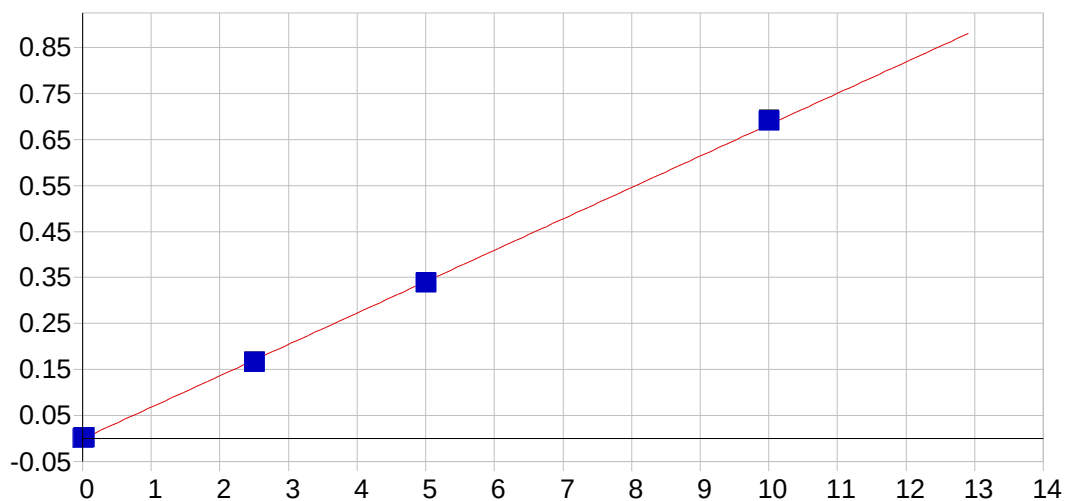




As 189.042 {478}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 0.000066

Re-Slope: 1.000000

A1 (Gain): 0.068189

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.999883

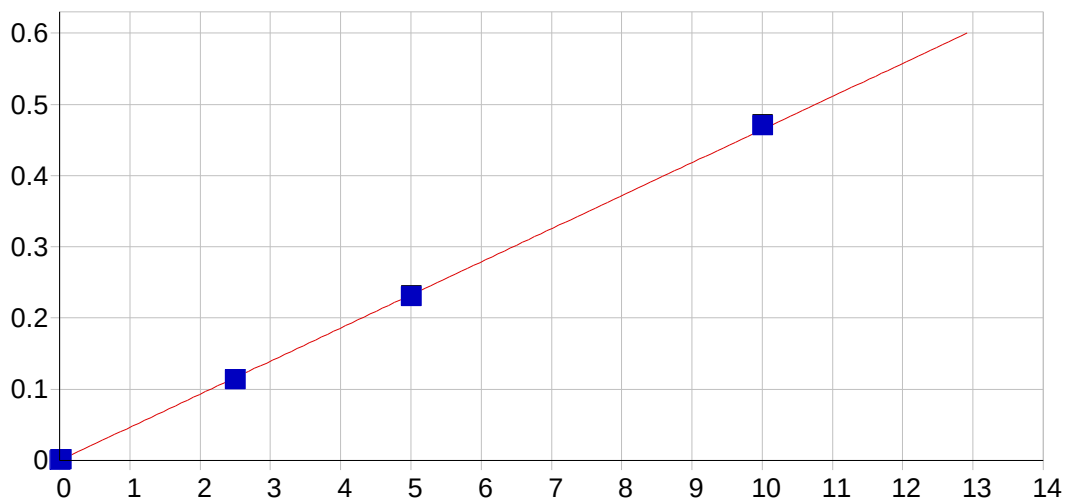
Status: OK.

Std Error of Est: 0.000025

Predicted MDL: 0.002689

Predicted MQL: 0.008962

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00007 | .000    | 1        |
| S1        | .02000       | .01728      | -.003      | -13.6   | .00124 | .000    | 1        |
| S3        | 2.5000       | 2.4314      | -.069      | -2.74   | .16585 | .000    | 1        |
| S4        | 5.0000       | 4.9531      | -.047      | -.937   | .33779 | .001    | 1        |
| S5        | 10.000       | 10.118      | .118       | 1.18    | .68996 | .001    | 1        |



As 189.042 {479}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

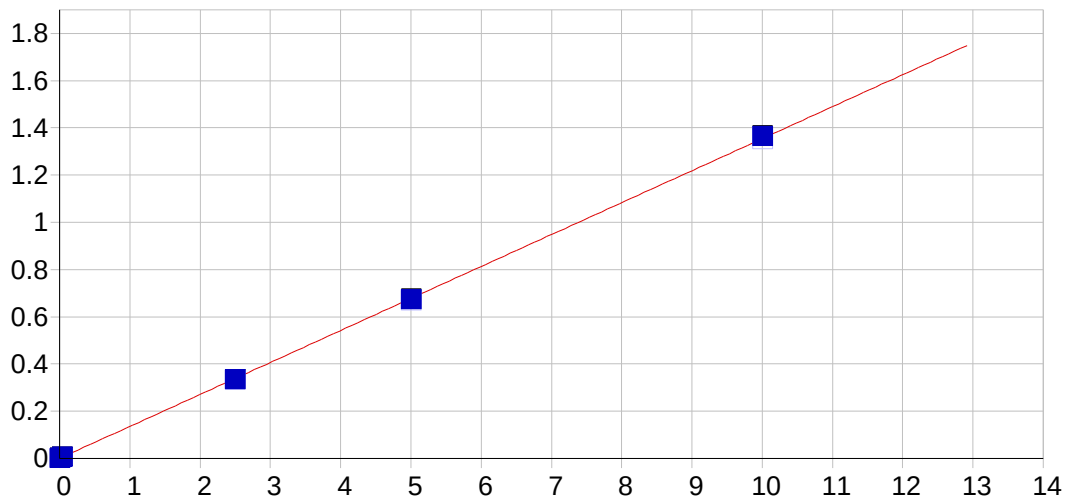
Weighting: 1/Conc

A0 (Offset): 0.000177

Re-Slope: 1.000000

A1 (Gain): 0.046456 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999893 Status: OK.  
 Std Error of Est: 0.000016  
 Predicted MDL: 0.002543  
 Predicted MQL: 0.008475

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00018 | .000    | 1        |
| S1        | .02000       | .02076      | .001       | 3.81    | .00114 | .000    | 1        |
| S3        | 2.5000       | 2.4315      | -.069      | -2.74   | .11314 | .000    | 1        |
| S4        | 5.0000       | 4.9511      | -.049      | -.979   | .23019 | .001    | 1        |
| S5        | 10.000       | 10.117      | .117       | 1.17    | .47017 | .001    | 1        |

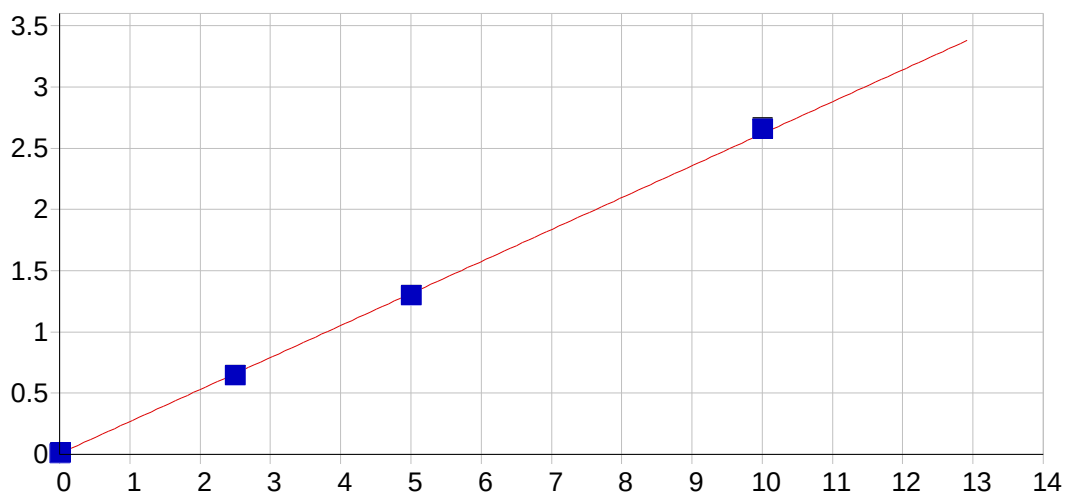


TI 190.856 {477}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000542 Re-Slope: 1.000000  
 A1 (Gain): 0.135379 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999952 Status: OK.  
 Std Error of Est: 0.000045  
 Predicted MDL: 0.001191  
 Predicted MQL: 0.003971

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00054 | .000    | 1        |
| S1        | .04000       | .04172      | .002       | 4.29    | .00605 | .000    | 1        |
| S3        | 2.5000       | 2.4549      | -.045      | -1.80   | .32941 | .000    | 1        |
| S4        | 5.0000       | 4.9687      | -.031      | -.626   | .66626 | .001    | 1        |
| S5        | 10.000       | 10.075      | .075       | .747    | 1.3506 | .001    | 1        |

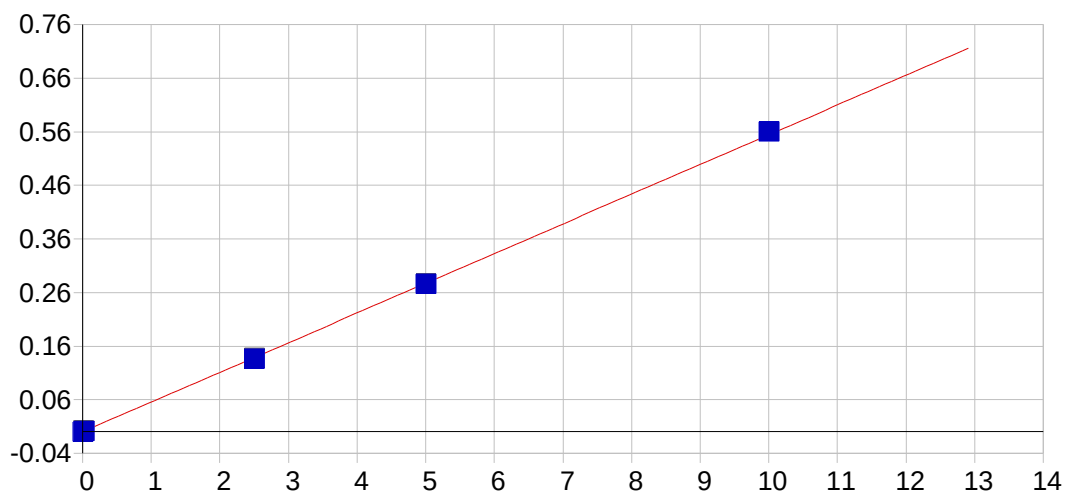


Pb 220.353 {453}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.007566 Re-Slope: 1.000000  
 A1 (Gain): 0.261053 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999824 Status: OK.  
 Std Error of Est: 0.000091  
 Predicted MDL: 0.001006  
 Predicted MQL: 0.003353

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00757 | .000    | 1        |
| S1        | .01200       | .01468      | .003       | 22.3    | .01134 | .000    | 1        |
| S3        | 2.5000       | 2.4252      | -.075      | -2.99   | .63980 | .002    | 1        |
| S4        | 5.0000       | 4.9249      | -.075      | -1.50   | 1.2914 | .004    | 1        |
| S5        | 10.000       | 10.147      | .147       | 1.47    | 2.6530 | .008    | 1        |



Se 196.090 {472}

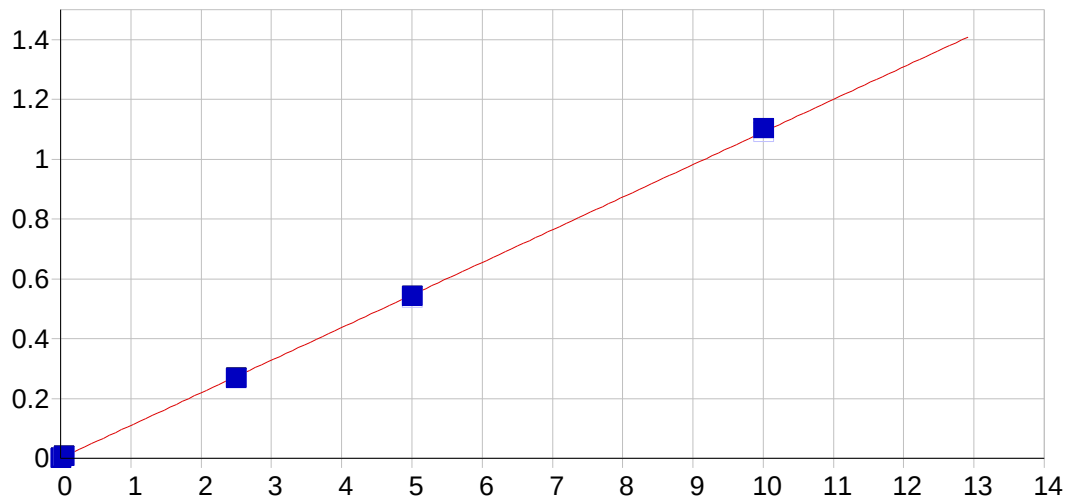
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000035 Re-Slope: 1.000000  
 A1 (Gain): 0.055442 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999947  
 Std Error of Est: 0.000014  
 Predicted MDL: 0.002968  
 Predicted MQL: 0.009892

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00003 | .000    | 1        |
| S1        | .02000       | .01930      | -.001      | -3.51   | .00104  | .000    | 1        |
| S3        | 2.5000       | 2.4520      | -.048      | -1.92   | .13588  | .000    | 1        |
| S4        | 5.0000       | 4.9664      | -.034      | -.672   | .27525  | .000    | 1        |
| S5        | 10.000       | 10.082      | .082       | .823    | .55883  | .001    | 1        |



Sb 206.833 {463}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

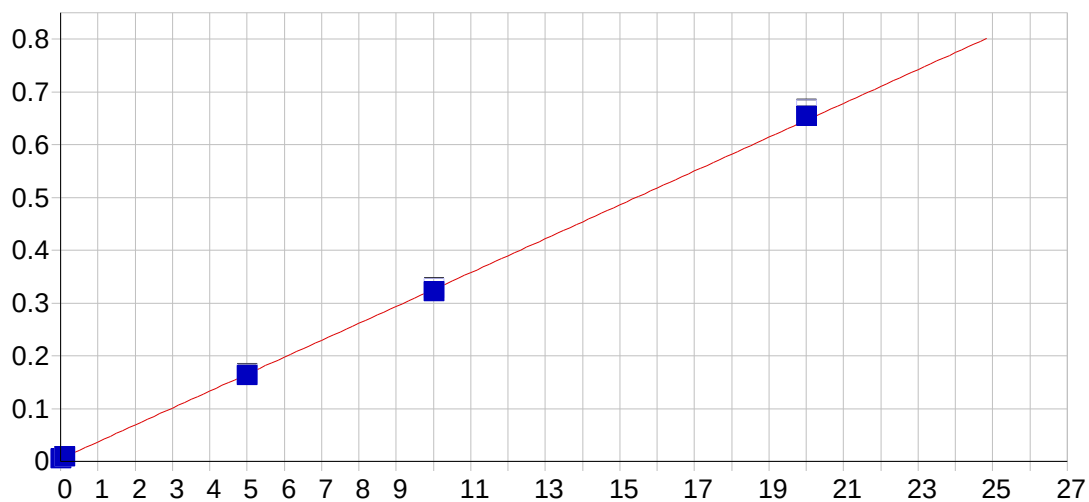
Weighting: 1/Conc

A0 (Offset): 0.000952  
 A1 (Gain): 0.109000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999922  
 Std Error of Est: 0.000052  
 Predicted MDL: 0.001878  
 Predicted MQL: 0.006260

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    | .00095 | .000    | 1        |
| S1        | .05000       | .05393      | .004       | 7.85    | .00669 | .000    | 1        |
| S3        | 2.5000       | 2.4489      | -.051      | -2.04   | .26482 | .000    | 1        |
| S4        | 5.0000       | 4.9529      | -.047      | -.941   | .53469 | .001    | 1        |
| S5        | 10.000       | 10.094      | .094       | .943    | 1.0890 | .001    | 1        |

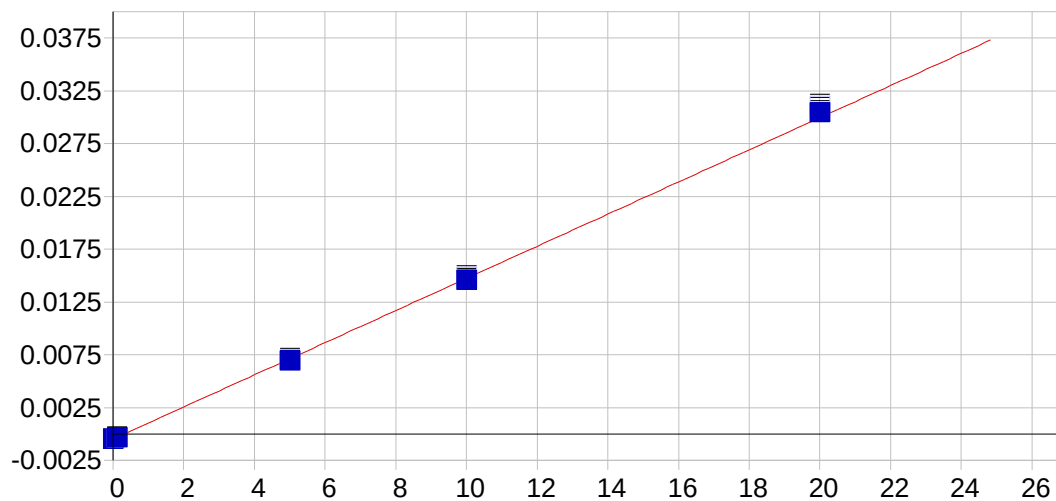


AI 308.215 {109}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004908 Re-Slope: 1.000000  
 A1 (Gain): 0.032068 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999882 Status: OK.  
 Std Error of Est: 0.000038  
 Predicted MDL: 0.002879  
 Predicted MQL: 0.009596

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00491 | .000    | 1        |
| S1        | .10000       | .11489      | .015       | 14.9    | .00881 | .000    | 1        |
| S3        | 5.0000       | 4.9017      | -.098      | -1.97   | .16529 | .000    | 1        |
| S4        | 10.000       | 9.8597      | -.140      | -1.40   | .32747 | .001    | 1        |
| S5        | 20.000       | 20.223      | .223       | 1.12    | .66619 | .000    | 1        |



AI 309.271 {109}

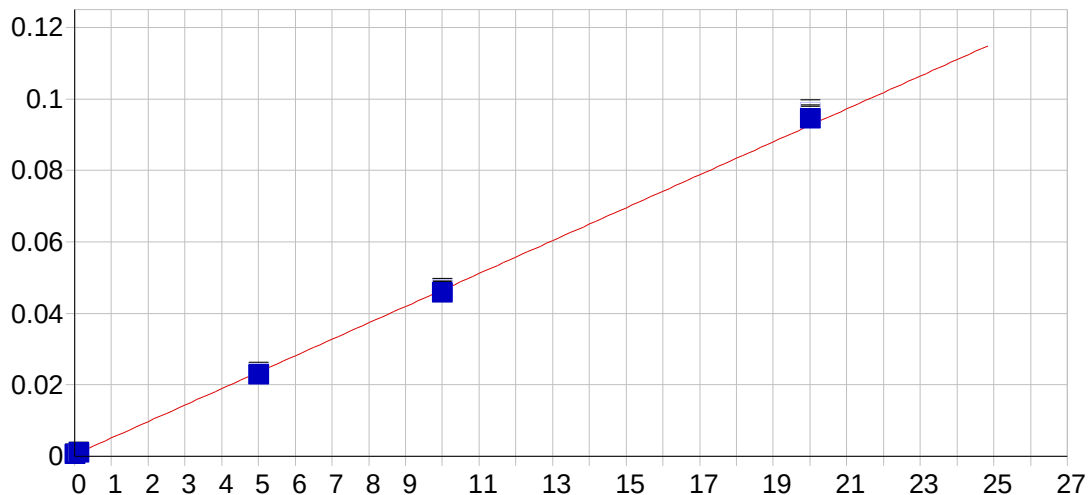
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000494 Re-Slope: 1.000000  
 A1 (Gain): 0.001523 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999766  
 Std Error of Est: 0.000003  
 Predicted MDL: 0.038114  
 Predicted MQL: 0.127048

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00003      | .000       | .000    | -.00049 | .000    | 1        |
| S1        | .10000       | .07714      | -.023      | -22.9   | -.00037 | .000    | 1        |
| S3        | 5.0000       | 4.8447      | -.155      | -3.11   | .00703  | .000    | 1        |
| S4        | 10.000       | 9.8601      | -.140      | -1.40   | .01482  | .000    | 1        |
| S5        | 20.000       | 20.319      | .319       | 1.60    | .03105  | .000    | 1        |



AI 396.152 { 85}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

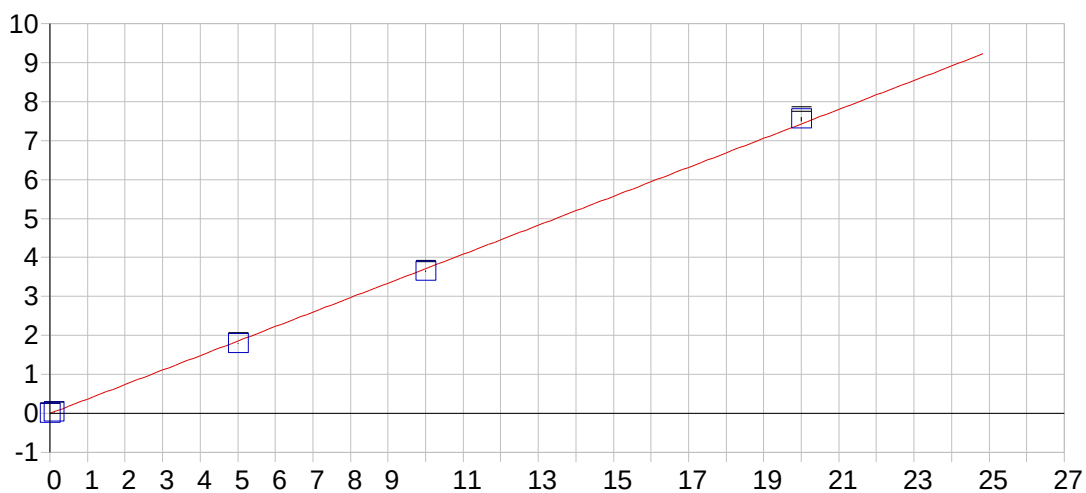
Weighting: 1/Conc

A0 (Offset): 0.000507  
 A1 (Gain): 0.004604  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999762  
 Std Error of Est: 0.000008  
 Predicted MDL: 0.019700  
 Predicted MQL: 0.065666

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    | .00051 | .000    | 1        |
| S1        | .10000       | .10284      | .003       | 2.84    | .00101 | .000    | 1        |
| S3        | 5.0000       | 4.8215      | -.178      | -3.57   | .02316 | .000    | 1        |
| S4        | 10.000       | 9.8011      | -.199      | -1.99   | .04655 | .000    | 1        |
| S5        | 20.000       | 20.374      | .374       | 1.87    | .09615 | .001    | 1        |

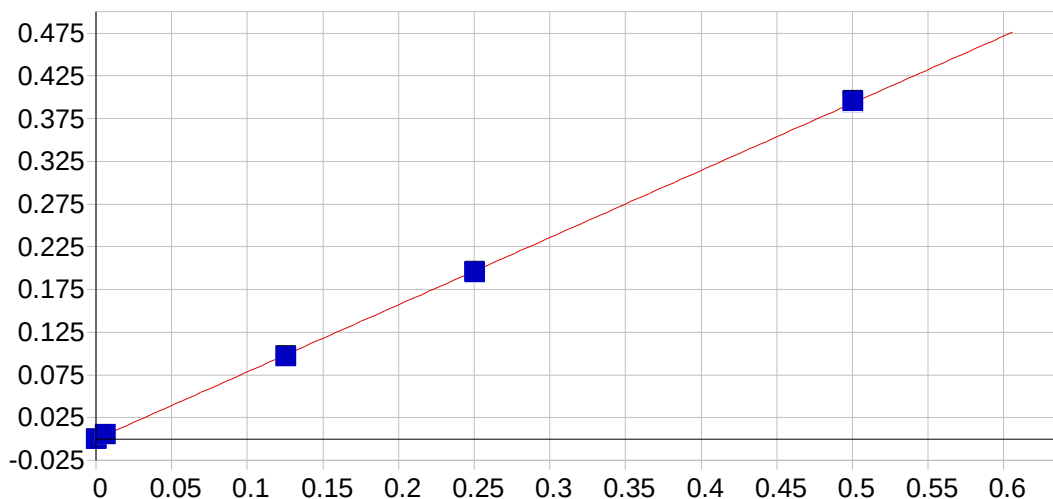


Ba 493.409 { 68}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.002676 Re-Slope: 1.000000  
 A1 (Gain): 0.371466 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999804 Status: OK.  
 Std Error of Est: 0.000563  
 Predicted MDL: 0.000633  
 Predicted MQL: 0.002110

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00268 | .000    | 1        |
| S1        | .10000       | .10492      | .005       | 4.92    | .03630  | .000    | 1        |
| S3        | 5.0000       | 4.8414      | -.159      | -3.17   | 1.7958  | .007    | 1        |
| S5        | 20.000       | 20.330      | .330       | 1.65    | 7.5490  | .062    | 1        |
| S4        | 10.000       | 9.8241      | -.176      | -1.76   | 3.6467  | .015    | 1        |



Be 234.861 {144}

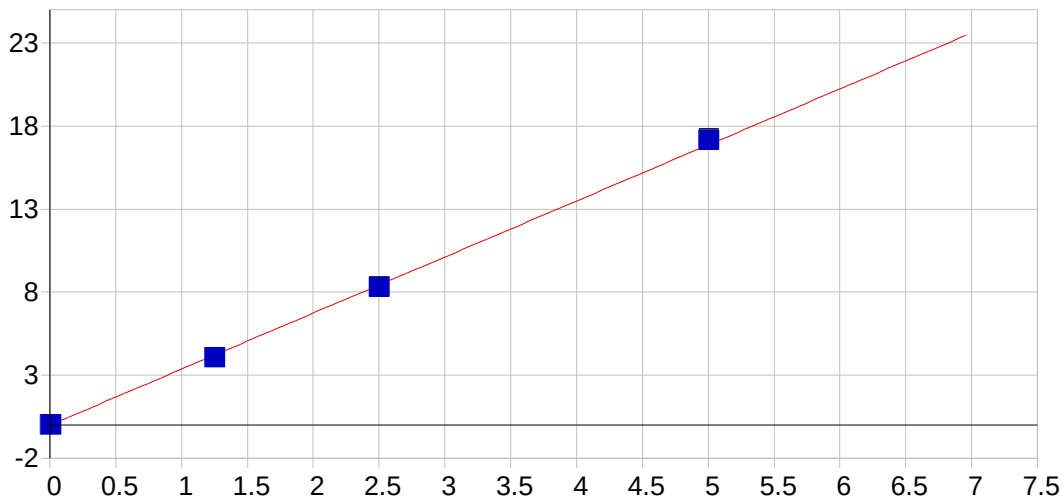
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000200 Re-Slope: 1.000000  
 A1 (Gain): 0.786560 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999934  
 Std Error of Est: 0.000027  
 Predicted MDL: 0.000076  
 Predicted MQL: 0.000253

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00020 | .000    | 1        |
| S1        | .00600       | .00657      | .001       | 9.51    | .00492  | .000    | 1        |
| S3        | .12500       | .12308      | -.002      | -1.54   | .09599  | .000    | 1        |
| S4        | .25000       | .24828      | -.002      | -.689   | .19385  | .001    | 1        |
| S5        | .50000       | .50308      | .003       | .616    | .39303  | .000    | 1        |



