353 | -.00792 | .25340 | 2.8983 | 2.5535 | .75283 |

|        |          |        |         |        |        |        |        |        |
|--------|----------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 319.16 | .66101 | -.08970 | .86079 | .00227 | 1.757  | .18857 | 3.9182 |
| Stddev | 2.14     | .00172 | .00013  | .00529 | .00173 | .006   | .00056 | .0902  |
| %RSD   | .67171   | .26053 | .14301  | .61419 | 76.442 | .3534  | .29686 | 2.3011 |

|    |        |        |         |        |        |       |        |        |
|----|--------|--------|---------|--------|--------|-------|--------|--------|
| #1 | 316.74 | .66005 | -.08956 | .85494 | .00028 | 1.751 | .18795 | 4.0220 |
| #2 | 320.80 | .65998 | -.08973 | .86521 | .00304 | 1.763 | .18873 | 3.8729 |
| #3 | 319.96 | .66300 | -.08981 | .86223 | .00347 | 1.759 | .18904 | 3.8596 |



Sample Name: K3252-05      Acquired: 6/11/2019 17:26:48      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TK13-CONTAIN      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 12.193 |
| Stddev | 1.673  |
| %RSD   | 13.717 |

|    |        |
|----|--------|
| #1 | 14.124 |
| #2 | 11.271 |
| #3 | 11.185 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2971.7 | 46544. | 5516.2 | 86.486 | 3497.5 |
| Stddev    | 15.6   | 79.    | 47.0   | 1.070  | 22.5   |
| %RSD      | .52380 | .17038 | .85193 | 1.2374 | .64352 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2987.9 | 46494. | 5482.2 | 87.652 | 3522.6 |
| #2 | 2956.8 | 46503. | 5569.8 | 86.255 | 3479.2 |
| #3 | 2970.4 | 46636. | 5496.6 | 85.550 | 3490.8 |

Sample Name: K3252-06      Acquired: 6/11/2019 17:31:01      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK7-CONTAINM      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |         |         |         |        |        |        |
|--------|----------|---------|---------|---------|---------|--------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00515   | -.02850 | .01273  | .02100  | -.02267 | 5.4973 | .05929 | .00073 |
| Stddev | .00252   | .00137  | .00059  | .00148  | .00041  | .0353  | .00066 | .00006 |
| %RSD   | 48.863   | 4.8132  | 4.6117  | 7.0308  | 1.8073  | .64172 | 1.1198 | 8.0680 |
| #1     | .00592   | -.02769 | .01207  | .02216  | -.02248 | 5.4803 | .05874 | .00068 |
| #2     | .00719   | -.02773 | .01320  | .02151  | -.02315 | 5.4737 | .05909 | .00070 |
| #3     | .00234   | -.03008 | .01293  | .01934  | -.02240 | 5.5378 | .06003 | .00079 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00447  | 66.577  | 1.5580  | 1.3216  | .27537  | 8.8944 | .09510 | 1.2061 |
| Stddev | .00007   | .331    | .0040   | .0047   | .00042  | .0070  | .00031 | .0478  |
| %RSD   | 1.5634   | .49715  | .25372  | .35502  | .15281  | .07884 | .32578 | 3.9588 |
| #1     | -.00440  | 66.396  | 1.5542  | 1.3186  | .27489  | 8.8865 | .09545 | 1.1704 |
| #2     | -.00454  | 66.959  | 1.5577  | 1.3193  | .27564  | 8.8999 | .09498 | 1.2604 |
| #3     | -.00448  | 66.376  | 1.5621  | 1.3270  | .27559  | 8.8968 | .09487 | 1.1876 |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | 8.3906   | .01947  | 4.2960  | -.00096 | .49016  | 1.7124 | 1.2528 | .54546 |
| Stddev | .0150    | .00041  | .0339   | .00040  | .00141  | .0336  | .0021  | .01941 |
| %RSD   | .17870   | 2.0922  | .78826  | 41.620  | .28702  | 1.9601 | .16695 | 3.5580 |
| #1     | 8.3756   | .01910  | 4.2666  | -.00087 | .48929  | 1.7062 | 1.2504 | .56312 |
| #2     | 8.3907   | .01991  | 4.2883  | -.00061 | .48941  | 1.6824 | 1.2539 | .52468 |
| #3     | 8.4056   | .01940  | 4.3330  | -.00140 | .49178  | 1.7487 | 1.2541 | .54857 |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | F 255.23 | .67406  | -.09532 | .65772  | .00093  | .6481  | .02660 | 2.9430 |
| Stddev | .88      | .00077  | .00048  | .00410  | .00020  | .0040  | .00031 | .0583  |
| %RSD   | .34406   | .11358  | .50054  | .62370  | 21.840  | .6183  | 1.1537 | 1.9807 |
| #1     | 254.53   | .67321  | -.09560 | .65420  | .00097  | .6442  | .02626 | 2.9179 |
| #2     | 254.93   | .67427  | -.09559 | .66223  | .00110  | .6478  | .02687 | 3.0097 |
| #3     | 256.21   | .67469  | -.09477 | .65673  | .00071  | .6522  | .02667 | 2.9016 |

Sample Name: K3252-06      Acquired: 6/11/2019 17:31:01      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TK7-CONTAINM      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 8.4517 |
| Stddev | .6727  |
| %RSD   | 7.9597 |

|    |        |
|----|--------|
| #1 | 9.1921 |
| #2 | 7.8781 |
| #3 | 8.2848 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3097.0 | 49016. | 5665.2 | 91.001 | 3744.6 |
| Stddev    | 9.6    | 64.    | 17.8   | 2.089  | 2.3    |
| %RSD      | .31088 | .13139 | .31396 | 2.2960 | .06212 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3087.7 | 49039. | 5654.1 | 89.198 | 3745.3 |
| #2 | 3096.5 | 49066. | 5655.9 | 93.290 | 3746.5 |
| #3 | 3106.9 | 48943. | 5685.8 | 90.514 | 3742.0 |

Sample Name: CCV06      Acquired: 6/11/2019 17:35:15      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB120495BL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.2101 | 4.8793 | 4.8950 | 5.0614 | 5.1763 | 10.078 | 10.189 | .24440   |
| Stddev | .0117  | .0176  | .0156  | .0087  | .0102  | .052   | .064   | .00079   |
| %RSD   | .22443 | .36082 | .31862 | .17269 | .19787 | .51683 | .62368 | .32475   |
| #1     | 5.2091 | 4.8745 | 4.8974 | 5.0667 | 5.1882 | 10.019 | 10.116 | .24364   |
| #2     | 5.2222 | 4.8646 | 4.8784 | 5.0514 | 5.1709 | 10.100 | 10.234 | .24434   |
| #3     | 5.1989 | 4.8988 | 4.9093 | 5.0663 | 5.1700 | 10.116 | 10.216 | .24522   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3990 | 24.068 | .93789 | 2.4688 | 1.3339 | 4.9488 | 2.4642 | 24.317   |
| Stddev | .0068  | .145   | .00278 | .0076  | .0039  | .0081  | .0022  | .230     |
| %RSD   | .28162 | .60261 | .29673 | .30644 | .29424 | .16461 | .08985 | .94766   |
| #1     | 2.3971 | 23.934 | .93508 | 2.4686 | 1.3382 | 4.9416 | 2.4618 | 24.057   |
| #2     | 2.3934 | 24.048 | .93795 | 2.4614 | 1.3329 | 4.9472 | 2.4649 | 24.496   |
| #3     | 2.4065 | 24.222 | .94064 | 2.4765 | 1.3306 | 4.9576 | 2.4660 | 24.397   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3838 | 1.2211 | 24.373 | 2.3518 | 2.5209 | 25.105 | 5.2055 | 4.7459   |
| Stddev | .0073  | .0030  | .140   | .0072  | .0062  | .173   | .0129  | .0353    |
| %RSD   | .30512 | .24627 | .57333 | .30458 | .24691 | .68739 | .24738 | .74312   |
| #1     | 2.3846 | 1.2238 | 24.222 | 2.3600 | 2.5196 | 24.918 | 5.2203 | 4.7494   |
| #2     | 2.3762 | 1.2179 | 24.399 | 2.3471 | 2.5155 | 25.142 | 5.1965 | 4.7090   |
| #3     | 2.3906 | 1.2218 | 24.497 | 2.3482 | 2.5277 | 25.257 | 5.1998 | 4.7792   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.1902 | 4.6670 | 4.8927 | 4.9052 | 4.8754 | 5.165  | 4.9198 | F 3.7368 |
| Stddev | .0087  | .0338  | .0167  | .0220  | .0329  | .012   | .0327  | .0346    |
| %RSD   | .16810 | .72515 | .34035 | .44921 | .67491 | .2378  | .66460 | .92512   |
| #1     | 5.1820 | 4.6793 | 4.8894 | 4.9087 | 4.8562 | 5.155  | 4.8986 | 3.6979   |
| #2     | 5.1993 | 4.6287 | 4.8779 | 4.8817 | 4.8566 | 5.160  | 4.9035 | 3.7640   |
| #3     | 5.1892 | 4.6929 | 4.9107 | 4.9253 | 4.9134 | 5.178  | 4.9575 | 3.7484   |

Sample Name: CCV06      Acquired: 6/11/2019 17:35:15      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: PB120495BL      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 3.1084 |
| Stddev | 1.1741   |
| %RSD   | 37.772   |

|    |        |
|----|--------|
| #1 | 1.8027 |
| #2 | 3.4454 |
| #3 | 4.0773 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3055.5 | 47081. | 5438.7 | 85.749 | 3512.1 |
| Stddev    | 12.3   | 101.   | 44.1   | .535   | 6.6    |
| %RSD      | .40354 | .21429 | .81167 | .62402 | .18838 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3042.3 | 47065. | 5421.7 | 86.325 | 3508.0 |
| #2 | 3057.6 | 47189. | 5488.8 | 85.268 | 3519.8 |
| #3 | 3066.7 | 46989. | 5405.5 | 85.653 | 3508.6 |

Sample Name: CCB06      Acquired: 6/11/2019 17:39:13      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB120495BS      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |        |        |         |        |
|--------|--------|---------|---------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00046 | -.00003 | -.00073 | .00025 | .00085 | -.00149 | .00112 |
| Stddev | .00181 | .00056  | .00042  | .00254 | .00082 | .00790  | .00035 |
| %RSD   | 389.05 | 2052.1  | 57.292  | 1014.7 | 96.570 | 530.71  | 31.097 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | .00060  | .00062  | -.00025 | .00195  | .00060 | -.00416 | .00107 |
| #2 | -.00141 | -.00034 | -.00095 | .00146  | .00177 | -.00770 | .00149 |
| #3 | .00220  | -.00036 | -.00101 | -.00267 | .00018 | .00740  | .00080 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00010 | .00016 | -.01319 | .00049 | .00010 | -.00141 | .00055 |
| Stddev | .00008 | .00005 | .00712  | .00017 | .00017 | .00011  | .00016 |
| %RSD   | 75.778 | 32.939 | 53.925  | 33.582 | 168.18 | 7.7932  | 28.728 |

|    |        |        |         |        |         |         |        |
|----|--------|--------|---------|--------|---------|---------|--------|
| #1 | .00014 | .00014 | -.01239 | .00031 | .00004  | -.00132 | .00073 |
| #2 | .00001 | .00021 | -.00652 | .00064 | -.00003 | -.00153 | .00049 |
| #3 | .00016 | .00011 | -.02068 | .00053 | .00029  | -.00139 | .00043 |

|        |        |        |        |        |         |         |         |
|--------|--------|--------|--------|--------|---------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00005 | .02031 | .00061 | .00034 | -.07466 | -.00028 | -.00122 |
| Stddev | .00004 | .01871 | .00019 | .00017 | .00285  | .00039  | .00005  |
| %RSD   | 65.939 | 92.131 | 31.978 | 51.245 | 3.8231  | 139.46  | 4.2164  |

|    |        |        |        |        |         |         |         |
|----|--------|--------|--------|--------|---------|---------|---------|
| #1 | .00007 | .00550 | .00043 | .00054 | -.07452 | -.00068 | -.00116 |
| #2 | .00008 | .04135 | .00058 | .00025 | -.07188 | .00010  | -.00125 |
| #3 | .00001 | .01410 | .00082 | .00023 | -.07758 | -.00025 | -.00125 |

|        |         |        |        |          |         |         |        |
|--------|---------|--------|--------|----------|---------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820   | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm     | ppm     | ppm    |
| Avg    | -.06106 | .00069 | .01188 | F .02295 | -.00165 | -.00341 | .00190 |
| Stddev | .01940  | .00030 | .01217 | .00342   | .00186  | .00034  | .00068 |
| %RSD   | 31.767  | 43.989 | 102.44 | 14.903   | 112.71  | 9.9513  | 35.574 |

|    |         |        |        |        |         |         |        |
|----|---------|--------|--------|--------|---------|---------|--------|
| #1 | -.06631 | .00048 | .02570 | .02686 | -.00085 | -.00371 | .00257 |
| #2 | -.07730 | .00104 | .00722 | .02148 | -.00032 | -.00347 | .00121 |
| #3 | -.03958 | .00055 | .00273 | .02051 | -.00378 | -.00304 | .00193 |

Sample Name: CCB06      Acquired: 6/11/2019 17:39:13      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: PB120495BS      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00151 | -.0054 | .00006 | F 2.7222 | F<.00000 |
| Stddev | .00073  | .0006  | .00002 | .0811    | .61904   |
| %RSD   | 48.331  | 11.42  | 32.147 | 2.9796   | 43.217   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00234 | -.0048 | .00006 | 2.6286 | -.85563 |
| #2 | -.00097 | -.0055 | .00007 | 2.7654 | -2.0865 |
| #3 | -.00121 | -.0060 | .00004 | 2.7725 | -1.3552 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3200.3 | 49533. | 5462.7 | 87.828 | 3923.1 |
| Stddev    | 4.9    | 114.   | 15.8   | 1.526  | 11.0   |
| %RSD      | .15344 | .22982 | .28937 | 1.7376 | .28045 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3194.8 | 49492. | 5446.7 | 89.133 | 3911.4 |
| #2 | 3204.1 | 49445. | 5478.3 | 86.150 | 3933.2 |
| #3 | 3202.0 | 49661. | 5463.2 | 88.200 | 3924.6 |

Sample Name: K3279-02      Acquired: 6/11/2019 17:43:43      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00170 | -.00242 | .00337 | .00057 | -.00146 | .11474 | .07468 |
| Stddev | .00070  | .00132  | .00059 | .00282 | .00209  | .00151 | .00059 |
| %RSD   | 41.529  | 54.311  | 17.589 | 494.87 | 143.10  | 1.3180 | .79665 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00157 | -.00359 | .00309 | -.00176 | -.00307 | .11648 | .07409 |
| #2 | -.00246 | -.00100 | .00297 | -.00024 | -.00222 | .11381 | .07528 |
| #3 | -.00106 | -.00268 | .00405 | .00370  | .00090  | .11392 | .07469 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00015 | .00270 | 26.323 | .00413 | .00147 | .00084 | .19551 |
| Stddev | .00006 | .00008 | .068   | .00042 | .00017 | .00072 | .00126 |
| %RSD   | 40.280 | 2.8847 | .25956 | 10.116 | 11.415 | 85.400 | .64651 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00022 | .00266 | 26.245 | .00460 | .00134 | .00003 | .19405 |
| #2 | .00012 | .00278 | 26.370 | .00383 | .00166 | .00140 | .19629 |
| #3 | .00012 | .00264 | 26.355 | .00395 | .00142 | .00109 | .19618 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00296 | 7.1922 | .00989 | .00021 | 60.526 | .00043 | .03352 |
| Stddev | .00007 | .0191  | .00044 | .00029 | .089   | .00026 | .00010 |
| %RSD   | 2.3490 | .26499 | 4.4717 | 140.12 | .14645 | 62.297 | .30061 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00288 | 7.1880 | .00978 | .00053  | 60.490 | .00046 | .03350 |
| #2 | .00297 | 7.2131 | .01037 | .00013  | 60.627 | .00014 | .03364 |
| #3 | .00302 | 7.1757 | .00951 | -.00004 | 60.461 | .00067 | .03344 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 2.8099 | .00078 | .03987 | 7.9679 | 5.6490 | -.00611 | .00585 |
| Stddev | .0141  | .00013 | .01091 | .0133  | .0046  | .00054  | .00179 |
| %RSD   | .50268 | 17.156 | 27.375 | .16650 | .08223 | 8.8077  | 30.624 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 2.8102 | .00064 | .03718 | 7.9719 | 5.6536 | -.00549 | .00395 |
| #2 | 2.8239 | .00090 | .05188 | 7.9787 | 5.6443 | -.00640 | .00610 |
| #3 | 2.7956 | .00080 | .03056 | 7.9531 | 5.6489 | -.00645 | .00750 |



Sample Name: K3279-02      Acquired: 6/11/2019 17:43:43      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |        |          |
|-----------|---------|--------|--------|--------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg       | -.00095 | -.0001 | .20997 | 3.6635 | F<.00000 |
| Stddev    | .00160  | .0019  | .00038 | .1898  | .32146   |
| %RSD      | 167.89  | 2027.  | .18170 | 5.1810 | 13.913   |
| #1        | -.00114 | .0021  | .20954 | 3.5909 | -2.3229  |
| #2        | .00073  | -.0013 | .21012 | 3.8789 | -1.9831  |
| #3        | -.00245 | -.0011 | .21025 | 3.5207 | -2.6257  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3017.0  | 46420. | 5276.3 | 85.820 | 3649.4   |
| Stddev    | 3.3     | 212.   | 16.8   | 1.849  | 9.4      |
| %RSD      | .10785  | .45739 | .31905 | 2.1548 | .25634   |
| #1        | 3018.0  | 46175. | 5256.9 | 84.550 | 3659.4   |
| #2        | 3019.6  | 46554. | 5287.2 | 84.969 | 3640.9   |
| #3        | 3013.3  | 46530. | 5284.8 | 87.942 | 3647.7   |

Sample Name: K3279-02DUP      Acquired: 6/11/2019 17:48:08      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00092 | -.00109 | .00304 | .00027 | .00039 | .12755 | .07308 |
| Stddev | .00282 | .00084  | .00056 | .00224 | .00062 | .00774 | .00023 |
| %RSD   | 305.87 | 77.150  | 18.343 | 826.53 | 161.84 | 6.0673 | .30985 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00241  | -.00202 | .00289 | -.00024 | .00037  | .13648 | .07284 |
| #2 | -.00233 | -.00038 | .00365 | .00273  | -.00023 | .12276 | .07311 |
| #3 | .00268  | -.00087 | .00257 | -.00167 | .00102  | .12341 | .07329 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00012 | .00262 | 26.233 | .00442 | .00138 | .00101 | .22170 |
| Stddev | .00008 | .00006 | .121   | .00010 | .00012 | .00052 | .00102 |
| %RSD   | 64.028 | 2.1924 | .45968 | 2.1767 | 8.4039 | 51.463 | .45878 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00008 | .00257 | 26.104 | .00435 | .00142 | .00094 | .22061 |
| #2 | .00008 | .00262 | 26.251 | .00439 | .00125 | .00053 | .22187 |
| #3 | .00021 | .00268 | 26.343 | .00453 | .00148 | .00156 | .22263 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00300 | 7.0387 | .01165 | -.00010 | 59.482 | .00013 | .03287 |
| Stddev | .00004 | .0050  | .00047 | .00026  | .400   | .00036 | .00020 |
| %RSD   | 1.2388 | .07170 | 4.0267 | 269.05  | .67300 | 278.58 | .59522 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00296 | 7.0343 | .01114 | .00020  | 59.074 | -.00028 | .03284 |
| #2 | .00302 | 7.0376 | .01206 | -.00025 | 59.498 | .00029  | .03308 |
| #3 | .00303 | 7.0442 | .01174 | -.00024 | 59.874 | .00038  | .03270 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 2.7274 | .00060 | .03150 | 8.2597 | 5.6489 | -.00605 | .00577 |
| Stddev | .0262  | .00012 | .00746 | .0137  | .0514  | .00002  | .00193 |
| %RSD   | .96097 | 20.749 | 23.671 | .16521 | .90947 | .28124  | 33.385 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 2.6977 | .00074 | .02625 | 8.2701 | 5.7080 | -.00603 | .00673 |
| #2 | 2.7369 | .00053 | .02822 | 8.2442 | 5.6245 | -.00607 | .00703 |
| #3 | 2.7475 | .00053 | .04004 | 8.2647 | 5.6144 | -.00606 | .00356 |

Sample Name: K3279-02DUP      Acquired: 6/11/2019 17:48:08      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |        |          |
|-----------|---------|--------|--------|--------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg       | -.00115 | .0025  | .20739 | 3.7635 | F<.00000 |
| Stddev    | .00054  | .0011  | .00048 | .2943  | .76330   |
| %RSD      | 47.062  | 41.87  | .23319 | 7.8191 | 23.525   |
| #1        | -.00053 | .0018  | .20700 | 3.7789 | -2.6382  |
| #2        | -.00146 | .0037  | .20724 | 4.0498 | -4.1018  |
| #3        | -.00147 | .0020  | .20793 | 3.4618 | -2.9940  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3040.8  | 46817. | 5265.7 | 86.050 | 3679.5   |
| Stddev    | 10.2    | 121.   | 33.6   | 2.201  | 19.4     |
| %RSD      | .33681  | .25824 | .63865 | 2.5575 | .52725   |
| #1        | 3029.1  | 46717. | 5226.9 | 84.683 | 3658.1   |
| #2        | 3047.9  | 46951. | 5284.4 | 84.877 | 3696.0   |
| #3        | 3045.5  | 46783. | 5285.9 | 88.588 | 3684.2   |

Sample Name: K3279-02LX5      Acquired: 6/11/2019 17:52:34      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |        |        |        |
|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00058 | -.00019 | -.00086 | -.00182 | .00066 | .01709 | .01557 |
| Stddev | .00296 | .00060  | .00072  | .00178  | .00128 | .00357 | .00070 |
| %RSD   | 506.33 | 309.80  | 83.567  | 97.653  | 194.83 | 20.904 | 4.5129 |

|    |         |         |         |         |         |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|
| #1 | -.00072 | -.00079 | -.00005 | .00000  | -.00029 | .01617 | .01508 |
| #2 | -.00150 | .00041  | -.00143 | -.00192 | .00211  | .01407 | .01637 |
| #3 | .00397  | -.00021 | -.00110 | -.00355 | .00014  | .02104 | .01525 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00010 | .00066 | 5.3441 | .00077 | .00037 | -.00075 | .04348 |
| Stddev | .00005 | .00002 | .0102  | .00046 | .00013 | .00024  | .00072 |
| %RSD   | 47.186 | 3.3544 | .19148 | 59.055 | 35.358 | 31.762  | 1.6626 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00015 | .00068 | 5.3486 | .00026 | .00029 | -.00092 | .04419 |
| #2 | .00011 | .00064 | 5.3514 | .00113 | .00030 | -.00086 | .04351 |
| #3 | .00005 | .00065 | 5.3324 | .00093 | .00052 | -.00048 | .04275 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00125 | 1.4483 | .00271 | .00039 | 11.875 | -.00011 | .00621 |
| Stddev | .00000 | .0211  | .00025 | .00047 | .016   | .00034  | .00011 |
| %RSD   | .16799 | 1.4592 | 9.2101 | 120.61 | .13307 | 298.32  | 1.8072 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00125 | 1.4301 | .00243 | .00018 | 11.889 | -.00030 | .00622 |
| #2 | .00125 | 1.4434 | .00292 | .00006 | 11.858 | -.00031 | .00609 |
| #3 | .00125 | 1.4715 | .00277 | .00093 | 11.877 | .00028  | .00631 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .52175 | -.00013 | .01803 | 1.6625 | 1.2000 | -.00439 | .00151 |
| Stddev | .02943 | .00039  | .01063 | .0094  | .0017  | .00055  | .00257 |
| %RSD   | 5.6402 | 300.28  | 58.975 | .56522 | .14090 | 12.524  | 169.97 |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | .51601 | .00030  | .00637 | 1.6548 | 1.1990 | -.00487 | .00395  |
| #2 | .55363 | -.00022 | .02720 | 1.6597 | 1.1990 | -.00379 | -.00117 |
| #3 | .49562 | -.00047 | .02053 | 1.6730 | 1.2020 | -.00451 | .00176  |