Cd 226.502 {449}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

Weighting: 1/Conc

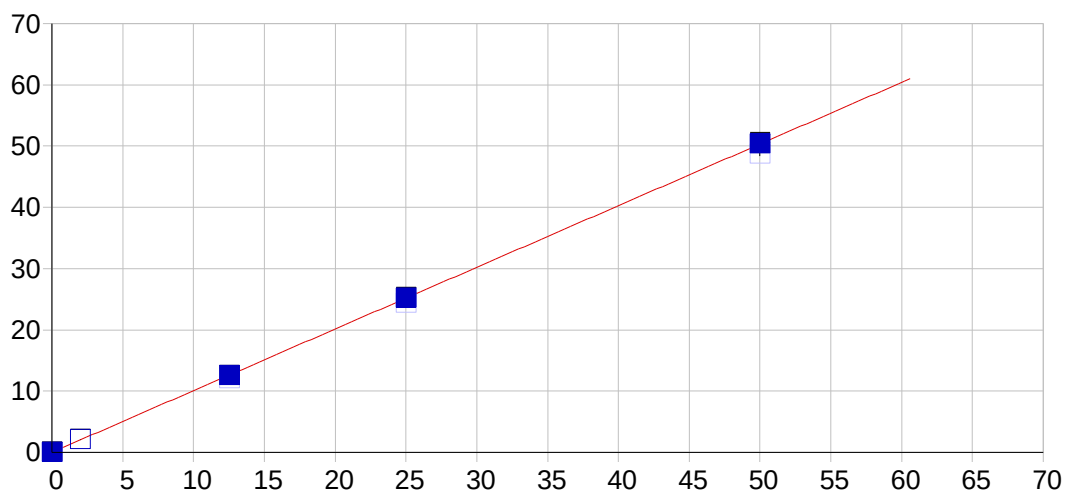
A0 (Offset): -0.005129  
 A1 (Gain): 3.372675  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999774  
 Std Error of Est: 0.000671  
 Predicted MDL: 0.000092  
 Predicted MQL: 0.000306

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    | -.00513 | .000    | 1        |
| S1        | .00600       | .00616      | .000       | 2.65    | .01568  | .000    | 1        |
| S3        | 1.2500       | 1.2012      | -.049      | -3.90   | 4.0471  | .004    | 1        |
| S4        | 2.5000       | 2.4624      | -.038      | -1.51   | 8.3016  | .005    | 1        |
| S5        | 5.0000       | 5.0863      | .086       | 1.73    | 17.153  | .050    | 1        |



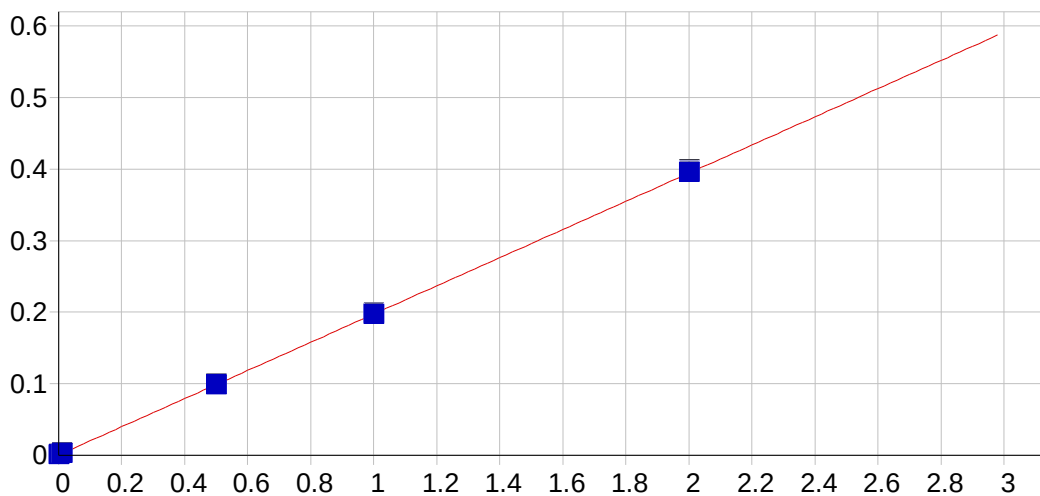


Ca 373.690 { 90}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.015995 Re-Slope: 1.000000  
 A1 (Gain): 1.006620 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999969 Status: OK.  
 Std Error of Est: 0.004187  
 Predicted MDL: 0.001865  
 Predicted MQL: 0.006217

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.0906      | .091       | 4.53    | 2.1204 | .014    | 1        |
| S0        | .00000       | -.00008     | -.000      | .000    | .01592 | .001    | 1        |
| S3        | 12.500       | 12.388      | -.112      | -.897   | 12.067 | .028    | 1        |
| S4        | 25.000       | 25.043      | .043       | .173    | 24.387 | .069    | 1        |
| S5        | 50.000       | 49.975      | -.025      | -.050   | 48.645 | .220    | 1        |



Cr 267.716 {126}

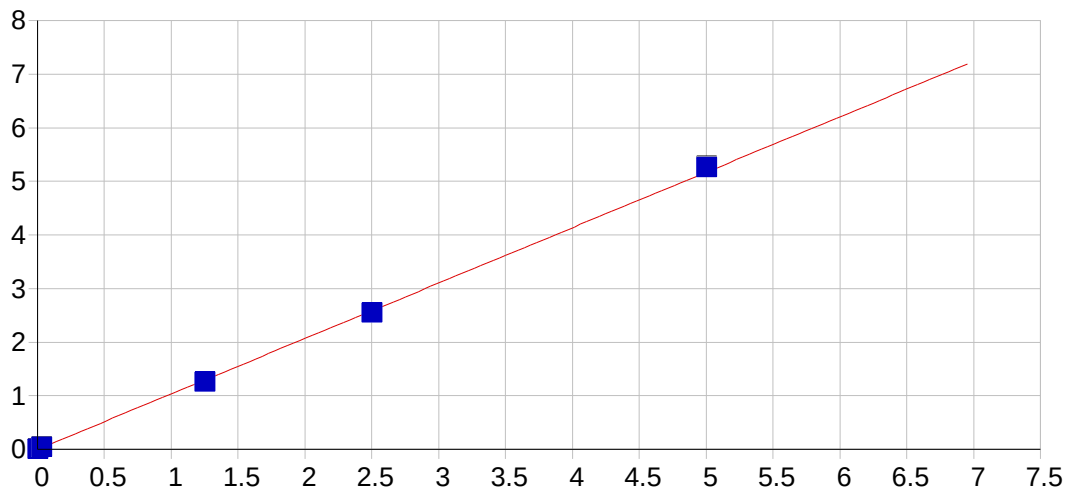
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000533 Re-Slope: 1.000000  
 A1 (Gain): 0.196933 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999988  
 Std Error of Est: 0.000007  
 Predicted MDL: 0.000416  
 Predicted MQL: 0.001386

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00053 | .000    | 1        |
| S1        | .01000       | .01079      | .001       | 7.92    | .00267 | .000    | 1        |
| S3        | .50000       | .49806      | -.002      | -.389   | .09939 | .000    | 1        |
| S4        | 1.0000       | .99722      | -.003      | -.278   | .19847 | .000    | 1        |
| S5        | 2.0000       | 2.0039      | .004       | .197    | .39827 | .000    | 1        |



Co 228.616 {447}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

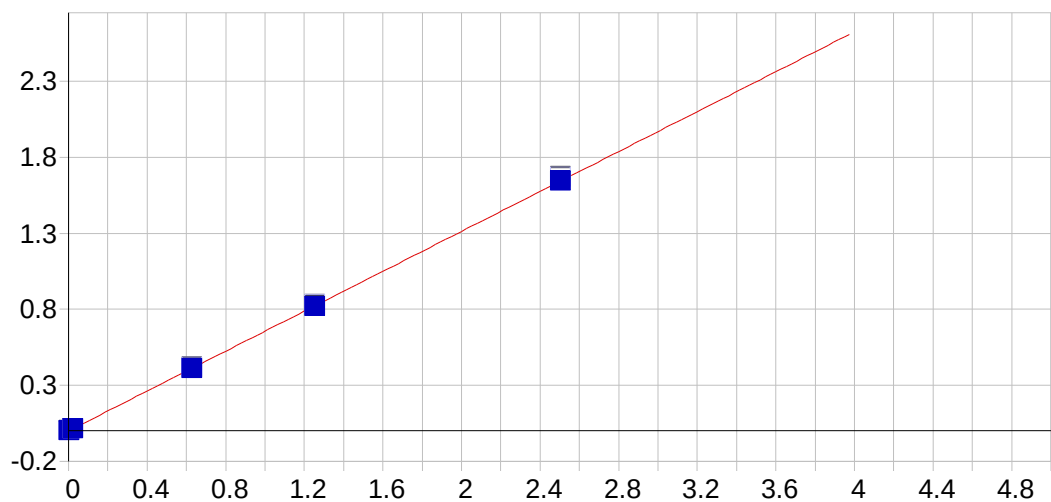
Weighting: 1/Conc

A0 (Offset): 0.000625  
 A1 (Gain): 1.033652  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999793  
 Std Error of Est: 0.000441  
 Predicted MDL: 0.000249  
 Predicted MQL: 0.000831

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    | .00063 | .000    | 1        |
| S1        | .03000       | .03064      | .001       | 2.15    | .03209 | .000    | 1        |
| S3        | 1.2500       | 1.2069      | -.043      | -3.45   | 1.2492 | .001    | 1        |
| S4        | 2.5000       | 2.4578      | -.042      | -1.69   | 2.5432 | .001    | 1        |
| S5        | 5.0000       | 5.0846      | .085       | 1.69    | 5.2604 | .017    | 1        |

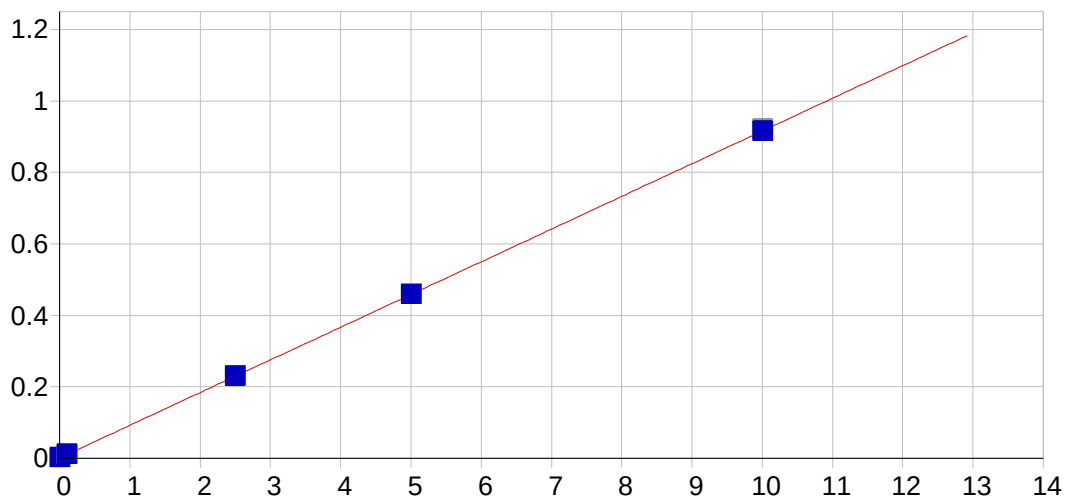


Cu 224.700 {450}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000007 Re-Slope: 1.000000  
 A1 (Gain): 0.656177 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999962 Status: OK.  
 Std Error of Est: 0.000070  
 Predicted MDL: 0.000471  
 Predicted MQL: 0.001570

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00001 | .000    | 1        |
| S1        | .02000       | .02249      | .002       | 12.5    | .01497 | .000    | 1        |
| S3        | .62500       | .62670      | .002       | .272    | .41786 | .001    | 1        |
| S4        | 1.2500       | 1.2444      | -.006      | -.446   | .82982 | .001    | 1        |
| S5        | 2.5000       | 2.5014      | .001       | .056    | 1.6679 | .003    | 1        |



Fe 240.488 {140}

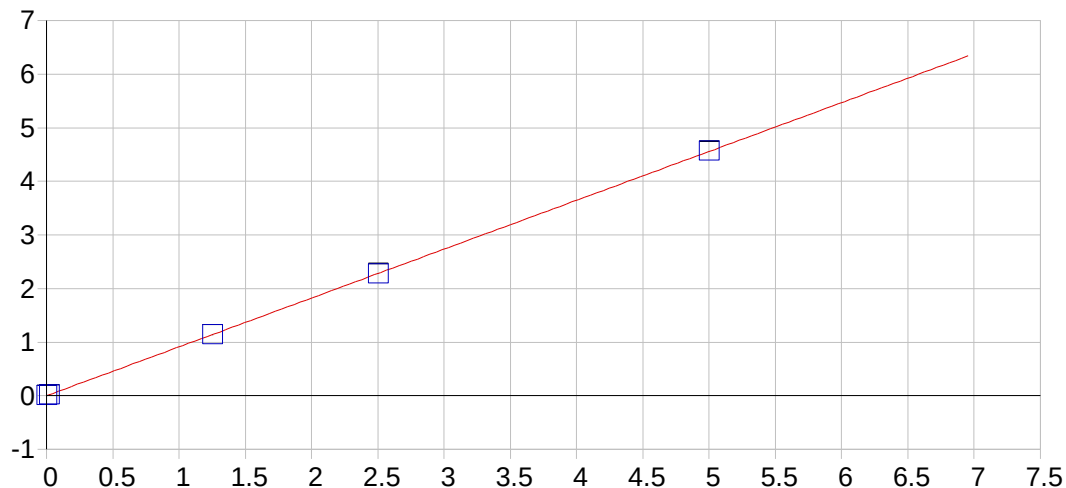
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000975 Re-Slope: 1.000000  
 A1 (Gain): 0.091484 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999978  
 Std Error of Est: 0.000033  
 Predicted MDL: 0.000720  
 Predicted MQL: 0.002401

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00097 | .000    | 1        |
| S1        | .10000       | .10879      | .009       | 8.79    | .01097 | .000    | 1        |
| S3        | 2.5000       | 2.4941      | -.006      | -.237   | .23000 | .000    | 1        |
| S4        | 5.0000       | 4.9977      | -.002      | -.047   | .45989 | .000    | 1        |
| S5        | 10.000       | 9.9995      | -.001      | -.005   | .91918 | .001    | 1        |



Mn 257.610 {131}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

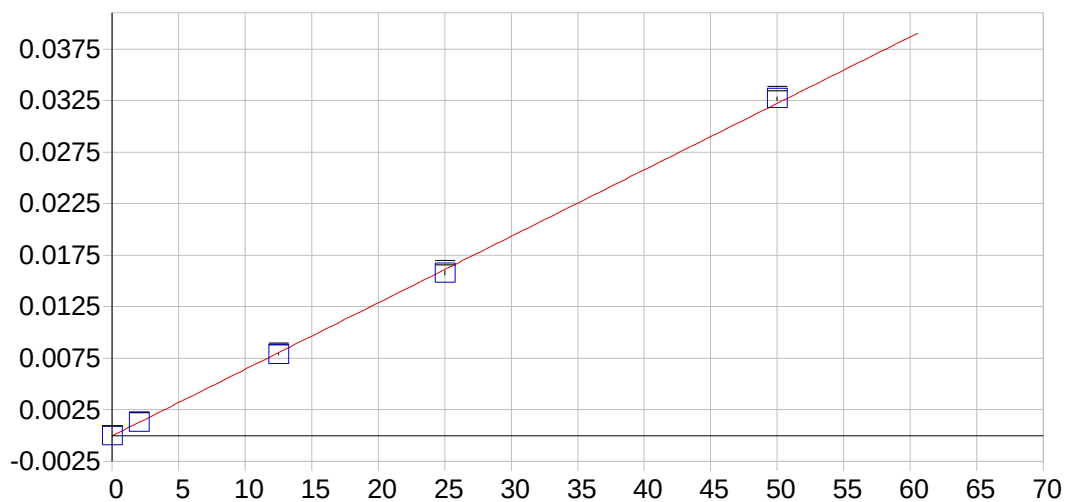
Weighting: 1/Conc

A0 (Offset): -0.000210  
 A1 (Gain): 0.911529  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999978  
 Std Error of Est: 0.000103  
 Predicted MDL: 0.000078  
 Predicted MQL: 0.000260

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    | -.00021 | .000    | 1        |
| S1        | .02000       | .02273      | .003       | 13.7    | .02051  | .000    | 1        |
| S3        | 1.2500       | 1.2482      | -.002      | -.145   | 1.1376  | .001    | 1        |
| S4        | 2.5000       | 2.4957      | -.004      | -.172   | 2.2747  | .004    | 1        |
| S5        | 5.0000       | 5.0034      | .003       | .068    | 4.5605  | .006    | 1        |

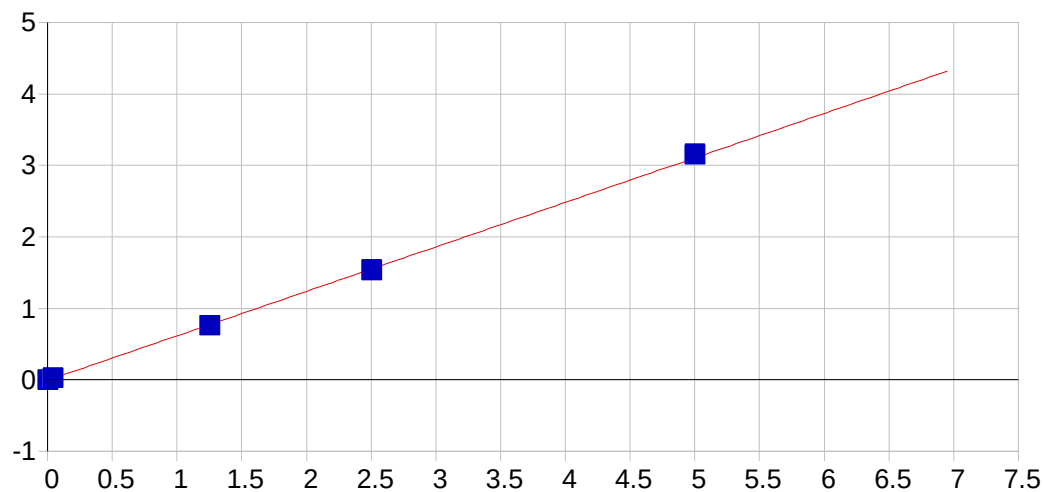


Mg 279.079 {121}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000025 Re-Slope: 1.000000  
 A1 (Gain): 0.000645 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999863 Status: OK.  
 Std Error of Est: 0.000006  
 Predicted MDL: 0.051940  
 Predicted MQL: 0.173134

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S2        | 2.0000       | 2.0034      | .003       | .172    | .00127  | .000    | 1        |
| S0        | .00000       | .00004      | .000       | .000    | -.00003 | .000    | 1        |
| S3        | 12.500       | 12.274      | -.226      | -1.81   | .00789  | .000    | 1        |
| S4        | 25.000       | 24.499      | -.501      | -2.00   | .01578  | .000    | 1        |
| S5        | 50.000       | 50.723      | .723       | 1.45    | .03270  | .000    | 1        |



Ni 231.604 {445}

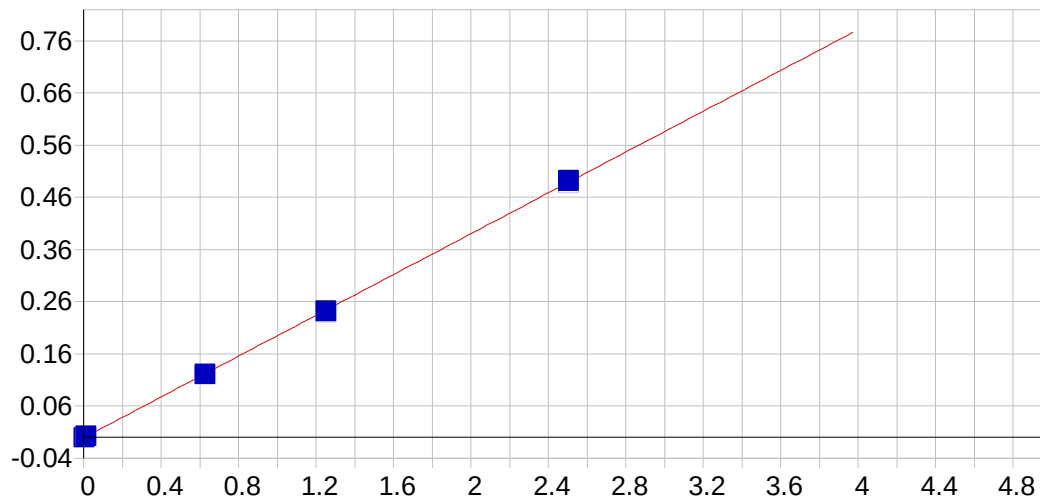
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.007161 Re-Slope: 1.000000  
 A1 (Gain): 0.622537 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999880  
 Std Error of Est: 0.000233  
 Predicted MDL: 0.000441  
 Predicted MQL: 0.001470

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00716 | .000    | 1        |
| S1        | .04000       | .04232      | .002       | 5.80    | .01920  | .000    | 1        |
| S3        | 1.2500       | 1.2200      | -.030      | -2.40   | .75321  | .002    | 1        |
| S4        | 2.5000       | 2.4653      | -.035      | -1.39   | 1.5293  | .003    | 1        |
| S5        | 5.0000       | 5.0623      | .062       | 1.25    | 3.1477  | .009    | 1        |



Ag 328.068 {103}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

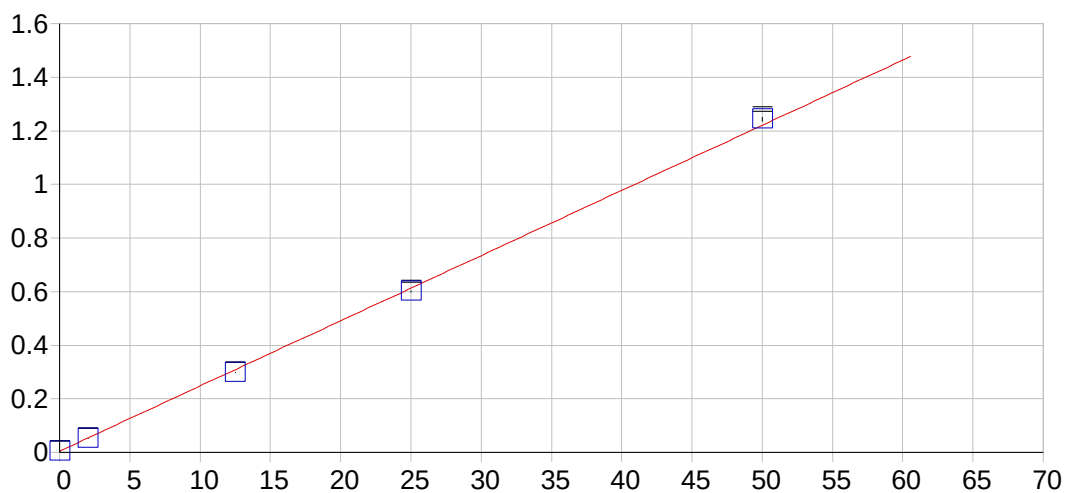
Weighting: 1/Conc

A0 (Offset): -0.000779  
 A1 (Gain): 0.195672  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999960  
 Std Error of Est: 0.000015  
 Predicted MDL: 0.000638  
 Predicted MQL: 0.002126

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    | -.00078 | .000    | 1        |
| S1        | .01000       | .01088      | .001       | 8.76    | .00131  | .000    | 1        |
| S3        | .62500       | .61947      | -.006      | -.885   | .11904  | .000    | 1        |
| S4        | 1.2500       | 1.2383      | -.012      | -.936   | .23874  | .001    | 1        |
| S5        | 2.5000       | 2.5164      | .016       | .655    | .48604  | .000    | 1        |

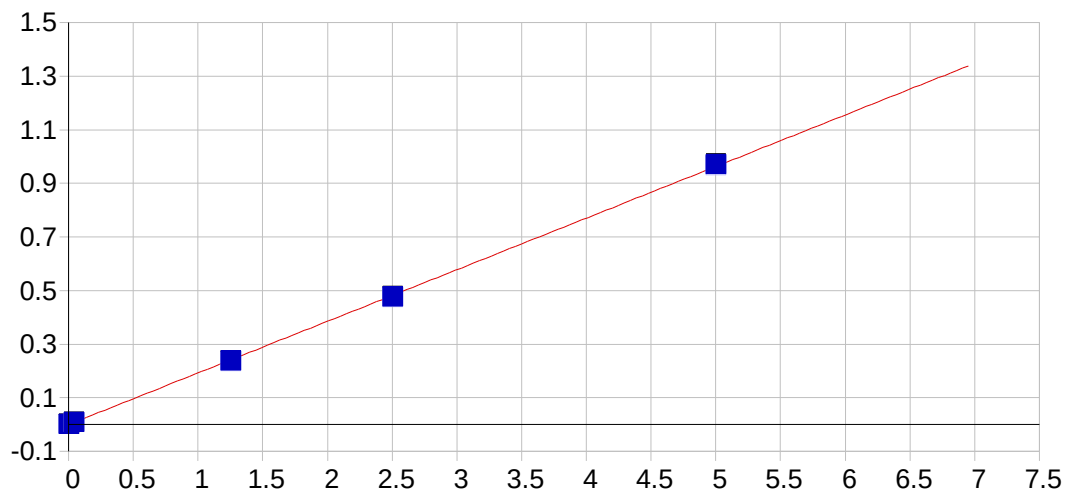


Na 589.592 { 57}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004867 Re-Slope: 1.000000  
 A1 (Gain): 0.024314 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999765 Status: OK.  
 Std Error of Est: 0.000288  
 Predicted MDL: 0.010493  
 Predicted MQL: 0.034977

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 1.9726      | -.027      | -1.37   | .05283 | .001    | 1        |
| S0        | .00000       | .00010      | .000       | .000    | .00487 | .000    | 1        |
| S3        | 12.500       | 12.072      | -.428      | -3.42   | .29838 | .001    | 1        |
| S4        | 25.000       | 24.515      | -.485      | -1.94   | .60091 | .003    | 1        |
| S5        | 50.000       | 50.941      | .941       | 1.88    | 1.2434 | .008    | 1        |



V 292.402 {115}

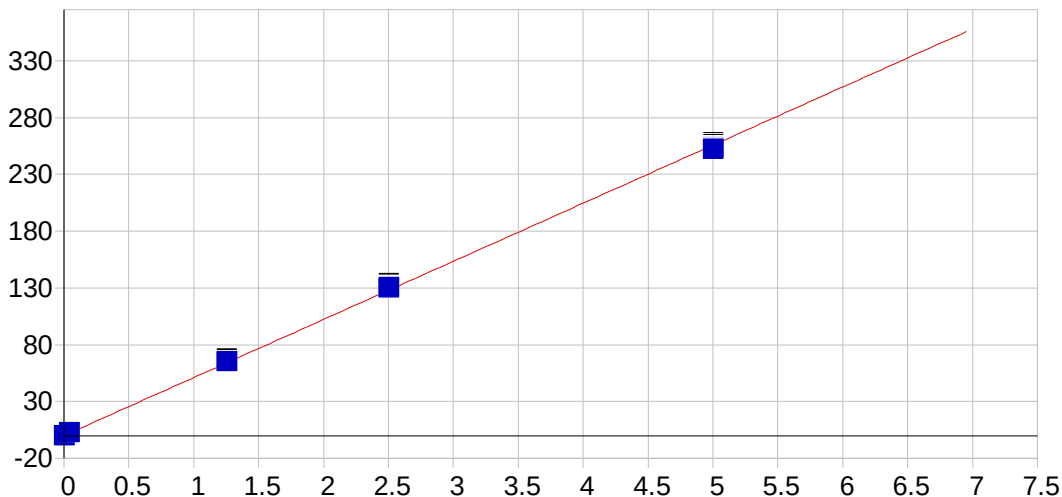
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000139 Re-Slope: 1.000000  
 A1 (Gain): 0.192554 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999943  
 Std Error of Est: 0.000049  
 Predicted MDL: 0.000492  
 Predicted MQL: 0.001640