Sample Name: K3279-02LX5      Acquired: 6/11/2019 17:52:34      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00183 | -.0027 | .04214 | 2.9239 | F<.00000 |
| Stddev | .00025  | .0002  | .00012 | .0454  | .77013   |
| %RSD   | 13.657  | 6.848  | .29261 | 1.5532 | 63.395   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00162 | -.0027 | .04224 | 2.8797 | -.52554 |
| #2 | -.00176 | -.0025 | .04218 | 2.9704 | -2.0460 |
| #3 | -.00210 | -.0029 | .04200 | 2.9216 | -1.0729 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3168.2 | 48942. | 5400.0 | 89.557 | 3895.4 |
| Stddev    | 17.8   | 236.   | 28.7   | .317   | 16.1   |
| %RSD      | .56049 | .48280 | .53150 | .35437 | .41213 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3182.1 | 48672. | 5368.5 | 89.592 | 3911.7 |
| #2 | 3174.2 | 49045. | 5406.9 | 89.224 | 3895.0 |
| #3 | 3148.2 | 49110. | 5424.6 | 89.856 | 3879.6 |

Sample Name: K3279-02A      Acquired: 6/11/2019 17:57:01      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |        |
|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .82828   | 1.9275 | .96335 | 2.0076 | .82935 | 2.2616 | .28128 | .19665 |
| Stddev | .00215   | .0118  | .00721 | .0107  | .00469 | .0312  | .00100 | .00036 |
| %RSD   | .25944   | .61417 | .74806 | .53550 | .56491 | 1.3800 | .35532 | .18520 |
| #1     | .82699   | 1.9205 | .95995 | 2.0177 | .82662 | 2.2370 | .28128 | .19629 |
| #2     | .82709   | 1.9209 | .95848 | 1.9963 | .82666 | 2.2967 | .28228 | .19702 |
| #3     | .83076   | 1.9412 | .97163 | 2.0089 | .83476 | 2.2510 | .28028 | .19664 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19103   | 25.681 | .41098 | .20920 | .33663 | 3.5294 | .21391 | 8.5381 |
| Stddev | .00094   | .225   | .00104 | .00109 | .00148 | .0060  | .00053 | .0848  |
| %RSD   | .49077   | .87431 | .25335 | .52335 | .43868 | .16962 | .24811 | .99313 |
| #1     | .19042   | 25.439 | .41168 | .20882 | .33656 | 3.5240 | .21420 | 8.5562 |
| #2     | .19057   | 25.883 | .40978 | .20835 | .33518 | 3.5283 | .21423 | 8.6124 |
| #3     | .19211   | 25.719 | .41147 | .21044 | .33813 | 3.5358 | .21330 | 8.4457 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52212   | .07077 | 57.337 | .30185 | .23124 | 12.937 | .44199 | .33184 |
| Stddev | .00341   | .00120 | .215   | .00221 | .00170 | .137   | .00116 | .00693 |
| %RSD   | .65248   | 1.6912 | .37458 | .73238 | .73586 | 1.0618 | .26148 | 2.0874 |
| #1     | .52034   | .07145 | 57.107 | .30433 | .23050 | 12.841 | .44103 | .32399 |
| #2     | .51997   | .07148 | 57.532 | .30113 | .23004 | 13.095 | .44168 | .33444 |
| #3     | .52605   | .06939 | 57.371 | .30009 | .23319 | 12.875 | .44328 | .33709 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 11.061 | 6.0094 | .68949 | .21506 | .20996 | 6.129  | .39537 | 4.1439 |
| Stddev | .044     | .0217  | .00160 | .00384 | .00448 | .020   | .00128 | .0899  |
| %RSD   | .40156   | .36047 | .23202 | 1.7850 | 2.1330 | .3294  | .32378 | 2.1695 |
| #1     | 11.039   | 6.0335 | .68862 | .21079 | .20849 | 6.117  | .39502 | 4.0697 |
| #2     | 11.033   | 5.9915 | .68851 | .21823 | .21499 | 6.118  | .39431 | 4.2439 |
| #3     | 11.113   | 6.0032 | .69133 | .21618 | .20640 | 6.153  | .39679 | 4.1181 |

Sample Name: K3279-02A      Acquired: 6/11/2019 17:57:01      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 4.7137 |
| Stddev | .9999  |
| %RSD   | 21.212 |

|    |        |
|----|--------|
| #1 | 5.7831 |
| #2 | 4.5559 |
| #3 | 3.8021 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3039.9 | 46977. | 5278.9 | 85.583 | 3635.5 |
| Stddev    | 16.5   | 97.    | 17.9   | 1.196  | 27.1   |
| %RSD      | .54121 | .20567 | .33893 | 1.3969 | .74580 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3027.1 | 46903. | 5262.2 | 85.091 | 3627.7 |
| #2 | 3058.5 | 46942. | 5297.8 | 86.946 | 3665.6 |
| #3 | 3034.1 | 47086. | 5276.7 | 84.712 | 3613.1 |

Sample Name: K3252-01      Acquired: 6/11/2019 18:01:08      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK46-CONTAIN      Custom ID2:      Custom ID3:  
Comment:

|        |        |           |        |        |        |        |        |
|--------|--------|-----------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908    | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm       | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .35652 | F -1.7267 | .35454 | .27401 | .01801 | 141.46 | .30794 |
| Stddev | .00941 | .0071     | .00263 | .00905 | .00935 | 1.08   | .00204 |
| %RSD   | 2.6406 | .41361    | .74222 | 3.3041 | 51.938 | .76353 | .66132 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .36290 | -1.7185 | .35635 | .27747 | .01752 | 140.64 | .30650 |
| #2 | .34571 | -1.7302 | .35152 | .26373 | .00891 | 141.05 | .30704 |
| #3 | .36096 | -1.7314 | .35575 | .28081 | .02759 | 142.68 | .31027 |

|        |        |         |        |          |          |        |        |
|--------|--------|---------|--------|----------|----------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677   | Co2286   | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm      | ppm    | ppm    |
| Avg    | .08835 | -.06806 | 514.69 | F 87.864 | F 107.60 | 4.5764 | 773.69 |
| Stddev | .00057 | .00148  | 1.80   | .198     | .22      | .0140  | 1.50   |
| %RSD   | .64275 | 2.1752  | .34881 | .22522   | .20405   | .30578 | .19418 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .08829 | -.06636 | 513.02 | 87.994 | 107.57 | 4.5733 | 774.21 |
| #2 | .08781 | -.06875 | 514.46 | 87.962 | 107.39 | 4.5641 | 772.00 |
| #3 | .08894 | -.06907 | 516.59 | 87.636 | 107.83 | 4.5916 | 774.86 |

|        |        |        |          |         |        |        |        |
|--------|--------|--------|----------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316   | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm      | ppm     | ppm    | ppm    | ppm    |
| Avg    | 10.638 | 301.80 | F 500.64 | -.18698 | 641.64 | .26544 | 30.381 |
| Stddev | .046   | 3.30   | 2.63     | .00215  | 7.12   | .00216 | .079   |
| %RSD   | .43087 | 1.0948 | .52507   | 1.1481  | 1.1104 | .81415 | .25966 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.689 | 298.53 | 500.20 | -.18469 | 634.80 | .26776 | 30.404 |
| #2 | 10.625 | 301.74 | 498.26 | -.18729 | 641.11 | .26508 | 30.293 |
| #3 | 10.600 | 305.14 | 503.46 | -.18895 | 649.02 | .26348 | 30.445 |

|        |        |          |        |          |          |           |          |
|--------|--------|----------|--------|----------|----------|-----------|----------|
| Elem   | K_7664 | Mo2020   | B_2496 | S_1820   | Si2881   | Sn1899    | Ti3361   |
| Units  | ppm    | ppm      | ppm    | ppm      | ppm      | ppm       | ppm      |
| Avg    | 381.19 | F 20.265 | 1.9333 | F 7099.5 | F 42.390 | F -2.3067 | F 76.655 |
| Stddev | 2.89   | .061     | .0337  | 66.9     | .353     | .0187     | .036     |
| %RSD   | .75939 | .30253   | 1.7451 | .94205   | .83282   | .81141    | .04733   |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 378.48 | 20.322 | 1.9298 | 7029.3 | 41.983 | -2.2874 | 76.614 |
| #2 | 380.85 | 20.273 | 1.9014 | 7106.5 | 42.562 | -2.3079 | 76.681 |
| #3 | 384.24 | 20.200 | 1.9686 | 7162.6 | 42.624 | -2.3248 | 76.670 |



Sample Name: K3252-01      Acquired: 6/11/2019 18:01:08      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TK46-CONTAIN      Custom ID2:      Custom ID3:  
 Comment:

|           |        |         |        |        |          |
|-----------|--------|---------|--------|--------|----------|
| Elem      | Li6707 | P_1774  | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm     | ppm    | ppm    | ppm      |
| Avg       | .03182 | F 362.8 | 1.2931 | 4.6016 | F 1262.9 |
| Stddev    | .00145 | .5      | .0030  | .1243  | 4.6      |
| %RSD      | 4.5679 | .1281   | .22903 | 2.7018 | .36083   |
| #1        | .03017 | 363.1   | 1.2927 | 4.7425 | 1259.2   |
| #2        | .03290 | 362.2   | 1.2962 | 4.5550 | 1261.6   |
| #3        | .03240 | 363.0   | 1.2904 | 4.5074 | 1268.0   |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2059.2 | 32456.  | 4214.8 | 53.159 | 1522.4   |
| Stddev    | 10.7   | 139.    | 38.2   | 1.432  | 3.4      |
| %RSD      | .51770 | .42782  | .90642 | 2.6930 | .22504   |
| #1        | 2048.9 | 32347.  | 4185.9 | 52.108 | 1518.9   |
| #2        | 2058.5 | 32409.  | 4200.4 | 52.578 | 1525.7   |
| #3        | 2070.1 | 32612.  | 4258.1 | 54.789 | 1522.6   |

Sample Name: K3252-02      Acquired: 6/11/2019 18:06:04      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK11-CONTAIN      Custom ID2:      Custom ID3:  
Comment:

|        |          |            |         |          |           |          |        |
|--------|----------|------------|---------|----------|-----------|----------|--------|
| Elem   | As1890   | Tl1908     | Pb2203  | Se1960   | Sb2068    | Al3961   | Ba4934 |
| Units  | ppm      | ppm        | ppm     | ppm      | ppm       | ppm      | ppm    |
| Avg    | k .08605 | kF -4.7643 | ^ ***** | k 1.2522 | k -.92050 | k 878.54 | .24080 |
| Stddev | .00219   | .0348      | ----    | .0079    | .00858    | 19.68    | .00180 |
| %RSD   | 2.5448   | .73043     | ----    | .63209   | .93211    | 2.2407   | .74726 |

|    |          |           |        |          |           |          |        |
|----|----------|-----------|--------|----------|-----------|----------|--------|
| #1 | k .08355 | k -4.7615 | ^ ---- | k 1.2523 | k -.91705 | k 856.21 | .24097 |
| #2 | k .08700 | k -4.8004 | ^ ---- | k 1.2602 | k -.93026 | k 893.39 | .24252 |
| #3 | k .08760 | k -4.7310 | ^ ---- | k 1.2443 | k -.91417 | k 886.03 | .23893 |

|        |        |         |          |           |          |          |          |
|--------|--------|---------|----------|-----------|----------|----------|----------|
| Elem   | Be2348 | Cd2265  | Ca3736   | Cr2677    | Co2286   | Cu2247   | Fe2404   |
| Units  | ppm    | ppm     | ppm      | ppm       | ppm      | ppm      | ppm      |
| Avg    | .06403 | ^ ***** | k 693.63 | kF 18.442 | F 87.340 | k 2.3298 | k 185.91 |
| Stddev | .00037 | ----    | 8.80     | .037      | .551     | .0136    | 1.12     |
| %RSD   | .57474 | ----    | 1.2694   | .19975    | .63136   | .58308   | .60447   |

|    |        |        |          |          |        |          |          |
|----|--------|--------|----------|----------|--------|----------|----------|
| #1 | .06426 | ^ ---- | k 684.28 | k 18.474 | 86.751 | k 2.3176 | k 184.62 |
| #2 | .06361 | ^ ---- | k 694.84 | k 18.449 | 87.844 | k 2.3444 | k 186.66 |
| #3 | .06424 | ^ ---- | k 701.77 | k 18.402 | 87.425 | k 2.3273 | k 186.45 |

|        |        |        |          |           |         |          |           |
|--------|--------|--------|----------|-----------|---------|----------|-----------|
| Elem   | Mn2576 | Mg2790 | Ni2316   | Ag3280    | Na5895  | V_2924   | Zn2138    |
| Units  | ppm    | ppm    | ppm      | ppm       | ppm     | ppm      | ppm       |
| Avg    | 10.626 | 451.68 | F 508.67 | k -.08312 | ^ ***** | k .05718 | kF 99.309 |
| Stddev | .093   | 1.10   | 3.03     | .00082    | ----    | .00074   | .617      |
| %RSD   | .87581 | .24380 | .59560   | .98876    | ----    | 1.2901   | .62106    |

|    |        |        |        |           |        |          |          |
|----|--------|--------|--------|-----------|--------|----------|----------|
| #1 | 10.685 | 450.58 | 505.61 | k -.08353 | ^ ---- | k .05797 | k 98.676 |
| #2 | 10.674 | 452.78 | 511.67 | k -.08366 | 2455.5 | k .05709 | k 99.908 |
| #3 | 10.519 | 451.68 | 508.73 | k -.08218 | 2381.0 | k .05650 | k 99.342 |

|        |        |        |           |           |           |          |          |
|--------|--------|--------|-----------|-----------|-----------|----------|----------|
| Elem   | K_7664 | Mo2020 | B_2496    | S_1820    | Si2881    | Sn1899   | Ti3361   |
| Units  | ppm    | ppm    | ppm       | ppm       | ppm       | ppm      | ppm      |
| Avg    | 540.76 | 6.7949 | kF 16.019 | kF 5462.2 | kF 39.326 | k .13185 | k 2.5372 |
| Stddev | 6.41   | .0249  | .141      | 28.0      | .151      | .01858   | .0104    |
| %RSD   | 1.1855 | .36581 | .87885    | .51338    | .38274    | 14.092   | .40819   |

|    |        |        |          |          |          |          |          |
|----|--------|--------|----------|----------|----------|----------|----------|
| #1 | 537.06 | 6.7680 | k 15.928 | k 5434.9 | k 39.439 | k .11164 | k 2.5371 |
| #2 | 548.16 | 6.8171 | k 16.181 | k 5490.9 | k 39.384 | k .14820 | k 2.5476 |
| #3 | 537.06 | 6.7995 | k 15.948 | k 5460.7 | k 39.155 | k .13569 | k 2.5268 |

Sample Name: K3252-02      Acquired: 6/11/2019 18:06:04      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TK11-CONTAIN      Custom ID2:      Custom ID3:  
 Comment:

|           |        |          |           |         |          |
|-----------|--------|----------|-----------|---------|----------|
| Elem      | Li6707 | P_1774   | Sr4077    | U_3670  | U_3859   |
| Units     | ppm    | ppm      | ppm       | ppm     | ppm      |
| Avg       | 1.1896 | kF 527.2 | kF 15.599 | .30856  | F 657.82 |
| Stddev    | .0108  | 3.3      | .032      | .28334  | 8.88     |
| %RSD      | .90536 | .6246    | .20417    | 91.829  | 1.3500   |
| #1        | 1.1811 | k 523.8  | k 15.614  | -.00975 | 649.14   |
| #2        | 1.2017 | k 530.4  | k 15.620  | .40219  | 666.89   |
| #3        | 1.1861 | k 527.2  | k 15.562  | .53323  | 657.44   |
| Int. Std. | Y_2243 | Y_3600   | Y_3710    | In2306  | In2306   |
| Units     | Cts/S  | Cts/S    | Cts/S     | Cts/S   | Cts/S    |
| Avg       | 3725.3 | 56401.   | 9516.3    | 42.894  | 603.72   |
| Stddev    | 12.2   | 212.     | 31.0      | 1.402   | 3.55     |
| %RSD      | .32669 | .37534   | .32557    | 3.2678  | .58756   |
| #1        | 3738.0 | 56261.   | 9494.0    | 41.442  | 607.44   |
| #2        | 3713.7 | 56298.   | 9503.3    | 42.999  | 600.37   |
| #3        | 3724.3 | 56645.   | 9551.7    | 44.240  | 603.35   |

Sample Name: K3252-03      Acquired: 6/11/2019 18:11:16      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK13-CONTAIN      Custom ID2:      Custom ID3:  
Comment:

|        |        |           |        |         |           |        |        |
|--------|--------|-----------|--------|---------|-----------|--------|--------|
| Elem   | As1890 | Tl1908    | Pb2203 | Se1960  | Sb2068    | Al3961 | Ba4934 |
| Units  | ppm    | ppm       | ppm    | ppm     | ppm       | ppm    | ppm    |
| Avg    | .37180 | F -3.8854 | 5.3187 | -.65523 | F -1.6866 | 657.97 | 8.3013 |
| Stddev | .00599 | .3213     | .4751  | .02451  | .0327     | 10.60  | .0888  |
| %RSD   | 1.6115 | 8.2685    | 8.9329 | 3.7400  | 1.9376    | 1.6112 | 1.0700 |

|    |        |         |        |         |         |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|
| #1 | .37356 | -3.6781 | 4.9547 | -.67344 | -1.6494 | 647.60 | 8.2148 |
| #2 | .36512 | -3.7227 | 5.1452 | -.62737 | -1.6994 | 657.52 | 8.2970 |
| #3 | .37671 | -4.2555 | 5.8562 | -.66487 | -1.7109 | 668.79 | 8.3923 |

|        |        |        |          |          |          |        |        |
|--------|--------|--------|----------|----------|----------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736   | Cr2677   | Co2286   | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm      | ppm      | ppm      | ppm    | ppm    |
| Avg    | .20640 | .71459 | F 2770.8 | F 115.52 | F 331.68 | 34.070 | 841.70 |
| Stddev | .00464 | .05570 | 62.3     | 3.12     | 29.11    | 1.617  | 18.22  |
| %RSD   | 2.2496 | 7.7950 | 2.2482   | 2.6997   | 8.7754   | 4.7459 | 2.1647 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20266 | .69899 | 2837.8 | 112.01 | 311.19 | 33.242 | 824.16 |
| #2 | .20494 | .66835 | 2759.9 | 116.56 | 318.85 | 33.035 | 840.42 |
| #3 | .21159 | .77643 | 2714.7 | 117.98 | 364.99 | 35.934 | 860.53 |

|        |        |        |          |          |          |        |          |
|--------|--------|--------|----------|----------|----------|--------|----------|
| Elem   | Mn2576 | Mg2790 | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138   |
| Units  | ppm    | ppm    | ppm      | ppm      | ppm      | ppm    | ppm      |
| Avg    | 24.342 | 394.67 | F 1480.4 | F 3.3947 | F 2210.6 | .28303 | F 102.95 |
| Stddev | .555   | 10.39  | 165.6    | .0688    | 53.4     | .01478 | 8.75     |
| %RSD   | 2.2815 | 2.6313 | 11.186   | 2.0270   | 2.4152   | 5.2226 | 8.4982   |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 23.744 | 383.86 | 1449.2 | 3.3263 | 2203.4 | .26682 | 96.443 |
| #2 | 24.439 | 395.59 | 1332.7 | 3.3939 | 2161.1 | .28651 | 99.505 |
| #3 | 24.841 | 404.57 | 1659.5 | 3.4639 | 2267.2 | .29576 | 112.89 |

|        |        |          |          |          |          |         |          |
|--------|--------|----------|----------|----------|----------|---------|----------|
| Elem   | K_7664 | Mo2020   | B_2496   | S_1820   | Si2881   | Sn1899  | Ti3361   |
| Units  | ppm    | ppm      | ppm      | ppm      | ppm      | ppm     | ppm      |
| Avg    | 663.31 | F 43.861 | F 63.941 | F 9618.2 | F 21.184 | -.38349 | F 35.967 |
| Stddev | 9.81   | 1.253    | 1.149    | 810.1    | .630     | .00893  | 1.178    |
| %RSD   | 1.4797 | 2.8576   | 1.7967   | 8.4223   | 2.9723   | 2.3276  | 3.2748   |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 653.01 | 43.029 | 62.857 | 9031.0 | 21.871 | -.37945 | 37.283 |
| #2 | 664.34 | 43.250 | 63.819 | 9281.2 | 21.048 | -.37730 | 35.609 |
| #3 | 672.56 | 45.302 | 65.145 | 10542. | 20.634 | -.39372 | 35.011 |

Sample Name: K3252-03      Acquired: 6/11/2019 18:11:16      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TK13-CONTAIN      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |          |
|--------|--------|---------|--------|---------|----------|
| Elem   | Li6707 | P_1774  | Sr4077 | U_3670  | U_3859   |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm      |
| Avg    | .30826 | F 747.3 | 6.4997 | <.00000 | F 3115.9 |
| Stddev | .01107 | 62.3    | .3212  | .08186  | 33.4     |
| %RSD   | 3.5923 | 8.332   | 4.9423 | 9.8059  | 1.0731   |

|    |        |       |        |         |        |
|----|--------|-------|--------|---------|--------|
| #1 | .32082 | 706.7 | 6.8490 | -.74024 | 3079.9 |
| #2 | .30405 | 716.1 | 6.4330 | -.88166 | 3122.1 |
| #3 | .29991 | 818.9 | 6.2170 | -.88238 | 3145.9 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 1768.3 | 31399. | 4472.6 | 45.194 | 663.10 |
| Stddev    | 31.0   | 361.   | 172.0  | 3.126  | 45.08  |
| %RSD      | 1.7507 | 1.1485 | 3.8458 | 6.9171 | 6.7984 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 1767.8 | 31759. | 4285.7 | 41.633 | 687.09 |
| #2 | 1799.6 | 31400. | 4507.8 | 47.489 | 691.11 |
| #3 | 1737.7 | 31038. | 4624.3 | 46.460 | 611.10 |