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00014 | .000    | 1        |
| S1        | .04000       | .04220      | .002       | 5.51    | .00787  | .000    | 1        |
| S3        | 1.2500       | 1.2304      | -.020      | -1.57   | .23520  | .000    | 1        |
| S4        | 2.5000       | 2.4764      | -.024      | -.942   | .47356  | .001    | 1        |
| S5        | 5.0000       | 5.0410      | .041       | .820    | .96423  | .001    | 1        |



Zn 206.200 {163}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

Weighting: 1/Conc

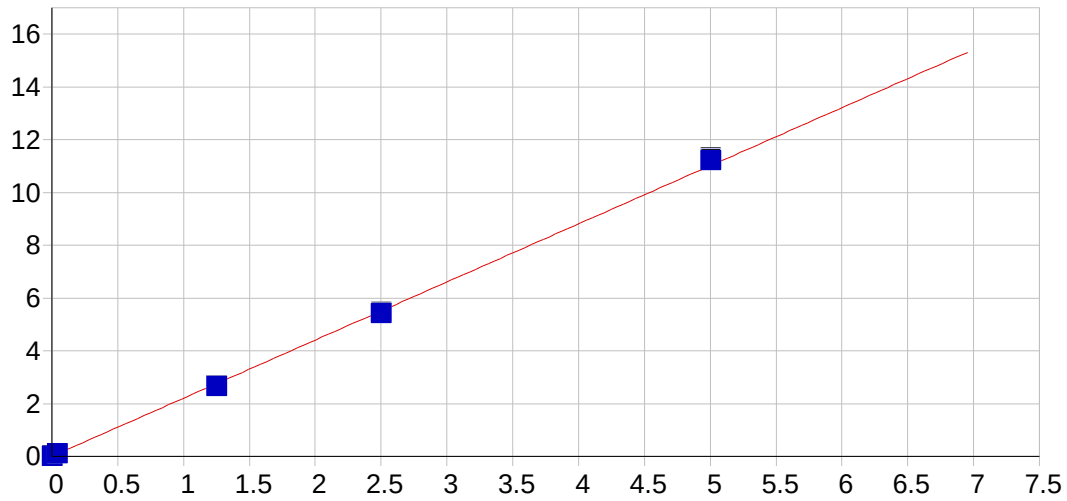
A0 (Offset): -0.026789  
 A1 (Gain): 51.157820  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999828  
 Std Error of Est: 0.023125  
 Predicted MDL: 0.000463  
 Predicted MQL: 0.001544

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    | -.02716 | .017    | 1        |
| S1        | .04000       | .04640      | .006       | 16.0    | 2.3605  | .041    | 1        |
| S3        | 1.2500       | 1.2701      | .020       | 1.61    | 65.337  | 1.75    | 1        |
| S4        | 2.5000       | 2.5432      | .043       | 1.73    | 130.85  | 2.98    | 1        |
| S5        | 5.0000       | 4.9303      | -.070      | -1.39   | 253.74  | 4.01    | 1        |



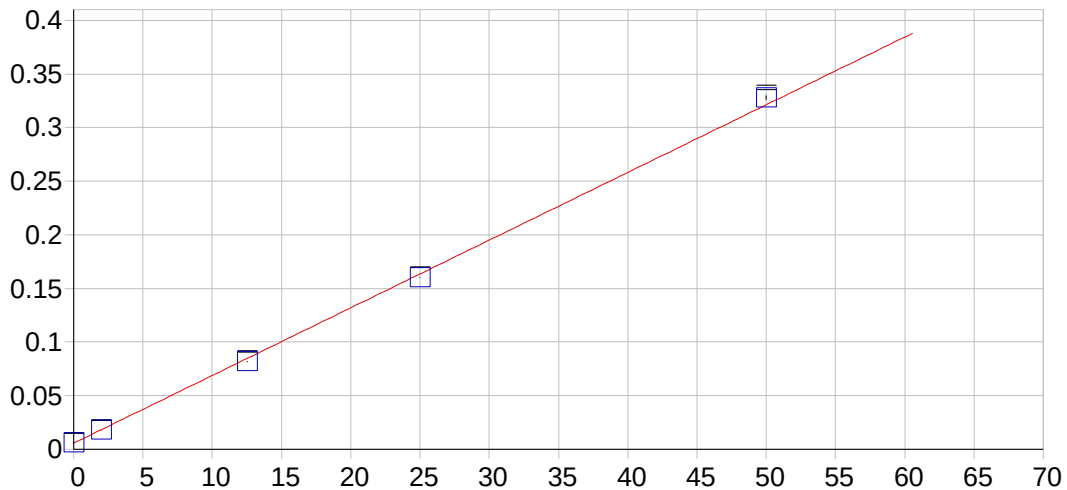


Zn 213.856 {458}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003743 Re-Slope: 1.000000  
 A1 (Gain): 2.201677 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999769 Status: OK.  
 Std Error of Est: 0.001153  
 Predicted MDL: 0.000100  
 Predicted MQL: 0.000332

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00374 | .000    | 1        |
| S1        | .04000       | .04080      | .001       | 2.01    | .09420 | .000    | 1        |
| S3        | 1.2500       | 1.2015      | -.049      | -3.88   | 2.6666 | .002    | 1        |
| S4        | 2.5000       | 2.4595      | -.041      | -1.62   | 5.4538 | .011    | 1        |
| S5        | 5.0000       | 5.0883      | .088       | 1.77    | 11.277 | .032    | 1        |



K 766.490 {44}

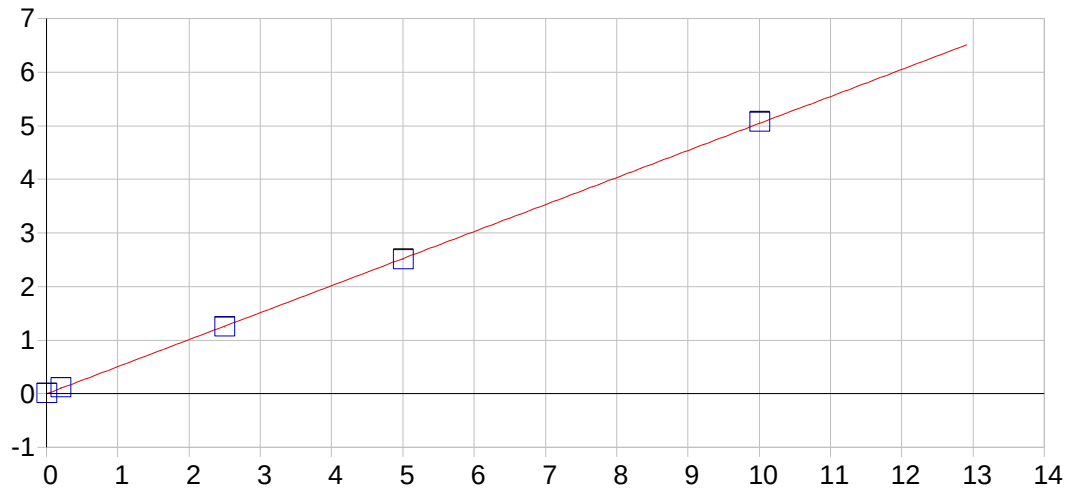
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.005671 Re-Slope: 1.000000  
 A1 (Gain): 0.006313 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999714  
 Std Error of Est: 0.000082  
 Predicted MDL: 0.039134  
 Predicted MQL: 0.130446

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 1.9210      | -.079      | -3.95   | .01780 | .000    | 1        |
| S0        | .00000       | .00015      | .000       | .000    | .00567 | .000    | 1        |
| S3        | 12.500       | 12.058      | -.442      | -3.54   | .08179 | .001    | 1        |
| S4        | 25.000       | 24.481      | -.519      | -2.08   | .16021 | .000    | 1        |
| S5        | 50.000       | 51.040      | 1.04       | 2.08    | .32786 | .002    | 1        |



Mo 202.030 {467}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

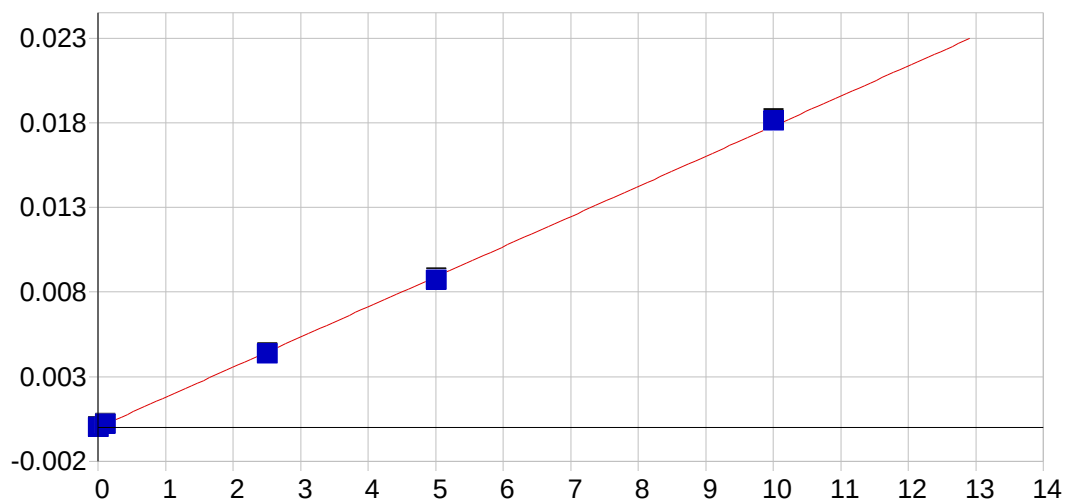
Weighting: 1/Conc

A0 (Offset): -0.000061  
 A1 (Gain): 0.504130  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999928  
 Std Error of Est: 0.000463  
 Predicted MDL: 0.000332  
 Predicted MQL: 0.001107

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    | -.00007 | .000    | 1        |
| S1        | .20000       | .21677      | .017       | 8.38    | .10922  | .000    | 1        |
| S3        | 2.5000       | 2.4647      | -.035      | -1.41   | 1.2425  | .000    | 1        |
| S4        | 5.0000       | 4.9611      | -.039      | -.777   | 2.5010  | .005    | 1        |
| S5        | 10.000       | 10.057      | .057       | .574    | 5.0702  | .004    | 1        |

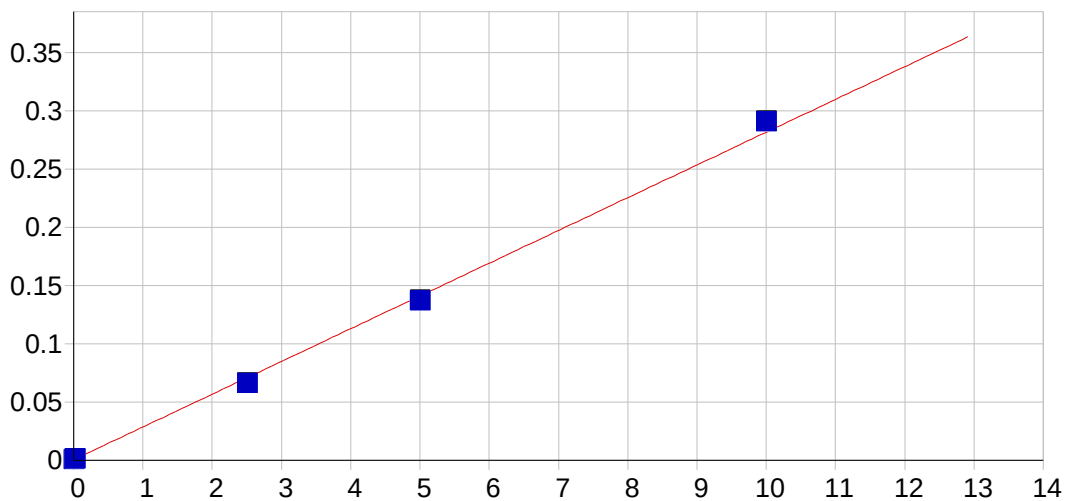


B 249.678 {135}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000006 Re-Slope: 1.000000  
 A1 (Gain): 0.001779 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999801 Status: OK.  
 Std Error of Est: 0.000002  
 Predicted MDL: 0.014419  
 Predicted MQL: 0.048065

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00001 | .000    | 1        |
| S1        | .10000       | .09921      | -.001      | -.794   | .00018 | .000    | 1        |
| S3        | 2.5000       | 2.4357      | -.064      | -2.57   | .00433 | .000    | 1        |
| S4        | 5.0000       | 4.8924      | -.108      | -2.15   | .00869 | .000    | 1        |
| S5        | 10.000       | 10.173      | .173       | 1.73    | .01806 | .000    | 1        |



S 182.034 {485}

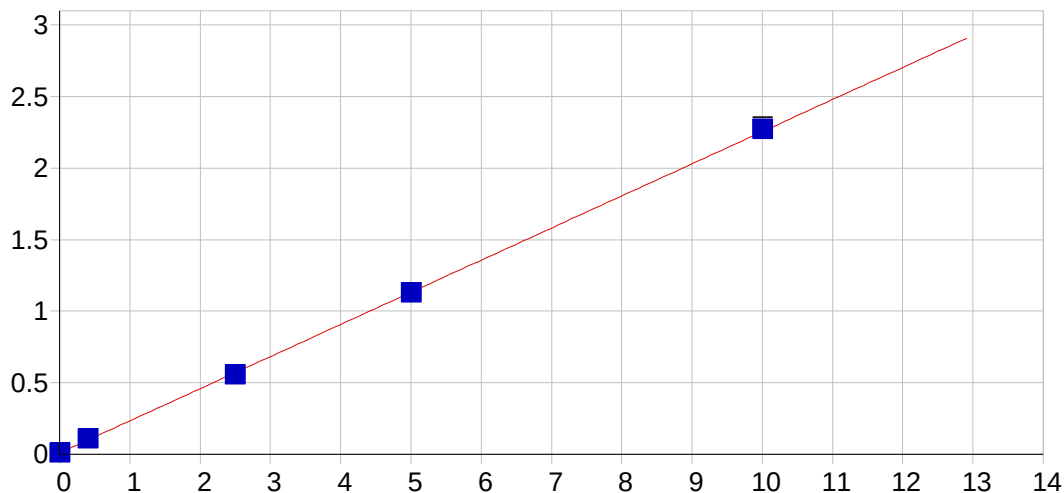
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000497 Re-Slope: 1.000000  
 A1 (Gain): 0.028108 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999275  
 Std Error of Est: 0.000026  
 Predicted MDL: 0.003946  
 Predicted MQL: 0.013153

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00050 | .000    | 1        |
| S1        | .02000       | .01864      | -.001      | -6.79   | .00100 | .000    | 1        |
| S3        | 2.5000       | 2.3313      | -.169      | -6.75   | .06595 | .000    | 1        |
| S4        | 5.0000       | 4.8570      | -.143      | -2.86   | .13686 | .000    | 1        |
| S5        | 10.000       | 10.313      | .313       | 3.13    | .29006 | .001    | 1        |



Si 288.158 {117}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

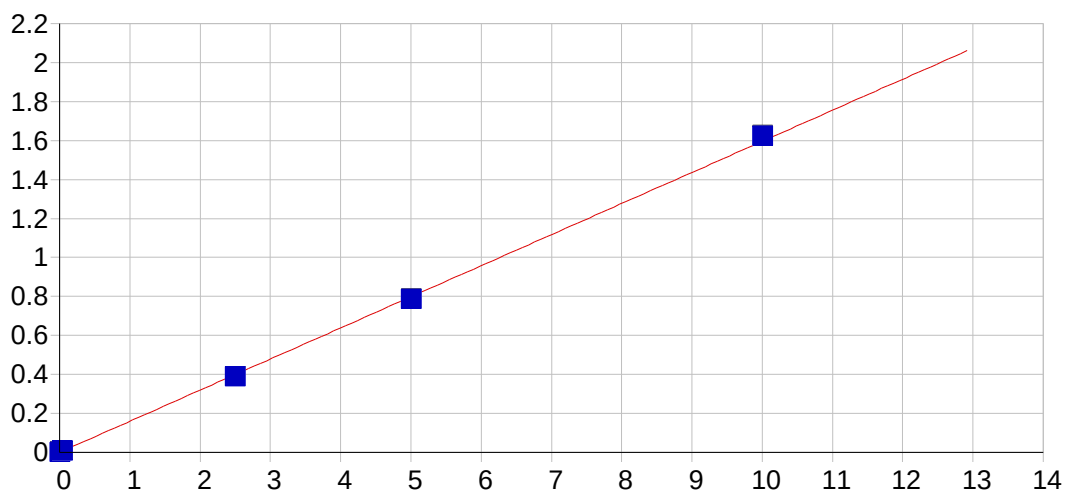
Weighting: 1/Conc

A0 (Offset): 0.009283  
 A1 (Gain): 0.224563  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999814  
 Std Error of Est: 0.000472  
 Predicted MDL: 0.003535  
 Predicted MQL: 0.011783

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       | -.00003     | -.000      | .000    | .00928 | .000    | 1        |
| S1        | .40000       | .43723      | .037       | 9.31    | .10739 | .000    | 1        |
| S3        | 2.5000       | 2.4202      | -.080      | -3.19   | .55248 | .001    | 1        |
| S4        | 5.0000       | 4.9730      | -.027      | -.540   | 1.1254 | .003    | 1        |
| S5        | 10.000       | 10.070      | .070       | .696    | 2.2693 | .015    | 1        |

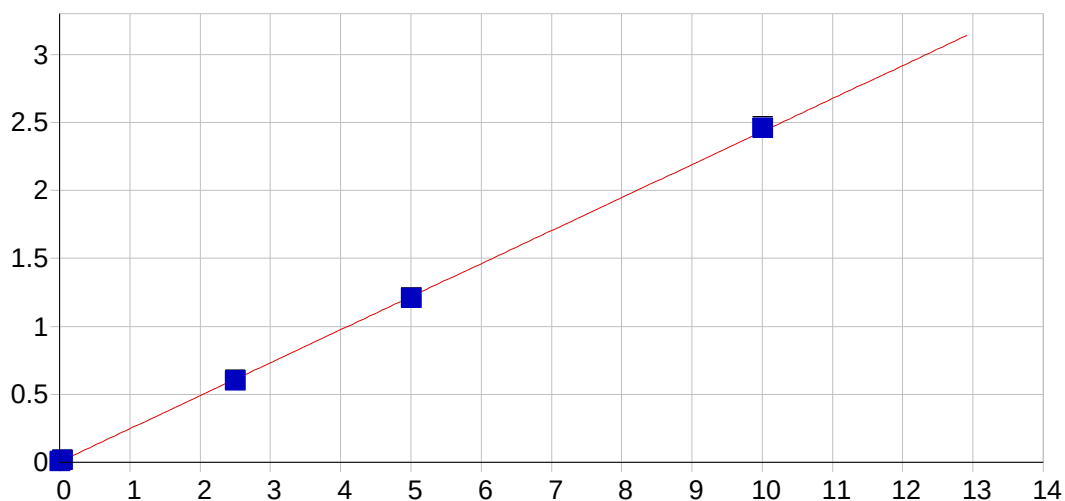


Sn 189.989 {477}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000414 Re-Slope: 1.000000  
 A1 (Gain): 0.159537 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999811 Status: OK.  
 Std Error of Est: 0.000106  
 Predicted MDL: 0.000776  
 Predicted MQL: 0.002587

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00041 | .000    | 1        |
| S1        | .04000       | .04069      | .001       | 1.72    | .00690 | .000    | 1        |
| S3        | 2.5000       | 2.4171      | -.083      | -3.31   | .38611 | .000    | 1        |
| S4        | 5.0000       | 4.9204      | -.080      | -1.59   | .78553 | .001    | 1        |
| S5        | 10.000       | 10.162      | .162       | 1.62    | 1.6219 | .004    | 1        |



Ti 336.121 {100}

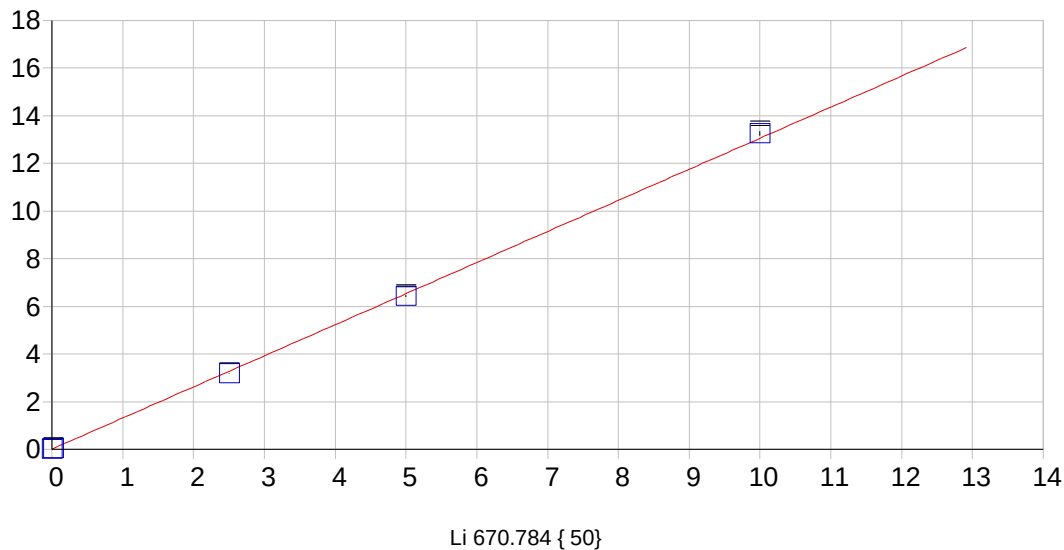
Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004064 Re-Slope: 1.000000  
 A1 (Gain): 0.242850 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999930  
 Std Error of Est: 0.000098  
 Predicted MDL: 0.002324  
 Predicted MQL: 0.007747

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00406 | .001    | 1        |
| S1        | .04000       | .04005      | .000       | .129    | .01378 | .001    | 1        |
| S3        | 2.5000       | 2.4494      | -.051      | -2.03   | .59882 | .002    | 1        |
| S4        | 5.0000       | 4.9521      | -.048      | -.958   | 1.2065 | .002    | 1        |
| S5        | 10.000       | 10.098      | .098       | .985    | 2.4562 | .011    | 1        |



Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

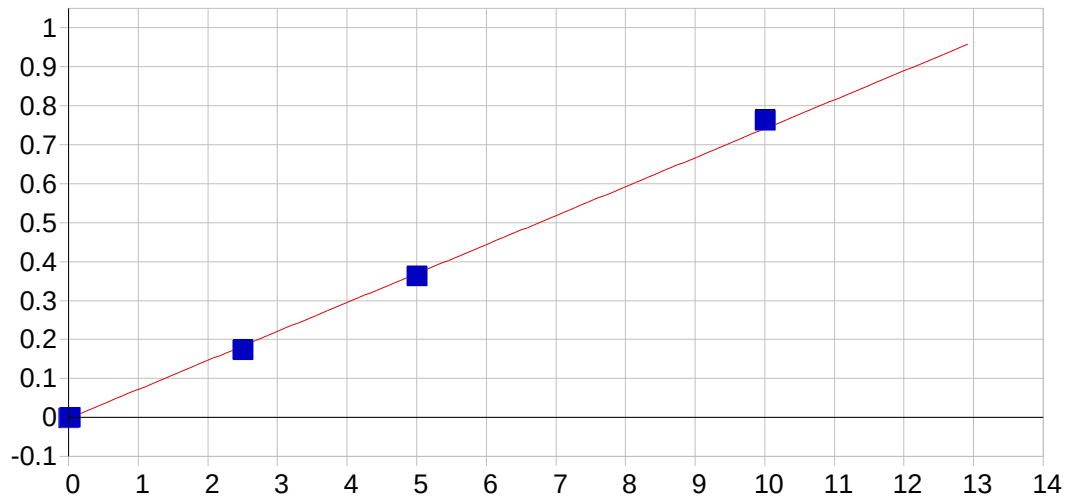
Weighting: 1/Conc

A0 (Offset): 0.009298  
 A1 (Gain): 1.305053  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999839  
 Std Error of Est: 0.000566  
 Predicted MDL: 0.002117  
 Predicted MQL: 0.007056

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    | .00930 | .000    | 1        |
| S1        | .02000       | .02173      | .002       | 8.64    | .03765 | .003    | 1        |
| S3        | 2.5000       | 2.4276      | -.072      | -2.89   | 3.1775 | .008    | 1        |
| S4        | 5.0000       | 4.9225      | -.077      | -1.55   | 6.4334 | .030    | 1        |
| S5        | 10.000       | 10.148      | .148       | 1.48    | 13.253 | .093    | 1        |

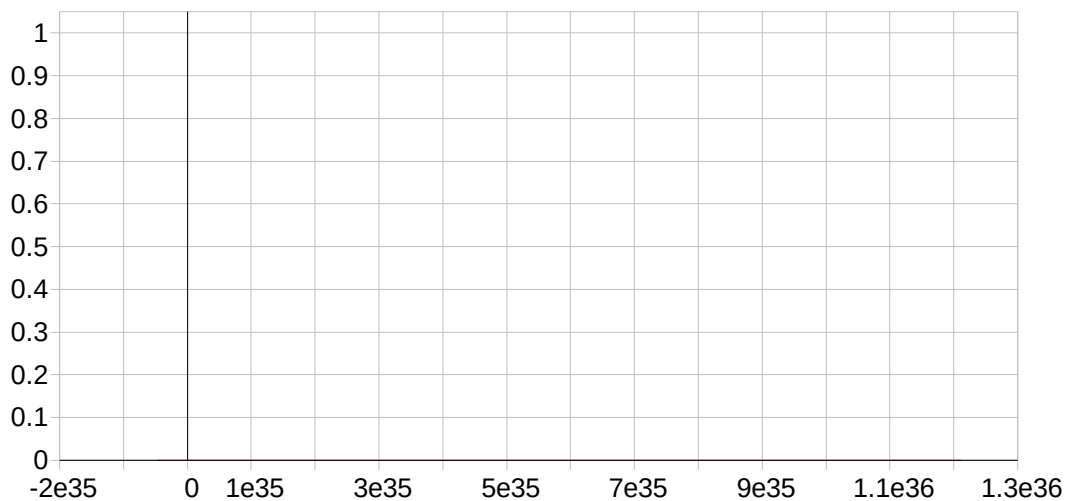


P 177.495 {490}

Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.002438 Re-Slope: 1.000000  
 A1 (Gain): 0.074348 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999426 Status: OK.  
 Std Error of Est: 0.000061  
 Predicted MDL: 0.001776  
 Predicted MQL: 0.005919