Sample Name: K3279-03      Acquired: 6/11/2019 18:16:17      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00021 | -.00276 | .00160 | .00042 | -.00222 | .09142 | .05981 |
| Stddev | .00393  | .00186  | .00037 | .00172 | .00132  | .00656 | .00021 |
| %RSD   | 1912.9  | 67.346  | 23.135 | 414.29 | 59.237  | 7.1735 | .34716 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00434  | -.00348 | .00179 | .00238  | -.00161 | .08521 | .06004 |
| #2 | -.00255 | -.00415 | .00183 | -.00032 | -.00373 | .09076 | .05967 |
| #3 | -.00240 | -.00065 | .00117 | -.00082 | -.00132 | .09828 | .05971 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00006 | -.00005 | 13.804 | .03199 | .00365 | .00175 | .18448 |
| Stddev | .00008 | .00005  | .107   | .00028 | .00037 | .00044 | .00597 |
| %RSD   | 145.04 | 93.897  | .77304 | .89009 | 10.104 | 25.253 | 3.2387 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | .00015  | -.00009 | 13.726 | .03230 | .00406 | .00224 | .19127 |
| #2 | -.00000 | -.00005 | 13.761 | .03174 | .00356 | .00139 | .18212 |
| #3 | .00002  | -.00000 | 13.926 | .03192 | .00334 | .00160 | .18005 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00404 | 4.6048 | .02246 | .00016 | 85.196 | -.00008 | .02056 |
| Stddev | .00009 | .1063  | .00096 | .00035 | .905   | .00022  | .00043 |
| %RSD   | 2.1172 | 2.3094 | 4.2553 | 220.06 | 1.0624 | 281.28  | 2.0744 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00405 | 4.6144 | .02331 | -.00007 | 86.239 | .00001  | .02099 |
| #2 | .00413 | 4.7060 | .02264 | -.00001 | 84.612 | .00008  | .02056 |
| #3 | .00396 | 4.4940 | .02143 | .00056  | 84.737 | -.00032 | .02014 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 3.1012 | .00222 | .22031 | F 15.203 | 4.2255 | -.00862 | .00945 |
| Stddev | .0506  | .00035 | .01121 | .269     | .0517  | .00069  | .00127 |
| %RSD   | 1.6308 | 15.849 | 5.0873 | 1.7726   | 1.2225 | 7.9866  | 13.487 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 3.1008 | .00258 | .22377 | 15.485 | 4.2499 | -.00921 | .01015 |
| #2 | 3.1520 | .00219 | .22938 | 15.174 | 4.1662 | -.00786 | .00798 |
| #3 | 3.0509 | .00188 | .20778 | 14.949 | 4.2604 | -.00878 | .01022 |

Sample Name: K3279-03      Acquired: 6/11/2019 18:16:17      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .00822 | .0051  | .09842 | 4.1274 | F<.00000 |
| Stddev    | .00086 | .0014  | .00036 | .1329  | .47760   |
| %RSD      | 10.466 | 26.85  | .36611 | 3.2192 | 17.358   |
| #1        | .00728 | .0039  | .09809 | 4.1055 | -2.7651  |
| #2        | .00842 | .0048  | .09836 | 4.2698 | -2.2672  |
| #3        | .00897 | .0066  | .09880 | 4.0068 | -3.2221  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3078.5 | 47344. | 5195.5 | 86.024 | 3707.6   |
| Stddev    | 23.3   | 286.   | 29.5   | .966   | 31.6     |
| %RSD      | .75785 | .60488 | .56775 | 1.1225 | .85141   |
| #1        | 3105.3 | 47059. | 5187.3 | 85.069 | 3743.9   |
| #2        | 3063.2 | 47343. | 5228.3 | 86.002 | 3692.2   |
| #3        | 3066.9 | 47631. | 5171.0 | 87.000 | 3686.6   |

Sample Name: K3191-07      Acquired: 6/11/2019 18:31:39      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |        |          |        |         |        |         |
|--------|----------|----------|--------|----------|--------|---------|--------|---------|
| Elem   | As1890   | Tl1908   | Pb2203 | Se1960   | Sb2068 | Al3961  | Ba4934 | Be2348  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm     | ppm    | ppm     |
| Avg    | 2.1294   | -.49814  | 8.7460 | -.27948  | .00790 | 569.16  | 4.0734 | .08773  |
| Stddev | .0080    | .00417   | .0174  | .00276   | .00245 | 6.63    | .0220  | .00045  |
| %RSD   | .37727   | .83745   | .19943 | .98615   | 31.053 | 1.1644  | .53904 | .51001  |
| #1     | 2.1224   | -.49343  | 8.7261 | -.28080  | .00883 | 562.88  | 4.0485 | .08819  |
| #2     | 2.1275   | -.50138  | 8.7585 | -.28132  | .00512 | 568.52  | 4.0900 | .08772  |
| #3     | 2.1382   | -.49960  | 8.7535 | -.27631  | .00975 | 576.09  | 4.0816 | .08729  |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286   | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm     | ppm    | ppm     |
| Avg    | .31801   | 155.45   | 1.1435 | 1.5513   | 3.8283 | 328.38  | 11.778 | 247.64  |
| Stddev | .00135   | .43      | .0013  | .0069    | .0059  | 1.30    | .051   | 1.29    |
| %RSD   | .42561   | .27830   | .11723 | .44323   | .15382 | .39602  | .43046 | .52216  |
| #1     | .31939   | 155.25   | 1.1428 | 1.5434   | 3.8251 | 328.62  | 11.719 | 246.16  |
| #2     | .31795   | 155.15   | 1.1426 | 1.5539   | 3.8246 | 326.98  | 11.812 | 248.53  |
| #3     | .31668   | 155.94   | 1.1450 | 1.5564   | 3.8351 | 329.55  | 11.801 | 248.25  |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924   | Zn2138 | K_7664  | Mo2020 | B_2496  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm     | ppm    | ppm     |
| Avg    | 10.672   | -.11203  | 68.936 | 1.2969   | 11.680 | 60.217  | .05184 | -.41148 |
| Stddev | .039     | .00030   | .330   | .0011    | .016   | .313    | .00083 | .00953  |
| %RSD   | .36161   | .26640   | .47800 | .08167   | .13871 | .51991  | 1.5943 | 2.3157  |
| #1     | 10.634   | -.11237  | 68.561 | 1.2957   | 11.663 | 59.864  | .05112 | -.42208 |
| #2     | 10.711   | -.11189  | 69.064 | 1.2978   | 11.695 | 60.462  | .05166 | -.40875 |
| #3     | 10.673   | -.11183  | 69.182 | 1.2972   | 11.681 | 60.326  | .05274 | -.40361 |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361   | Li6707 | P_1774  | Sr4077 | U_3670  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm     | ppm    | ppm     |
| Avg    | F 24.602 | F 52.008 | .69007 | F 15.873 | .60505 | F 63.95 | .42853 | <.00000 |
| Stddev | .074     | .242     | .00056 | .050     | .00171 | .15     | .00115 | .17499  |
| %RSD   | .30258   | .46520   | .08127 | .31737   | .28236 | .2306   | .26936 | .91486  |
| #1     | 24.548   | 52.259   | .68947 | 15.829   | .60310 | 63.83   | .42794 | -19.147 |
| #2     | 24.687   | 51.777   | .69059 | 15.863   | .60578 | 64.11   | .42986 | -18.944 |
| #3     | 24.570   | 51.989   | .69015 | 15.928   | .60627 | 63.90   | .42778 | -19.292 |



Sample Name: K3191-07      Acquired: 6/11/2019 18:31:39      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2626.5 |
| Stddev | 6.0      |
| %RSD   | .22822   |

|    |        |
|----|--------|
| #1 | 2619.8 |
| #2 | 2628.5 |
| #3 | 2631.3 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 5875.8 | 93219. | 11606. | 68.053 | 2274.3 |
| Stddev    | 14.0   | 178.   | 64.    | .835   | 1.9    |
| %RSD      | .23783 | .19057 | .54822 | 1.2264 | .08243 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 5867.8 | 93086. | 11532. | 68.858 | 2276.4 |
| #2 | 5891.9 | 93152. | 11644. | 67.192 | 2273.4 |
| #3 | 5867.6 | 93421. | 11641. | 68.109 | 2273.0 |

Sample Name: K3191-02      Acquired: 6/11/2019 19:03:00      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .05110 | -.00403 | .00874 | .00193 | .00083 | -.09418 | .29439 |
| Stddev | .00385 | .00211  | .00075 | .00394 | .00282 | .00549  | .00327 |
| %RSD   | 7.5409 | 52.346  | 8.5849 | 204.42 | 339.14 | 5.8268  | 1.1115 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .05243 | -.00491 | .00839 | .00128  | -.00221 | -.09190 | .29095 |
| #2 | .04676 | -.00554 | .00960 | .00615  | .00337  | -.09020 | .29476 |
| #3 | .05412 | -.00162 | .00822 | -.00165 | .00134  | -.10044 | .29746 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00011 | .00026 | 107.08 | -.00091 | .00277 | .02656 | .18665 |
| Stddev | .00005 | .00015 | .45    | .00042  | .00007 | .00025 | .00171 |
| %RSD   | 41.638 | 57.839 | .41878 | 46.707  | 2.3930 | .95728 | .91551 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00007 | .00009 | 107.37 | -.00088 | .00274 | .02643 | .18509 |
| #2 | .00010 | .00039 | 107.31 | -.00050 | .00284 | .02640 | .18640 |
| #3 | .00016 | .00029 | 106.57 | -.00134 | .00272 | .02686 | .18848 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 2.4625 | 50.241 | .01054 | -.00067 | 134.52 | -.00525 | .04029 |
| Stddev | .0052  | .901   | .00028 | .00017  | .89    | .00019  | .00020 |
| %RSD   | .20957 | 1.7944 | 2.6511 | 24.712  | .66006 | 3.6145  | .48477 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 2.4568 | 49.280 | .01052 | -.00054 | 133.58 | -.00506 | .04045 |
| #2 | 2.4640 | 50.374 | .01028 | -.00086 | 134.66 | -.00527 | .04007 |
| #3 | 2.4667 | 51.068 | .01083 | -.00062 | 135.34 | -.00544 | .04035 |

|        |        |        |        |        |          |         |         |
|--------|--------|--------|--------|--------|----------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881   | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm     | ppm     |
| Avg    | 19.351 | .03040 | .22903 | 2.9495 | F 10.282 | -.00228 | -.00346 |
| Stddev | .263   | .00036 | .01218 | .0260  | .126     | .00077  | .00172  |
| %RSD   | 1.3568 | 1.1830 | 5.3194 | .88251 | 1.2259   | 33.629  | 49.631  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 19.105 | .03072 | .23535 | 2.9698 | 10.390 | -.00207 | -.00405 |
| #2 | 19.321 | .03001 | .23676 | 2.9586 | 10.313 | -.00164 | -.00481 |
| #3 | 19.628 | .03047 | .21499 | 2.9201 | 10.143 | -.00313 | -.00153 |

Sample Name: K3191-02      Acquired: 6/11/2019 19:03:00      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00704 | .0303  | .72598 | 4.5122 | F<.00000 |
| Stddev | .00130 | .0013  | .00480 | .0330  | .70851   |
| %RSD   | 18.453 | 4.291  | .66141 | .73134 | 18.254   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .00567 | .0314 | .72913 | 4.5136 | -3.6387 |
| #2 | .00720 | .0307 | .72836 | 4.4785 | -4.6792 |
| #3 | .00825 | .0289 | .72046 | 4.5445 | -3.3259 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2872.8 | 44259. | 5056.6 | 81.249 | 3354.2 |
| Stddev    | 11.9   | 98.    | 66.2   | .755   | 7.7    |
| %RSD      | .41329 | .22153 | 1.3087 | .92917 | .22948 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2878.0 | 44152. | 4994.4 | 80.446 | 3356.0 |
| #2 | 2859.2 | 44344. | 5049.4 | 81.945 | 3345.7 |
| #3 | 2881.2 | 44280. | 5126.1 | 81.354 | 3360.8 |

Sample Name: CCV07      Acquired: 6/11/2019 19:11:53      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |          |
|--------|----------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.3123   | 4.9610 | 5.0026 | 5.0845 | 5.2337 | 9.9640 | 10.030 | .25064   |
| Stddev | .0172    | .0187  | .0175  | .0217  | .0248  | .0366  | .026   | .00028   |
| %RSD   | .32341   | .37605 | .34975 | .42652 | .47287 | .36762 | .25485 | .10987   |
| #1     | 5.3317   | 4.9753 | 5.0185 | 5.1094 | 5.2603 | 9.9393 | 10.034 | .25045   |
| #2     | 5.3061   | 4.9678 | 5.0053 | 5.0740 | 5.2292 | 9.9465 | 10.002 | .25052   |
| #3     | 5.2991   | 4.9399 | 4.9839 | 5.0700 | 5.2115 | 10.006 | 10.053 | .25096   |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4486   | 24.655 | .95729 | 2.5185 | 1.3643 | 5.1092 | 2.5300 | 24.176   |
| Stddev | .0084    | .096   | .00193 | .0102  | .0081  | .0157  | .0048  | .043     |
| %RSD   | .34180   | .39000 | .20209 | .40442 | .59469 | .30717 | .18897 | .17696   |
| #1     | 2.4563   | 24.549 | .95653 | 2.5294 | 1.3734 | 5.1047 | 2.5259 | 24.219   |
| #2     | 2.4499   | 24.737 | .95585 | 2.5167 | 1.3616 | 5.0963 | 2.5289 | 24.134   |
| #3     | 2.4397   | 24.680 | .95949 | 2.5093 | 1.3578 | 5.1267 | 2.5352 | 24.174   |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4211   | 1.2421 | 24.288 | 2.3929 | 2.5469 | 25.047 | 5.3174 | 4.5862   |
| Stddev | .0110    | .0028  | .051   | .0044  | .0144  | .093   | .0233  | .0455    |
| %RSD   | .45536   | .22730 | .21041 | .18479 | .56438 | .37064 | .43752 | .99207   |
| #1     | 2.4304   | 1.2396 | 24.246 | 2.3878 | 2.5610 | 24.991 | 5.3430 | 4.5528   |
| #2     | 2.4239   | 1.2415 | 24.275 | 2.3959 | 2.5475 | 24.997 | 5.3117 | 4.5678   |
| #3     | 2.4089   | 1.2452 | 24.345 | 2.3949 | 2.5323 | 25.154 | 5.2976 | 4.6380   |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | F 5.6295 | 5.3395 | 4.9938 | 4.9870 | 4.9653 | 5.271  | 4.9937 | F 4.1460 |
| Stddev | .0112    | .0275  | .0140  | .0125  | .0238  | .018   | .0180  | .0247    |
| %RSD   | .19951   | .51523 | .28075 | .25017 | .47897 | .3403  | .36024 | .59546   |
| #1     | 5.6287   | 5.3292 | 5.0099 | 4.9749 | 4.9538 | 5.278  | 4.9817 | 4.1702   |
| #2     | 5.6412   | 5.3706 | 4.9846 | 4.9863 | 4.9926 | 5.284  | 5.0144 | 4.1209   |
| #3     | 5.6188   | 5.3185 | 4.9869 | 4.9998 | 4.9494 | 5.251  | 4.9851 | 4.1469   |

Sample Name: CCV07      Acquired: 6/11/2019 19:11:53      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2.1250 |
| Stddev | .8058    |
| %RSD   | 37.921   |

|    |        |
|----|--------|
| #1 | 1.2416 |
| #2 | 2.8197 |
| #3 | 2.3138 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3040.0 | 46612. | 5193.5 | 82.590 | 3499.2 |
| Stddev    | 18.2   | 38.    | 26.8   | 1.809  | 17.7   |
| %RSD      | .59989 | .08141 | .51682 | 2.1899 | .50648 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3019.4 | 46579. | 5201.0 | 84.658 | 3481.0 |
| #2 | 3047.0 | 46654. | 5163.7 | 81.308 | 3500.3 |
| #3 | 3053.8 | 46603. | 5215.7 | 81.803 | 3516.4 |

Sample Name: CCB07      Acquired: 6/11/2019 19:15:52      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |        |         |         |        |        |
|--------|--------|---------|---------|--------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960 | Sb2068  | Al3961  | Ba4934 | Be2348 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00395 | -.00003 | -.00090 | .00346 | -.00107 | -.00812 | .00157 | .00014 |
| Stddev | .00262 | .00047  | .00082  | .00107 | .00252  | .00300  | .00036 | .00003 |
| %RSD   | 66.485 | 1627.2  | 90.789  | 30.946 | 234.36  | 37.004  | 23.146 | 22.827 |

|    |        |         |         |        |         |         |        |        |
|----|--------|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00697 | -.00057 | -.00102 | .00262 | -.00383 | -.01156 | .00191 | .00010 |
| #2 | .00261 | .00027  | -.00003 | .00467 | -.00049 | -.00601 | .00119 | .00016 |
| #3 | .00226 | .00021  | -.00165 | .00310 | .00110  | -.00678 | .00161 | .00014 |

|        |        |         |        |        |         |        |         |         |
|--------|--------|---------|--------|--------|---------|--------|---------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     |
| Avg    | .00012 | -.00748 | .00014 | .00014 | -.00123 | .00174 | -.00000 | -.02520 |
| Stddev | .00004 | .00448  | .00022 | .00019 | .00057  | .00043 | .00001  | .01943  |
| %RSD   | 35.783 | 59.834  | 152.13 | 132.19 | 46.448  | 24.718 | 310.52  | 77.103  |

|    |        |         |         |        |         |        |         |         |
|----|--------|---------|---------|--------|---------|--------|---------|---------|
| #1 | .00010 | -.00799 | .00040  | .00001 | -.00170 | .00221 | .00000  | -.00773 |
| #2 | .00016 | -.00277 | -.00000 | .00036 | -.00141 | .00136 | -.00002 | -.04613 |
| #3 | .00008 | -.01168 | .00004  | .00006 | -.00059 | .00166 | .00000  | -.02174 |

|        |        |        |        |         |         |        |        |        |
|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00075 | .00039 | .55407 | -.00062 | -.00046 | .05624 | .00053 | .02250 |
| Stddev | .00022 | .00045 | .00302 | .00014  | .00008  | .01242 | .00028 | .01434 |
| %RSD   | 29.095 | 115.43 | .54543 | 23.394  | 17.640  | 22.082 | 53.292 | 63.750 |

|    |        |         |        |         |         |        |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|--------|
| #1 | .00061 | .00087  | .55556 | -.00078 | -.00036 | .04454 | .00067 | .02076 |
| #2 | .00100 | -.00003 | .55606 | -.00052 | -.00049 | .06927 | .00072 | .00910 |
| #3 | .00064 | .00033  | .55059 | -.00054 | -.00051 | .05491 | .00021 | .03763 |

|        |          |        |         |        |        |        |        |        |
|--------|----------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F .30837 | .01506 | -.00415 | .00037 | .00103 | -.0062 | .00005 | 3.0514 |
| Stddev | .00285   | .00116 | .00076  | .00068 | .00195 | .0006  | .00007 | .1649  |
| %RSD   | .92406   | 7.6800 | 18.264  | 185.75 | 188.73 | 10.38  | 145.36 | 5.4024 |

|    |        |        |         |         |         |        |         |        |
|----|--------|--------|---------|---------|---------|--------|---------|--------|
| #1 | .31167 | .01631 | -.00500 | .00069  | .00112  | -.0057 | -.00001 | 2.8785 |
| #2 | .30674 | .01483 | -.00393 | .00083  | .00295  | -.0069 | .00014  | 3.2068 |
| #3 | .30672 | .01403 | -.00353 | -.00042 | -.00096 | -.0059 | .00002  | 3.0689 |

Sample Name: CCB07      Acquired: 6/11/2019 19:15:52      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | .94570  |
| %RSD   | 49.804  |

|    |         |
|----|---------|
| #1 | -1.3658 |
| #2 | -1.3399 |
| #3 | -2.9907 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3195.9 | 49496. | 5261.4 | 85.117 | 3905.4 |
| Stddev    | 17.7   | 105.   | 19.8   | .790   | 8.2    |
| %RSD      | .55301 | .21132 | .37639 | .92834 | .21060 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3205.5 | 49509. | 5238.7 | 85.867 | 3910.3 |
| #2 | 3175.5 | 49386. | 5270.3 | 85.192 | 3910.0 |
| #3 | 3206.7 | 49594. | 5275.2 | 84.292 | 3895.9 |

Sample Name: K3279-02MS      Acquired: 6/11/2019 19:20:21      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |        |
|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .82699   | 1.9171 | .96618 | 1.9838 | .82620 | 2.1860 | .27442 | .19726 |
| Stddev | .00294   | .0047  | .00385 | .0033  | .00525 | .0208  | .00269 | .00054 |
| %RSD   | .35561   | .24798 | .39835 | .16742 | .63601 | .95069 | .98006 | .27284 |
| #1     | .82365   | 1.9120 | .96941 | 1.9846 | .82325 | 2.1624 | .27182 | .19679 |
| #2     | .82919   | 1.9178 | .96192 | 1.9801 | .83226 | 2.1942 | .27425 | .19785 |
| #3     | .82812   | 1.9215 | .96720 | 1.9866 | .82307 | 2.2015 | .27719 | .19712 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19122   | 25.561 | .41026 | .20908 | .33887 | 3.5297 | .21358 | 8.2430 |
| Stddev | .00014   | .163   | .00104 | .00077 | .00064 | .0056  | .00046 | .0902  |
| %RSD   | .07415   | .63908 | .25465 | .36804 | .18742 | .15867 | .21329 | 1.0938 |
| #1     | .19127   | 25.378 | .40940 | .20987 | .33859 | 3.5236 | .21371 | 8.1636 |
| #2     | .19133   | 25.613 | .40996 | .20904 | .33843 | 3.5346 | .21395 | 8.2243 |
| #3     | .19106   | 25.692 | .41143 | .20833 | .33960 | 3.5309 | .21307 | 8.3410 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52138   | .07052 | 55.519 | .29828 | .23147 | 12.782 | .44359 | .32879 |
| Stddev | .00100   | .00019 | .344   | .00102 | .00056 | .087   | .00170 | .00726 |
| %RSD   | .19123   | .27229 | .61921 | .34029 | .24053 | .68395 | .38409 | 2.2091 |
| #1     | .52209   | .07042 | 55.132 | .29736 | .23194 | 12.779 | .44480 | .33194 |
| #2     | .52024   | .07039 | 55.632 | .29937 | .23086 | 12.696 | .44432 | .32048 |
| #3     | .52180   | .07074 | 55.791 | .29811 | .23162 | 12.871 | .44164 | .33394 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 11.254 | 6.1955 | .69135 | .21484 | .21372 | 6.127  | .39623 | 4.1767 |
| Stddev | .023     | .0378  | .00204 | .00191 | .00209 | .008   | .00050 | .1062  |
| %RSD   | .20819   | .60971 | .29565 | .88765 | .97748 | .1298  | .12612 | 2.5416 |
| #1     | 11.268   | 6.2377 | .69111 | .21419 | .21612 | 6.124  | .39583 | 4.2509 |
| #2     | 11.227   | 6.1842 | .68944 | .21699 | .21266 | 6.121  | .39607 | 4.2242 |
| #3     | 11.267   | 6.1648 | .69351 | .21335 | .21236 | 6.136  | .39679 | 4.0551 |



Sample Name: K3279-02MS      Acquired: 6/11/2019 19:20:21      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 5.3709 |
| Stddev | .7385  |
| %RSD   | 13.750 |

|    |        |
|----|--------|
| #1 | 4.5435 |
| #2 | 5.6061 |
| #3 | 5.9632 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3042.0 | 47018. | 5129.7 | 82.734 | 3644.8 |
| Stddev    | 17.8   | 65.    | 36.0   | .563   | 24.2   |
| %RSD      | .58439 | .13925 | .70185 | .68053 | .66513 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3021.6 | 46942. | 5092.8 | 82.959 | 3618.4 |
| #2 | 3050.7 | 47058. | 5131.6 | 82.094 | 3666.0 |
| #3 | 3053.7 | 47053. | 5164.7 | 83.150 | 3649.9 |

Sample Name: K3279-02MSD      Acquired: 6/11/2019 19:24:28      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW31      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |        |
|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .82273   | 1.8929 | .95435 | 1.9616 | .81857 | 2.2489 | .27080 | .19473 |
| Stddev | .00190   | .0076  | .00502 | .0053  | .00241 | .0303  | .00355 | .00036 |
| %RSD   | .23148   | .40264 | .52643 | .27203 | .29488 | 1.3455 | 1.3122 | .18693 |
| #1     | .82110   | 1.8913 | .95094 | 1.9587 | .82133 | 2.2298 | .27087 | .19433 |
| #2     | .82228   | 1.8863 | .95200 | 1.9583 | .81749 | 2.2331 | .26722 | .19484 |
| #3     | .82483   | 1.9012 | .96012 | 1.9677 | .81688 | 2.2838 | .27432 | .19503 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .18865   | 25.295 | .40491 | .20704 | .33596 | 3.5272 | .21079 | 8.1295 |
| Stddev | .00120   | .120   | .00152 | .00085 | .00078 | .0081  | .00085 | .1442  |
| %RSD   | .63514   | .47520 | .37447 | .41285 | .23123 | .22846 | .40322 | 1.7732 |
| #1     | .18767   | 25.174 | .40497 | .20670 | .33589 | 3.5258 | .21063 | 8.0353 |
| #2     | .18829   | 25.295 | .40337 | .20641 | .33521 | 3.5200 | .21171 | 8.0576 |
| #3     | .18998   | 25.415 | .40640 | .20801 | .33676 | 3.5359 | .21003 | 8.2954 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .51630   | .06983 | 54.791 | .29399 | .23061 | 12.576 | .43995 | .31616 |
| Stddev | .00300   | .00017 | .351   | .00161 | .00156 | .035   | .00097 | .01031 |
| %RSD   | .58160   | .23877 | .64092 | .54657 | .67627 | .28015 | .22076 | 3.2598 |
| #1     | .51436   | .07001 | 54.696 | .29228 | .23014 | 12.592 | .43965 | .32398 |
| #2     | .51479   | .06967 | 54.496 | .29546 | .22934 | 12.536 | .43917 | .32002 |
| #3     | .51976   | .06981 | 55.179 | .29423 | .23235 | 12.601 | .44104 | .30448 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 10.622 | 6.1889 | .68277 | .21392 | .20873 | 6.038  | .39045 | 4.2557 |
| Stddev | .059     | .0477  | .00377 | .00105 | .00161 | .021   | .00035 | .1417  |
| %RSD   | .55313   | .77024 | .55217 | .49186 | .76909 | .3498  | .08838 | 3.3306 |
| #1     | 10.609   | 6.2093 | .68225 | .21489 | .21052 | 6.031  | .39051 | 4.2782 |
| #2     | 10.572   | 6.2230 | .67928 | .21280 | .20742 | 6.022  | .39007 | 4.3848 |
| #3     | 10.687   | 6.1345 | .68677 | .21408 | .20826 | 6.062  | .39076 | 4.1040 |

Sample Name: K3279-02MSD      Acquired: 6/11/2019 19:24:28      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW31 Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 4.7060 |
| Stddev | .6743  |
| %RSD   | 14.328 |

|    |        |
|----|--------|
| #1 | 5.4498 |
| #2 | 4.1347 |
| #3 | 4.5336 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3039.5 | 47184. | 5145.4 | 83.446 | 3648.0 |
| Stddev    | 10.0   | 157.   | 41.7   | 1.137  | 11.5   |
| %RSD      | .32935 | .33258 | .81101 | 1.3619 | .31615 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3028.5 | 47093. | 5133.9 | 83.907 | 3643.5 |
| #2 | 3041.8 | 47365. | 5110.7 | 82.152 | 3661.1 |
| #3 | 3048.2 | 47093. | 5191.7 | 84.280 | 3639.4 |

Sample Name: K3279-04      Acquired: 6/11/2019 19:28:35      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00018 | -.00132 | .00440 | .00098 | -.00060 | .00084 | .10936 |
| Stddev | .00171 | .00127  | .00068 | .00354 | .00068  | .01181 | .00103 |
| %RSD   | 964.09 | 96.734  | 15.535 | 361.26 | 113.14  | 1414.9 | .94043 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | .00106  | -.00098 | .00364 | .00469  | -.00138 | -.01191 | .10874 |
| #2 | .00127  | -.00025 | .00496 | .00062  | -.00014 | .01141  | .10878 |
| #3 | -.00179 | -.00273 | .00460 | -.00236 | -.00029 | .00300  | .11055 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00018 | -.00002 | 24.873 | .02264 | .00131 | .00165 | .05508 |
| Stddev | .00010 | .00005  | .133   | .00016 | .00014 | .00062 | .00066 |
| %RSD   | 54.961 | 204.78  | .53303 | .72224 | 10.534 | 37.399 | 1.2037 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00021 | -.00003 | 24.720 | .02277 | .00135 | .00175 | .05521 |
| #2 | .00025 | -.00007 | 24.947 | .02246 | .00116 | .00222 | .05436 |
| #3 | .00007 | .00003  | 24.952 | .02270 | .00143 | .00099 | .05566 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .04089 | 9.3772 | .00442 | .00025 | 61.317 | -.00011 | .03843 |
| Stddev | .00003 | .0159  | .00058 | .00046 | .125   | .00012  | .00010 |
| %RSD   | .07085 | .16950 | 13.113 | 182.75 | .20428 | 104.10  | .26610 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .04091 | 9.3895 | .00442 | .00003  | 61.325 | -.00025 | .03834 |
| #2 | .04091 | 9.3592 | .00500 | .00078  | 61.188 | -.00006 | .03854 |
| #3 | .04086 | 9.3827 | .00384 | -.00005 | 61.438 | -.00003 | .03842 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 3.9151 | .00055 | .06863 | 9.9578 | 7.3276 | -.00758 | .00200 |
| Stddev | .0462  | .00028 | .00195 | .0195  | .0278  | .00159  | .00155 |
| %RSD   | 1.1806 | 51.766 | 2.8472 | .19570 | .37984 | 21.011  | 77.528 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 3.8984 | .00029 | .07068 | 9.9422 | 7.2959 | -.00876 | .00364 |
| #2 | 3.8796 | .00085 | .06680 | 9.9796 | 7.3388 | -.00822 | .00181 |
| #3 | 3.9674 | .00049 | .06840 | 9.9516 | 7.3481 | -.00577 | .00055 |

Sample Name: K3279-04      Acquired: 6/11/2019 19:28:35      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .00741 | -.0032 | .31176 | 4.0268 | F<.00000 |
| Stddev    | .00050 | .0007  | .00146 | .0302  | .82310   |
| %RSD      | 6.8149 | 23.16  | .46750 | .75081 | 23.139   |
| #1        | .00733 | -.0041 | .31007 | 4.0046 | -3.4555  |
| #2        | .00794 | -.0028 | .31255 | 4.0612 | -2.7896  |
| #3        | .00694 | -.0028 | .31265 | 4.0144 | -4.4263  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3024.4 | 46974. | 5130.8 | 82.320 | 3655.8   |
| Stddev    | 14.0   | 186.   | 8.2    | 1.733  | 10.7     |
| %RSD      | .46181 | .39503 | .16011 | 2.1047 | .29381   |
| #1        | 3010.7 | 46763. | 5135.1 | 83.466 | 3652.3   |
| #2        | 3023.9 | 47050. | 5121.3 | 80.327 | 3647.3   |
| #3        | 3038.6 | 47110. | 5136.0 | 83.167 | 3667.9   |

Sample Name: K3279-05      Acquired: 6/11/2019 19:33:00      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |         |         |        |
|--------|---------|---------|--------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00154 | -.00153 | .00206 | .00288 | -.00117 | -.00249 | .08045 |
| Stddev | .00151  | .00040  | .00094 | .00318 | .00209  | .01315  | .00051 |
| %RSD   | 97.847  | 26.090  | 45.446 | 110.44 | 177.82  | 527.89  | .63926 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | -.00248 | -.00107 | .00110 | -.00076 | .00112  | -.01572 | .08064 |
| #2 | -.00235 | -.00179 | .00211 | .00513  | -.00296 | -.00234 | .08083 |
| #3 | .00020  | -.00172 | .00297 | .00427  | -.00168 | .01058  | .07986 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00013 | -.00005 | 21.033 | .00389 | .00086 | .00052 | .18217 |
| Stddev | .00004 | .00002  | .178   | .00022 | .00027 | .00044 | .00032 |
| %RSD   | 29.002 | 43.253  | .84800 | 5.5519 | 31.811 | 83.484 | .17400 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00008 | -.00003 | 20.895 | .00401 | .00055 | .00099 | .18229 |
| #2 | .00015 | -.00007 | 20.969 | .00401 | .00096 | .00045 | .18182 |
| #3 | .00015 | -.00005 | 21.234 | .00364 | .00106 | .00013 | .18242 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00232 | 5.1633 | .00655 | -.00002 | 28.249 | -.00032 | .01206 |
| Stddev | .00005 | .0770  | .00018 | .00051  | .032   | .00013  | .00012 |
| %RSD   | 1.9785 | 1.4907 | 2.7773 | 3390.5  | .11223 | 40.196  | .96802 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00231 | 5.2514 | .00656 | -.00023 | 28.285 | -.00018 | .01196 |
| #2 | .00229 | 5.1296 | .00636 | .00057  | 28.239 | -.00034 | .01219 |
| #3 | .00237 | 5.1090 | .00672 | -.00038 | 28.224 | -.00044 | .01204 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 3.0120 | .00025 | .05670 | 5.2952 | 4.8763 | -.00585 | .00167 |
| Stddev | .0097  | .00013 | .00768 | .0381  | .0569  | .00072  | .00280 |
| %RSD   | .32279 | 52.756 | 13.546 | .71952 | 1.1670 | 12.329  | 167.69 |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 3.0079 | .00039 | .04793 | 5.2702 | 4.8769 | -.00536 | .00102  |
| #2 | 3.0049 | .00019 | .05996 | 5.3390 | 4.8192 | -.00551 | .00475  |
| #3 | 3.0231 | .00015 | .06221 | 5.2762 | 4.9330 | -.00668 | -.00075 |

Sample Name: K3279-05      Acquired: 6/11/2019 19:33:00      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00073 | -.0014 | .22308 | 3.7316 | F<.00000 |
| Stddev | .00083  | .0004  | .00084 | .0697  | .53245   |
| %RSD   | 113.66  | 30.30  | .37824 | 1.8688 | 29.344   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00034 | -.0015 | .22287 | 3.7341 | -1.5416 |
| #2 | -.00169 | -.0016 | .22236 | 3.6606 | -1.4739 |
| #3 | -.00017 | -.0009 | .22401 | 3.8000 | -2.4281 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3046.7 | 47683. | 5212.5 | 83.910 | 3727.0 |
| Stddev    | 11.7   | 290.   | 46.3   | 1.649  | 15.9   |
| %RSD      | .38444 | .60754 | .88888 | 1.9654 | .42539 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3033.2 | 47348. | 5179.7 | 82.287 | 3724.2 |
| #2 | 3051.9 | 47842. | 5265.5 | 85.584 | 3712.7 |
| #3 | 3054.8 | 47858. | 5192.2 | 83.858 | 3744.0 |

Sample Name: K3279-06      Acquired: 6/11/2019 19:37:26      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00215 | -.00306 | .00429 | .00113 | .00074 | .09976 | .09535 |
| Stddev | .00324  | .00037  | .00056 | .00156 | .00022 | .00248 | .00118 |
| %RSD   | 150.84  | 12.043  | 12.990 | 138.16 | 29.706 | 2.4839 | 1.2388 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00547 | -.00340 | .00486 | .00293 | .00087 | .09699 | .09408 |
| #2 | -.00197 | -.00310 | .00374 | .00016 | .00086 | .10178 | .09641 |
| #3 | .00100  | -.00267 | .00428 | .00030 | .00049 | .10050 | .09556 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00016 | -.00017 | 34.108 | .00313 | .00179 | .00136 | .14563 |
| Stddev | .00006 | .00006  | .243   | .00009 | .00029 | .00021 | .00067 |
| %RSD   | 39.729 | 32.045  | .71277 | 2.8573 | 16.234 | 15.227 | .45971 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00010 | -.00024 | 33.828 | .00318 | .00173 | .00144 | .14486 |
| #2 | .00022 | -.00013 | 34.234 | .00303 | .00210 | .00152 | .14599 |
| #3 | .00015 | -.00015 | 34.263 | .00318 | .00153 | .00113 | .14605 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00783 | 11.378 | .00782 | -.00028 | 52.681 | .00011 | .01546 |
| Stddev | .00002 | .237   | .00019 | .00018  | .437   | .00029 | .00013 |
| %RSD   | .22670 | 2.0869 | 2.4494 | 66.611  | .82890 | 262.72 | .81762 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00781 | 11.106 | .00786 | -.00019 | 52.216 | .00014  | .01561 |
| #2 | .00784 | 11.540 | .00761 | -.00015 | 52.746 | -.00020 | .01541 |
| #3 | .00784 | 11.489 | .00799 | -.00049 | 53.082 | .00039  | .01538 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 5.8569 | .00035 | .10252 | F 13.435 | 8.4543 | -.00860 | .00790 |
| Stddev | .0394  | .00027 | .00850 | .010     | .0409  | .00067  | .00088 |
| %RSD   | .67267 | 77.520 | 8.2943 | .07245   | .48344 | 7.7382  | 11.192 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 5.8129 | .00057 | .09336 | 13.444 | 8.4889 | -.00829 | .00692 |
| #2 | 5.8890 | .00043 | .11016 | 13.436 | 8.4092 | -.00936 | .00812 |
| #3 | 5.8688 | .00005 | .10404 | 13.425 | 8.4648 | -.00813 | .00865 |



Sample Name: K3279-06      Acquired: 6/11/2019 19:37:26      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02161 | -.0019 | .53010 | 3.9353 | F<.00000 |
| Stddev | .00056 | .0015  | .00245 | .1678  | .01218   |
| %RSD   | 2.5727 | 79.97  | .46161 | 4.2648 | .37500   |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .02214 | -.0031 | .52785 | 4.0077 | -3.2390 |
| #2 | .02103 | -.0002 | .52974 | 3.7434 | -3.2624 |
| #3 | .02166 | -.0025 | .53270 | 4.0548 | -3.2450 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2993.9 | 46971. | 5174.8 | 84.652 | 3621.5 |
| Stddev    | 5.4    | 14.    | 32.3   | 1.795  | 11.4   |
| %RSD      | .18148 | .02919 | .62493 | 2.1204 | .31370 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2987.9 | 46967. | 5139.3 | 85.245 | 3608.4 |
| #2 | 2998.6 | 46960. | 5202.6 | 86.075 | 3628.8 |
| #3 | 2995.3 | 46986. | 5182.6 | 82.635 | 3627.3 |

Sample Name: K3279-07      Acquired: 6/11/2019 19:41:52      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-TT-MW203I      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00106 | -.00259 | .00450 | .00189 | -.00079 | .27318 | .13951 |
| Stddev | .00387 | .00004  | .00058 | .00200 | .00109  | .00779 | .00197 |
| %RSD   | 363.71 | 1.6088  | 12.984 | 105.58 | 138.24  | 2.8508 | 1.4156 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00227 | -.00254 | .00412 | .00188  | -.00192 | .27108 | .13735 |
| #2 | .00530  | -.00262 | .00517 | -.00010 | -.00070 | .26665 | .13994 |
| #3 | .00016  | -.00260 | .00420 | .00390  | .00026  | .28180 | .14123 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00028 | .00012 | 24.903 | .00317 | .01682 | .00185 | .13067 |
| Stddev | .00008 | .00005 | .183   | .00030 | .00014 | .00042 | .00058 |
| %RSD   | 28.970 | 43.541 | .73609 | 9.3664 | .83376 | 22.868 | .44595 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00036 | .00007 | 24.704 | .00312 | .01674 | .00152 | .13126 |
| #2 | .00020 | .00011 | 24.942 | .00349 | .01698 | .00169 | .13009 |
| #3 | .00027 | .00017 | 25.064 | .00290 | .01673 | .00232 | .13065 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .12052 | 8.1639 | .02718 | -.00052 | 40.738 | .00008 | .07415 |
| Stddev | .00063 | .0626  | .00036 | .00009  | .443   | .00042 | .00034 |
| %RSD   | .52450 | .76686 | 1.3395 | 17.065  | 1.0866 | 502.97 | .45871 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .12044 | 8.1082 | .02756 | -.00047 | 40.267 | -.00033 | .07443 |
| #2 | .11994 | 8.1518 | .02683 | -.00046 | 40.800 | .00051  | .07425 |
| #3 | .12119 | 8.2316 | .02715 | -.00062 | 41.146 | .00007  | .07377 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 6.3001 | .00037 | .09258 | F 16.950 | 8.9457 | -.00994 | .00779 |
| Stddev | .1081  | .00033 | .00746 | .096     | .0505  | .00078  | .00090 |
| %RSD   | 1.7164 | 88.950 | 8.0534 | .56368   | .56420 | 7.8144  | 11.608 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 6.1765 | .00018 | .09577 | 17.019 | 8.9810 | -.00944 | .00854 |
| #2 | 6.3467 | .00075 | .08406 | 16.990 | 8.9683 | -.00955 | .00678 |
| #3 | 6.3772 | .00018 | .09791 | 16.841 | 8.8879 | -.01084 | .00804 |

Sample Name: K3279-07      Acquired: 6/11/2019 19:41:52      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-TT-MW203I      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .00165 | -.0015 | .29575 | 3.8203 | F<.00000 |
| Stddev    | .00044 | .0017  | .00096 | .0728  | 1.3377   |
| %RSD      | 26.450 | 119.8  | .32607 | 1.9046 | 66.489   |
| #1        | .00203 | -.0034 | .29510 | 3.7365 | -.94346  |
| #2        | .00117 | -.0008 | .29686 | 3.8571 | -1.5801  |
| #3        | .00174 | -.0002 | .29530 | 3.8673 | -3.5122  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2991.4 | 46868. | 5161.3 | 85.551 | 3659.9   |
| Stddev    | 3.9    | 50.    | 44.6   | 2.178  | 11.9     |
| %RSD      | .13114 | .10596 | .86493 | 2.5454 | .32617   |
| #1        | 2987.6 | 46918. | 5123.2 | 87.238 | 3646.4   |
| #2        | 2991.0 | 46867. | 5150.2 | 83.092 | 3664.2   |
| #3        | 2995.5 | 46819. | 5210.4 | 86.323 | 3669.1   |

Sample Name: K3279-08      Acquired: 6/11/2019 19:46:15      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
Comment:

|        |         |          |         |        |         |        |        |        |
|--------|---------|----------|---------|--------|---------|--------|--------|--------|
| Elem   | As1890  | Tl1908   | Pb2203  | Se1960 | Sb2068  | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .14680  | -.00449  | .02500  | .00379 | -.00061 | 15.190 | .04667 | .00071 |
| Stddev | .00148  | .00095   | .00084  | .00378 | .00124  | .167   | .00057 | .00011 |
| %RSD   | 1.0060  | 21.091   | 3.3558  | 99.843 | 202.77  | 1.0962 | 1.2274 | 15.987 |
| #1     | .14794  | -.00358  | .02529  | .00112 | -.00196 | 15.381 | .04733 | .00065 |
| #2     | .14513  | -.00547  | .02565  | .00812 | .00047  | 15.107 | .04631 | .00083 |
| #3     | .14733  | -.00441  | .02405  | .00213 | -.00034 | 15.081 | .04638 | .00063 |
| Elem   | Cd2265  | Ca3736   | Cr2677  | Co2286 | Cu2247  | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00023 | 3.1090   | .01281  | .00241 | .06726  | 8.4893 | .02471 | .49094 |
| Stddev | .00009  | .0221    | .00025  | .00018 | .00077  | .0165  | .00006 | .03571 |
| %RSD   | 40.560  | .70954   | 1.9860  | 7.3804 | 1.1463  | .19430 | .25047 | 7.2740 |
| #1     | -.00014 | 3.0866   | .01311  | .00227 | .06784  | 8.4874 | .02465 | .52264 |
| #2     | -.00033 | 3.1096   | .01264  | .00261 | .06755  | 8.4739 | .02470 | .45225 |
| #3     | -.00022 | 3.1307   | .01269  | .00234 | .06638  | 8.5067 | .02478 | .49794 |
| Elem   | Ni2316  | Ag3280   | Na5895  | V_2924 | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00982  | .00028   | 83.774  | .06713 | .05513  | 2.4528 | .01903 | .12327 |
| Stddev | .00038  | .00021   | .372    | .00031 | .00033  | .0342  | .00027 | .00601 |
| %RSD   | 3.8479  | 73.150   | .44456  | .46528 | .59001  | 1.3942 | 1.4072 | 4.8784 |
| #1     | .00964  | .00038   | 83.539  | .06707 | .05502  | 2.4518 | .01881 | .12948 |
| #2     | .00957  | .00042   | 83.579  | .06685 | .05550  | 2.4876 | .01933 | .11747 |
| #3     | .01026  | .00005   | 84.203  | .06747 | .05487  | 2.4192 | .01896 | .12286 |
| Elem   | S_1820  | Si2881   | Sn1899  | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 8.7187  | F 17.643 | -.00652 | .27289 | .00473  | .9664  | .03066 | 4.0651 |
| Stddev | .0426   | .075     | .00075  | .00505 | .00146  | .0050  | .00027 | .0717  |
| %RSD   | .48827  | .42407   | 11.575  | 1.8505 | 30.816  | .5150  | .89415 | 1.7636 |
| #1     | 8.7091  | 17.590   | -.00578 | .27827 | .00386  | .9647  | .03073 | 4.0371 |
| #2     | 8.7652  | 17.729   | -.00729 | .27215 | .00392  | .9720  | .03090 | 4.0117 |
| #3     | 8.6817  | 17.610   | -.00650 | .26825 | .00642  | .9625  | .03036 | 4.1466 |