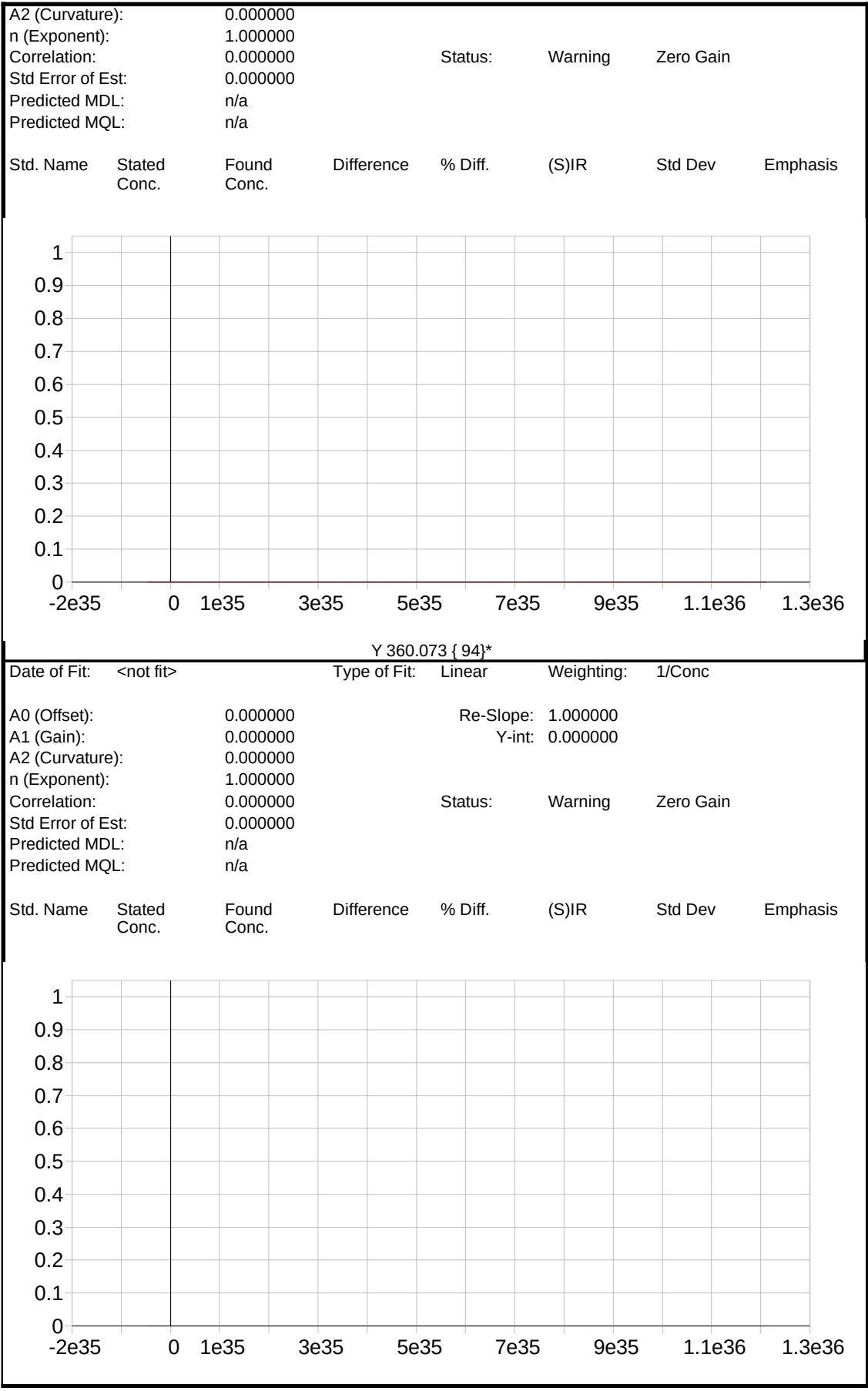
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00244 | .000    | 1        |
| S1        | .02000       | .01643      | -.004      | -17.9   | -.00122 | .000    | 1        |
| S3        | 2.5000       | 2.3455      | -.155      | -6.18   | .17167  | .001    | 1        |
| S4        | 5.0000       | 4.8873      | -.113      | -2.25   | .36038  | .001    | 1        |
| S5        | 10.000       | 10.271      | .271       | 2.71    | .76010  | .002    | 1        |



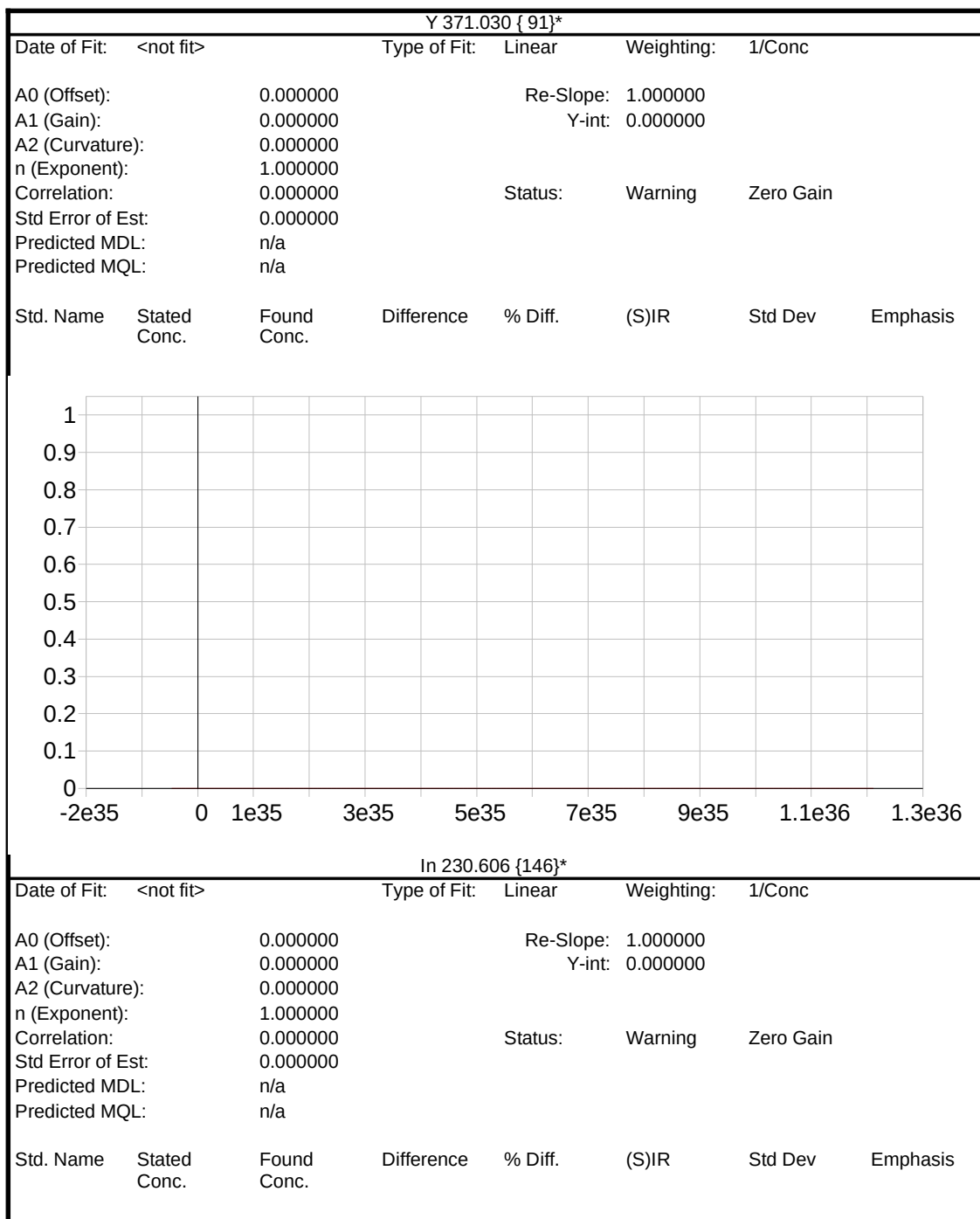
Y 224.306 {450}\*

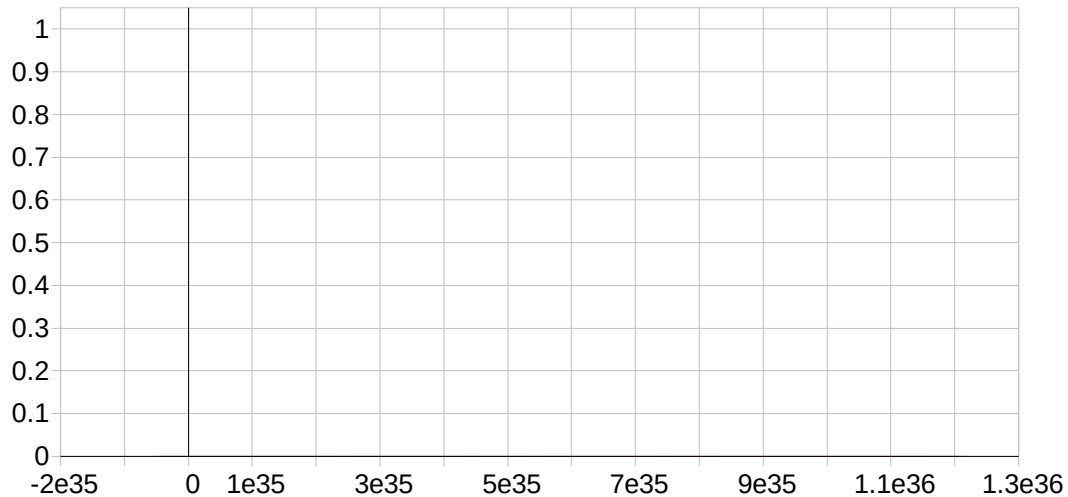
Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

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





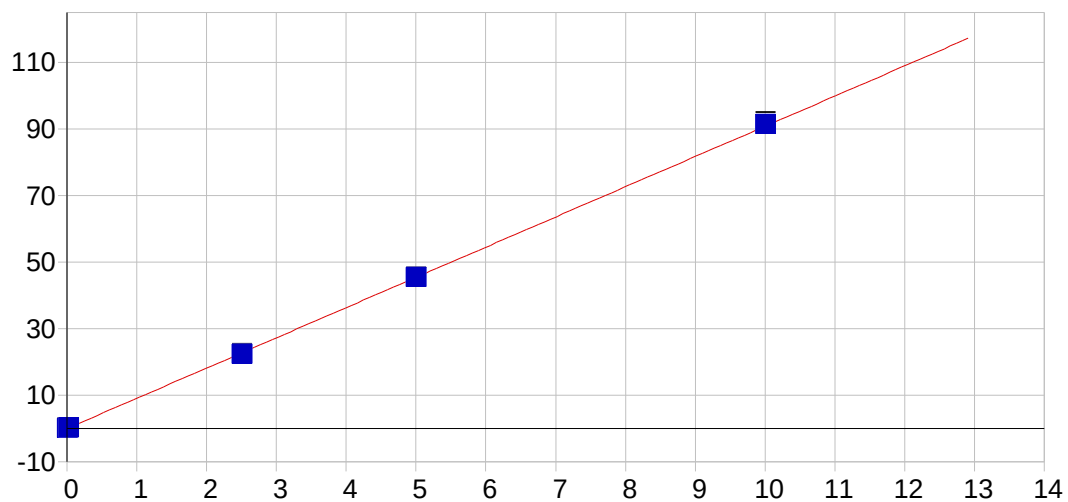




Date of Fit: <not fit> Type of Fit: Linear Weighting: 1/Conc

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 |
|-----------|--------------|-------------|------------|---------|-------|---------|----------|
|-----------|--------------|-------------|------------|---------|-------|---------|----------|

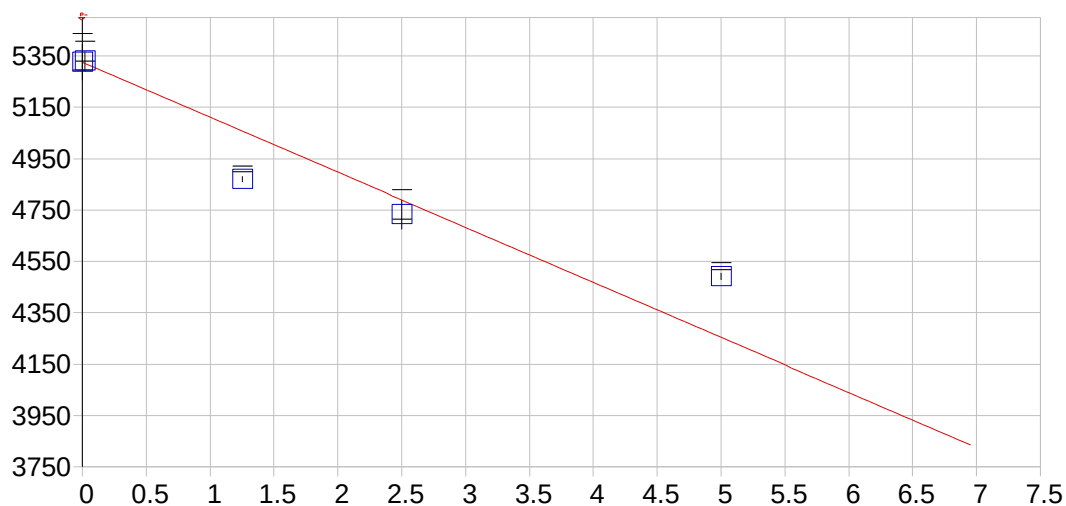


Date of Fit: 6/7/2019 15:39:34 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.002307 Re-Slope: 1.000000  
 A1 (Gain): 9.081223 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999964 Status: OK.  
 Std Error of Est: 0.001859  
 Predicted MDL: 0.000121

Predicted MQL: 0.000404

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00233 | .001    | 1        |
| S1        | .02000       | .02248      | .002       | 12.4    | .20282  | .001    | 1        |
| S3        | 2.5000       | 2.4589      | -.041      | -1.64   | 22.352  | .066    | 1        |
| S4        | 5.0000       | 4.9887      | -.011      | -.226   | 45.351  | .109    | 1        |
| S5        | 10.000       | 10.050      | .050       | .499    | 91.363  | .660    | 1        |



Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 5326.154111

Re-Slope: 1.000000

A1 (Gain): -214.470329

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.949233

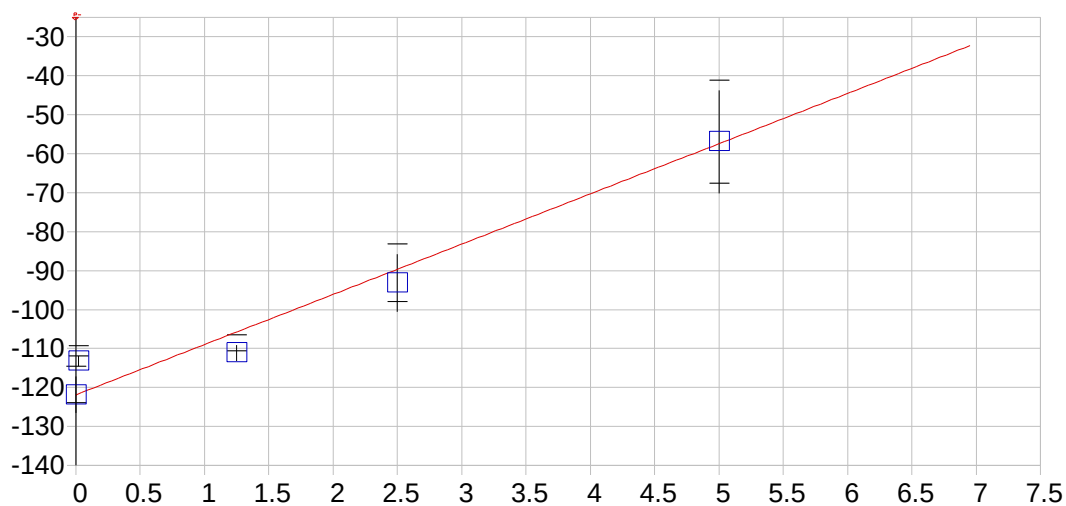
Status: Warning Negative Gain

Std Error of Est: 1.214575

Predicted MDL: n/a

Predicted MQL: n/a

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00003      | .000       | .000    | 5326.1 | 71.0    | 1        |
| S1        | .02000       | -.01810     | -.038      | -191.   | 5330.0 | 38.7    | 1        |
| S3        | 1.2500       | 2.1276      | .878       | 70.2    | 4869.8 | 10.8    | 1        |
| S4        | 2.5000       | 2.7685      | .269       | 10.7    | 4732.4 | 56.8    | 1        |
| S5        | 5.0000       | 3.8920      | -1.11      | -22.2   | 4491.4 | 13.0    | 1        |



U 385.958 { 87}

Date of Fit: 6/7/2019 15:39:34

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): -121.879688

Re-Slope: 1.000000

A1 (Gain): 12.892289

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.538781

Status: OK.

Std Error of Est: 0.344483

Predicted MDL: 0.890059

Predicted MQL: 2.966863

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00064     | -.001      | .000    | -121.89 | 4.71    | 1        |
| S1        | .02000       | .67192      | .652       | 3260.   | -113.22 | 1.28    | 1        |
| S3        | 1.2500       | .83100      | -.419      | -33.5   | -111.17 | 2.11    | 1        |
| S4        | 2.5000       | 2.2274      | -.273      | -10.9   | -93.163 | 7.46    | 1        |
| S5        | 5.0000       | 5.0396      | .040       | .793    | -56.907 | 13.2    | 1        |

Sample Name: S0      Acquired: 6/7/2019 11:35:36      Type: Cal  
Method: P4-ICP2(v3186)      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    | .00018  | .00054  | .00757 | -.00003 | .00095  | .00051 | -.00268 | -.00020 |
| Stddev | .00002  | .00024  | .00019 | .00013  | .00008  | .00008 | .00007  | .00003  |
| %RSD   | 12.898  | 44.618  | 2.4454 | 370.20  | 8.5811  | 16.086 | 2.5233  | 14.530  |
| #1     | .00015  | .00072  | .00747 | -.00018 | .00104  | .00059 | -.00269 | -.00018 |
| #2     | .00018  | .00027  | .00778 | .00005  | .00087  | .00043 | -.00260 | -.00023 |
| #3     | .00020  | .00064  | .00745 | .00003  | .00094  | .00050 | -.00273 | -.00019 |
| 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    | -.00513 | .01592  | .00053 | .00063  | .00001  | .00097 | -.00021 | -.00003 |
| Stddev | .00037  | .00130  | .00004 | .00011  | .00017  | .00001 | .00006  | .00003  |
| %RSD   | 7.1279  | 8.1748  | 8.2598 | 17.947  | 3069.2  | 1.3763 | 28.116  | 123.28  |
| #1     | -.00496 | .01521  | .00055 | .00051  | -.00015 | .00099 | -.00021 | .00001  |
| #2     | -.00555 | .01742  | .00048 | .00073  | -.00003 | .00097 | -.00016 | -.00003 |
| #3     | -.00488 | .01513  | .00057 | .00064  | .00019  | .00097 | -.00027 | -.00006 |
| 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    | -.00716 | -.00078 | .00487 | -.00014 | .00374  | .00567 | -.00007 | .00001  |
| Stddev | .00016  | .00005  | .00019 | .00002  | .00018  | .00021 | .00013  | .00003  |
| %RSD   | 2.2709  | 6.2648  | 3.8079 | 12.087  | 4.8696  | 3.6870 | 192.38  | 394.22  |
| #1     | -.00726 | -.00081 | .00483 | -.00014 | .00353  | .00545 | -.00019 | -.00002 |
| #2     | -.00725 | -.00072 | .00470 | -.00012 | .00386  | .00587 | -.00009 | .00003  |
| #3     | -.00697 | -.00081 | .00507 | -.00016 | .00384  | .00570 | .00007  | .00001  |
| 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    | .00050  | .00928  | .00041 | .00406  | .00930  | -.0024 | -.00233 | 5326.1  |
| Stddev | .00003  | .00012  | .00003 | .00058  | .00018  | .0001  | .00067  | 71.0    |
| %RSD   | 6.7521  | 1.3043  | 6.1832 | 14.385  | 1.8978  | 2.478  | 28.822  | 1.3324  |
| #1     | .00046  | .00941  | .00044 | .00474  | .00950  | -.0025 | -.00303 | 5407.2  |
| #2     | .00051  | .00924  | .00042 | .00373  | .00920  | -.0024 | -.00226 | 5295.9  |
| #3     | .00052  | .00918  | .00039 | .00372  | .00919  | -.0024 | -.00169 | 5275.3  |

Sample Name: S0      Acquired: 6/7/2019 11:35:36      Type: Cal  
Method: P4-ICP2(v3186)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -121.89 |
| Stddev | 4.71    |
| %RSD   | 3.8667  |

|    |         |
|----|---------|
| #1 | -117.04 |
| #2 | -122.18 |
| #3 | -126.45 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3985.7 | 50964. | 4570.8 | 61.535 | 3928.2 |
| Stddev    | 10.5   | 245.   | 22.1   | .832   | 11.3   |
| %RSD      | .26329 | .48091 | .48431 | 1.3514 | .28779 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3990.1 | 50710. | 4552.4 | 61.952 | 3932.0 |
| #2 | 3973.7 | 50984. | 4564.5 | 62.075 | 3915.5 |
| #3 | 3993.3 | 51199. | 4595.3 | 60.577 | 3937.2 |

Sample Name: S1      Acquired: 6/7/2019 11:40:03      Type: Cal  
Method: P4-ICP2(v3186)      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    | .00114 | .00605 | .01134 | .00104 | .00669  | .00101 | .03630 | .00492 |
| Stddev | .00013 | .00003 | .00025 | .00002 | .00015  | .00008 | .00016 | .00001 |
| %RSD   | 11.441 | .52971 | 2.1973 | 1.6965 | 2.2975  | 7.6091 | .42868 | .27480 |
| #1     | .00129 | .00608 | .01141 | .00104 | .00681  | .00094 | .03647 | .00491 |
| #2     | .00107 | .00603 | .01154 | .00105 | .00676  | .00110 | .03616 | .00493 |
| #3     | .00106 | .00603 | .01106 | .00101 | .00652  | .00100 | .03628 | .00491 |
| 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    | .01568 | .00267 | .03209 | .01497 | .01097  | .02051 | .01920 | .00131 |
| Stddev | .00009 | .00008 | .00019 | .00010 | .00010  | .00007 | .00019 | .00009 |
| %RSD   | .56166 | 3.0845 | .59398 | .65634 | .89332  | .35358 | .97522 | 6.8119 |
| #1     | .01570 | .00276 | .03225 | .01507 | .01104  | .02059 | .01903 | .00130 |
| #2     | .01576 | .00264 | .03215 | .01487 | .01101  | .02049 | .01916 | .00123 |
| #3     | .01559 | .00260 | .03188 | .01497 | .01086  | .02045 | .01940 | .00141 |
| 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    | .00787 | .09420 | .10922 | .00018 | .00100  | .10739 | .00690 | .01378 |
| Stddev | .00006 | .00018 | .00044 | .00004 | .00006  | .00038 | .00012 | .00077 |
| %RSD   | .78756 | .19056 | .40632 | 20.347 | 6.2265  | .35393 | 1.7207 | 5.5510 |
| #1     | .00788 | .09402 | .10871 | .00020 | .00094  | .10724 | .00677 | .01360 |
| #2     | .00780 | .09438 | .10952 | .00014 | .00107  | .10783 | .00698 | .01463 |
| #3     | .00792 | .09419 | .10943 | .00021 | .00101  | .10712 | .00697 | .01313 |
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859  |        |        |        |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   |        |        |        |
| Avg    | .03765 | -.0012 | .20282 | 5330.0 | -113.22 |        |        |        |
| Stddev | .00334 | .0001  | .00087 | 38.7   | 1.28    |        |        |        |
| %RSD   | 8.8597 | 4.279  | .42822 | .72602 | 1.1326  |        |        |        |
| #1     | .03458 | -.0012 | .20190 | 5313.8 | -113.79 |        |        |        |
| #2     | .04120 | -.0012 | .20362 | 5374.2 | -114.12 |        |        |        |
| #3     | .03718 | -.0013 | .20293 | 5302.1 | -111.75 |        |        |        |

Sample Name: S1      Acquired: 6/7/2019 11:40:03      Type: Cal  
Method: P4-ICP2(v3186)      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       | 3971.7 | 50900. | 4619.5 | 62.242 | 3909.2 |
| Stddev    | 2.9    | 129.   | 8.8    | .462   | 1.7    |
| %RSD      | .07409 | .25386 | .19005 | .74287 | .04469 |
| #1        | 3973.2 | 50753. | 4618.4 | 61.727 | 3910.6 |
| #2        | 3968.3 | 50995. | 4628.7 | 62.375 | 3909.7 |
| #3        | 3973.6 | 50952. | 4611.3 | 62.623 | 3907.3 |



Sample Name: S2      Acquired: 6/7/2019 11:44:28      Type: Cal  
 Method: P4-ICP2(v3186)      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    | 2.1204 | .00127 | .05283 | .01780 |
| Stddev | .0138  | .00003 | .00067 | .00036 |
| %RSD   | .64911 | 2.2091 | 1.2592 | 2.0337 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | 2.1353 | .00130 | .05208 | .01782 |
| #2 | 2.1081 | .00126 | .05335 | .01815 |
| #3 | 2.1178 | .00124 | .05305 | .01743 |

|           |        |        |
|-----------|--------|--------|
| Int. Std. | Y_3600 | Y_3710 |
| Units     | Cts/S  | Cts/S  |
| Avg       | 51237. | 4635.6 |
| Stddev    | 200.   | 22.3   |
| %RSD      | .38954 | .48126 |

|    |        |        |
|----|--------|--------|
| #1 | 51363. | 4610.6 |
| #2 | 51007. | 4653.5 |
| #3 | 51342. | 4642.7 |

Sample Name: S3      Acquired: 6/7/2019 11:48:42      Type: Cal  
Method: P4-ICP2(v3186)      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    | .11314 | .32941 | .63980 | .13588 | .26482 | .02316 | 1.7958 | .09599 |
| Stddev | .00030 | .00049 | .00163 | .00033 | .00022 | .00030 | .0067  | .00025 |
| %RSD   | .26490 | .14952 | .25534 | .24078 | .08485 | 1.3068 | .37343 | .26405 |
| #1     | .11292 | .32960 | .63954 | .13565 | .26483 | .02300 | 1.7886 | .09610 |
| #2     | .11348 | .32978 | .63831 | .13573 | .26503 | .02298 | 1.8019 | .09617 |
| #3     | .11301 | .32885 | .64155 | .13625 | .26458 | .02351 | 1.7967 | .09570 |
| 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    | 4.0471 | 12.067 | .09939 | 1.2492 | .41786 | .23000 | 1.1376 | .00789 |
| Stddev | .0038  | .028   | .00011 | .0009  | .00088 | .00047 | .0012  | .00008 |
| %RSD   | .09425 | .23015 | .11214 | .07135 | .21132 | .20289 | .10654 | 1.0722 |
| #1     | 4.0515 | 12.076 | .09952 | 1.2501 | .41848 | .23050 | 1.1372 | .00781 |
| #2     | 4.0454 | 12.035 | .09931 | 1.2492 | .41826 | .22991 | 1.1366 | .00798 |
| #3     | 4.0444 | 12.089 | .09934 | 1.2483 | .41685 | .22958 | 1.1389 | .00788 |
| 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    | .75321 | .11904 | .29838 | .23520 | 2.6666 | .08179 | 1.2425 | .00433 |
| Stddev | .00168 | .00038 | .00061 | .00022 | .0023  | .00050 | .0003  | .00005 |
| %RSD   | .22282 | .31653 | .20472 | .09202 | .08496 | .61454 | .02318 | 1.1871 |
| #1     | .75405 | .11945 | .29802 | .23523 | 2.6688 | .08134 | 1.2428 | .00428 |
| #2     | .75128 | .11872 | .29909 | .23540 | 2.6666 | .08169 | 1.2424 | .00432 |
| #3     | .75430 | .11896 | .29804 | .23497 | 2.6643 | .08233 | 1.2422 | .00438 |
| 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    | .06595 | .55248 | .38611 | .59882 | 3.1775 | .1717  | 22.352 | 4869.8 |
| Stddev | .00019 | .00119 | .00015 | .00196 | .0082  | .0007  | .066   | 10.8   |
| %RSD   | .28399 | .21489 | .03942 | .32701 | .25862 | .4236  | .29449 | .22169 |
| #1     | .06611 | .55262 | .38627 | .59734 | 3.1716 | .1725  | 22.278 | 4880.6 |
| #2     | .06599 | .55123 | .38609 | .59807 | 3.1740 | .1713  | 22.377 | 4859.0 |
| #3     | .06574 | .55359 | .38596 | .60104 | 3.1869 | .1712  | 22.402 | 4869.9 |

Sample Name: S3      Acquired: 6/7/2019 11:48:42      Type: Cal  
 Method: P4-ICP2(v3186)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -111.17 |
| Stddev | 2.11    |
| %RSD   | 1.8983  |

|    |         |
|----|---------|
| #1 | -108.99 |
| #2 | -113.21 |
| #3 | -111.29 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3879.6 | 49736. | 4652.9 | 62.494 | 3681.4 |
| Stddev    | 7.7    | 56.    | 8.5    | 1.439  | 8.3    |
| %RSD      | .19872 | .11282 | .18197 | 2.3019 | .22569 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3875.3 | 49696. | 4644.1 | 63.512 | 3674.3 |
| #2 | 3875.0 | 49713. | 4661.0 | 63.123 | 3679.4 |
| #3 | 3888.5 | 49801. | 4653.8 | 60.848 | 3690.5 |

Sample Name: S4      Acquired: 6/7/2019 11:52:42      Type: Cal  
Method: P4-ICP2(v3186)      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    | .23019 | .66626 | 1.2914 | .27525 | .53469 | .04655 | 3.6467 | .19385 |
| Stddev | .00098 | .00062 | .0039  | .00031 | .00127 | .00035 | .0146  | .00091 |
| %RSD   | .42391 | .09231 | .30467 | .11223 | .23714 | .75802 | .40144 | .47063 |
| #1     | .23045 | .66642 | 1.2958 | .27536 | .53431 | .04614 | 3.6306 | .19448 |
| #2     | .23101 | .66558 | 1.2882 | .27550 | .53611 | .04680 | 3.6592 | .19426 |
| #3     | .22911 | .66677 | 1.2903 | .27491 | .53367 | .04670 | 3.6502 | .19280 |
| 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    | 8.3016 | 24.387 | .19847 | 2.5432 | .82982 | .45989 | 2.2747 | .01578 |
| Stddev | .0048  | .069   | .00026 | .0013  | .00139 | .00031 | .0042  | .00023 |
| %RSD   | .05804 | .28276 | .13234 | .05040 | .16740 | .06722 | .18384 | 1.4466 |
| #1     | 8.3027 | 24.449 | .19843 | 2.5444 | .82889 | .45963 | 2.2763 | .01554 |
| #2     | 8.3058 | 24.313 | .19875 | 2.5418 | .83142 | .45980 | 2.2699 | .01581 |
| #3     | 8.2963 | 24.398 | .19823 | 2.5434 | .82916 | .46023 | 2.2778 | .01599 |
| 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    | 1.5293 | .23874 | .60091 | .47356 | 5.4538 | .16021 | 2.5010 | .00869 |
| Stddev | .0034  | .00054 | .00286 | .00102 | .0112  | .00046 | .0052  | .00012 |
| %RSD   | .21954 | .22816 | .47540 | .21630 | .20500 | .28572 | .20657 | 1.3699 |
| #1     | 1.5283 | .23935 | .59776 | .47289 | 5.4656 | .15976 | 2.5005 | .00856 |
| #2     | 1.5331 | .23855 | .60333 | .47307 | 5.4434 | .16067 | 2.5064 | .00871 |
| #3     | 1.5266 | .23831 | .60164 | .47474 | 5.4525 | .16019 | 2.4961 | .00879 |
| 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    | .13686 | 1.1254 | .78553 | 1.2065 | 6.4334 | .3604  | 45.351 | 4732.4 |
| Stddev | .00029 | .0026  | .00077 | .0016  | .0297  | .0008  | .109   | 56.8   |
| %RSD   | .20939 | .23496 | .09834 | .13570 | .46122 | .2220  | .23954 | 1.2009 |
| #1     | .13676 | 1.1285 | .78619 | 1.2049 | 6.4003 | .3605  | 45.246 | 4775.7 |
| #2     | .13719 | 1.1237 | .78574 | 1.2066 | 6.4575 | .3611  | 45.463 | 4753.5 |
| #3     | .13664 | 1.1242 | .78468 | 1.2081 | 6.4425 | .3595  | 45.344 | 4668.0 |

Sample Name: S4      Acquired: 6/7/2019 11:52:42      Type: Cal  
 Method: P4-ICP2(v3186)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -93.163 |
| Stddev | 7.458   |
| %RSD   | 8.0052  |

|    |         |
|----|---------|
| #1 | -101.13 |
| #2 | -92.011 |
| #3 | -86.348 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3800.4 | 48782. | 4559.9 | 60.831 | 3530.7 |
| Stddev    | 8.1    | 98.    | 5.1    | 1.315  | 2.2    |
| %RSD      | .21280 | .20071 | .11292 | 2.1621 | .06155 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3803.0 | 48883. | 4555.6 | 59.332 | 3529.1 |
| #2 | 3791.4 | 48775. | 4565.6 | 61.365 | 3529.9 |
| #3 | 3807.0 | 48688. | 4558.3 | 61.794 | 3533.2 |

Sample Name: S5      Acquired: 6/7/2019 11:56:42      Type: Cal  
Method: P4-ICP2(v3186)      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    | .47017 | 1.3506 | 2.6530 | .55883 | 1.0890 | .09615 | 7.5490 | .39303 |
| Stddev | .00109 | .0012  | .0078  | .00101 | .0011  | .00077 | .0619  | .00036 |
| %RSD   | .23205 | .08946 | .29572 | .17988 | .10012 | .79732 | .81962 | .09160 |
| #1     | .46920 | 1.3517 | 2.6585 | .55854 | 1.0901 | .09536 | 7.5370 | .39344 |
| #2     | .47135 | 1.3507 | 2.6440 | .55995 | 1.0880 | .09690 | 7.6160 | .39283 |
| #3     | .46995 | 1.3493 | 2.6565 | .55800 | 1.0888 | .09618 | 7.4941 | .39281 |
| 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    | 17.153 | 48.645 | .39827 | 5.2604 | 1.6679 | .91918 | 4.5605 | .03270 |
| Stddev | .050   | .220   | .00042 | .0167  | .0032  | .00079 | .0061  | .00022 |
| %RSD   | .29399 | .45319 | .10640 | .31782 | .19268 | .08604 | .13293 | .66176 |
| #1     | 17.192 | 48.540 | .39791 | 5.2707 | 1.6712 | .91876 | 4.5540 | .03257 |
| #2     | 17.096 | 48.497 | .39874 | 5.2411 | 1.6676 | .92009 | 4.5659 | .03295 |
| #3     | 17.171 | 48.898 | .39817 | 5.2693 | 1.6648 | .91869 | 4.5617 | .03258 |
| 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    | 3.1477 | .48604 | 1.2434 | .96423 | 11.277 | .32786 | 5.0702 | .01806 |
| Stddev | .0086  | .00023 | .0079  | .00117 | .032   | .00217 | .0038  | .00011 |
| %RSD   | .27268 | .04694 | .63523 | .12147 | .27943 | .66124 | .07567 | .60705 |
| #1     | 3.1548 | .48624 | 1.2384 | .96288 | 11.305 | .32590 | 5.0710 | .01793 |
| #2     | 3.1382 | .48608 | 1.2525 | .96490 | 11.243 | .33019 | 5.0735 | .01814 |
| #3     | 3.1502 | .48579 | 1.2393 | .96492 | 11.283 | .32750 | 5.0660 | .01811 |
| 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    | .29006 | 2.2693 | 1.6219 | 2.4562 | 13.253 | .7601  | 91.363 | 4491.4 |
| Stddev | .00065 | .0153  | .0044  | .0106  | .093   | .0022  | .660   | 13.0   |
| %RSD   | .22557 | .67363 | .26960 | .43086 | .69837 | .2905  | .72277 | .28846 |
| #1     | .29053 | 2.2565 | 1.6253 | 2.4439 | 13.148 | .7621  | 91.050 | 4503.8 |
| #2     | .29034 | 2.2652 | 1.6170 | 2.4625 | 13.291 | .7578  | 90.918 | 4477.9 |
| #3     | .28931 | 2.2863 | 1.6234 | 2.4620 | 13.320 | .7604  | 92.122 | 4492.6 |

Sample Name: S5      Acquired: 6/7/2019 11:56:42      Type: Cal  
Method: P4-ICP2(v3186)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -56.907 |
| Stddev | 13.199  |
| %RSD   | 23.193  |

|    |         |
|----|---------|
| #1 | -64.482 |
| #2 | -64.573 |
| #3 | -41.667 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3686.9 | 47539. | 4522.2 | 60.884 | 3331.0 |
| Stddev    | 4.5    | 191.   | 10.3   | .844   | 12.9   |
| %RSD      | .12255 | .40121 | .22842 | 1.3858 | .38647 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3682.5 | 47497. | 4531.1 | 60.087 | 3321.9 |
| #2 | 3691.5 | 47373. | 4524.8 | 61.767 | 3345.7 |
| #3 | 3686.8 | 47747. | 4510.9 | 60.797 | 3325.5 |

Sample Name: ICV01      Acquired: 6/7/2019 12:37:08      Type: Unk  
Method: P4-ICP2(v3186)      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 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.0113 | 1.0453 | 1.0110 | 1.0083 | 1.0029 | 2.5406 | .49625 |
| Stddev | .0072  | .0023  | .0055  | .0052  | .0032  | .0273  | .00387 |
| %RSD   | .70992 | .21928 | .54077 | .51271 | .31526 | 1.0745 | .77988 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0032 | 1.0459 | 1.0098 | 1.0055 | .99944 | 2.5117 | .49450 |
| #2 | 1.0138 | 1.0472 | 1.0170 | 1.0051 | 1.0038 | 2.5659 | .49356 |
| #3 | 1.0169 | 1.0428 | 1.0063 | 1.0143 | 1.0056 | 2.5444 | .50069 |

|        |        |        |          |        |        |        |        |
|--------|--------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | .49357 | .48269 | F 10.922 | .50552 | .49967 | .48621 | 5.1523 |
| Stddev | .00026 | .00062 | .057     | .00212 | .00152 | .00240 | .0192  |
| %RSD   | .05348 | .12853 | .52626   | .42023 | .30442 | .49411 | .37343 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .49387 | .48238 | 10.985 | .50683 | .49916 | .48384 | 5.1745 |
| #2 | .49340 | .48341 | 10.908 | .50307 | .50138 | .48615 | 5.1397 |
| #3 | .49343 | .48229 | 10.873 | .50667 | .49846 | .48865 | 5.1428 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .51353 | 5.9420 | .50460 | .50623 | 9.9341 | .49826 | .98377 |
| Stddev | .00101 | .1201  | .00085 | .00172 | .0450  | .00054 | .00185 |
| %RSD   | .19684 | 2.0215 | .16825 | .33923 | .45343 | .10783 | .18848 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .51452 | 5.8770 | .50500 | .50810 | 9.9042 | .49858 | .98564 |
| #2 | .51250 | 5.8683 | .50517 | .50472 | 9.9122 | .49764 | .98373 |
| #3 | .51357 | 6.0806 | .50362 | .50586 | 9.9859 | .49856 | .98193 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 9.9350 | 2.5603 | 2.5074 | F .00725 | 2.3861 | 2.4349 | 2.5351 |
| Stddev | .1187  | .0066  | .0502  | .00102   | .0025  | .0053  | .0088  |
| %RSD   | 1.1952 | .25629 | 2.0031 | 14.110   | .10436 | .21933 | .34540 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 9.8286 | 2.5566 | 2.4550 | .00612 | 2.3885 | 2.4341 | 2.5250 |
| #2 | 9.9134 | 2.5564 | 2.5123 | .00751 | 2.3836 | 2.4406 | 2.5411 |
| #3 | 10.063 | 2.5679 | 2.5551 | .00811 | 2.3861 | 2.4300 | 2.5391 |



Sample Name: ICV01      Acquired: 6/7/2019 12:37:08      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICV01      Custom ID2:      Custom ID3:  
Comment:

|           |           |          |          |          |          |
|-----------|-----------|----------|----------|----------|----------|
| Elem      | Li6707    | P_1774   | Sr4077   | U_3670   | U_3859   |
| Units     | ppm       | ppm      | ppm      | ppm      | ppm      |
| Avg       | F -.00154 | F -.0008 | F .00657 | F 3.5353 | F 2.3762 |
| Stddev    | .00103    | .0005    | .00011   | .0581    | .2492    |
| %RSD      | 66.578    | 58.67    | 1.6340   | 1.6436   | 10.485   |
| #1        | -.00255   | -.0006   | .00645   | 3.5493   | 2.4780   |
| #2        | -.00050   | -.0014   | .00666   | 3.4714   | 2.5584   |
| #3        | -.00157   | -.0005   | .00660   | 3.5850   | 2.0923   |
| Int. Std. | Y_2243    | Y_3600   | Y_3710   | In2306   | In2306   |
| Units     | Cts/S     | Cts/S    | Cts/S    | Cts/S    | Cts/S    |
| Avg       | 3866.2    | 50429.   | 4656.4   | 63.254   | 3762.7   |
| Stddev    | 14.3      | 225.     | 32.7     | 1.609    | 9.1      |
| %RSD      | .36878    | .44696   | .70141   | 2.5444   | .24245   |
| #1        | 3863.1    | 50174.   | 4621.4   | 61.961   | 3752.2   |
| #2        | 3881.7    | 50602.   | 4661.5   | 62.745   | 3768.9   |
| #3        | 3853.7    | 50512.   | 4686.2   | 65.057   | 3767.0   |

Sample Name: LLICV01      Acquired: 6/7/2019 12:41:06      Type: Unk  
Method: P4-ICP2(v3186)      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    | .02024 | .04244 | .01353 | .01931 | .05548 | .08118 | .10640 |
| Stddev | .00204 | .00090 | .00067 | .00252 | .00152 | .00962 | .00111 |
| %RSD   | 10.060 | 2.1097 | 4.9310 | 13.048 | 2.7315 | 11.847 | 1.0476 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .01976 | .04156 | .01420 | .01895 | .05473 | .08133 | .10615 |
| #2 | .01849 | .04335 | .01286 | .01699 | .05448 | .09073 | .10543 |
| #3 | .02247 | .04239 | .01354 | .02199 | .05722 | .07150 | .10762 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00668 | .00603 | 2.1650 | .00944 | .03034 | .02240 | .10799 |
| Stddev | .00008 | .00008 | .0066  | .00019 | .00024 | .00021 | .00043 |
| %RSD   | 1.2452 | 1.3440 | .30324 | 1.9816 | .78321 | .94457 | .39425 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00677 | .00602 | 2.1726 | .00922 | .03058 | .02257 | .10842 |
| #2 | .00667 | .00596 | 2.1617 | .00958 | .03010 | .02217 | .10800 |
| #3 | .00661 | .00612 | 2.1607 | .00951 | .03035 | .02248 | .10756 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02309 | 2.0749 | .04178 | .01145 | 2.0494 | .04274 | .04057 |
| Stddev | .00011 | .0314  | .00040 | .00072 | .0156  | .00028 | .00003 |
| %RSD   | .45502 | 1.5133 | .96267 | 6.2773 | .75960 | .64853 | .06594 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02301 | 2.0882 | .04153 | .01062 | 2.0314 | .04278 | .04057 |
| #2 | .02304 | 2.0975 | .04156 | .01193 | 2.0584 | .04299 | .04060 |
| #3 | .02321 | 2.0391 | .04224 | .01179 | 2.0583 | .04244 | .04055 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.0083 | .22004 | .10741 | .01865 | .44343 | .04077 | .03946 |
| Stddev | .0416  | .00080 | .00991 | .00432 | .00328 | .00059 | .00189 |
| %RSD   | 2.0708 | .36333 | 9.2229 | 23.171 | .73859 | 1.4349 | 4.7850 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0162 | .22055 | .09723 | .01749 | .44415 | .04073 | .03897 |
| #2 | 1.9633 | .22045 | .10799 | .01502 | .43985 | .04137 | .04155 |
| #3 | 2.0453 | .21912 | .11701 | .02343 | .44628 | .04020 | .03787 |

Sample Name: LLICV01      Acquired: 6/7/2019 12:41:06      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .02008 | .0179  | .02263 | F 3.1068 | F<.00000 |
| Stddev | .00091 | .0007  | .00031 | .1229    | .30082   |
| %RSD   | 4.5522 | 4.132  | 1.3783 | 3.9564   | 37.101   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01916 | .0185 | .02242 | 2.9770 | -.47596 |
| #2 | .02008 | .0180 | .02249 | 3.1219 | -.89822 |
| #3 | .02099 | .0171 | .02299 | 3.2214 | -1.0582 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3917.9 | 51330. | 4656.2 | 63.670 | 3908.2 |
| Stddev    | 6.8    | 102.   | 20.8   | 2.004  | 6.0    |
| %RSD      | .17347 | .19835 | .44739 | 3.1473 | .15291 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3913.7 | 51214. | 4634.6 | 65.345 | 3902.0 |
| #2 | 3914.3 | 51406. | 4676.2 | 61.450 | 3908.8 |
| #3 | 3925.8 | 51371. | 4657.7 | 64.214 | 3913.9 |

Sample Name: ICB01      Acquired: 6/7/2019 12:45:30      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00062 | .00027 | -.00179 | -.00339 | .00150 | -.02815 | .00169 |
| Stddev | .00264 | .00054 | .00051  | .00080  | .00134 | .02213  | .00005 |
| %RSD   | 424.11 | 200.68 | 28.692  | 23.488  | 89.819 | 78.611  | 3.1151 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | .00359  | -.00012 | -.00160 | -.00307 | .00038 | -.01454 | .00163 |
| #2 | -.00148 | .00088  | -.00140 | -.00280 | .00112 | -.01622 | .00173 |
| #3 | -.00023 | .00004  | -.00237 | -.00429 | .00299 | -.05368 | .00172 |

|        |        |        |         |         |         |        |         |
|--------|--------|--------|---------|---------|---------|--------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247 | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00004 | .00006 | -.00054 | -.00057 | -.00013 | .00022 | -.00107 |
| Stddev | .00008 | .00007 | .00049  | .00023  | .00013  | .00011 | .00035  |
| %RSD   | 225.11 | 114.71 | 90.095  | 40.911  | 100.37  | 50.608 | 33.182  |

|    |         |         |         |         |         |        |         |
|----|---------|---------|---------|---------|---------|--------|---------|
| #1 | .00003  | .00005  | -.00010 | -.00068 | -.00027 | .00010 | -.00066 |
| #2 | -.00004 | -.00000 | -.00106 | -.00030 | -.00010 | .00032 | -.00121 |
| #3 | .00012  | .00013  | -.00047 | -.00074 | -.00002 | .00025 | -.00133 |

|        |        |         |        |         |         |        |         |
|--------|--------|---------|--------|---------|---------|--------|---------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280  | Na5895  | V_2924 | Zn2138  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00001 | -.04281 | .00039 | -.00032 | -.08549 | .00014 | -.00004 |
| Stddev | .00002 | .05972  | .00028 | .00020  | .00997  | .00058 | .00004  |
| %RSD   | 336.64 | 139.48  | 70.624 | 62.986  | 11.661  | 420.42 | 95.447  |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.00000 | -.10872 | .00020 | -.00017 | -.09612 | .00055  | -.00007 |
| #2 | -.00001 | -.02741 | .00071 | -.00055 | -.08403 | .00039  | .00000  |
| #3 | .00002  | .00770  | .00027 | -.00023 | -.07634 | -.00053 | -.00006 |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | K_7664  | Mo2020  | B_2496  | S_1820  | Si2881  | Sn1899  | Ti3361  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.10187 | -.00028 | -.00067 | -.00013 | -.00056 | -.00068 | -.00335 |
| Stddev | .01763  | .00009  | .00472  | .00633  | .00120  | .00030  | .00238  |
| %RSD   | 17.305  | 30.655  | 705.11  | 4964.8  | 213.89  | 44.583  | 71.136  |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.09186 | -.00019 | .00464  | -.00172 | .00053  | -.00086 | -.00084 |
| #2 | -.12222 | -.00031 | -.00438 | .00685  | -.00037 | -.00033 | -.00363 |
| #3 | -.09152 | -.00035 | -.00226 | -.00552 | -.00185 | -.00085 | -.00558 |

Sample Name: ICB01      Acquired: 6/7/2019 12:45:30      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00213 | -.0026 | .00004 | F 2.8013 | F<.00000 |
| Stddev    | .00163  | .0010  | .00003 | .2631    | .81283   |
| %RSD      | 76.354  | 40.58  | 69.497 | 9.3920   | 58.702   |
| #1        | -.00207 | -.0035 | .00007 | 2.9062   | -2.2740  |
| #2        | -.00054 | -.0014 | .00004 | 2.5019   | -.68010  |
| #3        | -.00379 | -.0028 | .00001 | 2.9957   | -1.2000  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3926.2  | 51652. | 4681.3 | 63.021   | 3930.5   |
| Stddev    | 5.8     | 135.   | 17.0   | 1.416    | 4.4      |
| %RSD      | .14710  | .26199 | .36362 | 2.2463   | .11195   |
| #1        | 3930.1  | 51568. | 4683.0 | 62.020   | 3927.9   |
| #2        | 3919.6  | 51580. | 4663.5 | 64.641   | 3928.0   |
| #3        | 3928.9  | 51808. | 4697.4 | 62.402   | 3935.6   |

Sample Name: CRI01      Acquired: 6/7/2019 12:49:59      Type: Unk  
Method: P4-ICP2(v3186)      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    | .02218 | .04266 | .01300 | .01963 | .05461 | .09137 | .10726 |
| Stddev | .00192 | .00126 | .00012 | .00112 | .00261 | .00973 | .00077 |
| %RSD   | 8.6357 | 2.9598 | .92956 | 5.6845 | 4.7711 | 10.652 | .71351 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02064 | .04386 | .01314 | .01840 | .05527 | .08945 | .10646 |
| #2 | .02158 | .04134 | .01292 | .01991 | .05683 | .08274 | .10732 |
| #3 | .02433 | .04278 | .01294 | .02058 | .05175 | .10192 | .10799 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00662 | .00600 | 2.1594 | .00964 | .03013 | .02309 | .10900 |
| Stddev | .00010 | .00011 | .0064  | .00031 | .00002 | .00035 | .00078 |
| %RSD   | 1.4598 | 1.8207 | .29823 | 3.2557 | .06781 | 1.5070 | .71583 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00651 | .00612 | 2.1644 | .00950 | .03013 | .02274 | .10825 |
| #2 | .00670 | .00596 | 2.1615 | .00941 | .03016 | .02343 | .10894 |
| #3 | .00664 | .00591 | 2.1521 | .00999 | .03012 | .02311 | .10980 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02322 | 2.1692 | .04220 | .01068 | 2.0621 | .04295 | .04108 |
| Stddev | .00020 | .0438  | .00028 | .00011 | .0243  | .00029 | .00014 |
| %RSD   | .84717 | 2.0204 | .66516 | .98565 | 1.1802 | .66483 | .34259 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02302 | 2.1336 | .04201 | .01071 | 2.0381 | .04266 | .04111 |
| #2 | .02325 | 2.1559 | .04206 | .01076 | 2.0616 | .04323 | .04093 |
| #3 | .02341 | 2.2182 | .04252 | .01056 | 2.0868 | .04295 | .04121 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.9696 | .22010 | .10357 | .01724 | .44449 | .03893 | .04228 |
| Stddev | .0195  | .00138 | .02664 | .00500 | .00450 | .00057 | .00171 |
| %RSD   | .99089 | .62483 | 25.722 | 28.991 | 1.0121 | 1.4524 | 4.0409 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.9881 | .21964 | .11452 | .01333 | .44176 | .03903 | .04032 |
| #2 | 1.9713 | .21901 | .07320 | .01553 | .44968 | .03833 | .04302 |
| #3 | 1.9492 | .22164 | .12299 | .02287 | .44203 | .03945 | .04349 |

Sample Name: CRI01      Acquired: 6/7/2019 12:49:59      Type: Unk  
 Method: P4-ICP2(v3186)      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       | .01961 | .0194  | .02249 | F 3.1169 | F<.00000 |
| Stddev    | .00095 | .0012  | .00016 | .3616    | .95351   |
| %RSD      | 4.8240 | 5.962  | .71145 | 11.602   | 132.13   |
| #1        | .01887 | .0185  | .02237 | 3.1356   | .37060   |
| #2        | .02068 | .0189  | .02243 | 3.4689   | -1.1477  |
| #3        | .01928 | .0207  | .02267 | 2.7463   | -1.3878  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3923.2 | 51316. | 4683.5 | 64.207   | 3912.2   |
| Stddev    | 9.2    | 75.    | 17.5   | 1.207    | 2.3      |
| %RSD      | .23453 | .14710 | .37399 | 1.8794   | .05934   |
| #1        | 3921.0 | 51352. | 4665.1 | 65.384   | 3914.9   |
| #2        | 3915.3 | 51366. | 4685.5 | 64.264   | 3910.5   |
| #3        | 3933.3 | 51229. | 4700.0 | 62.973   | 3911.3   |

Sample Name: ICSA01      Acquired: 6/7/2019 12:54:25      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00336   | .01449  | -.01154 | -.00341 | .01454  | 291.34 | .00758  | .00328 |
| Stddev | .00434   | .00061  | .00040  | .00385  | .00512  | 2.75   | .00079  | .00012 |
| %RSD   | 129.09   | 4.2006  | 3.4994  | 112.99  | 35.217  | .94556 | 10.402  | 3.7210 |
| #1     | .00819   | .01378  | -.01193 | .00095  | .01356  | 288.16 | .00670  | .00327 |
| #2     | -.00021  | .01487  | -.01157 | -.00634 | .02008  | 292.83 | .00783  | .00341 |
| #3     | .00211   | .01480  | -.01112 | -.00484 | .00998  | 293.03 | .00822  | .00317 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.00171  | 256.46  | .04847  | -.00006 | .01060  | 99.405 | .01505  | 282.55 |
| Stddev | .00010   | .83     | .00010  | .00042  | .00056  | .353   | .00006  | 2.40   |
| %RSD   | 5.8753   | .32450  | .21214  | 732.31  | 5.3135  | .35509 | .40393  | .84811 |
| #1     | -.00168  | 257.23  | .04855  | .00038  | .01017  | 99.542 | .01503  | 279.82 |
| #2     | -.00162  | 255.57  | .04851  | -.00045 | .01040  | 99.004 | .01500  | 283.54 |
| #3     | -.00182  | 256.57  | .04835  | -.00011 | .01124  | 99.669 | .01512  | 284.30 |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.02025  | -.00951 | .01599  | .00079  | -.01430 | .02846 | -.00168 | .06882 |
| Stddev | .00082   | .00058  | .01652  | .00008  | .00012  | .02630 | .00062  | .02447 |
| %RSD   | 4.0245   | 6.0818  | 103.32  | 10.525  | .85685  | 92.391 | 36.748  | 35.562 |
| #1     | -.02118  | -.00934 | -.00303 | .00070  | -.01420 | .01032 | -.00168 | .09328 |
| #2     | -.01966  | -.00904 | .02427  | .00083  | -.01426 | .05862 | -.00106 | .04433 |
| #3     | -.01991  | -.01016 | .02674  | .00085  | -.01444 | .01644 | -.00229 | .06884 |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | F .02497 | -.00480 | .00193  | -.00500 | .00424  | .0191  | -.00015 | 6.1663 |
| Stddev | .00408   | .00409  | .00164  | .00197  | .00158  | .0029  | .00038  | .0803  |
| %RSD   | 16.332   | 85.347  | 84.899  | 39.397  | 37.213  | 15.02  | 256.01  | 1.3027 |
| #1     | .02510   | -.00524 | .00158  | -.00603 | .00328  | .0222  | -.00029 | 6.1135 |
| #2     | .02083   | -.00865 | .00049  | -.00273 | .00606  | .0165  | .00028  | 6.1268 |
| #3     | .02899   | -.00050 | .00371  | -.00625 | .00338  | .0186  | -.00044 | 6.2588 |



Sample Name: ICSA01      Acquired: 6/7/2019 12:54:25      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA01      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 61.189 |
| Stddev | .527   |
| %RSD   | .86183 |

|    |        |
|----|--------|
| #1 | 61.655 |
| #2 | 60.617 |
| #3 | 61.296 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3487.4 | 45125. | 4489.5 | 58.109 | 3172.9 |
| Stddev    | 5.7    | 71.    | 34.3   | 1.440  | 8.6    |
| %RSD      | .16414 | .15706 | .76309 | 2.4781 | .27047 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3487.3 | 45104. | 4451.5 | 56.775 | 3168.1 |
| #2 | 3481.8 | 45067. | 4499.1 | 57.917 | 3167.8 |
| #3 | 3493.2 | 45204. | 4518.0 | 59.636 | 3182.8 |