Sample Name: K3279-08      Acquired: 6/11/2019 19:46:15      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BPS1-TT-MW30      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 5.6003 |
| Stddev | 1.5602 |
| %RSD   | 27.860 |

|    |        |
|----|--------|
| #1 | 6.8226 |
| #2 | 6.1353 |
| #3 | 3.8429 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3042.5 | 47142. | 5180.3 | 82.807 | 3625.5 |
| Stddev    | 28.9   | 141.   | 29.5   | .401   | 32.5   |
| %RSD      | .94977 | .29930 | .56922 | .48485 | .89776 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3029.7 | 47000. | 5147.0 | 82.351 | 3616.8 |
| #2 | 3022.1 | 47283. | 5190.9 | 83.109 | 3598.2 |
| #3 | 3075.5 | 47144. | 5203.0 | 82.960 | 3661.6 |

Sample Name: K3279-09      Acquired: 6/11/2019 19:50:39      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-EB03-2019      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |         |        |         |         |        |
|--------|---------|--------|---------|--------|---------|---------|--------|
| Elem   | As1890  | Tl1908 | Pb2203  | Se1960 | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00008 | .00082 | -.00210 | .00068 | -.00096 | -.00924 | .00137 |
| Stddev | .00088  | .00078 | .00027  | .00161 | .00140  | .01387  | .00028 |
| %RSD   | 1094.1  | 94.294 | 12.867  | 235.93 | 145.57  | 150.11  | 20.138 |

|    |         |        |         |         |         |         |        |
|----|---------|--------|---------|---------|---------|---------|--------|
| #1 | .00039  | .00005 | -.00182 | -.00051 | -.00237 | -.00655 | .00107 |
| #2 | -.00109 | .00160 | -.00213 | .00004  | -.00094 | .00309  | .00142 |
| #3 | .00046  | .00082 | -.00236 | .00252  | .00043  | -.02426 | .00161 |

|        |        |        |         |        |        |         |         |
|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00013 | .00011 | -.00974 | .00017 | .00001 | -.00212 | -.00046 |
| Stddev | .00002 | .00002 | .00777  | .00015 | .00030 | .00015  | .00033  |
| %RSD   | 12.964 | 21.573 | 79.753  | 89.227 | 2407.3 | 7.1907  | 70.907  |

|    |        |        |         |        |         |         |         |
|----|--------|--------|---------|--------|---------|---------|---------|
| #1 | .00013 | .00010 | -.01827 | .00007 | .00003  | -.00219 | -.00045 |
| #2 | .00011 | .00010 | -.00789 | .00010 | .00031  | -.00194 | -.00014 |
| #3 | .00015 | .00014 | -.00307 | .00034 | -.00030 | -.00222 | -.00079 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00010 | .03598 | .00136 | .00010 | .93138 | -.00005 | .00479 |
| Stddev | .00001 | .01176 | .00038 | .00007 | .01074 | .00023  | .00039 |
| %RSD   | 11.775 | 32.683 | 27.604 | 68.683 | 1.1536 | 499.80  | 8.1085 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00009 | .02241 | .00179 | .00002 | .92077 | .00003  | .00524 |
| #2 | .00011 | .04302 | .00108 | .00012 | .93113 | -.00030 | .00465 |
| #3 | .00011 | .04253 | .00122 | .00015 | .94225 | .00013  | .00450 |

|        |        |        |        |        |         |         |        |
|--------|--------|--------|--------|--------|---------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | .05780 | .00007 | .00405 | .08276 | -.00513 | -.00672 | .00067 |
| Stddev | .00499 | .00007 | .00508 | .00864 | .00085  | .00059  | .00218 |
| %RSD   | 8.6273 | 101.39 | 125.19 | 10.443 | 16.542  | 8.7614  | 325.53 |

|    |        |         |        |        |         |         |         |
|----|--------|---------|--------|--------|---------|---------|---------|
| #1 | .05563 | .00010  | .00225 | .08863 | -.00430 | -.00716 | -.00173 |
| #2 | .05427 | .00011  | .00012 | .08681 | -.00600 | -.00605 | .00254  |
| #3 | .06351 | -.00001 | .00979 | .07283 | -.00508 | -.00694 | .00120  |

Sample Name: K3279-09      Acquired: 6/11/2019 19:50:39      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BP-EB03-2019      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |         |        |          |
|--------|---------|--------|---------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077  | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm     | ppm    | ppm      |
| Avg    | -.00409 | -.0065 | -.00001 | 2.2549 | F<.00000 |
| Stddev | .00021  | .0020  | .00005  | .1483  | .75425   |
| %RSD   | 5.2597  | 31.52  | 478.67  | 6.5754 | 64.659   |

|    |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|
| #1 | -.00408 | -.0042 | -.00000 | 2.0922 | -.40616 |
| #2 | -.00388 | -.0073 | .00003  | 2.2899 | -1.1788 |
| #3 | -.00431 | -.0080 | -.00006 | 2.3824 | -1.9145 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3272.3 | 51498. | 5464.9 | 90.592 | 4097.3 |
| Stddev    | 4.3    | 148.   | 24.1   | .447   | 7.8    |
| %RSD      | .13226 | .28686 | .44103 | .49392 | .19089 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3276.6 | 51667. | 5440.1 | 90.208 | 4105.9 |
| #2 | 3272.4 | 51428. | 5466.2 | 90.483 | 4090.7 |
| #3 | 3268.0 | 51398. | 5488.3 | 91.083 | 4095.3 |

Sample Name: K3265-02      Acquired: 6/11/2019 19:55:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: B-01-(0-37)C      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |         |        |         |        |
|--------|---------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934  | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .04907  | -.02393 | .29734 | -.01341 | -.00644 | 83.706 | .55800  | .01433 |
| Stddev | .00078  | .00091  | .00103 | .00506  | .00131  | .271   | .00086  | .00022 |
| %RSD   | 1.5984  | 3.7869  | .34478 | 37.740  | 20.280  | .32330 | .15408  | 1.5697 |
| #1     | .04959  | -.02295 | .29810 | -.01529 | -.00787 | 83.452 | .55731  | .01421 |
| #2     | .04817  | -.02410 | .29775 | -.00768 | -.00531 | 83.675 | .55772  | .01459 |
| #3     | .04945  | -.02474 | .29618 | -.01726 | -.00613 | 83.991 | .55896  | .01419 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00014  | 100.28  | .41850 | .33239  | .42782  | 200.86 | 3.1857  | 212.87 |
| Stddev | .00025  | .27     | .00048 | .00006  | .00241  | .62    | .0007   | .68    |
| %RSD   | 179.53  | .26882  | .11572 | .01854  | .56329  | .30716 | .02060  | .31757 |
| #1     | .00030  | 100.33  | .41827 | .33234  | .42709  | 200.57 | 3.1859  | 212.10 |
| #2     | -.00015 | 100.53  | .41906 | .33246  | .42585  | 201.57 | 3.1862  | 213.16 |
| #3     | .00026  | 99.997  | .41817 | .33239  | .43051  | 200.45 | 3.1850  | 213.36 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 4.6148  | -.00710 | 115.77 | .23055  | .61435  | 11.394 | -.00270 | .10976 |
| Stddev | .0188   | .00042  | .18    | .00054  | .00325  | .029   | .00011  | .01050 |
| %RSD   | .40799  | 5.8657  | .15251 | .23590  | .52929  | .25809 | 4.0701  | 9.5623 |
| #1     | 4.6344  | -.00698 | 115.62 | .23010  | .61692  | 11.391 | -.00269 | .10201 |
| #2     | 4.5969  | -.00676 | 115.72 | .23039  | .61069  | 11.365 | -.00260 | .12170 |
| #3     | 4.6131  | -.00756 | 115.96 | .23116  | .61543  | 11.424 | -.00281 | .10556 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 6.5965  | 2.6702  | .01537 | 2.4709  | .17828  | 4.648  | -.00462 | 2.6758 |
| Stddev | .0138   | .0263   | .00063 | .0191   | .00165  | .012   | .00047  | .1345  |
| %RSD   | .20882  | .98343  | 4.0821 | .77404  | .92805  | .2633  | 10.165  | 5.0261 |
| #1     | 6.6035  | 2.6987  | .01489 | 2.4623  | .17909  | 4.661  | -.00510 | 2.8232 |
| #2     | 6.6055  | 2.6650  | .01514 | 2.4928  | .17937  | 4.644  | -.00460 | 2.6444 |
| #3     | 6.5807  | 2.6470  | .01608 | 2.4575  | .17637  | 4.637  | -.00416 | 2.5598 |



Sample Name: K3265-02      Acquired: 6/11/2019 19:55:07      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: B-01-(0-37)C      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 243.54 |
| Stddev | 2.16     |
| %RSD   | .88773   |

|    |        |
|----|--------|
| #1 | 242.00 |
| #2 | 242.61 |
| #3 | 246.01 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3112.0 | 48918. | 5647.5 | 78.657 | 3177.7 |
| Stddev    | 26.6   | 172.   | 45.4   | 1.582  | 11.9   |
| %RSD      | .85520 | .35202 | .80355 | 2.0115 | .37543 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3109.8 | 48719. | 5600.4 | 76.938 | 3166.2 |
| #2 | 3139.7 | 49018. | 5651.3 | 80.053 | 3190.0 |
| #3 | 3086.6 | 49017. | 5690.9 | 78.981 | 3176.7 |

Sample Name: K3265-04      Acquired: 6/11/2019 19:59:24      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: B-04-COMP      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |         |        |
|--------|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934  | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .04156 | -.02984 | .44106 | -.02555 | -.00893 | 70.495 | .68504  | .01620 |
| Stddev | .00194 | .00140  | .00366 | .00321  | .00198  | .497   | .00341  | .00003 |
| %RSD   | 4.6744 | 4.6901  | .83024 | 12.556  | 22.141  | .70563 | .49708  | .19862 |
| #1     | .03944 | -.02900 | .43685 | -.02904 | -.00666 | 70.009 | .68198  | .01616 |
| #2     | .04197 | -.02905 | .44280 | -.02273 | -.00987 | 70.473 | .68444  | .01622 |
| #3     | .04326 | -.03145 | .44352 | -.02488 | -.01027 | 71.003 | .68871  | .01620 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00487 | 202.85  | .46963 | .44874  | .56956  | 230.95 | 6.4818  | 598.39 |
| Stddev | .00020 | 1.16    | .00269 | .00088  | .00329  | 1.50   | .0246   | 4.01   |
| %RSD   | 4.0977 | .57322  | .57363 | .19586  | .57732  | .64740 | .37964  | .67013 |
| #1     | .00483 | 202.63  | .47239 | .44797  | .56635  | 231.25 | 6.5052  | 594.68 |
| #2     | .00470 | 204.10  | .46948 | .44970  | .56941  | 232.27 | 6.4841  | 597.85 |
| #3     | .00509 | 201.81  | .46701 | .44854  | .57292  | 229.33 | 6.4561  | 602.64 |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 8.9000 | -.01073 | 33.872 | .17340  | .99636  | 14.852 | -.00741 | .09260 |
| Stddev | .0589  | .00068  | .177   | .00069  | .00842  | .097   | .00009  | .00464 |
| %RSD   | .66200 | 6.3129  | .52301 | .39819  | .84542  | .65546 | 1.1647  | 5.0109 |
| #1     | 8.9329 | -.01074 | 33.697 | .17333  | 1.0023  | 14.766 | -.00737 | .09241 |
| #2     | 8.8319 | -.01140 | 33.869 | .17275  | .98672  | 14.832 | -.00735 | .09733 |
| #3     | 8.9351 | -.01004 | 34.051 | .17413  | 1.0001  | 14.958 | -.00751 | .08806 |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 2.0637 | 2.7911  | .03720 | 2.3011  | .14024  | 6.493  | .41110  | 2.7348 |
| Stddev | .0051  | .0261   | .00062 | .0042   | .00042  | .008   | .00108  | .0087  |
| %RSD   | .24833 | .93606  | 1.6696 | .18441  | .30199  | .1228  | .26343  | .31942 |
| #1     | 2.0664 | 2.8085  | .03649 | 2.2992  | .14021  | 6.492  | .41019  | 2.7439 |
| #2     | 2.0668 | 2.8036  | .03746 | 2.2981  | .14067  | 6.501  | .41082  | 2.7264 |
| #3     | 2.0578 | 2.7610  | .03765 | 2.3059  | .13982  | 6.485  | .41230  | 2.7341 |

Sample Name: K3265-04      Acquired: 6/11/2019 19:59:24      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: B-04-COMP      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 295.30 |
| Stddev | 3.68     |
| %RSD   | 1.2461   |

|    |        |
|----|--------|
| #1 | 291.60 |
| #2 | 295.34 |
| #3 | 298.96 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2977.4 | 47140. | 5533.6 | 76.082 | 3006.1 |
| Stddev    | 24.7   | 98.    | 56.2   | .885   | 18.3   |
| %RSD      | .82939 | .20835 | 1.0159 | 1.1631 | .60721 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2980.4 | 47074. | 5502.9 | 76.945 | 2996.3 |
| #2 | 3000.5 | 47093. | 5499.5 | 75.177 | 3027.1 |
| #3 | 2951.3 | 47253. | 5598.5 | 76.125 | 2994.8 |

Sample Name: CCV08      Acquired: 6/11/2019 20:03:50      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15096      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |        |        |          |
|--------|--------|--------|--------|--------|----------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068   | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 5.4018 | 4.9475 | 5.0511 | 5.1341 | 5.3243   | 9.9920 | 10.150 | .25133   |
| Stddev | .0181  | .0120  | .0104  | .0116  | .0077    | .1050  | .025   | .00044   |
| %RSD   | .33526 | .24279 | .20524 | .22598 | .14512   | 1.0512 | .24228 | .17517   |
| #1     | 5.4227 | 4.9400 | 5.0422 | 5.1381 | 5.3216   | 9.9492 | 10.129 | .25182   |
| #2     | 5.3900 | 4.9412 | 5.0486 | 5.1432 | 5.3183   | 9.9150 | 10.145 | .25119   |
| #3     | 5.3927 | 4.9614 | 5.0625 | 5.1211 | 5.3331   | 10.112 | 10.177 | .25097   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247   | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.4583 | 24.623 | .95193 | 2.5410 | F 1.3919 | 5.1265 | 2.5274 | 24.393   |
| Stddev | .0054  | .062   | .00091 | .0027  | .0019    | .0098  | .0007  | .310     |
| %RSD   | .22010 | .24992 | .09598 | .10592 | .13537   | .19203 | .02799 | 1.2689   |
| #1     | 2.4560 | 24.591 | .95088 | 2.5394 | 1.3929   | 5.1369 | 2.5268 | 24.416   |
| #2     | 2.4545 | 24.585 | .95236 | 2.5395 | 1.3897   | 5.1174 | 2.5282 | 24.073   |
| #3     | 2.4645 | 24.694 | .95255 | 2.5441 | 1.3931   | 5.1251 | 2.5274 | 24.690   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138   | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.4278 | 1.2480 | 24.208 | 2.3649 | 2.5894   | 25.250 | 5.4059 | 4.5760   |
| Stddev | .0054  | .0029  | .076   | .0051  | .0046    | .057   | .0050  | .0621    |
| %RSD   | .22398 | .23396 | .31553 | .21492 | .17803   | .22556 | .09170 | 1.3578   |
| #1     | 2.4239 | 1.2508 | 24.158 | 2.3619 | 2.5853   | 25.185 | 5.4016 | 4.6235   |
| #2     | 2.4255 | 1.2482 | 24.170 | 2.3708 | 2.5885   | 25.287 | 5.4113 | 4.5057   |
| #3     | 2.4340 | 1.2450 | 24.296 | 2.3621 | 2.5944   | 25.280 | 5.4049 | 4.5989   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707   | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 5.4921 | 5.1553 | 5.0369 | 5.0148 | 4.9747   | 5.290  | 5.0057 | F 3.9060 |
| Stddev | .0116  | .0119  | .0014  | .0271  | .0150    | .004   | .0231  | .0486    |
| %RSD   | .21022 | .23002 | .02857 | .53984 | .30188   | .0834  | .46228 | 1.2452   |
| #1     | 5.4890 | 5.1563 | 5.0362 | 4.9999 | 4.9599   | 5.286  | 4.9852 | 3.8780   |
| #2     | 5.4825 | 5.1666 | 5.0360 | 4.9985 | 4.9899   | 5.288  | 5.0308 | 3.9622   |
| #3     | 5.5049 | 5.1430 | 5.0386 | 5.0460 | 4.9743   | 5.295  | 5.0011 | 3.8779   |

Sample Name: CCV08      Acquired: 6/11/2019 20:03:50      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15096      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2.1752 |
| Stddev | 1.1061   |
| %RSD   | 50.853   |

|    |        |
|----|--------|
| #1 | 2.5902 |
| #2 | .92153 |
| #3 | 3.0137 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3017.5 | 46883. | 5249.4 | 83.543 | 3494.3 |
| Stddev    | 1.5    | 186.   | 26.9   | 1.623  | 6.0    |
| %RSD      | .05102 | .39639 | .51297 | 1.9433 | .17124 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3015.8 | 46672. | 5236.3 | 85.013 | 3495.8 |
| #2 | 3018.8 | 46956. | 5231.6 | 81.800 | 3499.4 |
| #3 | 3017.8 | 47022. | 5280.4 | 83.816 | 3487.7 |

Sample Name: CCB08      Acquired: 6/11/2019 20:07:49      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSA8300      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00089 | .00006 | -.00116 | -.00240 | .00028 | -.00293 | .00121 |
| Stddev | .00155 | .00198 | .00053  | .00118  | .00047 | .01762  | .00034 |
| %RSD   | 174.99 | 3273.7 | 45.139  | 49.317  | 170.19 | 601.64  | 28.453 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00058 | .00008  | -.00064 | -.00169 | .00081  | -.00893 | .00125 |
| #2 | .00073  | -.00193 | -.00117 | -.00377 | .00011  | -.01676 | .00154 |
| #3 | .00251  | .00203  | -.00169 | -.00175 | -.00009 | .01691  | .00085 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00013 | .00017 | -.00637 | .00030 | .00011 | -.00136 | .00276 |
| Stddev | .00007 | .00007 | .02073  | .00022 | .00009 | .00012  | .00019 |
| %RSD   | 58.185 | 42.373 | 325.62  | 71.583 | 85.700 | 9.1637  | 6.7970 |

|    |        |        |         |        |        |         |        |
|----|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00021 | .00010 | -.01833 | .00042 | .00006 | -.00126 | .00272 |
| #2 | .00007 | .00024 | .01757  | .00044 | .00022 | -.00133 | .00297 |
| #3 | .00009 | .00017 | -.01834 | .00005 | .00005 | -.00150 | .00260 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00009 | .01566 | .00066 | .00038 | .24362 | -.00051 | -.00082 |
| Stddev | .00001 | .02708 | .00017 | .00079 | .00631 | .00022  | .00005  |
| %RSD   | 13.250 | 172.94 | 26.393 | 209.77 | 2.5906 | 42.331  | 5.7318  |

|    |        |         |        |         |        |         |         |
|----|--------|---------|--------|---------|--------|---------|---------|
| #1 | .00008 | .04538  | .00060 | .00028  | .23665 | -.00069 | -.00086 |
| #2 | .00010 | .00924  | .00053 | -.00036 | .24895 | -.00027 | -.00082 |
| #3 | .00009 | -.00764 | .00086 | .00121  | .24526 | -.00057 | -.00077 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | .01887 | .00064 | .01050 | F .17446 | .00876 | -.00423 | .00090 |
| Stddev | .01407 | .00030 | .00054 | .00349   | .00101 | .00097  | .00063 |
| %RSD   | 74.608 | 47.017 | 5.1162 | 1.9994   | 11.581 | 23.032  | 70.082 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .02316 | .00098 | .00995 | .17753 | .00959 | -.00400 | .00159 |
| #2 | .00314 | .00048 | .01051 | .17517 | .00763 | -.00529 | .00036 |
| #3 | .03029 | .00044 | .01102 | .17067 | .00905 | -.00338 | .00075 |

Sample Name: CCB08      Acquired: 6/11/2019 20:07:49      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSA8300      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00103 | -.0043 | .00008 | F 2.6372 | F<.00000 |
| Stddev | .00231  | .0001  | .00002 | .0434    | .29581   |
| %RSD   | 224.04  | 3.364  | 22.918 | 1.6447   | 32.854   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00288 | -.0041 | .00007 | 2.6468 | -.75906 |
| #2 | -.00177 | -.0044 | .00008 | 2.5898 | -.70174 |
| #3 | .00156  | -.0043 | .00011 | 2.6750 | -1.2403 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3141.9 | 49480. | 5296.2 | 86.958 | 3912.2 |
| Stddev    | 8.9    | 305.   | 28.9   | .653   | 2.2    |
| %RSD      | .28395 | .61687 | .54583 | .75086 | .05748 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3142.1 | 49134. | 5263.9 | 86.417 | 3913.4 |
| #2 | 3132.9 | 49592. | 5305.1 | 87.683 | 3909.6 |
| #3 | 3150.8 | 49713. | 5319.6 | 86.775 | 3913.6 |

Sample Name: K3265-06      Acquired: 6/11/2019 20:12:18      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: B-03-COMP      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .04981 | -.04576 | 1.1929 | -.01497 | .00291 | 154.77 | .61781  | .00956 |
| Stddev | .00331 | .00049  | .0024  | .00367  | .00197 | .38    | .00147  | .00014 |
| %RSD   | 6.6537 | 1.0787  | .20286 | 24.517  | 67.754 | .24506 | .23753  | 1.5049 |
| #1     | .05266 | -.04525 | 1.1957 | -.01219 | .00111 | 154.51 | .61751  | .00957 |
| #2     | .04617 | -.04624 | 1.1913 | -.01359 | .00502 | 154.59 | .61651  | .00942 |
| #3     | .05060 | -.04578 | 1.1918 | -.01913 | .00260 | 155.20 | .61940  | .00971 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .01881 | 804.24  | .15553 | .04698  | .29929 | 108.28 | 3.6993  | 135.36 |
| Stddev | .00013 | 3.87    | .00072 | .00046  | .00020 | .51    | .0020   | .80    |
| %RSD   | .69045 | .48097  | .46086 | .98256  | .06829 | .47251 | .05465  | .59457 |
| #1     | .01896 | 804.12  | .15475 | .04710  | .29923 | 107.76 | 3.6986  | 134.44 |
| #2     | .01877 | 800.43  | .15566 | .04647  | .29951 | 108.30 | 3.7015  | 135.66 |
| #3     | .01871 | 808.16  | .15617 | .04737  | .29912 | 108.79 | 3.6977  | 135.96 |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .14865 | -.01257 | 102.72 | .18532  | .56682 | 7.3325 | -.00101 | .17966 |
| Stddev | .00096 | .00025  | .26    | .00110  | .00436 | .0191  | .00006  | .00604 |
| %RSD   | .64417 | 1.9731  | .25599 | .59359  | .76835 | .26082 | 6.3698  | 3.3604 |
| #1     | .14869 | -.01277 | 102.62 | .18416  | .56855 | 7.3121 | -.00104 | .18036 |
| #2     | .14958 | -.01264 | 102.52 | .18635  | .56187 | 7.3500 | -.00094 | .17330 |
| #3     | .14767 | -.01229 | 103.02 | .18544  | .57004 | 7.3354 | -.00106 | .18531 |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | 9.6230 | 2.8681  | .01080 | 5.3770  | .11759 | 8.588  | 2.0857  | 3.3185 |
| Stddev | .0464  | .0170   | .00133 | .0542   | .00201 | .020   | .0107   | .0201  |
| %RSD   | .48235 | .59235  | 12.278 | 1.0078  | 1.7088 | .2275  | .51100  | .60550 |
| #1     | 9.6077 | 2.8813  | .00951 | 5.3233  | .11561 | 8.600  | 2.0878  | 3.3066 |
| #2     | 9.5861 | 2.8489  | .01072 | 5.3759  | .11753 | 8.565  | 2.0742  | 3.3072 |
| #3     | 9.6751 | 2.8741  | .01216 | 5.4317  | .11962 | 8.597  | 2.0952  | 3.3417 |