Sample Name: ICSAB01      Acquired: 6/7/2019 12:59:13      Type: Unk  
Method: P4-ICP2(v3186)      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    | .11124   | .12255 | .05016 | .04881 | .66920   | 287.76  | .56715   | .57038 |
| Stddev | .00412   | .00136 | .00081 | .00210 | .00150   | 2.57    | .00421   | .00358 |
| %RSD   | 3.7051   | 1.1112 | 1.6088 | 4.3091 | .22413   | .89457  | .74250   | .62734 |
| #1     | .11456   | .12308 | .04941 | .05105 | .66770   | 284.87  | .56270   | .56781 |
| #2     | .10663   | .12100 | .05101 | .04850 | .67070   | 288.58  | .56768   | .56887 |
| #3     | .11252   | .12357 | .05007 | .04688 | .66918   | 289.82  | .57107   | .57447 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247   | Fe2404  | Mn2576   | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm    |
| Avg    | 1.0394   | 256.07 | .57868 | .52750 | .54432   | 98.216  | .54704   | 277.52 |
| Stddev | .0036    | 1.84   | .00353 | .00055 | .00063   | .278    | .00239   | 2.76   |
| %RSD   | .34931   | .71685 | .61075 | .10374 | .11665   | .28340  | .43638   | .99350 |
| #1     | 1.0422   | 257.24 | .57535 | .52743 | .54490   | 97.895  | .54527   | 274.59 |
| #2     | 1.0353   | 253.95 | .57830 | .52699 | .54364   | 98.389  | .54609   | 277.91 |
| #3     | 1.0408   | 257.01 | .58239 | .52807 | .54441   | 98.365  | .54975   | 280.06 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138   | K_7664  | Mo2020   | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm    |
| Avg    | 1.0251   | .21233 | .01853 | .53422 | 1.1120   | .00469  | 1.1146   | 1.1877 |
| Stddev | .0040    | .00206 | .01037 | .00260 | .0050    | .02634  | .0037    | .0211  |
| %RSD   | .39239   | .97118 | 55.970 | .48696 | .44674   | 561.72  | .32783   | 1.7740 |
| #1     | 1.0296   | .21008 | .00661 | .53123 | 1.1168   | -.02572 | 1.1110   | 1.1729 |
| #2     | 1.0219   | .21279 | .02346 | .53594 | 1.1069   | .01934  | 1.1144   | 1.1784 |
| #3     | 1.0238   | .21413 | .02552 | .53548 | 1.1123   | .02044  | 1.1183   | 1.2118 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707   | P_1774  | Sr4077   | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm      | ppm     | ppm      | ppm    |
| Avg    | F .02318 | .98064 | 1.0957 | 1.0694 | F .00279 | F .0213 | F .00005 | 6.5144 |
| Stddev | .00537   | .01488 | .0042  | .0055  | .00196   | .0052   | .00034   | .2054  |
| %RSD   | 23.184   | 1.5171 | .37947 | .50995 | 70.257   | 24.43   | 644.77   | 3.1525 |
| #1     | .02189   | .98046 | 1.0997 | 1.0677 | .00072   | .0191   | .00020   | 6.7041 |
| #2     | .01856   | .96586 | 1.0914 | 1.0650 | .00303   | .0273   | -.00033  | 6.5428 |
| #3     | .02908   | .99562 | 1.0961 | 1.0755 | .00462   | .0176   | .00029   | 6.2963 |

Sample Name: ICSAB01      Acquired: 6/7/2019 12:59:13      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB01      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 59.816 |
| Stddev | .444   |
| %RSD   | .74248 |

|    |        |
|----|--------|
| #1 | 59.464 |
| #2 | 59.668 |
| #3 | 60.315 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3499.7 | 45336. | 4475.2 | 58.792 | 3181.0 |
| Stddev    | 6.1    | 43.    | 44.2   | .923   | 18.6   |
| %RSD      | .17405 | .09464 | .98740 | 1.5695 | .58428 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3494.1 | 45384. | 4432.6 | 58.850 | 3160.6 |
| #2 | 3506.2 | 45301. | 4520.8 | 57.841 | 3197.0 |
| #3 | 3498.7 | 45324. | 4472.3 | 59.684 | 3185.5 |

Sample Name: CCV01      Acquired: 6/7/2019 13:03:46      Type: Unk  
Method: P4-ICP2(v3186)      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    | 4.9400 | 4.9696 | 4.9163 | 4.9566 | 5.0034 | 10.046 | 9.9120 | .24976 |
| Stddev | .0214  | .0035  | .0072  | .0151  | .0046  | .084   | .0297  | .00084 |
| %RSD   | .43257 | .06985 | .14599 | .30487 | .09191 | .83511 | .29936 | .33801 |
| #1     | 4.9639 | 4.9729 | 4.9127 | 4.9705 | 5.0041 | 9.9521 | 9.8879 | .25070 |
| #2     | 4.9226 | 4.9699 | 4.9245 | 4.9405 | 5.0075 | 10.070 | 9.9452 | .24953 |
| #3     | 4.9336 | 4.9660 | 4.9115 | 4.9588 | 4.9984 | 10.114 | 9.9030 | .24906 |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.4506 | 24.797 | .99035 | 2.4564 | 1.2577 | 4.9373 | 2.5207 | 24.660 |
| Stddev | .0027  | .199   | .00097 | .0019  | .0021  | .0063  | .0055  | .221   |
| %RSD   | .10992 | .80215 | .09813 | .07929 | .16794 | .12841 | .21878 | .89449 |
| #1     | 2.4489 | 25.025 | .99007 | 2.4542 | 1.2598 | 4.9381 | 2.5265 | 24.412 |
| #2     | 2.4537 | 24.706 | .99142 | 2.4579 | 1.2577 | 4.9306 | 2.5155 | 24.735 |
| #3     | 2.4492 | 24.659 | .98954 | 2.4572 | 1.2556 | 4.9432 | 2.5202 | 24.834 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.4559 | 1.2309 | 24.736 | 2.4762 | 2.4589 | 24.674 | 5.0190 | 5.0183 |
| Stddev | .0033  | .0025  | .081   | .0076  | .0032  | .129   | .0037  | .0759  |
| %RSD   | .13501 | .20028 | .32874 | .30678 | .12995 | .52234 | .07374 | 1.5133 |
| #1     | 2.4529 | 1.2324 | 24.655 | 2.4793 | 2.4591 | 24.527 | 5.0217 | 4.9323 |
| #2     | 2.4595 | 1.2280 | 24.818 | 2.4675 | 2.4619 | 24.729 | 5.0206 | 5.0467 |
| #3     | 2.4552 | 1.2322 | 24.736 | 2.4817 | 2.4556 | 24.766 | 5.0148 | 5.0760 |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 4.8803 | 4.9799 | 4.8770 | 4.9548 | 4.9424 | 4.936  | 4.9777 | 4.8688 |
| Stddev | .0098  | .0641  | .0043  | .0064  | .0343  | .008   | .0324  | .1956  |
| %RSD   | .20054 | 1.2869 | .08758 | .12930 | .69346 | .1661  | .65087 | 4.0164 |
| #1     | 4.8910 | 5.0484 | 4.8724 | 4.9534 | 4.9630 | 4.932  | 5.0010 | 5.0698 |
| #2     | 4.8718 | 4.9698 | 4.8777 | 4.9618 | 4.9615 | 4.946  | 4.9914 | 4.6792 |
| #3     | 4.8780 | 4.9214 | 4.8808 | 4.9493 | 4.9029 | 4.931  | 4.9407 | 4.8575 |

Sample Name: CCV01      Acquired: 6/7/2019 13:03:46      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV01      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 1.6364 |
| Stddev | .9042    |
| %RSD   | 55.253   |

|    |        |
|----|--------|
| #1 | .61194 |
| #2 | 1.9743 |
| #3 | 2.3229 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3759.5 | 49008. | 4621.8 | 61.071 | 3520.9 |
| Stddev    | 7.9    | 104.   | 39.4   | 1.437  | 3.7    |
| %RSD      | .20903 | .21234 | .85272 | 2.3537 | .10383 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3752.6 | 48986. | 4582.2 | 59.444 | 3519.0 |
| #2 | 3768.0 | 48917. | 4622.2 | 61.604 | 3525.1 |
| #3 | 3757.9 | 49121. | 4661.0 | 62.166 | 3518.6 |

Sample Name: LLCCV01      Acquired: 6/7/2019 13:07:45      Type: Unk  
Method: P4-ICP2(v3186)      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    | .02146 | .04211 | .01373 | .01921 | .05588 | .09627 | .10713 |
| Stddev | .00271 | .00096 | .00119 | .00170 | .00113 | .01084 | .00045 |
| %RSD   | 12.624 | 2.2734 | 8.6426 | 8.8337 | 2.0293 | 11.265 | .42026 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .01918 | .04212 | .01502 | .02117 | .05471 | .10251 | .10759 |
| #2 | .02445 | .04116 | .01348 | .01829 | .05698 | .08375 | .10711 |
| #3 | .02073 | .04307 | .01269 | .01818 | .05595 | .10255 | .10669 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00659 | .00611 | 2.1522 | .01180 | .03000 | .02268 | .11915 |
| Stddev | .00006 | .00009 | .0167  | .00017 | .00021 | .00025 | .00098 |
| %RSD   | .93247 | 1.4143 | .77638 | 1.4328 | .68729 | 1.1060 | .82104 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00662 | .00604 | 2.1658 | .01184 | .03013 | .02245 | .11863 |
| #2 | .00652 | .00620 | 2.1572 | .01195 | .02976 | .02295 | .12028 |
| #3 | .00662 | .00607 | 2.1335 | .01162 | .03011 | .02263 | .11855 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02316 | 2.1186 | .04389 | .01050 | 2.0464 | .04173 | .04266 |
| Stddev | .00010 | .0464  | .00039 | .00065 | .0141  | .00030 | .00017 |
| %RSD   | .43083 | 2.1904 | .87997 | 6.2055 | .69048 | .71187 | .39880 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02326 | 2.1719 | .04430 | .01020 | 2.0338 | .04208 | .04253 |
| #2 | .02306 | 2.0873 | .04383 | .01005 | 2.0437 | .04158 | .04285 |
| #3 | .02315 | 2.0965 | .04354 | .01124 | 2.0617 | .04155 | .04261 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.9609 | .21923 | .11820 | .01722 | .46972 | .03993 | .03936 |
| Stddev | .0436  | .00048 | .01340 | .00666 | .00546 | .00077 | .00218 |
| %RSD   | 2.2241 | .21958 | 11.333 | 38.688 | 1.1631 | 1.9345 | 5.5465 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.9106 | .21903 | .10273 | .02089 | .47534 | .03967 | .04135 |
| #2 | 1.9841 | .21978 | .12577 | .02124 | .46443 | .04080 | .03970 |
| #3 | 1.9881 | .21888 | .12610 | .00953 | .46940 | .03932 | .03703 |

Sample Name: LLCCV01      Acquired: 6/7/2019 13:07:45      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .02119 | .0169  | .02268 | F 3.5525 | F<.00000 |
| Stddev | .00104 | .0024  | .00003 | .1192    | .42653   |
| %RSD   | 4.9227 | 14.04  | .11037 | 3.3554   | 34.436   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .02164 | .0184 | .02268 | 3.4479 | -.83919 |
| #2 | .02000 | .0180 | .02266 | 3.5272 | -1.1888 |
| #3 | .02193 | .0141 | .02271 | 3.6823 | -1.6879 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3931.3 | 51394. | 4676.6 | 64.089 | 3920.4 |
| Stddev    | 3.0    | 117.   | 46.7   | .647   | 1.8    |
| %RSD      | .07580 | .22780 | .99798 | 1.0098 | .04584 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3930.2 | 51260. | 4626.5 | 63.618 | 3921.9 |
| #2 | 3929.0 | 51479. | 4684.2 | 63.823 | 3921.0 |
| #3 | 3934.7 | 51443. | 4719.0 | 64.827 | 3918.4 |

Sample Name: CCB01      Acquired: 6/7/2019 13:12:13      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00342 | .00024 | -.00064 | -.00256 | .00161 | -.01488 | .00160 |
| Stddev | .00089  | .00085 | .00053  | .00145  | .00157 | .01686  | .00018 |
| %RSD   | 26.095  | 357.49 | 82.123  | 56.564  | 97.563 | 113.28  | 11.246 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00420 | -.00009 | -.00121 | -.00257 | -.00014 | -.00283 | .00177 |
| #2 | -.00244 | .00121  | -.00054 | -.00111 | .00206  | -.00766 | .00162 |
| #3 | -.00363 | -.00040 | -.00017 | -.00400 | .00290  | -.03414 | .00141 |

|        |        |         |        |         |         |        |         |
|--------|--------|---------|--------|---------|---------|--------|---------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00004 | -.00005 | .00028 | -.00063 | -.00023 | .00017 | -.00066 |
| Stddev | .00002 | .00001  | .00093 | .00030  | .00007  | .00038 | .00052  |
| %RSD   | 45.684 | 29.696  | 334.02 | 48.429  | 31.035  | 217.37 | 78.289  |

|    |        |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00004 | -.00005 | -.00021 | -.00090 | -.00027 | .00040  | -.00044 |
| #2 | .00002 | -.00003 | -.00030 | -.00068 | -.00027 | .00039  | -.00125 |
| #3 | .00007 | -.00005 | .00135  | -.00030 | -.00015 | -.00026 | -.00029 |

|        |        |        |         |        |         |         |         |
|--------|--------|--------|---------|--------|---------|---------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280 | Na5895  | V_2924  | Zn2138  |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00005 | .00377 | -.00006 | .00006 | -.08690 | -.00018 | -.00015 |
| Stddev | .00003 | .03803 | .00036  | .00036 | .00142  | .00035  | .00017  |
| %RSD   | 57.437 | 1009.5 | 631.77  | 576.70 | 1.6316  | 190.96  | 116.74  |

|    |        |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00002 | .04512  | -.00041 | -.00035 | -.08833 | .00019  | -.00008 |
| #2 | .00006 | -.02970 | -.00007 | .00034  | -.08688 | -.00022 | -.00034 |
| #3 | .00008 | -.00412 | .00031  | .00019  | -.08550 | -.00052 | -.00002 |

|        |         |        |        |         |         |         |         |
|--------|---------|--------|--------|---------|---------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.15283 | .00025 | .00157 | -.00194 | -.00049 | -.00180 | -.00157 |
| Stddev | .03543  | .00008 | .01354 | .00184  | .00336  | .00038  | .00211  |
| %RSD   | 23.184  | 33.610 | 864.27 | 94.885  | 684.25  | 21.381  | 134.05  |

|    |         |        |         |         |         |         |         |
|----|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.14236 | .00026 | -.01107 | -.00261 | .00189  | -.00144 | -.00336 |
| #2 | -.19232 | .00032 | -.00009 | .00014  | -.00434 | -.00221 | -.00212 |
| #3 | -.12381 | .00016 | .01586  | -.00334 | .00098  | -.00175 | .00076  |



Sample Name: CCB01      Acquired: 6/7/2019 13:12:13      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00401 | -.0021 | .00003 | F 3.4181 | F<.00000 |
| Stddev    | .00158  | .0008  | .00002 | .3261    | .46364   |
| %RSD      | 39.299  | 39.96  | 57.750 | 9.5416   | 106.40   |
| #1        | -.00286 | -.0021 | .00004 | 3.3245   | -.03475  |
| #2        | -.00581 | -.0013 | .00001 | 3.7808   | -.94344  |
| #3        | -.00337 | -.0030 | .00005 | 3.1489   | -.32906  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3932.2  | 51625. | 4631.4 | 64.960   | 3939.2   |
| Stddev    | 15.1    | 162.   | 6.0    | .871     | 10.4     |
| %RSD      | .38475  | .31400 | .12978 | 1.3415   | .26295   |
| #1        | 3924.4  | 51561. | 4631.8 | 65.716   | 3928.5   |
| #2        | 3949.6  | 51810. | 4625.2 | 64.007   | 3949.1   |
| #3        | 3922.4  | 51505. | 4637.2 | 65.157   | 3940.0   |

Sample Name: PB120431BL      Acquired: 6/7/2019 13:17:03      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00062 | -.00038 | -.00111 | -.00225 | .00042 | -.01857 | .00114 |
| Stddev | .00295  | .00060  | .00080  | .00315  | .00090 | .01877  | .00089 |
| %RSD   | 478.74  | 156.98  | 71.986  | 139.57  | 215.31 | 101.08  | 78.053 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00141 | .00019  | -.00079 | -.00516 | .00020  | -.03192 | .00151 |
| #2 | .00265  | -.00101 | -.00203 | .00109  | .00141  | -.02669 | .00013 |
| #3 | -.00308 | -.00033 | -.00052 | -.00269 | -.00035 | .00289  | .00179 |

|        |        |         |         |         |         |         |        |
|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00013 | -.00003 | -.00990 | -.00038 | -.00009 | -.00486 | .00021 |
| Stddev | .00005 | .00002  | .00070  | .00022  | .00017  | .00041  | .00052 |
| %RSD   | 38.329 | 59.774  | 7.0395  | 57.017  | 194.53  | 8.5136  | 252.57 |

|    |        |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00009 | -.00005 | -.01040 | -.00061 | .00006  | -.00439 | -.00031 |
| #2 | .00011 | -.00003 | -.01021 | -.00018 | -.00027 | -.00509 | .00020  |
| #3 | .00018 | -.00001 | -.00910 | -.00036 | -.00004 | -.00511 | .00073  |

|        |        |        |        |         |         |        |         |
|--------|--------|--------|--------|---------|---------|--------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895  | V_2924 | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00002 | .02216 | .00006 | -.00003 | -.10550 | .00095 | -.00022 |
| Stddev | .00003 | .01345 | .00008 | .00052  | .00932  | .00029 | .00005  |
| %RSD   | 151.93 | 60.703 | 137.67 | 1551.4  | 8.8324  | 30.537 | 24.528  |

|    |         |        |         |         |         |        |         |
|----|---------|--------|---------|---------|---------|--------|---------|
| #1 | .00005  | .00694 | -.00002 | -.00020 | -.10847 | .00100 | -.00022 |
| #2 | -.00000 | .02710 | .00014  | .00055  | -.11298 | .00064 | -.00016 |
| #3 | .00001  | .03245 | .00005  | -.00045 | -.09506 | .00122 | -.00027 |

|        |         |        |        |         |        |         |         |
|--------|---------|--------|--------|---------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820  | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     |
| Avg    | -.11048 | .00007 | .00769 | -.00172 | .00303 | -.00143 | -.00338 |
| Stddev | .04419  | .00043 | .01038 | .00157  | .00341 | .00073  | .00167  |
| %RSD   | 40.000  | 658.53 | 134.84 | 91.642  | 112.45 | 50.684  | 49.297  |

|    |         |         |         |         |        |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|
| #1 | -.06506 | .00050  | .00604  | -.00261 | .00095 | -.00105 | -.00355 |
| #2 | -.11306 | .00006  | -.00176 | .00010  | .00696 | -.00098 | -.00496 |
| #3 | -.15333 | -.00037 | .01880  | -.00264 | .00118 | -.00227 | -.00164 |

Sample Name: PB120431BL      Acquired: 6/7/2019 13:17:03      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00319 | -.0037 | .00005 | F 3.3600 | F<.00000 |
| Stddev | .00037  | .0005  | .00007 | .1182    | .68899   |
| %RSD   | 11.459  | 14.67  | 147.90 | 3.5182   | 50.958   |

|    |         |        |         |        |         |
|----|---------|--------|---------|--------|---------|
| #1 | -.00335 | -.0043 | .00013  | 3.2559 | -1.2393 |
| #2 | -.00277 | -.0032 | .00003  | 3.3355 | -.72643 |
| #3 | -.00345 | -.0036 | -.00001 | 3.4885 | -2.0905 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3914.3 | 51647. | 4662.0 | 63.477 | 3922.7 |
| Stddev    | 10.8   | 180.   | 23.0   | .963   | 4.9    |
| %RSD      | .27539 | .34933 | .49399 | 1.5173 | .12532 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3910.6 | 51468. | 4652.7 | 62.830 | 3917.4 |
| #2 | 3905.8 | 51642. | 4645.1 | 63.018 | 3923.5 |
| #3 | 3926.4 | 51829. | 4688.2 | 64.584 | 3927.1 |

Sample Name: PB120431BS      Acquired: 6/7/2019 13:21:32      Type: Unk  
Method: P4-ICP2(v3186)      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    | .81639   | 2.1370 | 1.0490 | 2.0845 | .85323 | 2.1073  | .21221   | .20795 |
| Stddev | .00798   | .0032  | .0037  | .0158  | .00107 | .0339   | .00142   | .00091 |
| %RSD   | .97743   | .14751 | .35076 | .75914 | .12494 | 1.6095  | .66870   | .43554 |
| #1     | .80992   | 2.1339 | 1.0454 | 2.0951 | .85209 | 2.0855  | .21085   | .20747 |
| #2     | .81395   | 2.1402 | 1.0527 | 2.0663 | .85338 | 2.0899  | .21208   | .20738 |
| #3     | .82531   | 2.1370 | 1.0490 | 2.0921 | .85421 | 2.1464  | .21368   | .20899 |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576   | Mg2790 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | .20424   | .98385 | .44136 | .21456 | .33288 | 3.3527  | .22552   | 2.1072 |
| Stddev | .00067   | .00187 | .00186 | .00007 | .00088 | .0101   | .00128   | .0572  |
| %RSD   | .32710   | .19049 | .42231 | .03144 | .26297 | .30011  | .56685   | 2.7144 |
| #1     | .20348   | .98597 | .44104 | .21448 | .33295 | 3.3484  | .22664   | 2.0861 |
| #2     | .20473   | .98316 | .43968 | .21461 | .33197 | 3.3456  | .22413   | 2.0635 |
| #3     | .20451   | .98242 | .44337 | .21458 | .33371 | 3.3642  | .22579   | 2.1719 |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020   | B_2496 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | .53740   | .07570 | 3.1320 | .33193 | .20729 | 10.431  | .44565   | .32424 |
| Stddev | .00235   | .00033 | .0280  | .00053 | .00103 | .077    | .00106   | .02069 |
| %RSD   | .43706   | .43436 | .89260 | .15906 | .49628 | .73913  | .23819   | 6.3800 |
| #1     | .53511   | .07561 | 3.1154 | .33172 | .20612 | 10.345  | .44501   | .30998 |
| #2     | .53980   | .07542 | 3.1163 | .33253 | .20807 | 10.454  | .44506   | .34797 |
| #3     | .53729   | .07606 | 3.1643 | .33153 | .20768 | 10.494  | .44688   | .31478 |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077   | U_3670 |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    |
| Avg    | F .32201 | .98503 | .72757 | .21761 | .22328 | F 5.985 | F .22546 | 4.2281 |
| Stddev | .02342   | .00314 | .00219 | .00343 | .00037 | .017    | .00158   | .2155  |
| %RSD   | 7.2720   | .31918 | .30134 | 1.5757 | .16708 | .2798   | .70288   | 5.0956 |
| #1     | .34470   | .98141 | .72507 | .21366 | .22309 | 5.967   | .22376   | 4.0421 |
| #2     | .32339   | .98707 | .72845 | .21948 | .22371 | 5.999   | .22690   | 4.4642 |
| #3     | .29793   | .98661 | .72918 | .21970 | .22303 | 5.991   | .22571   | 4.1780 |

Sample Name: PB120431BS      Acquired: 6/7/2019 13:21:32      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      3.5590  
Stddev      .4969  
%RSD      13.962

#1      3.1626  
#2      3.3980  
#3      4.1165

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3805.6 | 50262. | 4478.1 | 60.171 | 3765.3 |
| Stddev    | 16.1   | 88.    | 24.9   | .499   | 13.3   |
| %RSD      | .42349 | .17462 | .55546 | .82867 | .35191 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3787.0 | 50252. | 4470.8 | 59.595 | 3754.7 |
| #2 | 3814.7 | 50354. | 4457.7 | 60.459 | 3761.1 |
| #3 | 3815.2 | 50179. | 4505.8 | 60.459 | 3780.2 |

Sample Name: PB120401BL      Acquired: 6/7/2019 13:25:40      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00116 | -.00088 | -.00177 | -.00219 | -.00035 | -.01162 | .00107 |
| Stddev | .00214  | .00155  | .00045  | .00327  | .00118  | .01408  | .00058 |
| %RSD   | 184.84  | 175.60  | 25.485  | 149.12  | 333.49  | 121.14  | 54.740 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00180 | -.00230 | -.00228 | -.00147 | -.00091 | -.02656 | .00046 |
| #2 | .00123  | -.00113 | -.00141 | -.00576 | -.00116 | .00140  | .00163 |
| #3 | -.00290 | .00078  | -.00163 | .00065  | .00100  | -.00971 | .00111 |

|        |        |        |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00005 | .00001 | -.01094 | -.00045 | -.00016 | -.00476 | .00065 |
| Stddev | .00002 | .00004 | .00153  | .00009  | .00020  | .00015  | .00061 |
| %RSD   | 52.717 | 584.88 | 13.964  | 19.681  | 128.43  | 3.2407  | 94.364 |

|    |        |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00003 | .00004  | -.01080 | -.00038 | -.00007 | -.00488 | -.00004 |
| #2 | .00004 | -.00004 | -.01253 | -.00041 | -.00001 | -.00481 | .00087  |
| #3 | .00007 | .00002  | -.00949 | -.00055 | -.00039 | -.00459 | .00112  |

|        |        |        |        |         |         |        |         |
|--------|--------|--------|--------|---------|---------|--------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895  | V_2924 | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00003 | .00609 | .00018 | -.00010 | -.09797 | .00073 | -.00023 |
| Stddev | .00003 | .03122 | .00040 | .00020  | .00848  | .00055 | .00007  |
| %RSD   | 83.593 | 512.33 | 221.95 | 212.78  | 8.6580  | 75.575 | 28.429  |

|    |        |         |         |         |         |        |         |
|----|--------|---------|---------|---------|---------|--------|---------|
| #1 | .00005 | -.01664 | .00044  | -.00029 | -.08831 | .00033 | -.00024 |
| #2 | .00005 | .04169  | -.00028 | -.00010 | -.10141 | .00049 | -.00029 |
| #3 | .00000 | -.00677 | .00038  | .00011  | -.10420 | .00135 | -.00016 |

|        |         |         |        |        |        |         |         |
|--------|---------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664  | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.15834 | -.00024 | .00399 | .00093 | .00324 | -.00139 | -.00251 |
| Stddev | .03997  | .00015  | .01568 | .00327 | .00151 | .00061  | .00056  |
| %RSD   | 25.244  | 61.882  | 393.48 | 350.31 | 46.507 | 43.873  | 22.328  |

|    |         |         |         |         |        |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|
| #1 | -.11914 | -.00012 | -.01155 | .00404  | .00200 | -.00198 | -.00186 |
| #2 | -.15682 | -.00019 | .00369  | .00124  | .00491 | -.00143 | -.00282 |
| #3 | -.19904 | -.00041 | .01982  | -.00248 | .00280 | -.00076 | -.00284 |

Sample Name: PB120401BL      Acquired: 6/7/2019 13:25:40      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00554 | -.0022 | .00006 | F 3.1882 | F<.00000 |
| Stddev    | .00322  | .0016  | .00002 | .0345    | .70463   |
| %RSD      | 58.168  | 71.72  | 27.621 | 1.0807   | 38.707   |
| #1        | -.00926 | -.0006 | .00008 | 3.1630   | -1.2552  |
| #2        | -.00373 | -.0021 | .00005 | 3.2275   | -1.5961  |
| #3        | -.00363 | -.0038 | .00004 | 3.1742   | -2.6099  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3941.6  | 51808. | 4638.5 | 63.896   | 3952.1   |
| Stddev    | 14.5    | 151.   | 45.2   | 1.360    | 6.7      |
| %RSD      | .36900  | .29189 | .97353 | 2.1279   | .16911   |
| #1        | 3933.8  | 51691. | 4586.7 | 63.136   | 3947.8   |
| #2        | 3932.7  | 51979. | 4669.6 | 63.086   | 3948.7   |
| #3        | 3958.4  | 51753. | 4659.2 | 65.466   | 3959.8   |

Sample Name: PB120401BS      Acquired: 6/7/2019 13:30:09      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .80953 | 2.1150 | 1.0328 | 2.0975    | .85034 | 2.0801 | .21020 |
| Stddev | .00370 | .0012  | .0041  | .0041     | .00180 | .0242  | .00085 |
| %RSD   | .45725 | .05594 | .39778 | .19576    | .21193 | 1.1623 | .40219 |
| #1     | .81380 | 2.1153 | 1.0327 | 2.1003    | .85112 | 2.0522 | .20952 |
| #2     | .80728 | 2.1137 | 1.0287 | 2.0994    | .84828 | 2.0944 | .21115 |
| #3     | .80750 | 2.1161 | 1.0369 | 2.0928    | .85162 | 2.0937 | .20994 |
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677    | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | .21093 | .20296 | .96146 | .42944    | .20942 | .32891 | 3.2879 |
| Stddev | .00034 | .00032 | .00341 | .00050    | .00055 | .00028 | .0047  |
| %RSD   | .16347 | .15882 | .35442 | .11700    | .26223 | .08502 | .14181 |
| #1     | .21118 | .20260 | .96145 | .43002    | .20976 | .32886 | 3.2902 |
| #2     | .21054 | .20304 | .95805 | .42923    | .20971 | .32867 | 3.2825 |
| #3     | .21107 | .20323 | .96487 | .42908    | .20878 | .32922 | 3.2909 |
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280    | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | .22050 | 2.1235 | .52662 | .07673    | 3.0768 | .32098 | .20761 |
| Stddev | .00110 | .0042  | .00118 | .00049    | .0340  | .00060 | .00044 |
| %RSD   | .49882 | .19927 | .22422 | .63412    | 1.1068 | .18679 | .21043 |
| #1     | .22156 | 2.1283 | .52564 | .07724    | 3.0501 | .32086 | .20728 |
| #2     | .22058 | 2.1215 | .52629 | .07627    | 3.1152 | .32045 | .20746 |
| #3     | .21937 | 2.1205 | .52793 | .07668    | 3.0652 | .32163 | .20811 |
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.225 | .43775 | .31496 | F -.00447 | .97876 | .72373 | .21676 |
| Stddev | .051   | .00086 | .01270 | .00174    | .00748 | .00043 | .00060 |
| %RSD   | .49636 | .19560 | 4.0317 | 38.909    | .76430 | .05974 | .27639 |
| #1     | 10.200 | .43757 | .31673 | -.00262   | .98724 | .72385 | .21708 |
| #2     | 10.283 | .43868 | .30147 | -.00608   | .97592 | .72408 | .21607 |
| #3     | 10.192 | .43700 | .32668 | -.00471   | .97311 | .72324 | .21713 |



Sample Name: PB120401BS      Acquired: 6/7/2019 13:30:09      Type: Unk  
 Method: P4-ICP2(v3186)      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       | .21889 | F 5.969 | F .22165 | 3.4321 | 3.9034 |
| Stddev    | .00306 | .012    | .00041   | .0732  | .9236  |
| %RSD      | 1.3987 | .1964   | .18449   | 2.1335 | 23.662 |
| #1        | .22072 | 5.968   | .22118   | 3.5072 | 4.9508 |
| #2        | .22058 | 5.957   | .22192   | 3.3609 | 3.2056 |
| #3        | .21535 | 5.981   | .22185   | 3.4284 | 3.5538 |
| Int. Std. | Y_2243 | Y_3600  | Y_3710   | In2306 | In2306 |
| Units     | Cts/S  | Cts/S   | Cts/S    | Cts/S  | Cts/S  |
| Avg       | 3909.3 | 51474.  | 4612.5   | 62.108 | 3860.8 |
| Stddev    | 6.3    | 115.    | 15.4     | .658   | 6.2    |
| %RSD      | .16016 | .22288  | .33404   | 1.0592 | .16040 |
| #1        | 3904.7 | 51358.  | 4599.8   | 62.423 | 3857.4 |
| #2        | 3916.4 | 51475.  | 4629.6   | 62.550 | 3868.0 |
| #3        | 3906.8 | 51588.  | 4608.1   | 61.352 | 3857.1 |

Sample Name: K2638-03      Acquired: 6/7/2019 13:34:14      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .00100 | -.00014 | .03860 | -.00131 | .00230 | .04163 | .05946 |
| Stddev | .00178 | .00093  | .00086 | .00232  | .00189 | .01032 | .00053 |
| %RSD   | 177.84 | 680.10  | 2.2380 | 176.60  | 81.958 | 24.800 | .89961 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | -.00105 | -.00121 | .03856 | .00088  | .00311 | .04641 | .05976 |
| #2 | .00195  | .00035  | .03949 | -.00108 | .00015 | .02978 | .05884 |
| #3 | .00210  | .00045  | .03776 | -.00374 | .00366 | .04869 | .05978 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00013 | .00024 | 4.9045 | -.00058 | .00249 | .00294 | .07085 |
| Stddev | .00004 | .00002 | .0377  | .00031  | .00017 | .00021 | .00146 |
| %RSD   | 33.259 | 8.9199 | .76877 | 52.626  | 6.8809 | 6.9923 | 2.0539 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00013 | .00022 | 4.9136 | -.00092 | .00230 | .00315 | .07204 |
| #2 | .00018 | .00026 | 4.8631 | -.00051 | .00264 | .00274 | .06923 |
| #3 | .00009 | .00023 | 4.9369 | -.00032 | .00253 | .00292 | .07129 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .36591 | .35592 | .00185 | -.00006 | 174.80 | -.00019 | .04259 |
| Stddev | .00100 | .02349 | .00047 | .00071  | .39    | .00045  | .00022 |
| %RSD   | .27297 | 6.5985 | 25.593 | 1171.2  | .22154 | 230.89  | .52106 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .36704 | .35912 | .00222 | -.00072 | 174.44 | -.00012 | .04280 |
| #2 | .36553 | .37764 | .00201 | -.00016 | 175.21 | -.00067 | .04236 |
| #3 | .36515 | .33099 | .00132 | .00070  | 174.74 | .00021  | .04262 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .43216 | -.00017 | .00860 | .13148 | .25905 | -.00078 | -.00239 |
| Stddev | .02515 | .00032  | .01840 | .00181 | .00163 | .00077  | .00105  |
| %RSD   | 5.8206 | 181.64  | 213.87 | 1.3795 | .63070 | 98.624  | 43.822  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .45666 | -.00047 | .02179  | .13169 | .26094 | -.00098 | -.00257 |
| #2 | .40640 | -.00022 | -.01241 | .12957 | .25804 | .00007  | -.00333 |
| #3 | .43341 | .00016  | .01642  | .13318 | .25818 | -.00143 | -.00126 |

Sample Name: K2638-03      Acquired: 6/7/2019 13:34:14      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00269 | -.0015 | .03272 | 4.8789 | F<.00000 |
| Stddev    | .00072  | .0014  | .00030 | .2488  | .20665   |
| %RSD      | 26.711  | 90.85  | .91519 | 5.1001 | 4.1039   |
| #1        | -.00204 | .0000  | .03280 | 5.0646 | -4.8690  |
| #2        | -.00257 | -.0027 | .03239 | 4.9758 | -5.2668  |
| #3        | -.00346 | -.0019 | .03297 | 4.5962 | -4.9708  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3758.4  | 48507. | 4647.6 | 61.819 | 3539.4   |
| Stddev    | 10.4    | 20.    | 34.8   | .820   | 2.8      |
| %RSD      | .27707  | .04025 | .74912 | 1.3256 | .07808   |
| #1        | 3747.5  | 48515. | 4643.0 | 61.371 | 3536.4   |
| #2        | 3759.5  | 48521. | 4684.4 | 61.321 | 3541.8   |
| #3        | 3768.3  | 48484. | 4615.3 | 62.765 | 3540.2   |

Sample Name: K2638-03DUP      Acquired: 6/7/2019 13:38:39      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00035 | -.00081 | .03861 | -.00113 | .00082 | .05659 | .05956 |
| Stddev | .00121  | .00172  | .00029 | .00076  | .00250 | .00859 | .00044 |
| %RSD   | 347.25  | 212.41  | .74431 | 67.350  | 304.76 | 15.178 | .74582 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00124 | -.00104 | .03880 | -.00143 | -.00070 | .05873 | .05918 |
| #2 | -.00085 | -.00240 | .03875 | -.00171 | -.00055 | .06390 | .06005 |
| #3 | .00103  | .00101  | .03827 | -.00027 | .00370  | .04713 | .05946 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00012 | .00025 | 4.8801 | -.00017 | .00240 | .00283 | .06929 |
| Stddev | .00004 | .00005 | .0070  | .00045  | .00019 | .00050 | .00023 |
| %RSD   | 29.283 | 21.785 | .14331 | 263.48  | 7.8694 | 17.517 | .32821 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00008 | .00019 | 4.8749 | -.00033 | .00262 | .00245 | .06939 |
| #2 | .00014 | .00029 | 4.8881 | .00034  | .00226 | .00264 | .06945 |
| #3 | .00014 | .00027 | 4.8774 | -.00051 | .00232 | .00339 | .06903 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .36388 | .37940 | .00180 | -.00080 | 173.01 | -.00049 | .04018 |
| Stddev | .00126 | .00990 | .00039 | .00009  | .73    | .00031  | .00020 |
| %RSD   | .34562 | 2.6085 | 21.364 | 10.869  | .42290 | 62.865  | .48664 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .36459 | .37090 | .00142 | -.00088 | 172.59 | -.00051 | .04040 |
| #2 | .36242 | .39027 | .00180 | -.00070 | 173.85 | -.00017 | .04010 |
| #3 | .36461 | .37704 | .00219 | -.00082 | 172.58 | -.00079 | .04003 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .55084 | -.00025 | .00692 | .10343 | .25437 | -.00092 | -.00294 |
| Stddev | .03510 | .00044  | .01070 | .00323 | .00088 | .00077  | .00034  |
| %RSD   | 6.3718 | 180.88  | 154.58 | 3.1219 | .34555 | 84.287  | 11.572  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .51034 | -.00066 | .00686  | .10702 | .25525 | -.00017 | -.00304 |
| #2 | .56979 | .00022  | -.00375 | .10076 | .25436 | -.00086 | -.00322 |
| #3 | .57239 | -.00030 | .01766  | .10252 | .25349 | -.00172 | -.00256 |

Sample Name: K2638-03DUP      Acquired: 6/7/2019 13:38:39      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00002 | -.0013 | .03254 | 5.0152 | F<.00000 |
| Stddev    | .00203  | .0015  | .00052 | .1805  | .88703   |
| %RSD      | 8869.4  | 113.3  | 1.6079 | 3.5982 | 15.201   |
| #1        | -.00078 | .0004  | .03199 | 5.1804 | -5.0511  |
| #2        | -.00157 | -.0019 | .03304 | 4.8226 | -6.7980  |
| #3        | .00228  | -.0024 | .03257 | 5.0425 | -5.6565  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3754.0  | 48529. | 4648.2 | 61.546 | 3535.1   |
| Stddev    | 1.4     | 137.   | 17.1   | 1.640  | 4.5      |
| %RSD      | .03662  | .28235 | .36696 | 2.6646 | .12764   |
| #1        | 3752.6  | 48492. | 4656.0 | 61.803 | 3530.0   |
| #2        | 3755.3  | 48413. | 4628.6 | 59.793 | 3538.4   |
| #3        | 3754.1  | 48680. | 4659.9 | 63.043 | 3536.9   |

Sample Name: PB120406BL      Acquired: 6/7/2019 13:44:16      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00349 | -.00104 | -.00116 | -.00285 | .00022 | -.01397 | .00086 |
| Stddev | .00048 | .00041  | .00070  | .00167  | .00086 | .01003  | .00043 |
| %RSD   | 13.668 | 39.840  | 60.147  | 58.773  | 381.55 | 71.822  | 49.253 |

|    |        |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00376 | -.00152 | -.00123 | -.00477 | .00006  | -.02552 | .00098 |
| #2 | .00377 | -.00082 | -.00043 | -.00175 | .00115  | -.00741 | .00039 |
| #3 | .00294 | -.00078 | -.00181 | -.00201 | -.00054 | -.00898 | .00122 |

|        |        |        |         |         |        |        |         |
|--------|--------|--------|---------|---------|--------|--------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247 | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00005 | .00002 | -.00738 | -.00050 | .00002 | .00042 | -.00013 |
| Stddev | .00005 | .00004 | .00041  | .00003  | .00022 | .00058 | .00030  |
| %RSD   | 94.709 | 180.92 | 5.5065  | 6.0002  | 1029.4 | 139.15 | 222.60  |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00008  | .00000  | -.00691 | -.00048 | .00009  | -.00007 | .00013  |
| #2 | .00007  | -.00001 | -.00760 | -.00048 | -.00023 | .00026  | -.00008 |
| #3 | -.00000 | .00006  | -.00763 | -.00053 | .00020  | .00107  | -.00045 |

|        |         |        |        |         |         |         |         |
|--------|---------|--------|--------|---------|---------|---------|---------|
| Elem   | Mn2576  | Mg2790 | Ni2316 | Ag3280  | Na5895  | V_2924  | Zn2138  |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00001 | .01949 | .00035 | -.00036 | -.03960 | -.00008 | -.00029 |
| Stddev | .00006  | .04256 | .00039 | .00037  | .00739  | .00043  | .00009  |
| %RSD   | 495.06  | 218.37 | 112.92 | 103.09  | 18.662  | 510.18  | 29.735  |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.00007 | -.01136 | .00001 | -.00011 | -.03118 | .00020  | -.00038 |
| #2 | .00001  | .06804  | .00025 | -.00018 | -.04500 | -.00058 | -.00022 |
| #3 | .00003  | .00179  | .00078 | -.00079 | -.04261 | .00013  | -.00026 |

|        |         |         |        |         |         |         |         |
|--------|---------|---------|--------|---------|---------|---------|---------|
| Elem   | K_7664  | Mo2020  | B_2496 | S_1820  | Si2881  | Sn1899  | Ti3361  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.14203 | -.00008 | .00423 | -.00038 | -.00129 | -.00184 | -.00068 |
| Stddev | .03446  | .00020  | .00501 | .00444  | .00190  | .00028  | .00206  |
| %RSD   | 24.262  | 254.04  | 118.47 | 1174.7  | 147.59  | 15.480  | 302.59  |

|    |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.18120 | .00006  | -.00090 | .00346  | -.00247 | -.00169 | -.00079 |
| #2 | -.12850 | .00002  | .00448  | -.00524 | .00090  | -.00216 | .00144  |
| #3 | -.11639 | -.00031 | .00910  | .00064  | -.00229 | -.00165 | -.00269 |

Sample Name: PB120406BL      Acquired: 6/7/2019 13:44:16      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00212 | -.0027 | .00004  | F 3.7383 | F<.00000 |
| Stddev    | .00186  | .0010  | .00012  | .1727    | .47796   |
| %RSD      | 88.024  | 37.87  | 286.24  | 4.6207   | 49.372   |
| #1        | -.00346 | -.0032 | .00012  | 3.8981   | -1.2478  |
| #2        | -.00291 | -.0033 | .00010  | 3.7617   | -.41620  |
| #3        | .00001  | -.0015 | -.00010 | 3.5550   | -1.2402  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710  | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S   | Cts/S    | Cts/S    |
| Avg       | 3901.6  | 51453. | 4658.7  | 64.490   | 3919.7   |
| Stddev    | 5.4     | 156.   | 31.3    | .809     | 3.2      |
| %RSD      | .13936  | .30392 | .67148  | 1.2538   | .08065   |
| #1        | 3902.0  | 51374. | 4626.9  | 65.382   | 3917.6   |
| #2        | 3896.0  | 51633. | 4659.6  | 64.284   | 3918.3   |
| #3        | 3906.8  | 51352. | 4689.4  | 63.805   | 3923.4   |

Sample Name: PB120406BS      Acquired: 6/7/2019 13:48:42      Type: Unk  
Method: P4-ICP2(v3186)      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    | .82228   | 2.1457 | 1.0505 | 2.1145 | .86034 | 2.1430 | .21717 | .21295   |
| Stddev | .00631   | .0070  | .0088  | .0062  | .00492 | .0225  | .00190 | .00015   |
| %RSD   | .76706   | .32591 | .83360 | .29529 | .57159 | 1.0486 | .87502 | .07188   |
| #1     | .81948   | 2.1393 | 1.0408 | 2.1075 | .85705 | 2.1253 | .21591 | .21278   |
| #2     | .82951   | 2.1532 | 1.0579 | 2.1166 | .86599 | 2.1353 | .21625 | .21306   |
| #3     | .81787   | 2.1446 | 1.0526 | 2.1194 | .85797 | 2.1683 | .21936 | .21302   |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .20586   | 1.0087 | .44289 | .21405 | .34634 | 3.3745 | .22558 | 2.1059   |
| Stddev | .00098   | .0058  | .00156 | .00102 | .00188 | .0093  | .00057 | .0755    |
| %RSD   | .47388   | .57323 | .35322 | .47610 | .54403 | .27622 | .25170 | 3.5853   |
| #1     | .20541   | 1.0081 | .44111 | .21415 | .34502 | 3.3650 | .22593 | 2.0345   |
| #2     | .20698   | 1.0147 | .44403 | .21501 | .34850 | 3.3836 | .22589 | 2.1849   |
| #3     | .20520   | 1.0032 | .44353 | .21298 | .34550 | 3.3750 | .22492 | 2.0984   |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .53603   | .07766 | 3.2291 | .33364 | .21020 | 10.695 | .44560 | .31428   |
| Stddev | .00167   | .00054 | .0412  | .00118 | .00110 | .092   | .00212 | .00602   |
| %RSD   | .31193   | .69059 | 1.2755 | .35460 | .52455 | .85564 | .47518 | 1.9168   |
| #1     | .53555   | .07710 | 3.1991 | .33439 | .20969 | 10.605 | .44325 | .30791   |
| #2     | .53789   | .07817 | 3.2122 | .33425 | .21147 | 10.691 | .44735 | .31989   |
| #3     | .53465   | .07772 | 3.2761 | .33228 | .20945 | 10.788 | .44621 | .31504   |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | F .13787 | .97902 | .73308 | .21917 | .22406 | 6.069  | .22600 | F 4.0994 |
| Stddev | .00253   | .01198 | .00222 | .00084 | .00160 | .024   | .00078 | .2846    |
| %RSD   | 1.8349   | 1.2232 | .30321 | .38477 | .71342 | .3965  | .34607 | 6.9420   |
| #1     | .14070   | .98015 | .73275 | .21859 | .22232 | 6.062  | .22517 | 4.4170   |
| #2     | .13707   | .99040 | .73545 | .22014 | .22440 | 6.096  | .22611 | 4.0138   |
| #3     | .13583   | .96653 | .73104 | .21878 | .22546 | 6.050  | .22672 | 3.8675   |



Sample Name: PB120406BS      Acquired: 6/7/2019 13:48:42      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 3.2864  
Stddev      .6934  
%RSD      21.098

#1      2.4864  
#2      3.6587  
#3      3.7141

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3812.9 | 49984. | 4549.4 | 60.691 | 3767.9 |
| Stddev    | 5.6    | 47.    | 36.9   | 1.761  | 9.6    |
| %RSD      | .14797 | .09423 | .81149 | 2.9010 | .25417 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3815.7 | 49977. | 4543.8 | 59.186 | 3763.6 |
| #2 | 3806.4 | 49941. | 4515.6 | 60.259 | 3761.3 |
| #3 | 3816.5 | 50034. | 4588.8 | 62.627 | 3778.9 |

Sample Name: K2638-03LX5      Acquired: 6/7/2019 13:52:48      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00006 | -.00030 | .00735 | -.00280 | -.00119 | -.00022 | .01236 |
| Stddev | .00090 | .00049  | .00071 | .00204  | .00168  | .00891  | .00076 |
| %RSD   | 1442.6 | 164.39  | 9.6643 | 72.772  | 140.82  | 4085.5  | 6.1237 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | .00067  | -.00064 | .00722 | -.00061 | .00054  | .00867  | .01173 |
| #2 | .00049  | -.00052 | .00812 | -.00315 | -.00130 | -.00017 | .01320 |
| #3 | -.00097 | .00026  | .00672 | -.00465 | -.00281 | -.00915 | .01215 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00011 | -.00002 | .64763 | -.00025 | .00056 | .00182 | .01399 |
| Stddev | .00006 | .00008  | .00800 | .00036  | .00011 | .00055 | .00037 |
| %RSD   | 55.395 | 308.98  | 1.2355 | 142.73  | 19.332 | 30.185 | 2.6095 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00017 | -.00009 | .64702 | -.00067 | .00046 | .00138 | .01441 |
| #2 | .00005 | .00006  | .63996 | -.00006 | .00068 | .00165 | .01376 |
| #3 | .00011 | -.00004 | .65592 | -.00003 | .00055 | .00244 | .01380 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .07345 | .06648 | .00049 | -.00051 | 32.978 | -.00010 | .00756 |
| Stddev | .00091 | .08018 | .00042 | .00043  | .263   | .00019  | .00004 |
| %RSD   | 1.2433 | 120.60 | 86.354 | 83.393  | .79775 | 192.49  | .52484 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .07251 | .08721  | .00013 | -.00012 | 32.677 | .00008  | .00761 |
| #2 | .07352 | .13426  | .00038 | -.00045 | 33.093 | -.00029 | .00754 |
| #3 | .07433 | -.02202 | .00095 | -.00096 | 33.163 | -.00008 | .00754 |

|        |         |         |         |        |        |         |         |
|--------|---------|---------|---------|--------|--------|---------|---------|
| Elem   | K_7664  | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.02072 | -.00003 | -.00051 | .01953 | .05277 | -.00155 | -.00135 |
| Stddev | .03384  | .00014  | .00560  | .00315 | .00147 | .00046  | .00080  |
| %RSD   | 163.36  | 568.20  | 1092.5  | 16.132 | 2.7913 | 30.001  | 59.361  |

|    |         |         |         |        |        |         |         |
|----|---------|---------|---------|--------|--------|---------|---------|
| #1 | -.05027 | -.00012 | -.00540 | .02232 | .05327 | -.00108 | -.00226 |
| #2 | -.02809 | -.00010 | -.00173 | .01611 | .05394 | -.00156 | -.00103 |
| #3 | .01621  | .00014  | .00560  | .02017 | .05112 | -.00201 | -.00076 |

Sample Name: K2638-03LX5      Acquired: 6/7/2019 13:52:48      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00434 | -.0032 | .00642 | 3.7378 | F<.00000 |
| Stddev    | .00168  | .0019  | .00010 | .2374  | .50800   |
| %RSD      | 38.700  | 58.61  | 1.5761 | 6.3528 | 17.987   |
| #1        | -.00626 | -.0016 | .00638 | 3.8870 | -2.2377  |
| #2        | -.00366 | -.0053 | .00634 | 3.8624 | -3.1108  |
| #3        | -.00311 | -.0027 | .00653 | 3.4639 | -3.1242  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3859.1  | 49931. | 4604.6 | 62.974 | 3770.8   |
| Stddev    | 14.8    | 76.    | 15.5   | 2.428  | 8.5      |
| %RSD      | .38236  | .15147 | .33744 | 3.8558 | .22522   |
| #1        | 3843.9  | 50017. | 4604.5 | 60.795 | 3764.2   |
| #2        | 3860.2  | 49901. | 4620.2 | 65.592 | 3767.9   |
| #3        | 3873.3  | 49875. | 4589.1 | 62.536 | 3780.4   |

Sample Name: K2638-03MS      Acquired: 6/7/2019 13:57:14      Type: Unk  
Method: P4-ICP2(v3186)      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    | .82775 | 2.0430 | 1.0608 | 2.1452 | .84218 | 2.1562 | .27374 | .21271 |
| Stddev | .00088 | .0064  | .0030  | .0041  | .00108 | .0175  | .00309 | .00047 |
| %RSD   | .10648 | .31152 | .28594 | .19264 | .12788 | .81011 | 1.1288 | .22105 |
| #1     | .82814 | 2.0386 | 1.0575 | 2.1417 | .84093 | 2.1383 | .27079 | .21306 |
| #2     | .82674 | 2.0503 | 1.0635 | 2.1497 | .84286 | 2.1572 | .27349 | .21218 |
| #3     | .82838 | 2.0401 | 1.0613 | 2.1442 | .84274 | 2.1732 | .27695 | .21290 |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20752 | 4.1831 | .41806 | .21258 | .33360 | 3.2593 | .58264 | 2.4390 |
| Stddev | .00045 | .0228  | .00217 | .00040 | .00055 | .0076  | .00108 | .0586  |
| %RSD   | .21800 | .54499 | .52016 | .19035 | .16388 | .23353 | .18455 | 2.4035 |
| #1     | .20701 | 4.2062 | .41999 | .21213 | .33313 | 3.2654 | .58345 | 2.4116 |
| #2     | .20788 | 4.1826 | .41570 | .21271 | .33420 | 3.2507 | .58142 | 2.3990 |
| #3     | .20767 | 4.1606 | .41849 | .21291 | .33347 | 3.2617 | .58305 | 2.5063 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52898 | .07487 | 178.70 | .32240 | .25575 | 11.298 | .43296 | .31920 |
| Stddev | .00034 | .00055 | .47    | .00097 | .00016 | .138   | .00105 | .01603 |
| %RSD   | .06427 | .73989 | .26088 | .30231 | .06193 | 1.2228 | .24165 | 5.0215 |
| #1     | .52860 | .07502 | 178.61 | .32158 | .25571 | 11.197 | .43387 | .30754 |
| #2     | .52911 | .07532 | 178.28 | .32348 | .25592 | 11.243 | .43320 | .33748 |
| #3     | .52924 | .07425 | 179.20 | .32214 | .25561 | 11.456 | .43182 | .31259 |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .11016 | 1.1822 | .73580 | .20949 | .21225 | 6.526  | .24584 | 5.1259 |
| Stddev | .00375 | .0084  | .00138 | .00064 | .00203 | .016   | .00136 | .1473  |
| %RSD   | 3.4029 | .70721 | .18792 | .30342 | .95740 | .2508  | .55268 | 2.8737 |
| #1     | .10604 | 1.1918 | .73453 | .20937 | .21018 | 6.508  | .24480 | 4.9562 |
| #2     | .11108 | 1.1784 | .73728 | .21018 | .21233 | 6.532  | .24534 | 5.2010 |
| #3     | .11336 | 1.1764 | .73560 | .20892 | .21424 | 6.539  | .24737 | 5.2205 |

Sample Name: K2638-03MS      Acquired: 6/7/2019 13:57:14      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | .41860  |
| %RSD   | 85.380  |

|    |         |
|----|---------|
| #1 | -.03079 |
| #2 | -.59010 |
| #3 | -.84995 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3766.9 | 48562. | 4616.5 | 63.111 | 3523.8 |
| Stddev    | 15.2   | 176.   | 39.8   | 2.568  | 9.0    |
| %RSD      | .40274 | .36198 | .86251 | 4.0690 | .25502 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3754.4 | 48369. | 4576.2 | 61.362 | 3514.8 |
| #2 | 3762.5 | 48713. | 4617.7 | 61.911 | 3523.8 |
| #3 | 3783.7 | 48604. | 4655.8 | 66.059 | 3532.8 |