Sample Name: K3265-06      Acquired: 6/11/2019 20:12:18      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: B-03-COMP      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 108.97 |
| Stddev | .81      |
| %RSD   | .73966   |

|    |        |
|----|--------|
| #1 | 108.37 |
| #2 | 109.89 |
| #3 | 108.66 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2888.5 | 44892. | 5433.9 | 76.674 | 2945.7 |
| Stddev    | 16.9   | 29.    | 14.6   | .795   | 19.6   |
| %RSD      | .58651 | .06518 | .26907 | 1.0366 | .66499 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2872.0 | 44894. | 5424.2 | 75.892 | 2932.5 |
| #2 | 2905.8 | 44861. | 5450.7 | 76.651 | 2968.2 |
| #3 | 2887.7 | 44919. | 5426.9 | 77.481 | 2936.3 |

Sample Name: K3265-08      Acquired: 6/11/2019 20:16:46      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: B-02-COMP      Custom ID2:      Custom ID3:  
 Comment:

|        |        |         |        |         |         |        |         |        |
|--------|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934  | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .03896 | -.02777 | .60095 | -.01309 | -.00364 | 88.763 | .69807  | .01713 |
| Stddev | .00395 | .00292  | .00031 | .00394  | .00137  | .401   | .00211  | .00018 |
| %RSD   | 10.130 | 10.497  | .05176 | 30.132  | 37.722  | .45224 | .30226  | 1.0534 |
| #1     | .04110 | -.02889 | .60073 | -.01097 | -.00522 | 88.818 | .69954  | .01732 |
| #2     | .03440 | -.02446 | .60081 | -.01763 | -.00302 | 89.133 | .69901  | .01696 |
| #3     | .04136 | -.02996 | .60131 | -.01065 | -.00268 | 88.336 | .69565  | .01711 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00053 | 81.016  | .59686 | .35379  | .60002  | 223.11 | 3.4076  | 72.416 |
| Stddev | .00006 | .351    | .00128 | .00096  | .00330  | .31    | .0066   | .338   |
| %RSD   | 10.427 | .43370  | .21412 | .27003  | .55080  | .14025 | .19436  | .46625 |
| #1     | .00056 | 80.756  | .59776 | .35489  | .59758  | 223.39 | 3.4066  | 72.623 |
| #2     | .00057 | 80.875  | .59539 | .35316  | .59871  | 222.77 | 3.4015  | 72.598 |
| #3     | .00047 | 81.415  | .59741 | .35332  | .60378  | 223.16 | 3.4147  | 72.026 |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 3.0248 | -.00831 | 30.586 | .27495  | .71062  | 11.716 | -.00103 | .11363 |
| Stddev | .0254  | .00023  | .132   | .00176  | .00512  | .066   | .00037  | .01492 |
| %RSD   | .83829 | 2.7201  | .43249 | .63944  | .72029  | .56022 | 36.477  | 13.132 |
| #1     | 3.0465 | -.00805 | 30.715 | .27295  | .71402  | 11.679 | -.00063 | .12269 |
| #2     | 3.0309 | -.00846 | 30.591 | .27624  | .71310  | 11.792 | -.00137 | .09640 |
| #3     | 2.9969 | -.00841 | 30.451 | .27566  | .70473  | 11.677 | -.00108 | .12179 |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 8.6959 | 1.9624  | .05840 | 2.8074  | .15628  | 5.306  | .09630  | 1.1622 |
| Stddev | .0267  | .0149   | .00075 | .0087   | .00333  | .011   | .00326  | .0298  |
| %RSD   | .30741 | .75664  | 1.2812 | .31031  | 2.1279  | .1984  | 3.3842  | 2.5636 |
| #1     | 8.7264 | 1.9454  | .05793 | 2.7979  | .15596  | 5.318  | .09392  | 1.1959 |
| #2     | 8.6844 | 1.9686  | .05801 | 2.8096  | .15976  | 5.301  | .09496  | 1.1395 |
| #3     | 8.6768 | 1.9731  | .05926 | 2.8149  | .15313  | 5.299  | .10001  | 1.1511 |

Sample Name: K3265-08      Acquired: 6/11/2019 20:16:46      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: B-02-COMP      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 288.52  
Stddev      3.73  
%RSD      1.2938

#1      285.77  
#2      292.77  
#3      287.01

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3259.8 | 51361. | 5844.2 | 81.541 | 3378.6 |
| Stddev    | 9.2    | 235.   | 53.9   | 1.238  | 31.7   |
| %RSD      | .28160 | .45796 | .92274 | 1.5185 | .93952 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3256.1 | 51090. | 5853.5 | 80.201 | 3355.7 |
| #2 | 3253.1 | 51501. | 5892.9 | 82.642 | 3365.2 |
| #3 | 3270.3 | 51493. | 5786.2 | 81.780 | 3414.8 |

Sample Name: K3271-02      Acquired: 6/11/2019 20:21:02      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BAT-B1      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |         |        |
|--------|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934  | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .04607 | -.03002 | .49616 | -.00614 | -.00072 | 97.239 | .66524  | .01440 |
| Stddev | .00379 | .00109  | .00441 | .00079  | .00191  | .865   | .00401  | .00008 |
| %RSD   | 8.2163 | 3.6199  | .88857 | 12.789  | 266.09  | .88984 | .60295  | .52318 |
| #1     | .04963 | -.03099 | .49468 | -.00658 | .00078  | 96.295 | .66165  | .01432 |
| #2     | .04209 | -.03023 | .49268 | -.00524 | -.00287 | 97.430 | .66451  | .01446 |
| #3     | .04649 | -.02885 | .50112 | -.00662 | -.00006 | 97.993 | .66957  | .01443 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00156 | 60.901  | .17180 | .11659  | .37968  | 183.53 | 6.0492  | 36.356 |
| Stddev | .00013 | .185    | .00063 | .00049  | .00327  | 1.27   | .1766   | .434   |
| %RSD   | 8.0274 | .30307  | .36810 | .41640  | .86158  | .69400 | 2.9196  | 1.1937 |
| #1     | .00154 | 61.036  | .17230 | .11657  | .37831  | 184.57 | 5.9896  | 35.867 |
| #2     | .00170 | 60.691  | .17202 | .11612  | .37732  | 182.11 | 5.9100  | 36.505 |
| #3     | .00145 | 60.976  | .17109 | .11709  | .38341  | 183.91 | 6.2479  | 36.696 |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .29756 | -.00632 | 2.4752 | .23141  | .60496  | 13.191 | .00213  | .09112 |
| Stddev | .00214 | .00019  | .0331  | .00100  | .00101  | .087   | .00028  | .00865 |
| %RSD   | .71880 | 2.9274  | 1.3377 | .43170  | .16730  | .65834 | 13.382  | 9.4964 |
| #1     | .29771 | -.00629 | 2.4370 | .23143  | .60504  | 13.096 | .00235  | .09331 |
| #2     | .29535 | -.00652 | 2.4930 | .23041  | .60593  | 13.211 | .00181  | .08158 |
| #3     | .29962 | -.00616 | 2.4957 | .23240  | .60391  | 13.267 | .00223  | .09846 |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.4990 | 3.5181  | .00936 | 2.9349  | .14418  | 5.558  | -.00026 | .67076 |
| Stddev | .0076  | .0324   | .00123 | .0136   | .00179  | .027   | .00180  | .05017 |
| %RSD   | .50797 | .92193  | 13.143 | .46474  | 1.2428  | .4866  | 680.42  | 7.4801 |
| #1     | 1.4982 | 3.5555  | .00795 | 2.9198  | .14238  | 5.537  | -.00212 | .65530 |
| #2     | 1.4918 | 3.5020  | .00993 | 2.9386  | .14596  | 5.549  | .00147  | .63014 |
| #3     | 1.5069 | 3.4970  | .01020 | 2.9464  | .14419  | 5.589  | -.00014 | .72685 |

Sample Name: K3271-02      Acquired: 6/11/2019 20:21:02      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BAT-B1      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 231.96  
 Stddev      2.53  
 %RSD      1.0923

#1      229.25  
 #2      232.34  
 #3      234.27

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3407.8 | 53459. | 6035.4 | 84.331 | 3499.9 |
| Stddev    | 11.1   | 41.    | 40.8   | 2.601  | 13.7   |
| %RSD      | .32605 | .07665 | .67658 | 3.0841 | .39146 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3396.7 | 53412. | 5992.4 | 83.549 | 3484.1 |
| #2 | 3418.9 | 53488. | 6039.9 | 82.211 | 3506.2 |
| #3 | 3407.8 | 53476. | 6073.7 | 87.233 | 3509.2 |

Sample Name: K3281-01      Acquired: 6/11/2019 20:25:29      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CONCRETE-COM      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |         |         |        |        |        |        |
|--------|----------|---------|---------|---------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .05494   | -.03340 | .05650  | -.01411 | .00109 | 135.29 | .52821 | .01006 |
| Stddev | .00670   | .00061  | .00136  | .00604  | .00127 | .72    | .00345 | .00007 |
| %RSD   | 12.195   | 1.8363  | 2.4090  | 42.772  | 117.10 | .53010 | .65232 | .71269 |
| #1     | .05498   | -.03287 | .05649  | -.01801 | .00050 | 134.46 | .52426 | .00998 |
| #2     | .04823   | -.03407 | .05515  | -.00716 | .00022 | 135.67 | .52978 | .01010 |
| #3     | .06163   | -.03327 | .05787  | -.01717 | .00255 | 135.74 | .53058 | .01011 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00034  | 1204.6  | .19959  | .04393  | .18966 | 110.66 | 1.9956 | 61.614 |
| Stddev | .00005   | 12.0    | .00171  | .00033  | .00071 | .66    | .0072  | .474   |
| %RSD   | 14.811   | .99633  | .85430  | .76246  | .37638 | .59530 | .35847 | .76901 |
| #1     | -.00036  | 1213.7  | .19809  | .04410  | .19048 | 110.07 | 1.9883 | 61.218 |
| #2     | -.00028  | 1209.1  | .19924  | .04355  | .18917 | 111.37 | 2.0026 | 62.139 |
| #3     | -.00037  | 1191.0  | .20144  | .04415  | .18932 | 110.54 | 1.9961 | 61.485 |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03422   | -.01755 | .73864  | .20052  | .33060 | 5.4766 | .00176 | .36716 |
| Stddev | .00093   | .00038  | .01299  | .00187  | .00049 | .0134  | .00032 | .00626 |
| %RSD   | 2.7219   | 2.1932  | 1.7585  | .93269  | .14776 | .24394 | 17.928 | 1.7042 |
| #1     | .03523   | -.01791 | .72398  | .19840  | .33071 | 5.4874 | .00179 | .36036 |
| #2     | .03341   | -.01715 | .74871  | .20123  | .33007 | 5.4807 | .00206 | .36844 |
| #3     | .03401   | -.01760 | .74324  | .20193  | .33103 | 5.4616 | .00143 | .37268 |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 38.266 | .76176  | -.00234 | 4.0133  | .07010 | 5.496  | 3.6373 | 3.4291 |
| Stddev | .073     | .00708  | .00163  | .0125   | .00072 | .005   | .0100  | .0722  |
| %RSD   | .19160   | .92958  | 69.710  | .31215  | 1.0253 | .0949  | .27489 | 2.1051 |
| #1     | 38.324   | .76742  | -.00403 | 3.9993  | .07049 | 5.493  | 3.6466 | 3.3489 |
| #2     | 38.184   | .75382  | -.00222 | 4.0172  | .06927 | 5.493  | 3.6386 | 3.4493 |
| #3     | 38.289   | .76404  | -.00077 | 4.0235  | .07053 | 5.502  | 3.6268 | 3.4890 |

Sample Name: K3281-01      Acquired: 6/11/2019 20:25:29      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CONCRETE-COM Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 103.41  
Stddev      .24  
%RSD      .23509

#1      103.14  
#2      103.60  
#3      103.49

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2785.1 | 43124. | 5238.4 | 76.251 | 2922.8 |
| Stddev    | 2.0    | 82.    | 33.7   | 1.038  | 2.1    |
| %RSD      | .07331 | .19007 | .64404 | 1.3609 | .07280 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2782.9 | 43046. | 5204.0 | 77.332 | 2920.4 |
| #2 | 2785.4 | 43117. | 5240.0 | 76.157 | 2923.5 |
| #3 | 2787.0 | 43209. | 5271.4 | 75.263 | 2924.5 |

Sample Name: K3282-01      Acquired: 6/11/2019 20:30:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: 25082-2022      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |         |        |
|--------|---------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .05608  | -.01181 | .13556 | -.00545 | .00190 | 101.26 | .41816  | .01190 |
| Stddev | .00279  | .00115  | .00095 | .00016  | .00091 | 1.17   | .00299  | .00021 |
| %RSD   | 4.9690  | 9.6945  | .70166 | 2.9108  | 48.172 | 1.1544 | .71463  | 1.7641 |
| #1     | .05461  | -.01063 | .13585 | -.00535 | .00103 | 99.931 | .41525  | .01190 |
| #2     | .05929  | -.01189 | .13450 | -.00537 | .00181 | 101.71 | .41800  | .01212 |
| #3     | .05433  | -.01292 | .13633 | -.00563 | .00285 | 102.13 | .42122  | .01170 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.00117 | 46.394  | .19185 | .05574  | .37455 | 171.15 | 1.4887  | 16.605 |
| Stddev | .00013  | .272    | .00038 | .00037  | .00157 | .75    | .0008   | .106   |
| %RSD   | 10.962  | .58603  | .19922 | .66477  | .42028 | .43725 | .05499  | .63836 |
| #1     | -.00112 | 46.103  | .19221 | .05546  | .37282 | 170.36 | 1.4878  | 16.493 |
| #2     | -.00107 | 46.439  | .19145 | .05616  | .37590 | 171.25 | 1.4892  | 16.617 |
| #3     | -.00131 | 46.641  | .19190 | .05559  | .37493 | 171.84 | 1.4892  | 16.704 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .07119  | -.00380 | 65.903 | .24678  | .38708 | 12.016 | .00647  | .11084 |
| Stddev | .00044  | .00010  | .545   | .00061  | .00036 | .129   | .00038  | .00441 |
| %RSD   | .61601  | 2.5366  | .82672 | .24527  | .09404 | 1.0767 | 5.8401  | 3.9800 |
| #1     | .07071  | -.00391 | 65.304 | .24617  | .38731 | 11.875 | .00629  | .11578 |
| #2     | .07129  | -.00375 | 66.039 | .24680  | .38727 | 12.041 | .00622  | .10729 |
| #3     | .07157  | -.00374 | 66.368 | .24738  | .38666 | 12.130 | .00690  | .10944 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | 1.6639  | 2.2764  | .00846 | 1.0798  | .07925 | 3.625  | -.07060 | 1.5446 |
| Stddev | .0065   | .0049   | .00053 | .0035   | .00134 | .014   | .00063  | .0852  |
| %RSD   | .39136  | .21417  | 6.2943 | .32142  | 1.6851 | .3933  | .88579  | 5.5149 |
| #1     | 1.6615  | 2.2715  | .00886 | 1.0818  | .07939 | 3.616  | -.07006 | 1.6402 |
| #2     | 1.6712  | 2.2764  | .00867 | 1.0758  | .07785 | 3.642  | -.07044 | 1.4769 |
| #3     | 1.6588  | 2.2812  | .00785 | 1.0818  | .08051 | 3.618  | -.07128 | 1.5166 |



Sample Name: K3282-01      Acquired: 6/11/2019 20:30:07      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: 25082-2022      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 197.58 |
| Stddev | 2.05     |
| %RSD   | 1.0372   |

|    |        |
|----|--------|
| #1 | 199.85 |
| #2 | 197.01 |
| #3 | 195.87 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3243.0 | 50792. | 5748.0 | 82.656 | 3460.3 |
| Stddev    | 2.8    | 83.    | 29.4   | 1.962  | 7.6    |
| %RSD      | .08662 | .16295 | .51178 | 2.3739 | .22044 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3242.0 | 50871. | 5714.2 | 81.553 | 3459.8 |
| #2 | 3240.8 | 50799. | 5761.6 | 84.921 | 3452.9 |
| #3 | 3246.2 | 50706. | 5768.1 | 81.493 | 3468.1 |

Sample Name: K3283-01      Acquired: 6/11/2019 20:34:30      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: 200030-20003      Custom ID2:      Custom ID3:  
 Comment:

|        |        |         |        |         |         |        |         |        |
|--------|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934  | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .06735 | -.02535 | .18484 | -.02240 | .00027  | 237.83 | .92093  | .02232 |
| Stddev | .00208 | .00290  | .00170 | .00467  | .00355  | 2.07   | .00801  | .00022 |
| %RSD   | 3.0885 | 11.438  | .91937 | 20.845  | 1297.8  | .87146 | .87014  | .96751 |
| #1     | .06512 | -.02868 | .18491 | -.01877 | .00209  | 235.86 | .91440  | .02254 |
| #2     | .06769 | -.02340 | .18650 | -.02767 | -.00382 | 237.62 | .91852  | .02230 |
| #3     | .06924 | -.02396 | .18311 | -.02076 | .00255  | 239.99 | .92987  | .02211 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00123 | 52.725  | .27611 | .09808  | .39803  | 263.62 | 3.3660  | 18.189 |
| Stddev | .00011 | .274    | .00034 | .00054  | .00061  | 1.26   | .0012   | .091   |
| %RSD   | 9.3095 | .51965  | .12174 | .54750  | .15409  | .47723 | .03641  | .50263 |
| #1     | .00127 | 52.468  | .27598 | .09864  | .39871  | 262.51 | 3.3661  | 18.152 |
| #2     | .00132 | 52.694  | .27649 | .09804  | .39786  | 263.36 | 3.3648  | 18.123 |
| #3     | .00110 | 53.014  | .27586 | .09756  | .39751  | 264.98 | 3.3672  | 18.294 |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .11961 | -.01040 | 4.3017 | .47549  | .56468  | 8.2331 | -.00318 | .08415 |
| Stddev | .00069 | .00063  | .0157  | .00248  | .00177  | .0265  | .00043  | .01300 |
| %RSD   | .57453 | 6.0843  | .36431 | .52055  | .31368  | .32166 | 13.521  | 15.443 |
| #1     | .11992 | -.00973 | 4.2839 | .47345  | .56538  | 8.2031 | -.00333 | .09027 |
| #2     | .11883 | -.01099 | 4.3083 | .47824  | .56266  | 8.2429 | -.00351 | .09295 |
| #3     | .12010 | -.01047 | 4.3131 | .47478  | .56599  | 8.2533 | -.00269 | .06922 |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | 3.2826 | 2.3321  | .01595 | 2.1729  | .10994  | 5.245  | -.22035 | .37780 |
| Stddev | .0096  | .0186   | .00105 | .0108   | .00097  | .024   | .00126  | .14062 |
| %RSD   | .29206 | .79660  | 6.6000 | .49728  | .88013  | .4612  | .56992  | 37.220 |
| #1     | 3.2855 | 2.3495  | .01569 | 2.1611  | .10959  | 5.251  | -.21928 | .42580 |
| #2     | 3.2720 | 2.3343  | .01710 | 2.1753  | .10920  | 5.218  | -.22003 | .21947 |
| #3     | 3.2905 | 2.3125  | .01505 | 2.1823  | .11104  | 5.266  | -.22173 | .48813 |

Sample Name: K3283-01      Acquired: 6/11/2019 20:34:30      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: 200030-20003      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 372.02 |
| Stddev | 3.26     |
| %RSD   | .87565   |

|    |        |
|----|--------|
| #1 | 369.01 |
| #2 | 375.48 |
| #3 | 371.57 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3383.2 | 52469. | 5987.7 | 82.576 | 3442.8 |
| Stddev    | 6.4    | 66.    | 20.1   | 2.176  | 10.0   |
| %RSD      | .18964 | .12578 | .33491 | 2.6347 | .28981 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3376.6 | 52535. | 5973.6 | 80.147 | 3440.9 |
| #2 | 3383.7 | 52471. | 5978.9 | 83.233 | 3453.5 |
| #3 | 3389.4 | 52403. | 6010.7 | 84.347 | 3433.8 |

Sample Name: K3253-01      Acquired: 6/11/2019 20:38:57      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB8300      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |        |        |        |
|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00022 | -.00020 | -.00187 | -.00023 | .00007 | .02395 | .00174 |
| Stddev | .00164 | .00170  | .00023  | .00410  | .00058 | .00912 | .00031 |
| %RSD   | 757.68 | 869.54  | 12.426  | 1749.4  | 822.58 | 38.089 | 17.763 |

|    |         |         |         |         |         |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|
| #1 | .00102  | -.00180 | -.00162 | .00345  | -.00059 | .01835 | .00208 |
| #2 | -.00167 | -.00038 | -.00191 | .00050  | .00031  | .03448 | .00146 |
| #3 | .00130  | .00159  | -.00208 | -.00465 | .00049  | .01902 | .00169 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00010 | .00027 | .07900 | .00021 | .00014 | .00646 | .06338 |
| Stddev | .00005 | .00007 | .01547 | .00032 | .00017 | .00030 | .00022 |
| %RSD   | 43.935 | 24.238 | 19.589 | 149.01 | 121.08 | 4.7199 | .34694 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00015 | .00022 | .09623 | .00035  | .00008 | .00626 | .06338 |
| #2 | .00010 | .00025 | .07449 | -.00015 | .00034 | .00681 | .06315 |
| #3 | .00006 | .00035 | .06628 | .00044  | .00001 | .00631 | .06359 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00139 | .08029 | .00207 | .00031 | 2.6536 | -.00026 | .01059 |
| Stddev | .00004 | .02012 | .00015 | .00033 | .0082  | .00053  | .00015 |
| %RSD   | 3.0033 | 25.057 | 7.2680 | 106.40 | .30895 | 205.53  | 1.4552 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00135 | .05706 | .00225 | .00010 | 2.6618 | -.00028 | .01070 |
| #2 | .00143 | .09173 | .00199 | .00014 | 2.6454 | -.00077 | .01066 |
| #3 | .00140 | .09207 | .00198 | .00069 | 2.6535 | .00028  | .01041 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .02239 | .00002 | .00652 | .09254 | .01300 | -.00602 | .00185 |
| Stddev | .02860 | .00010 | .00599 | .00154 | .00245 | .00021  | .00167 |
| %RSD   | 127.75 | 581.03 | 91.839 | 1.6687 | 18.832 | 3.5489  | 90.685 |

|    |         |         |        |        |        |         |        |
|----|---------|---------|--------|--------|--------|---------|--------|
| #1 | -.01046 | .00007  | .00005 | .09086 | .01417 | -.00626 | .00371 |
| #2 | .04174  | -.00010 | .00764 | .09390 | .01464 | -.00594 | .00137 |
| #3 | .03588  | .00008  | .01187 | .09286 | .01019 | -.00585 | .00046 |

Sample Name: K3253-01      Acquired: 6/11/2019 20:38:57      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSAB8300      Custom ID2:      Custom ID3:  
 Comment:

|           |         |        |        |        |          |
|-----------|---------|--------|--------|--------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg       | -.00429 | -.0000 | .00049 | 1.8963 | F<.00000 |
| Stddev    | .00046  | .0009  | .00002 | .1537  | .56203   |
| %RSD      | 10.830  | 1815.  | 4.0585 | 8.1067 | 41.321   |
| #1        | -.00412 | .0009  | .00052 | 2.0536 | -1.3720  |
| #2        | -.00481 | -.0008 | .00048 | 1.7464 | -.79231  |
| #3        | -.00393 | -.0002 | .00048 | 1.8889 | -1.9162  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3242.4  | 51576. | 5491.7 | 91.481 | 4100.7   |
| Stddev    | 7.2     | 109.   | 23.9   | 2.346  | 7.3      |
| %RSD      | .22069  | .21223 | .43445 | 2.5645 | .17753   |
| #1        | 3250.5  | 51702. | 5519.2 | 93.842 | 4108.8   |
| #2        | 3237.2  | 51508. | 5476.6 | 91.450 | 4098.6   |
| #3        | 3239.4  | 51517. | 5479.4 | 89.150 | 4094.7   |

Sample Name: K3253-01DUP      Acquired: 6/11/2019 20:43:26      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15096      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |         |        |        |
|--------|--------|---------|---------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00017 | -.00046 | -.00323 | -.00166 | -.00120 | .02486 | .00172 |
| Stddev | .00161 | .00079  | .00081  | .00264  | .00104  | .01497 | .00050 |
| %RSD   | 966.85 | 173.27  | 25.124  | 158.89  | 87.357  | 60.195 | 28.756 |

|    |         |         |         |         |         |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|
| #1 | -.00162 | .00046  | -.00307 | -.00076 | -.00177 | .01779 | .00161 |
| #2 | .00153  | -.00088 | -.00411 | -.00463 | .00001  | .04206 | .00129 |
| #3 | .00059  | -.00094 | -.00251 | .00041  | -.00182 | .01475 | .00227 |

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00015 | .00025 | .04658 | .00320 | -.00002 | .00686 | .05470 |
| Stddev | .00003 | .00008 | .01487 | .00030 | .00031  | .00025 | .00128 |
| %RSD   | 17.326 | 31.201 | 31.929 | 9.4489 | 1280.1  | 3.5983 | 2.3387 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00018 | .00033 | .06376 | .00355 | -.00004 | .00668 | .05465 |
| #2 | .00013 | .00026 | .03782 | .00303 | .00030  | .00714 | .05601 |
| #3 | .00014 | .00017 | .03818 | .00302 | -.00033 | .00677 | .05345 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00070 | .03683 | .00348 | .00011 | .26723 | -.00042 | .00735 |
| Stddev | .00003 | .05197 | .00022 | .00041 | .00979 | .00046  | .00011 |
| %RSD   | 3.8881 | 141.10 | 6.3609 | 358.67 | 3.6622 | 108.69  | 1.5133 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00067 | .01320 | .00357 | -.00015 | .26336 | -.00089 | .00733 |
| #2 | .00073 | .09642 | .00322 | .00059  | .27836 | .00001  | .00747 |
| #3 | .00070 | .00088 | .00364 | -.00009 | .25997 | -.00038 | .00725 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00483 | -.00018 | .00329 | .04237 | .01282 | -.00603 | .00062 |
| Stddev | .00575 | .00024  | .00635 | .00330 | .00164 | .00088  | .00190 |
| %RSD   | 118.96 | 130.09  | 192.97 | 7.7813 | 12.776 | 14.645  | 305.04 |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .01135 | -.00044 | -.00403 | .04449 | .01284 | -.00576 | .00035  |
| #2 | .00047 | .00004  | .00660  | .03857 | .01117 | -.00532 | -.00113 |
| #3 | .00268 | -.00015 | .00730  | .04406 | .01445 | -.00702 | .00264  |

Sample Name: K3253-01DUP      Acquired: 6/11/2019 20:43:26      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV15096      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00406 | -.0030 | .00014 | 2.2455 | F<.00000 |
| Stddev | .00141  | .0019  | .00005 | .1435  | .36417   |
| %RSD   | 34.710  | 64.00  | 35.022 | 6.3906 | 26.109   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00565 | -.0013 | .00019 | 2.1121 | -.98195 |
| #2 | -.00354 | -.0051 | .00011 | 2.3973 | -1.6704 |
| #3 | -.00298 | -.0026 | .00010 | 2.2272 | -1.5320 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3214.6 | 51675. | 5477.6 | 89.525 | 4056.6 |
| Stddev    | 4.9    | 14.    | 25.1   | .737   | 1.9    |
| %RSD      | .15353 | .02623 | .45896 | .82357 | .04720 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3219.0 | 51660. | 5473.2 | 88.675 | 4057.0 |
| #2 | 3209.3 | 51677. | 5504.6 | 89.992 | 4054.5 |
| #3 | 3215.4 | 51687. | 5454.9 | 89.908 | 4058.3 |

Sample Name: K3253-01LX5      Acquired: 6/11/2019 20:47:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |         |        |        |
|--------|--------|---------|---------|---------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00209 | -.00132 | -.00194 | -.00162 | -.00069 | .02761 | .00152 |
| Stddev | .00410 | .00057  | .00071  | .00168  | .00080  | .00692 | .00061 |
| %RSD   | 196.43 | 43.173  | 36.713  | 103.60  | 115.48  | 25.057 | 40.344 |

|    |         |         |         |         |         |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|
| #1 | .00135  | -.00197 | -.00139 | -.00128 | .00023  | .03543 | .00179 |
| #2 | -.00159 | -.00108 | -.00274 | -.00345 | -.00121 | .02510 | .00082 |
| #3 | .00650  | -.00091 | -.00168 | -.00014 | -.00110 | .02229 | .00195 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00011 | .00013 | .00245 | .00074 | .00008 | .00066 | .01471 |
| Stddev | .00003 | .00005 | .00807 | .00034 | .00008 | .00031 | .00073 |
| %RSD   | 31.040 | 41.378 | 329.46 | 45.431 | 100.42 | 47.003 | 4.9685 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00015 | .00008 | -.00420 | .00066 | .00012  | .00039 | .01556 |
| #2 | .00008 | .00019 | .01143  | .00045 | .00013  | .00099 | .01429 |
| #3 | .00010 | .00012 | .00012  | .00111 | -.00001 | .00059 | .01430 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00041 | .06579 | .00139 | .00023 | .42479 | -.00039 | .00216 |
| Stddev | .00004 | .05602 | .00033 | .00043 | .01658 | .00001  | .00019 |
| %RSD   | 10.382 | 85.142 | 23.659 | 182.49 | 3.9034 | 2.5854  | 8.9107 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00038 | .12533 | .00141 | -.00022 | .40565 | -.00039 | .00219 |
| #2 | .00040 | .01413 | .00105 | .00063  | .43460 | -.00038 | .00196 |
| #3 | .00046 | .05792 | .00171 | .00030  | .43413 | -.00040 | .00234 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .01711 | -.00001 | .00490 | .11403 | .00228 | -.00559 | .00067 |
| Stddev | .01025 | .00021  | .01308 | .00195 | .00256 | .00011  | .00101 |
| %RSD   | 59.891 | 1797.1  | 267.12 | 1.7076 | 112.44 | 1.9647  | 150.06 |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .00528 | -.00005 | .01995  | .11449 | .00514 | -.00567 | .00029  |
| #2 | .02312 | .00021  | -.00166 | .11571 | .00018 | -.00564 | .00181  |
| #3 | .02293 | -.00020 | -.00361 | .11189 | .00152 | -.00546 | -.00009 |



Sample Name: K3253-01LX5      Acquired: 6/11/2019 20:47:56      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00125 | -.0046 | .00007 | 3.1203 | F<.00000 |
| Stddev | .00140  | .0009  | .00005 | .1381  | .54507   |
| %RSD   | 111.89  | 20.29  | 64.598 | 4.4266 | 25.527   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | .00034  | -.0054 | .00003 | 3.2738 | -1.5168 |
| #2 | -.00181 | -.0036 | .00012 | 3.0060 | -2.3437 |
| #3 | -.00229 | -.0047 | .00007 | 3.0810 | -2.5454 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3147.8 | 49740. | 5298.2 | 86.717 | 3898.6 |
| Stddev    | 3.1    | 233.   | 48.5   | 2.551  | 8.0    |
| %RSD      | .09858 | .46884 | .91564 | 2.9423 | .20592 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3147.2 | 49933. | 5251.0 | 84.217 | 3890.3 |
| #2 | 3151.2 | 49481. | 5295.6 | 86.617 | 3899.4 |
| #3 | 3145.0 | 49805. | 5347.9 | 89.317 | 3906.3 |

Sample Name: K3253-01MS      Acquired: 6/11/2019 20:52:25      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .85162 | 2.0032 | 1.0043 | 2.0625 | .85280 | 2.0289 | .20617 | .20077 | .19133 |
| Stddev | .00195 | .0040  | .0014  | .0082  | .00704 | .0245  | .00208 | .00031 | .00020 |
| %RSD   | .22860 | .19740 | .13883 | .39884 | .82576 | 1.2065 | 1.0082 | .15255 | .10542 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .84992 | 2.0034 | 1.0053 | 2.0552 | .84558 | 2.0153 | .20394 | .20070 | .19145 |
| #2 | .85119 | 1.9992 | 1.0027 | 2.0608 | .85318 | 2.0142 | .20654 | .20111 | .19110 |
| #3 | .85375 | 2.0071 | 1.0049 | 2.0714 | .85965 | 2.0572 | .20805 | .20051 | .19144 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.5767 | .39390 | .20575 | .37957 | 3.2368 | .21162 | 2.0265 | .49115 | .07353 |
| Stddev | .0194  | .00083 | .00036 | .00237 | .0053  | .00014 | .0413  | .00135 | .00012 |
| %RSD   | 1.2315 | .21195 | .17436 | .62442 | .16331 | .06425 | 2.0366 | .27509 | .16940 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.5645 | .39479 | .20565 | .37690 | 3.2351 | .21173 | 1.9852 | .49200 | .07359 |
| #2 | 1.5665 | .39379 | .20614 | .38040 | 3.2428 | .21166 | 2.0265 | .49186 | .07362 |
| #3 | 1.5991 | .39313 | .20544 | .38142 | 3.2326 | .21147 | 2.0677 | .48959 | .07339 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 3.1260 | .28186 | .21778 | 10.232 | .44499 | .28022 | .04543 | .91809 | .68714 |
| Stddev | .0429  | .00032 | .00062 | .165   | .00327 | .01216 | .00436 | .01777 | .00295 |
| %RSD   | 1.3731 | .11343 | .28262 | 1.6109 | .73571 | 4.3394 | 9.5994 | 1.9357 | .42895 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 3.0830 | .28149 | .21799 | 10.050 | .44122 | .27167 | .05046 | .93853 | .68807 |
| #2 | 3.1263 | .28208 | .21708 | 10.275 | .44670 | .29414 | .04279 | .90935 | .68384 |
| #3 | 3.1689 | .28201 | .21826 | 10.371 | .44706 | .27484 | .04303 | .90638 | .68952 |

|        |        |        |        |        |        |        |  |  |  |
|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |  |  |  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |  |  |  |
| Avg    | .20208 | .20793 | 5.871  | .21001 | 2.8582 | 6.9151 |  |  |  |
| Stddev | .00231 | .00129 | .007   | .00048 | .0452  | .5669  |  |  |  |
| %RSD   | 1.1450 | .62141 | .1167  | .22785 | 1.5809 | 8.1974 |  |  |  |

|    |        |        |       |        |        |        |  |  |  |
|----|--------|--------|-------|--------|--------|--------|--|--|--|
| #1 | .20170 | .20812 | 5.877 | .20947 | 2.8132 | 6.9939 |  |  |  |
| #2 | .20456 | .20656 | 5.864 | .21022 | 2.8578 | 6.3129 |  |  |  |
| #3 | .19998 | .20912 | 5.874 | .21035 | 2.9036 | 7.4384 |  |  |  |

Sample Name: K3253-01MS      Acquired: 6/11/2019 20:52:25      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3198.1 | 51127. | 5456.3 | 89.303 | 3988.5 |
| Stddev    | 29.6   | 104.   | 72.5   | 1.825  | 12.6   |
| %RSD      | .92463 | .20305 | 1.3280 | 2.0440 | .31668 |
| #1        | 3231.4 | 51126. | 5392.2 | 88.167 | 4000.5 |
| #2        | 3187.9 | 51024. | 5441.7 | 88.333 | 3989.8 |
| #3        | 3175.0 | 51231. | 5534.9 | 91.408 | 3975.3 |

Sample Name: CCV09      Acquired: 6/11/2019 20:56:35      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |        |        |          |
|--------|--------|--------|--------|--------|----------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068   | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 5.4434 | 4.9522 | 5.0812 | 5.1327 | 5.3333   | 9.9246 | 10.025 | .25189   |
| Stddev | .0134  | .0160  | .0047  | .0159  | .0124    | .0328  | .020   | .00043   |
| %RSD   | .24677 | .32324 | .09176 | .30938 | .23315   | .33021 | .19848 | .17240   |
| #1     | 5.4377 | 4.9686 | 5.0827 | 5.1339 | 5.3470   | 9.9037 | 10.014 | .25182   |
| #2     | 5.4337 | 4.9516 | 5.0850 | 5.1163 | 5.3226   | 9.9078 | 10.048 | .25149   |
| #3     | 5.4587 | 4.9366 | 5.0760 | 5.1480 | 5.3303   | 9.9624 | 10.013 | .25235   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247   | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.4630 | 24.575 | .94457 | 2.5536 | F 1.4165 | 5.1399 | 2.5393 | 24.426   |
| Stddev | .0021  | .103   | .00553 | .0028  | .0030    | .0059  | .0060  | .352     |
| %RSD   | .08632 | .41917 | .58500 | .10841 | .21045   | .11542 | .23530 | 1.4428   |
| #1     | 2.4654 | 24.478 | .94221 | 2.5553 | 1.4155   | 5.1331 | 2.5336 | 24.098   |
| #2     | 2.4623 | 24.563 | .94061 | 2.5550 | 1.4141   | 5.1432 | 2.5388 | 24.381   |
| #3     | 2.4614 | 24.683 | .95088 | 2.5504 | 1.4198   | 5.1434 | 2.5455 | 24.798   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138   | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.4235 | 1.2478 | 23.777 | 2.3371 | 2.6113   | 25.054 | 5.4698 | 4.5077   |
| Stddev | .0041  | .0036  | .023   | .0035  | .0018    | .055   | .0078  | .0457    |
| %RSD   | .16790 | .28890 | .09562 | .15016 | .06938   | .22071 | .14290 | 1.0142   |
| #1     | 2.4265 | 1.2496 | 23.783 | 2.3366 | 2.6118   | 25.033 | 5.4726 | 4.5142   |
| #2     | 2.4251 | 1.2502 | 23.797 | 2.3339 | 2.6129   | 25.117 | 5.4610 | 4.4591   |
| #3     | 2.4189 | 1.2437 | 23.752 | 2.3409 | 2.6093   | 25.013 | 5.4758 | 4.5498   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707   | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 5.4301 | 5.1916 | 5.0565 | 5.0228 | 4.9820   | 5.263  | 4.9962 | F 4.3679 |
| Stddev | .0019  | .0406  | .0078  | .0202  | .0268    | .007   | .0220  | .1368    |
| %RSD   | .03514 | .78113 | .15473 | .40234 | .53857   | .1273  | .44026 | 3.1314   |
| #1     | 5.4289 | 5.2198 | 5.0645 | 5.0040 | 5.0006   | 5.258  | 5.0120 | 4.2168   |
| #2     | 5.4323 | 5.2098 | 5.0559 | 5.0202 | 4.9942   | 5.270  | 5.0055 | 4.4037   |
| #3     | 5.4290 | 5.1451 | 5.0489 | 5.0442 | 4.9513   | 5.259  | 4.9711 | 4.4832   |

Sample Name: CCV09      Acquired: 6/11/2019 20:56:35      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 1.6171 |
| Stddev | 1.0444   |
| %RSD   | 64.581   |

|    |        |
|----|--------|
| #1 | 2.7201 |
| #2 | .64342 |
| #3 | 1.4878 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2991.9 | 46994. | 5187.0 | 81.309 | 3480.2 |
| Stddev    | 5.2    | 41.    | 26.4   | 1.591  | 4.7    |
| %RSD      | .17545 | .08630 | .50955 | 1.9570 | .13471 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2988.9 | 46980. | 5163.3 | 79.492 | 3474.8 |
| #2 | 2998.0 | 46963. | 5182.1 | 82.452 | 3483.3 |
| #3 | 2988.8 | 47040. | 5215.5 | 81.984 | 3482.4 |

Sample Name: CCB09      Acquired: 6/11/2019 21:00:34      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203  | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00151 | .00038 | -.00056 | .00323 | .00071 | -.00936 | .00131 |
| Stddev | .00063 | .00024 | .00026  | .00355 | .00243 | .01280  | .00072 |
| %RSD   | 41.570 | 62.083 | 47.012  | 110.03 | 343.51 | 136.75  | 54.912 |

|    |        |        |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|--------|
| #1 | .00105 | .00034 | -.00043 | .00662  | .00127  | -.01917 | .00117 |
| #2 | .00223 | .00017 | -.00086 | -.00046 | .00281  | .00512  | .00209 |
| #3 | .00126 | .00064 | -.00039 | .00351  | -.00195 | -.01403 | .00067 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00011 | .00016 | -.00501 | .00004 | .00002 | -.00129 | .00163 |
| Stddev | .00005 | .00006 | .00976  | .00031 | .00016 | .00026  | .00042 |
| %RSD   | 41.633 | 39.130 | 194.84  | 692.04 | 992.18 | 19.946  | 25.812 |

|    |        |        |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|--------|
| #1 | .00014 | .00020 | -.00017 | .00030  | .00011  | -.00115 | .00154 |
| #2 | .00014 | .00019 | -.01624 | -.00030 | .00010  | -.00112 | .00209 |
| #3 | .00006 | .00009 | .00138  | .00013  | -.00017 | -.00158 | .00126 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00007 | .05224 | .00060 | .00016 | .15424 | -.00046 | -.00085 |
| Stddev | .00007 | .02737 | .00011 | .00031 | .00542 | .00022  | .00004  |
| %RSD   | 103.02 | 52.395 | 17.744 | 195.89 | 3.5171 | 48.913  | 4.2762  |

|    |         |        |        |         |        |         |         |
|----|---------|--------|--------|---------|--------|---------|---------|
| #1 | .00009  | .03179 | .00072 | .00021  | .14861 | -.00050 | -.00084 |
| #2 | -.00001 | .04159 | .00054 | .00045  | .15466 | -.00066 | -.00082 |
| #3 | .00013  | .08333 | .00054 | -.00018 | .15944 | -.00022 | -.00089 |

|        |         |        |        |          |        |         |         |
|--------|---------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | -.01028 | .00061 | .01639 | F .10111 | .00601 | -.00392 | -.00030 |
| Stddev | .01730  | .00046 | .01031 | .00502   | .00124 | .00078  | .00042  |
| %RSD   | 168.31  | 75.724 | 62.876 | 4.9663   | 20.611 | 19.871  | 140.65  |

|    |         |        |        |        |        |         |         |
|----|---------|--------|--------|--------|--------|---------|---------|
| #1 | .00019  | .00101 | .02158 | .09531 | .00499 | -.00482 | .00017  |
| #2 | -.03025 | .00072 | .02308 | .10381 | .00566 | -.00352 | -.00064 |
| #3 | -.00078 | .00010 | .00452 | .10420 | .00739 | -.00342 | -.00044 |

Sample Name: CCB09      Acquired: 6/11/2019 21:00:34      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |          |          |
|--------|--------|--------|--------|----------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg    | .00052 | -.0052 | .00007 | F 3.1960 | F<.00000 |
| Stddev | .00068 | .0022  | .00003 | .1761    | .45465   |
| %RSD   | 131.35 | 41.84  | 48.315 | 5.5106   | 22.801   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | .00034  | -.0034 | .00009 | 3.3012 | -1.4735 |
| #2 | .00127  | -.0076 | .00003 | 3.2941 | -2.1950 |
| #3 | -.00005 | -.0047 | .00009 | 2.9927 | -2.3135 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3151.7 | 49655. | 5283.0 | 87.067 | 3918.0 |
| Stddev    | 14.3   | 148.   | 18.1   | .411   | 3.6    |
| %RSD      | .45480 | .29727 | .34239 | .47249 | .09079 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3137.1 | 49485. | 5301.6 | 86.825 | 3914.8 |
| #2 | 3152.0 | 49736. | 5265.5 | 86.833 | 3921.8 |
| #3 | 3165.8 | 49744. | 5281.9 | 87.542 | 3917.3 |

Sample Name: K3253-01MSD      Acquired: 6/11/2019 21:05:04      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .85616 | 2.0009 | 1.0083 | 2.0605 | .85496 | 2.0029 | .20385 | .20124 | .19223 |
| Stddev | .00935 | .0152  | .0065  | .0189  | .00478 | .0045  | .00031 | .00075 | .00120 |
| %RSD   | 1.0925 | .76138 | .64531 | .91884 | .55936 | .22403 | .15345 | .37396 | .62539 |
| #1     | .86158 | 2.0043 | 1.0069 | 2.0682 | .85473 | 2.0000 | .20349 | .20050 | .19216 |
| #2     | .84536 | 1.9843 | 1.0026 | 2.0389 | .85029 | 2.0080 | .20407 | .20200 | .19106 |
| #3     | .86153 | 2.0142 | 1.0154 | 2.0743 | .85985 | 2.0006 | .20399 | .20122 | .19347 |
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.5576 | .39065 | .20613 | .38090 | 3.2309 | .21190 | 2.0502 | .49225 | .07323 |
| Stddev | .0130  | .00113 | .00126 | .00244 | .0086  | .00059 | .0211  | .00360 | .00035 |
| %RSD   | .83747 | .29026 | .61273 | .64007 | .26481 | .27870 | 1.0300 | .73184 | .47439 |
| #1     | 1.5434 | .39189 | .20582 | .38173 | 3.2403 | .21240 | 2.0745 | .49276 | .07363 |
| #2     | 1.5606 | .38968 | .20506 | .37816 | 3.2237 | .21125 | 2.0371 | .48842 | .07302 |
| #3     | 1.5690 | .39037 | .20752 | .38282 | 3.2286 | .21206 | 2.0388 | .49557 | .07304 |
| Elem   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 3.1045 | .27921 | .21808 | 10.130 | .44859 | .26727 | .04236 | .92444 | .68718 |
| Stddev | .0083  | .00025 | .00081 | .037   | .00222 | .01555 | .00361 | .00623 | .00326 |
| %RSD   | .26606 | .08905 | .36941 | .36498 | .49458 | 5.8191 | 8.5200 | .67349 | .47503 |
| #1     | 3.1051 | .27905 | .21797 | 10.092 | .44767 | .28511 | .04648 | .91801 | .68608 |
| #2     | 3.1124 | .27908 | .21734 | 10.165 | .44699 | .26014 | .04089 | .93044 | .68460 |
| #3     | 3.0959 | .27949 | .21894 | 10.134 | .45113 | .25656 | .03973 | .92486 | .69085 |
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |        |        |        |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |        |        |        |
| Avg    | .20266 | .20612 | 5.873  | .20796 | 2.9862 | 5.0476 |        |        |        |
| Stddev | .00109 | .00043 | .027   | .00096 | .0882  | .6529  |        |        |        |
| %RSD   | .53696 | .20795 | .4598  | .46267 | 2.9522 | 12.934 |        |        |        |
| #1     | .20385 | .20605 | 5.863  | .20695 | 2.9254 | 4.7793 |        |        |        |
| #2     | .20171 | .20574 | 5.853  | .20807 | 2.9459 | 5.7919 |        |        |        |
| #3     | .20241 | .20659 | 5.904  | .20887 | 3.0873 | 4.5716 |        |        |        |



Sample Name: K3253-01MSD      Acquired: 6/11/2019 21:05:04      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3216.1 | 51580. | 5490.6 | 91.472 | 4015.6 |
| Stddev    | 2.7    | 172.   | 8.8    | .134   | 4.6    |
| %RSD      | .08271 | .33441 | .16018 | .14614 | .11491 |
| #1        | 3216.5 | 51465. | 5482.6 | 91.483 | 4019.1 |
| #2        | 3213.3 | 51496. | 5500.0 | 91.333 | 4010.3 |
| #3        | 3218.5 | 51778. | 5489.1 | 91.600 | 4017.3 |

Sample Name: K3253-01A      Acquired: 6/11/2019 21:09:12      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .85192 | 1.9914 | .99957 | 2.0480 | .84803 | 1.9855 | .20384 | .20078 | .19089 |
| Stddev | .00495 | .0010  | .00253 | .0087  | .00255 | .0194  | .00149 | .00046 | .00023 |
| %RSD   | .58096 | .05110 | .25273 | .42407 | .30118 | .97496 | .73059 | .22889 | .12009 |
| #1     | .84811 | 1.9904 | .99979 | 2.0553 | .84604 | 1.9654 | .20269 | .20108 | .19074 |
| #2     | .85014 | 1.9915 | 1.0020 | 2.0504 | .84713 | 1.9871 | .20332 | .20026 | .19115 |
| #3     | .85752 | 1.9924 | .99694 | 2.0384 | .85091 | 2.0041 | .20552 | .20102 | .19078 |
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.5718 | .39061 | .20453 | .37765 | 3.2105 | .21147 | 1.9056 | .48838 | .07288 |
| Stddev | .0043  | .00143 | .00029 | .00124 | .0042  | .00041 | .0364  | .00051 | .00052 |
| %RSD   | .27379 | .36608 | .14376 | .32930 | .13049 | .19224 | 1.9123 | .10349 | .71150 |
| #1     | 1.5764 | .38898 | .20486 | .37624 | 3.2064 | .21113 | 1.8874 | .48788 | .07270 |
| #2     | 1.5711 | .39164 | .20440 | .37813 | 3.2102 | .21136 | 1.9476 | .48889 | .07347 |
| #3     | 1.5679 | .39122 | .20432 | .37858 | 3.2148 | .21192 | 1.8819 | .48838 | .07248 |
| Elem   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 3.0897 | .27988 | .21678 | 10.075 | .44451 | .27338 | .04097 | .92102 | .68074 |
| Stddev | .0117  | .00017 | .00007 | .017   | .00086 | .00725 | .00113 | .00414 | .00041 |
| %RSD   | .37766 | .06192 | .03064 | .16521 | .19354 | 2.6509 | 2.7574 | .44961 | .06006 |
| #1     | 3.0785 | .27969 | .21675 | 10.056 | .44508 | .26993 | .04004 | .92267 | .68091 |
| #2     | 3.0887 | .27993 | .21674 | 10.086 | .44352 | .28171 | .04222 | .92408 | .68103 |
| #3     | 3.1018 | .28003 | .21686 | 10.084 | .44494 | .26850 | .04063 | .91631 | .68027 |
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |        |        |        |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |        |        |        |
| Avg    | .20337 | .20730 | 5.836  | .20806 | 3.1441 | 6.3113 |        |        |        |
| Stddev | .00359 | .00142 | .021   | .00084 | .0840  | .3783  |        |        |        |
| %RSD   | 1.7652 | .68472 | .3671  | .40315 | 2.6725 | 5.9944 |        |        |        |
| #1     | .20012 | .20805 | 5.812  | .20807 | 3.0471 | 5.9337 |        |        |        |
| #2     | .20275 | .20566 | 5.842  | .20722 | 3.1892 | 6.3100 |        |        |        |
| #3     | .20722 | .20818 | 5.853  | .20890 | 3.1959 | 6.6903 |        |        |        |

Sample Name: K3253-01A      Acquired: 6/11/2019 21:09:12      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3197.7 | 51477. | 5459.7 | 90.433 | 3997.3 |
| Stddev    | 4.8    | 124.   | 15.3   | .327   | 7.8    |
| %RSD      | .14872 | .24165 | .27995 | .36197 | .19390 |
| #1        | 3203.0 | 51562. | 5448.7 | 90.508 | 4004.8 |
| #2        | 3193.9 | 51535. | 5477.2 | 90.717 | 3989.3 |
| #3        | 3196.1 | 51334. | 5453.3 | 90.075 | 3997.7 |

Sample Name: K3254-01      Acquired: 6/11/2019 21:13:20      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00219 | .00008 | .00467 | .00151 | -.00107 | .00892 | .00379 |
| Stddev | .00263 | .00032 | .00067 | .00109 | .00111  | .00941 | .00023 |
| %RSD   | 119.96 | 387.70 | 14.323 | 72.210 | 104.42  | 105.45 | 6.1367 |

|    |         |         |        |        |         |        |        |
|----|---------|---------|--------|--------|---------|--------|--------|
| #1 | -.00019 | .00030  | .00390 | .00073 | -.00074 | .00740 | .00355 |
| #2 | .00175  | -.00028 | .00499 | .00275 | -.00231 | .00037 | .00381 |
| #3 | .00501  | .00022  | .00512 | .00104 | -.00015 | .01900 | .00401 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00011 | .00020 | .13236 | .00039 | .00015 | .04719 | .21728 |
| Stddev | .00001 | .00003 | .00975 | .00021 | .00010 | .00035 | .00041 |
| %RSD   | 10.094 | 16.179 | 7.3668 | 54.164 | 65.740 | .73541 | .19077 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00012 | .00017 | .14188 | .00042 | .00024 | .04751 | .21767 |
| #2 | .00010 | .00023 | .12240 | .00058 | .00016 | .04682 | .21732 |
| #3 | .00011 | .00022 | .13281 | .00017 | .00004 | .04723 | .21685 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00474 | .03570 | .04679 | .00033 | .19472 | -.00035 | .12144 |
| Stddev | .00007 | .02859 | .00038 | .00032 | .00373 | .00042  | .00043 |
| %RSD   | 1.5107 | 80.096 | .80865 | 97.084 | 1.9167 | 121.21  | .35549 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00467 | .06105 | .04636 | .00070 | .19564 | .00004  | .12122 |
| #2 | .00481 | .04133 | .04697 | .00014 | .19790 | -.00079 | .12116 |
| #3 | .00473 | .00471 | .04705 | .00015 | .19061 | -.00028 | .12194 |

|        |         |        |        |        |        |         |        |
|--------|---------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.03376 | .00013 | .01563 | .05048 | .00698 | -.00601 | .00176 |
| Stddev | .00908  | .00029 | .00800 | .00195 | .00125 | .00029  | .00088 |
| %RSD   | 26.889  | 227.65 | 51.148 | 3.8721 | 17.898 | 4.7983  | 49.975 |

|    |         |         |        |        |        |         |        |
|----|---------|---------|--------|--------|--------|---------|--------|
| #1 | -.03987 | -.00008 | .00713 | .04868 | .00751 | -.00575 | .00102 |
| #2 | -.02333 | .00000  | .02301 | .05256 | .00788 | -.00596 | .00273 |
| #3 | -.03808 | .00045  | .01676 | .05020 | .00555 | -.00632 | .00152 |

Sample Name: K3254-01      Acquired: 6/11/2019 21:13:20      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00297 | -.0014 | .00008 | 2.7233 | F<.00000 |
| Stddev | .00154  | .0007  | .00006 | .2136  | .71631   |
| %RSD   | 51.850  | 46.78  | 67.006 | 7.8421 | 31.738   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00441 | -.0018 | .00002 | 2.8238 | -3.0806 |
| #2 | -.00134 | -.0007 | .00011 | 2.8682 | -1.7799 |
| #3 | -.00317 | -.0018 | .00012 | 2.4781 | -1.9103 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3228.9 | 51493. | 5491.3 | 90.439 | 4045.3 |
| Stddev    | 14.4   | 211.   | 25.6   | .778   | 6.5    |
| %RSD      | .44615 | .40886 | .46582 | .86016 | .15996 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3218.5 | 51589. | 5462.0 | 90.850 | 4050.2 |
| #2 | 3222.9 | 51639. | 5509.1 | 90.925 | 4047.9 |
| #3 | 3245.4 | 51252. | 5502.9 | 89.542 | 4038.0 |

Sample Name: K3265-13      Acquired: 6/11/2019 21:17:47      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |         |         |        |        |        |
|--------|----------|----------|----------|---------|---------|--------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01798   | -.00686  | .05015   | -.00998 | -.00220 | .58184 | 1.0862 | .00020 |
| Stddev | .00819   | .00262   | .00123   | .00574  | .00470  | .04972 | .0119  | .00012 |
| %RSD   | 45.552   | 38.121   | 2.4620   | 57.547  | 214.08  | 8.5455 | 1.0986 | 61.166 |
| #1     | .02712   | -.00506  | .04873   | -.00335 | .00138  | .61006 | 1.0964 | .00006 |
| #2     | .01131   | -.00986  | .05084   | -.01306 | -.00752 | .61104 | 1.0892 | .00028 |
| #3     | .01551   | -.00566  | .05089   | -.01352 | -.00045 | .52443 | 1.0731 | .00026 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00234  | 469.90   | -.00946  | .02852  | .02144  | 1.5561 | 8.9790 | 613.95 |
| Stddev | .00018   | 2.82     | .00079   | .00101  | .00179  | .0324  | .1165  | 13.79  |
| %RSD   | 7.8463   | .60079   | 8.3369   | 3.5457  | 8.3585  | 2.0841 | 1.2977 | 2.2459 |
| #1     | -.00222  | 473.01   | -.00863  | .02769  | .01959  | 1.5870 | 9.0965 | 615.37 |
| #2     | -.00224  | 467.51   | -.01020  | .02823  | .02156  | 1.5591 | 8.9771 | 599.51 |
| #3     | -.00255  | 469.18   | -.00955  | .02965  | .02316  | 1.5223 | 8.8635 | 626.98 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .16875   | -.00132  | F 5707.7 | -.02800 | .07382  | 458.66 | .02616 | .61956 |
| Stddev | .00095   | .00055   | 255.8    | .00047  | .00127  | 14.41  | .00015 | .00757 |
| %RSD   | .56240   | 41.240   | 4.4812   | 1.6850  | 1.7182  | 3.1424 | .58107 | 1.2225 |
| #1     | .16766   | -.00078  | 5761.8   | -.02835 | .07305  | 443.59 | .02617 | .62830 |
| #2     | .16941   | -.00132  | 5429.3   | -.02746 | .07313  | 460.07 | .02601 | .61553 |
| #3     | .16918   | -.00187  | 5932.2   | -.02819 | .07529  | 472.31 | .02631 | .61485 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | F 1102.9 | F 16.386 | -.41096  | .00793  | .56396  | .1627  | 5.9893 | 11.412 |
| Stddev | 16.3     | .164     | .00636   | .00134  | .01875  | .0043  | .1089  | .055   |
| %RSD   | 1.4814   | 1.0025   | 1.5488   | 16.911  | 3.3240  | 2.670  | 1.8174 | .48361 |
| #1     | 1091.3   | 16.454   | -.40568  | .00819  | .57003  | .1654  | 6.0251 | 11.423 |
| #2     | 1095.8   | 16.506   | -.40916  | .00912  | .57892  | .1577  | 6.0756 | 11.352 |
| #3     | 1121.6   | 16.199   | -.41803  | .00648  | .54293  | .1650  | 5.8670 | 11.461 |

Sample Name: K3265-13      Acquired: 6/11/2019 21:17:47      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | .30716 |
| Stddev | 1.4414 |
| %RSD   | 469.27 |

|    |         |
|----|---------|
| #1 | -1.3039 |
| #2 | 1.4748  |
| #3 | .75057  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 1328.8 | 20936. | 3624.2 | 53.188 | 1295.6 |
| Stddev    | 23.8   | 275.   | 9.1    | 1.182  | 19.5   |
| %RSD      | 1.7948 | 1.3145 | .25083 | 2.2213 | 1.5021 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 1327.5 | 20882. | 3615.9 | 51.909 | 1296.6 |
| #2 | 1353.3 | 21233. | 3622.8 | 53.416 | 1314.5 |
| #3 | 1305.6 | 20691. | 3633.9 | 54.238 | 1275.6 |

Sample Name: CCV10      Acquired: 6/11/2019 21:22:19      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |          |        |          |        |        |          |
|--------|----------|--------|----------|--------|----------|--------|--------|----------|
| Elem   | As1890   | Tl1908 | Pb2203   | Se1960 | Sb2068   | Al3961 | Ba4934 | Be2348   |
| Units  | ppm      | ppm    | ppm      | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 5.3524   | 4.8895 | 5.0309   | 5.0249 | 5.2452   | 9.7078 | 9.7703 | .24934   |
| Stddev | .0193    | .0197  | .0110    | .0084  | .0216    | .0959  | .0610  | .00072   |
| %RSD   | .36008   | .40321 | .21828   | .16751 | .41218   | .98798 | .62434 | .28986   |
| #1     | 5.3635   | 4.9097 | 5.0385   | 5.0343 | 5.2680   | 9.7272 | 9.7858 | .25009   |
| #2     | 5.3635   | 4.8885 | 5.0183   | 5.0224 | 5.2425   | 9.7926 | 9.8221 | .24929   |
| #3     | 5.3301   | 4.8703 | 5.0360   | 5.0180 | 5.2250   | 9.6037 | 9.7031 | .24865   |
| Elem   | Cd2265   | Ca3736 | Cr2677   | Co2286 | Cu2247   | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm    | ppm      | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.4410   | 24.419 | .93287   | 2.5272 | F 1.3960 | 5.0695 | 2.5165 | 23.913   |
| Stddev | .0038    | .136   | .00038   | .0067  | .0047    | .0093  | .0022  | .197     |
| %RSD   | .15694   | .55753 | .04045   | .26415 | .33986   | .18293 | .08764 | .82473   |
| #1     | 2.4454   | 24.359 | .93329   | 2.5338 | 1.4002   | 5.0784 | 2.5184 | 24.006   |
| #2     | 2.4387   | 24.322 | .93274   | 2.5205 | 1.3970   | 5.0599 | 2.5171 | 24.047   |
| #3     | 2.4390   | 24.575 | .93256   | 2.5274 | 1.3908   | 5.0701 | 2.5141 | 23.687   |
| Elem   | Ni2316   | Ag3280 | Na5895   | V_2924 | Zn2138   | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm    | ppm      | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.3989   | 1.2277 | F 32.924 | 2.3091 | 2.5842   | 25.506 | 5.4029 | F 4.4056 |
| Stddev | .0049    | .0039  | .806     | .0032  | .0071    | .231   | .0160  | .0067    |
| %RSD   | .20413   | .31618 | 2.4484   | .14030 | .27461   | .90413 | .29607 | .15149   |
| #1     | 2.4038   | 1.2318 | 33.675   | 2.3055 | 2.5921   | 25.688 | 5.4186 | 4.4000   |
| #2     | 2.3988   | 1.2271 | 33.023   | 2.3097 | 2.5785   | 25.584 | 5.4034 | 4.4040   |
| #3     | 2.3940   | 1.2242 | 32.072   | 2.3119 | 2.5819   | 25.247 | 5.3867 | 4.4130   |
| Elem   | S_1820   | Si2881 | Sn1899   | Ti3361 | Li6707   | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm    | ppm      | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | F 5.8714 | 5.1236 | 5.0166   | 4.9634 | 5.0101   | 5.186  | 4.9221 | 4.6118   |
| Stddev | .2650    | .0484  | .0159    | .0242  | .0109    | .015   | .0200  | .0951    |
| %RSD   | 4.5128   | .94541 | .31601   | .48666 | .21799   | .2932  | .40644 | 2.0615   |
| #1     | 6.1660   | 5.1268 | 5.0301   | 4.9487 | 5.0057   | 5.201  | 4.9070 | 4.5971   |
| #2     | 5.7955   | 5.0737 | 5.0205   | 4.9503 | 5.0021   | 5.185  | 4.9145 | 4.7135   |
| #3     | 5.6526   | 5.1704 | 4.9991   | 4.9913 | 5.0226   | 5.171  | 4.9447 | 4.5250   |



Sample Name: CCV10      Acquired: 6/11/2019 21:22:19      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2.4495 |
| Stddev | 1.1867   |
| %RSD   | 48.448   |

|    |        |
|----|--------|
| #1 | 3.4745 |
| #2 | 2.7246 |
| #3 | 1.1494 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3014.7 | 47429. | 5162.8 | 83.057 | 3495.5 |
| Stddev    | 12.0   | 374.   | 43.1   | 2.425  | 13.6   |
| %RSD      | .39858 | .78807 | .83470 | 2.9200 | .38931 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3003.5 | 47008. | 5137.0 | 85.758 | 3480.8 |
| #2 | 3013.3 | 47561. | 5212.5 | 81.067 | 3498.1 |
| #3 | 3027.4 | 47720. | 5138.8 | 82.345 | 3507.6 |

Sample Name: CCB10      Acquired: 6/11/2019 21:26:18      Type: Unk  
Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |         |         |         |        |
|--------|--------|--------|--------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00245 | .00038 | .00040 | -.00108 | -.00086 | -.00808 | .00190 |
| Stddev | .00059 | .00050 | .00079 | .00154  | .00159  | .01325  | .00052 |
| %RSD   | 23.903 | 129.83 | 193.98 | 143.24  | 185.00  | 164.08  | 27.563 |

|    |        |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00281 | -.00010 | -.00036 | .00004  | .00065  | -.00281 | .00152 |
| #2 | .00276 | .00036  | .00036  | -.00284 | -.00252 | -.02315 | .00250 |
| #3 | .00177 | .00089  | .00121  | -.00043 | -.00070 | .00174  | .00168 |

|        |        |        |         |        |        |         |        |
|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00012 | .00011 | -.00343 | .00011 | .00000 | -.00060 | .00203 |
| Stddev | .00006 | .00004 | .00337  | .00031 | .00012 | .00023  | .00068 |
| %RSD   | 52.735 | 34.799 | 98.310  | 271.67 | 6558.9 | 38.123  | 33.396 |

|    |        |        |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|--------|
| #1 | .00016 | .00007 | -.00034 | .00046  | -.00013 | -.00056 | .00259 |
| #2 | .00014 | .00013 | -.00702 | -.00011 | .00005  | -.00085 | .00223 |
| #3 | .00005 | .00013 | -.00292 | -.00001 | .00008  | -.00039 | .00128 |

|        |        |         |        |        |          |         |         |
|--------|--------|---------|--------|--------|----------|---------|---------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280 | Na5895   | V_2924  | Zn2138  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm      | ppm     | ppm     |
| Avg    | .00007 | -.00489 | .00006 | .00053 | F 6.6040 | -.00055 | -.00084 |
| Stddev | .00003 | .02376  | .00020 | .00023 | .0130    | .00008  | .00015  |
| %RSD   | 40.623 | 486.12  | 322.99 | 42.849 | .19626   | 14.860  | 17.667  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .00005 | .01669  | -.00016 | .00035 | 6.6121 | -.00047 | -.00094 |
| #2 | .00010 | -.03034 | .00014  | .00045 | 6.6108 | -.00056 | -.00090 |
| #3 | .00006 | -.00101 | .00021  | .00078 | 6.5890 | -.00063 | -.00067 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | .43335 | .00107 | .01356 | F .12098 | .00651 | -.00301 | .00031 |
| Stddev | .01285 | .00039 | .01294 | .00468   | .00203 | .00074  | .00204 |
| %RSD   | 2.9652 | 36.435 | 95.397 | 3.8664   | 31.203 | 24.494  | 662.87 |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | .43997 | .00131 | .01269 | .12570 | .00885 | -.00265 | .00131  |
| #2 | .44154 | .00062 | .00108 | .12089 | .00542 | -.00386 | .00165  |
| #3 | .41854 | .00130 | .02692 | .11635 | .00525 | -.00252 | -.00204 |

Sample Name: CCB10      Acquired: 6/11/2019 21:26:18      Type: Unk  
 Method: P4-ICP2(v3189)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |        |        |          |          |
|--------|----------|--------|--------|----------|----------|
| Elem   | Li6707   | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm      | ppm    | ppm    | ppm      | ppm      |
| Avg    | F .00799 | -.0052 | .00012 | F 3.7868 | F<.00000 |
| Stddev | .00087   | .0025  | .00006 | .1648    | .50888   |
| %RSD   | 10.949   | 47.91  | 48.090 | 4.3506   | 14.935   |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .00742 | -.0025 | .00018 | 3.8563 | -3.9698 |
| #2 | .00755 | -.0056 | .00010 | 3.9054 | -3.2732 |
| #3 | .00900 | -.0075 | .00007 | 3.5987 | -2.9789 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3166.8 | 50348. | 5239.6 | 85.081 | 3928.1 |
| Stddev    | 9.2    | 123.   | 27.4   | .938   | 9.4    |
| %RSD      | .29165 | .24455 | .52373 | 1.1023 | .24005 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3177.0 | 50207. | 5221.3 | 85.258 | 3917.3 |
| #2 | 3164.5 | 50432. | 5226.3 | 84.067 | 3932.6 |
| #3 | 3159.0 | 50405. | 5271.1 | 85.917 | 3934.4 |