Sample Name: CCV02      Acquired: 6/7/2019 14:01:20      Type: Unk  
 Method: P4-ICP2(v3186)      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    | 5.0196 | 5.0542 | 4.9844 | 5.0511 | 5.0826 | 10.271 | 10.125 | .25444   |
| Stddev | .0097  | .0055  | .0109  | .0055  | .0140  | .098   | .091   | .00068   |
| %RSD   | .19236 | .10793 | .21763 | .10800 | .27520 | .94968 | .89824 | .26905   |
| #1     | 5.0154 | 5.0480 | 4.9891 | 5.0494 | 5.0811 | 10.190 | 10.056 | .25514   |
| #2     | 5.0128 | 5.0567 | 4.9720 | 5.0466 | 5.0695 | 10.244 | 10.091 | .25377   |
| #3     | 5.0307 | 5.0580 | 4.9922 | 5.0571 | 5.0973 | 10.379 | 10.228 | .25440   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4832 | 25.337 | 1.0015 | 2.4945 | 1.2758 | 5.0625 | 2.5631 | 25.051   |
| Stddev | .0009  | .176   | .0040  | .0016  | .0031  | .0098  | .0024  | .255     |
| %RSD   | .03684 | .69550 | .40286 | .06502 | .24159 | .19392 | .09456 | 1.0188   |
| #1     | 2.4824 | 25.487 | 1.0011 | 2.4940 | 1.2750 | 5.0678 | 2.5657 | 24.805   |
| #2     | 2.4830 | 25.381 | .99773 | 2.4932 | 1.2733 | 5.0511 | 2.5608 | 25.034   |
| #3     | 2.4842 | 25.143 | 1.0058 | 2.4963 | 1.2793 | 5.0684 | 2.5629 | 25.315   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4969 | 1.2504 | 25.231 | 2.5269 | 2.5011 | 25.228 | 5.1041 | 5.1526   |
| Stddev | .0018  | .0028  | .258   | .0057  | .0014  | .237   | .0100  | .0198    |
| %RSD   | .07199 | .22035 | 1.0217 | .22646 | .05417 | .93977 | .19507 | .38423   |
| #1     | 2.4980 | 1.2524 | 25.099 | 2.5327 | 2.5026 | 25.027 | 5.1002 | 5.1746   |
| #2     | 2.4949 | 1.2473 | 25.066 | 2.5269 | 2.4999 | 25.168 | 5.0968 | 5.1363   |
| #3     | 2.4979 | 1.2515 | 25.528 | 2.5212 | 2.5009 | 25.490 | 5.1155 | 5.1469   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0721 | 5.0252 | 4.9484 | 5.0580 | 5.0704 | 5.113  | 5.1835 | F 5.5824 |
| Stddev | .0138  | .0247  | .0033  | .0249  | .0150  | .009   | .0073  | .1168    |
| %RSD   | .27121 | .49230 | .06587 | .49303 | .29689 | .1774  | .14071 | 2.0926   |
| #1     | 5.0712 | 5.0343 | 4.9447 | 5.0317 | 5.0552 | 5.123  | 5.1771 | 5.6650   |
| #2     | 5.0588 | 5.0441 | 4.9508 | 5.0812 | 5.0707 | 5.106  | 5.1818 | 5.6335   |
| #3     | 5.0863 | 4.9972 | 4.9496 | 5.0612 | 5.0853 | 5.110  | 5.1914 | 5.4487   |

Sample Name: CCV02      Acquired: 6/7/2019 14:01:20      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 1.4514 |
| Stddev | .4372    |
| %RSD   | 30.125   |

|    |        |
|----|--------|
| #1 | 1.8578 |
| #2 | .98880 |
| #3 | 1.5075 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3747.2 | 48819. | 4593.1 | 62.868 | 3505.1 |
| Stddev    | 9.9    | 113.   | 22.7   | .918   | 11.7   |
| %RSD      | .26300 | .23116 | .49452 | 1.4600 | .33461 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3736.1 | 48837. | 4574.8 | 61.822 | 3492.2 |
| #2 | 3754.9 | 48923. | 4586.1 | 63.243 | 3508.0 |
| #3 | 3750.7 | 48699. | 4618.5 | 63.538 | 3515.2 |

Sample Name: CCB02      Acquired: 6/7/2019 14:05:19      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00084 | -.00048 | -.00218 | -.00085 | .00145 | -.01288 | .00200 |
| Stddev | .00174 | .00077  | .00027  | .00383  | .00135 | .00759  | .00021 |
| %RSD   | 206.42 | 160.13  | 12.560  | 449.39  | 93.392 | 58.944  | 10.382 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | .00235  | -.00035 | -.00225 | .00332  | .00301 | -.00590 | .00219 |
| #2 | .00123  | -.00131 | -.00188 | -.00420 | .00066 | -.01176 | .00178 |
| #3 | -.00106 | .00022  | -.00241 | -.00168 | .00068 | -.02096 | .00205 |

|        |        |        |         |         |         |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00009 | .00007 | -.00181 | -.00035 | -.00004 | .00021 | .00047 |
| Stddev | .00007 | .00013 | .00219  | .00019  | .00029  | .00010 | .00102 |
| %RSD   | 85.763 | 174.50 | 121.25  | 53.163  | 773.84  | 48.240 | 216.19 |

|    |        |         |         |         |         |        |         |
|----|--------|---------|---------|---------|---------|--------|---------|
| #1 | .00013 | .00021  | -.00315 | -.00054 | -.00036 | .00030 | .00008  |
| #2 | .00013 | .00004  | -.00299 | -.00017 | .00005  | .00024 | -.00029 |
| #3 | .00000 | -.00003 | .00072  | -.00034 | .00020  | .00010 | .00162  |

|        |        |         |        |         |         |        |         |
|--------|--------|---------|--------|---------|---------|--------|---------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280  | Na5895  | V_2924 | Zn2138  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00002 | -.02083 | .00039 | -.00033 | -.06692 | .00046 | -.00023 |
| Stddev | .00006 | .01927  | .00013 | .00056  | .00699  | .00075 | .00006  |
| %RSD   | 259.40 | 92.494  | 32.341 | 170.39  | 10.439  | 163.69 | 28.306  |

|    |         |         |        |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|
| #1 | -.00002 | -.00965 | .00028 | -.00089 | -.06411 | -.00039 | -.00020 |
| #2 | .00010  | -.04308 | .00036 | .00024  | -.06178 | .00104  | -.00030 |
| #3 | .00000  | -.00976 | .00053 | -.00034 | -.07488 | .00072  | -.00018 |

|        |         |        |        |         |        |         |         |
|--------|---------|--------|--------|---------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820  | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm     |
| Avg    | -.12538 | .00052 | .00776 | -.00359 | .00496 | -.00074 | -.00195 |
| Stddev | .03764  | .00003 | .00797 | .00446  | .00150 | .00022  | .00229  |
| %RSD   | 30.021  | 6.2731 | 102.74 | 124.30  | 30.137 | 30.011  | 117.43  |

|    |         |        |        |         |        |         |         |
|----|---------|--------|--------|---------|--------|---------|---------|
| #1 | -.16260 | .00056 | .01664 | -.00092 | .00420 | -.00084 | -.00437 |
| #2 | -.12623 | .00050 | .00123 | -.00111 | .00400 | -.00049 | -.00166 |
| #3 | -.08733 | .00050 | .00540 | -.00873 | .00669 | -.00090 | .00018  |



Sample Name: CCB02      Acquired: 6/7/2019 14:05:19      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00111 | -.0018 | .00031 | F 3.6272 | F<.00000 |
| Stddev    | .00125  | .0009  | .00008 | .0409    | .68393   |
| %RSD      | 112.69  | 51.32  | 26.424 | 1.1285   | 61.010   |
| #1        | -.00058 | -.0010 | .00039 | 3.6001   | -.36412  |
| #2        | -.00254 | -.0029 | .00030 | 3.6071   | -1.3043  |
| #3        | -.00021 | -.0016 | .00023 | 3.6743   | -1.6946  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3905.2  | 51402. | 4622.9 | 63.790   | 3924.8   |
| Stddev    | 8.6     | 90.    | 41.6   | 1.168    | 8.2      |
| %RSD      | .21933  | .17539 | .89909 | 1.8302   | .20985   |
| #1        | 3910.7  | 51299. | 4601.6 | 62.448   | 3934.3   |
| #2        | 3909.6  | 51437. | 4596.4 | 64.355   | 3919.5   |
| #3        | 3895.3  | 51469. | 4670.9 | 64.568   | 3920.7   |

Sample Name: K2638-03MSD      Acquired: 6/7/2019 14:09:48      Type: Unk  
Method: P4-ICP2(v3186)      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    | .85670 | 2.1014 | 1.0905 | 2.2277 | .87208 | 2.2416 | .27902 | .21922 |
| Stddev | .00269 | .0078  | .0017  | .0107  | .00229 | .0049  | .00118 | .00001 |
| %RSD   | .31343 | .37093 | .15933 | .47847 | .26281 | .21872 | .42314 | .00641 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .85728 | 2.1090 | 1.0887 | 2.2315 | .87404 | 2.2377 | .27773 | .21922 |
| #2 | .85905 | 2.1017 | 1.0922 | 2.2359 | .86956 | 2.2400 | .27927 | .21921 |
| #3 | .85377 | 2.0934 | 1.0905 | 2.2157 | .87264 | 2.2471 | .28005 | .21923 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21330 | 11.147 | .43040 | .21862 | .34319 | 3.3383 | .56507 | 2.4408 |
| Stddev | .00017 | .022   | .00082 | .00021 | .00031 | .0064  | .00179 | .0209  |
| %RSD   | .07751 | .19941 | .19054 | .09592 | .09058 | .19191 | .31664 | .85665 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21344 | 11.129 | .43132 | .21875 | .34351 | 3.3433 | .56682 | 2.4545 |
| #2 | .21333 | 11.172 | .43012 | .21838 | .34316 | 3.3406 | .56324 | 2.4512 |
| #3 | .21312 | 11.141 | .42975 | .21875 | .34289 | 3.3311 | .56513 | 2.4168 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .54216 | .07624 | 168.75 | .32953 | .26116 | 11.569 | .44542 | .33343 |
| Stddev | .00098 | .00063 | .31    | .00038 | .00071 | .074   | .00227 | .00774 |
| %RSD   | .18026 | .82432 | .18596 | .11414 | .27051 | .64131 | .50867 | 2.3220 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .54303 | .07673 | 168.46 | .32939 | .26175 | 11.484 | .44728 | .33446 |
| #2 | .54236 | .07646 | 168.71 | .32995 | .26137 | 11.623 | .44609 | .34061 |
| #3 | .54111 | .07553 | 169.08 | .32924 | .26038 | 11.600 | .44290 | .32523 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .10417 | 1.2031 | .75806 | .21560 | .22096 | 6.684  | .25161 | 5.1162 |
| Stddev | .00468 | .0129  | .00162 | .00237 | .00237 | .004   | .00106 | .1261  |
| %RSD   | 4.4954 | 1.0685 | .21431 | 1.1014 | 1.0731 | .0660  | .42015 | 2.4650 |

|    |        |        |        |        |        |       |        |        |
|----|--------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .10542 | 1.2174 | .75972 | .21289 | .21833 | 6.679 | .25039 | 5.2611 |
| #2 | .10809 | 1.1924 | .75647 | .21730 | .22163 | 6.686 | .25229 | 5.0555 |
| #3 | .09898 | 1.1995 | .75798 | .21661 | .22293 | 6.688 | .25214 | 5.0318 |

Sample Name: K2638-03MSD      Acquired: 6/7/2019 14:09:48      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | .43181  |
| %RSD   | 112.92  |

|    |         |
|----|---------|
| #1 | -.43001 |
| #2 | -.78843 |
| #3 | .07123  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3715.1 | 48151. | 4582.6 | 63.471 | 3495.2 |
| Stddev    | 7.0    | 42.    | 6.6    | .540   | 4.8    |
| %RSD      | .18714 | .08688 | .14308 | .85054 | .13735 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3709.2 | 48130. | 4589.8 | 63.046 | 3489.9 |
| #2 | 3713.3 | 48199. | 4576.9 | 63.290 | 3496.7 |
| #3 | 3722.8 | 48124. | 4581.0 | 64.078 | 3499.1 |

Sample Name: K2638-03A      Acquired: 6/7/2019 14:13:56      Type: Unk  
Method: P4-ICP2(v3186)      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    | .87170 | 2.1368 | 1.1083 | 2.2741 | .88741 | 2.2575 | .28012 | .22144 | .21674 |
| Stddev | .00324 | .0106  | .0045  | .0150  | .00653 | .0359  | .00336 | .00007 | .00161 |
| %RSD   | .37221 | .49610 | .40152 | .66121 | .73607 | 1.5896 | 1.2007 | .03080 | .74337 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .86802 | 2.1282 | 1.1049 | 2.2601 | .88305 | 2.2248 | .27629 | .22143 | .21556 |
| #2 | .87416 | 2.1336 | 1.1067 | 2.2722 | .88426 | 2.2959 | .28153 | .22138 | .21609 |
| #3 | .87292 | 2.1486 | 1.1133 | 2.2900 | .89492 | 2.2519 | .28255 | .22151 | .21858 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 11.205 | .43580 | .22235 | .34747 | 3.3730 | .56795 | 2.5554 | .55215 | .07769 |
| Stddev | .082   | .00084 | .00108 | .00237 | .0053  | .00049 | .0484  | .00196 | .00013 |
| %RSD   | .73463 | .19335 | .48602 | .68304 | .15564 | .08596 | 1.8926 | .35464 | .16214 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 11.300 | .43550 | .22124 | .34620 | 3.3717 | .56750 | 2.5012 | .55182 | .07772 |
| #2 | 11.165 | .43514 | .22243 | .34601 | 3.3685 | .56847 | 2.5943 | .55038 | .07780 |
| #3 | 11.151 | .43675 | .22339 | .35021 | 3.3787 | .56787 | 2.5706 | .55425 | .07755 |

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 167.67 | .33283 | .26492 | 11.676 | .45473 | .35219 | .10273 | 1.2102 | .77033 |
| Stddev | 1.21   | .00151 | .00205 | .146   | .00294 | .00537 | .00597 | .0134  | .00339 |
| %RSD   | .72000 | .45434 | .77546 | 1.2505 | .64656 | 1.5236 | 5.8105 | 1.1103 | .44066 |

|    |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 166.32 | .33190 | .26376 | 11.526 | .45227 | .35220 | .09596 | 1.2256 | .76829 |
| #2 | 168.07 | .33202 | .26371 | 11.686 | .45393 | .35756 | .10724 | 1.2009 | .76845 |
| #3 | 168.63 | .33458 | .26729 | 11.817 | .45798 | .34683 | .10499 | 1.2042 | .77425 |

|        |        |        |        |        |        |        |  |  |  |
|--------|--------|--------|--------|--------|--------|--------|--|--|--|
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |  |  |  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |  |  |  |
| Avg    | .22010 | .22417 | 6.805  | .25284 | 5.1610 | .24176 |  |  |  |
| Stddev | .00191 | .00162 | .037   | .00223 | .1830  | .63172 |  |  |  |
| %RSD   | .86641 | .72234 | .5464  | .88186 | 3.5453 | 261.30 |  |  |  |

|    |        |        |       |        |        |         |  |  |  |
|----|--------|--------|-------|--------|--------|---------|--|--|--|
| #1 | .22213 | .22259 | 6.774 | .25386 | 5.2310 | .83011  |  |  |  |
| #2 | .21981 | .22408 | 6.795 | .25029 | 5.2986 | -.42584 |  |  |  |
| #3 | .21835 | .22583 | 6.846 | .25438 | 4.9533 | .32102  |  |  |  |

Sample Name: K2638-03A      Acquired: 6/7/2019 14:13:56      Type: Unk  
 Method: P4-ICP2(v3186)      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       | 3700.8 | 48171. | 4579.9 | 62.393 | 3478.4 |
| Stddev    | 2.6    | 72.    | 37.5   | .943   | 5.3    |
| %RSD      | .07125 | .14967 | .81962 | 1.5116 | .15326 |
| #1        | 3700.8 | 48139. | 4536.7 | 61.841 | 3477.3 |
| #2        | 3703.5 | 48253. | 4603.7 | 63.482 | 3484.2 |
| #3        | 3698.2 | 48120. | 4599.5 | 61.856 | 3473.7 |

Sample Name: K3232-01      Acquired: 6/7/2019 14:18:04      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00358 | .00249 | .05971 | -.00163 | .00332 | -.11829 | .37399 |
| Stddev | .00196 | .00227 | .00088 | .00109  | .00091 | .03869  | .00334 |
| %RSD   | 54.657 | 91.143 | 1.4753 | 67.026  | 27.508 | 32.712  | .89275 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00170 | .00272 | .06063 | -.00040 | .00405 | -.13446 | .37110 |
| #2 | .00344 | .00011 | .05962 | -.00198 | .00230 | -.07413 | .37765 |
| #3 | .00561 | .00463 | .05887 | -.00250 | .00362 | -.14627 | .37323 |

|        |        |         |        |        |        |        |         |
|--------|--------|---------|--------|--------|--------|--------|---------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00019 | -.00073 | 214.42 | .00016 | .00036 | .00218 | -.00224 |
| Stddev | .00010 | .00003  | .88    | .00015 | .00027 | .00022 | .00067  |
| %RSD   | 51.790 | 4.4319  | .41156 | 95.663 | 75.838 | 9.9948 | 29.785  |

|    |        |         |        |         |        |        |         |
|----|--------|---------|--------|---------|--------|--------|---------|
| #1 | .00028 | -.00070 | 214.57 | .00026  | .00014 | .00196 | -.00229 |
| #2 | .00020 | -.00076 | 213.47 | -.00002 | .00028 | .00219 | -.00288 |
| #3 | .00008 | -.00073 | 215.21 | .00023  | .00067 | .00240 | -.00155 |

|        |        |        |         |         |        |        |        |
|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00160 | 89.601 | -.00281 | -.00240 | 1244.9 | .00068 | .07067 |
| Stddev | .00004 | .568   | .00055  | .00015  | 10.5   | .00071 | .00018 |
| %RSD   | 2.3381 | .63411 | 19.459  | 6.1202  | .84270 | 103.94 | .25719 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | .00163 | 89.417 | -.00263 | -.00229 | 1255.6 | .00082  | .07084 |
| #2 | .00161 | 90.238 | -.00342 | -.00257 | 1244.5 | .00131  | .07048 |
| #3 | .00156 | 89.147 | -.00237 | -.00234 | 1234.6 | -.00009 | .07068 |

|        |        |        |        |          |          |         |         |
|--------|--------|--------|--------|----------|----------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm     |
| Avg    | 44.402 | .14960 | .53986 | F 78.147 | F 13.972 | -.02958 | -.01174 |
| Stddev | .140   | .00048 | .03469 | .515     | .128     | .00107  | .00316  |
| %RSD   | .31575 | .31895 | 6.4263 | .65863   | .91272   | 3.6240  | 26.907  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 44.352 | .14921 | .50436 | 78.672 | 14.117 | -.03023 | -.00946 |
| #2 | 44.294 | .15013 | .57369 | 77.644 | 13.877 | -.02834 | -.01535 |
| #3 | 44.561 | .14945 | .54155 | 78.125 | 13.922 | -.03016 | -.01042 |

Sample Name: K3232-01      Acquired: 6/7/2019 14:18:04      Type: Unk  
 Method: P4-ICP2(v3186)      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       | .03261 | .0329  | 1.6801 | 7.7424 | F<.00000 |
| Stddev    | .00202 | .0013  | .0142  | .0677  | .64946   |
| %RSD      | 6.1947 | 3.841  | .84541 | .87440 | 6.0638   |
| #1        | .03069 | .0318  | 1.6923 | 7.7713 | -11.308  |
| #2        | .03242 | .0327  | 1.6645 | 7.6650 | -10.805  |
| #3        | .03471 | .0343  | 1.6835 | 7.7908 | -10.019  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3307.9 | 42303. | 4478.6 | 59.555 | 2961.1   |
| Stddev    | 6.5    | 54.    | 38.9   | .857   | 3.4      |
| %RSD      | .19543 | .12774 | .86955 | 1.4397 | .11446   |
| #1        | 3310.7 | 42330. | 4447.2 | 60.132 | 2957.4   |
| #2        | 3300.5 | 42338. | 4522.2 | 58.570 | 2962.2   |
| #3        | 3312.5 | 42240. | 4466.5 | 59.964 | 2963.9   |

Sample Name: PB120414BL      Acquired: 6/7/2019 14:22:43      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00093 | -.00102 | -.00163 | -.00314 | .00225 | -.01732 | .00181 |
| Stddev | .00260 | .00064  | .00063  | .00200  | .00107 | .02595  | .00015 |
| %RSD   | 278.59 | 62.281  | 38.938  | 63.454  | 47.420 | 149.80  | 8.0987 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | -.00143 | -.00043 | -.00200 | -.00315 | .00110 | -.04713 | .00197 |
| #2 | .00051  | -.00169 | -.00199 | -.00115 | .00321 | .00023  | .00175 |
| #3 | .00372  | -.00094 | -.00090 | -.00514 | .00245 | -.00506 | .00170 |

|        |        |         |        |         |         |        |         |
|--------|--------|---------|--------|---------|---------|--------|---------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00006 | -.00004 | .00286 | -.00049 | -.00012 | .00051 | -.00058 |
| Stddev | .00003 | .00002  | .00114 | .00019  | .00016  | .00042 | .00029  |
| %RSD   | 40.742 | 43.946  | 39.768 | 39.849  | 138.27  | 83.573 | 50.331  |

|    |        |         |        |         |         |        |         |
|----|--------|---------|--------|---------|---------|--------|---------|
| #1 | .00003 | -.00005 | .00413 | -.00039 | .00006  | .00010 | -.00091 |
| #2 | .00008 | -.00002 | .00192 | -.00071 | -.00016 | .00094 | -.00047 |
| #3 | .00008 | -.00004 | .00254 | -.00036 | -.00025 | .00048 | -.00035 |

|        |        |        |        |        |          |        |         |
|--------|--------|--------|--------|--------|----------|--------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895   | V_2924 | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     |
| Avg    | .00010 | .03856 | .00016 | .00002 | F .90320 | .00017 | -.00024 |
| Stddev | .00004 | .02473 | .00016 | .00034 | .09116   | .00020 | .00006  |
| %RSD   | 40.786 | 64.147 | 102.87 | 1857.8 | 10.093   | 115.62 | 26.581  |

|    |        |        |         |         |        |        |         |
|----|--------|--------|---------|---------|--------|--------|---------|
| #1 | .00013 | .01511 | .00023  | -.00027 | .98704 | .00008 | -.00024 |
| #2 | .00005 | .06440 | .00028  | -.00007 | .91639 | .00003 | -.00018 |
| #3 | .00011 | .03616 | -.00003 | .00040  | .80616 | .00040 | -.00031 |

|        |          |        |         |          |        |         |         |
|--------|----------|--------|---------|----------|--------|---------|---------|
| Elem   | K_7664   | Mo2020 | B_2496  | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm      | ppm    | ppm     | ppm      | ppm    | ppm     | ppm     |
| Avg    | F .53038 | .00002 | -.00494 | F .01083 | .00608 | -.00084 | -.00228 |
| Stddev | .06481   | .00014 | .01417  | .00283   | .00142 | .00070  | .00152  |
| %RSD   | 12.219   | 834.84 | 286.88  | 26.092   | 23.289 | 83.022  | 66.792  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .57480 | .00004  | -.01946 | .01404 | .00529 | -.00043 | -.00344 |
| #2 | .56032 | -.00013 | -.00420 | .00974 | .00523 | -.00044 | -.00056 |
| #3 | .45602 | .00014  | .00885  | .00871 | .00771 | -.00165 | -.00284 |



Sample Name: PB120414BL      Acquired: 6/7/2019 14:22:43      Type: Unk  
Method: P4-ICP2(v3186)      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 .01753 | -.0030 | .00014 | F 3.1495 | F<.00000 |
| Stddev | .00455   | .0005  | .00007 | .1460    | .87655   |
| %RSD   | 25.932   | 17.19  | 49.097 | 4.6346   | 283.15   |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .01877 | -.0030 | .00009 | 3.0111 | -.79823 |
| #2 | .02134 | -.0025 | .00022 | 3.1354 | .70238  |
| #3 | .01250 | -.0035 | .00012 | 3.3021 | -.83288 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3793.8 | 50229. | 4534.1 | 62.208 | 3826.7 |
| Stddev    | 6.2    | 114.   | 19.0   | .695   | 5.5    |
| %RSD      | .16365 | .22767 | .41907 | 1.1164 | .14345 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3800.1 | 50227. | 4514.8 | 62.586 | 3830.9 |
| #2 | 3793.6 | 50116. | 4552.8 | 62.632 | 3820.4 |
| #3 | 3787.7 | 50345. | 4534.9 | 61.407 | 3828.7 |

Sample Name: PB120426BL      Acquired: 6/7/2019 14:31:15      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00241 | .00010 | -.00141 | .00167 | .00047 | -.02430 | .00155 |
| Stddev | .00190  | .00056 | .00087  | .00413 | .00113 | .00794  | .00031 |
| %RSD   | 78.937  | 542.10 | 61.850  | 247.74 | 241.26 | 32.694  | 20.002 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00151 | .00066  | -.00058 | .00102  | .00149  | -.02898 | .00121 |
| #2 | -.00112 | -.00046 | -.00134 | .00608  | .00066  | -.01513 | .00163 |
| #3 | -.00460 | .00011  | -.00232 | -.00210 | -.00074 | -.02879 | .00181 |

|        |        |        |         |         |        |        |         |
|--------|--------|--------|---------|---------|--------|--------|---------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247 | Fe2404  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00005 | .00003 | -.00060 | -.00040 | .00011 | .00020 | -.00031 |
| Stddev | .00005 | .00004 | .00052  | .00020  | .00007 | .00055 | .00067  |
| %RSD   | 96.315 | 113.99 | 86.511  | 49.293  | 58.267 | 272.04 | 214.19  |

|    |         |        |         |         |        |         |         |
|----|---------|--------|---------|---------|--------|---------|---------|
| #1 | .00005  | .00001 | -.00120 | -.00045 | .00010 | .00062  | .00002  |
| #2 | .00009  | .00008 | -.00038 | -.00056 | .00018 | .00040  | -.00109 |
| #3 | -.00000 | .00002 | -.00023 | -.00018 | .00005 | -.00042 | .00013  |

|        |        |         |        |         |        |        |         |
|--------|--------|---------|--------|---------|--------|--------|---------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00004 | -.00282 | .00055 | -.00000 | .01368 | .00006 | -.00027 |
| Stddev | .00006 | .02835  | .00012 | .00005  | .00823 | .00057 | .00012  |
| %RSD   | 154.90 | 1004.8  | 22.449 | 4125.1  | 60.133 | 978.58 | 43.898  |

|    |         |         |        |         |        |         |         |
|----|---------|---------|--------|---------|--------|---------|---------|
| #1 | .00010  | .01572  | .00067 | .00002  | .01079 | .00026  | -.00018 |
| #2 | -.00000 | .01127  | .00043 | .00004  | .00729 | -.00059 | -.00023 |
| #3 | .00001  | -.03546 | .00056 | -.00006 | .02296 | .00050  | -.00041 |

|        |         |        |        |        |        |         |         |
|--------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.09349 | .00000 | .00335 | .00167 | .00349 | -.00152 | -.00290 |
| Stddev | .03168  | .00032 | .00488 | .00615 | .00295 | .00053  | .00206  |
| %RSD   | 33.891  | 36238. | 145.44 | 368.79 | 84.676 | 35.016  | 71.049  |

|    |         |         |        |         |        |         |         |
|----|---------|---------|--------|---------|--------|---------|---------|
| #1 | -.06188 | -.00029 | .00093 | .00749  | .00018 | -.00189 | -.00157 |
| #2 | -.12524 | .00035  | .00016 | -.00476 | .00585 | -.00091 | -.00527 |
| #3 | -.09334 | -.00005 | .00897 | .00227  | .00443 | -.00177 | -.00186 |

Sample Name: PB120426BL      Acquired: 6/7/2019 14:31:15      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00114 | -.0032 | .00002 | F 3.2839 | F<.00000 |
| Stddev | .00211  | .0012  | .00000 | .3429    | .45655   |
| %RSD   | 184.57  | 36.26  | 24.238 | 10.442   | 105.30   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | .00073  | -.0032 | .00002 | 3.3677 | -.01961 |
| #2 | -.00074 | -.0044 | .00003 | 2.9069 | -.35791 |
| #3 | -.00343 | -.0021 | .00002 | 3.5771 | -.92325 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3762.4 | 50393. | 4597.2 | 61.726 | 3814.2 |
| Stddev    | 8.9    | 69.    | 14.9   | 1.470  | 2.7    |
| %RSD      | .23762 | .13644 | .32418 | 2.3807 | .07102 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3753.1 | 50327. | 4582.1 | 60.523 | 3812.1 |
| #2 | 3770.9 | 50387. | 4597.5 | 63.364 | 3813.2 |
| #3 | 3763.3 | 50464. | 4611.9 | 61.291 | 3817.2 |

Sample Name: PB120426TB      Acquired: 6/7/2019 14:39:47      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00544 | -.00273 | .00182 | .00276 | .00193 | -.00661 | .00132 |
| Stddev | .00084  | .00077  | .00051 | .00323 | .00244 | .01815  | .00067 |
| %RSD   | 15.409  | 28.074  | 28.174 | 117.02 | 126.09 | 274.70  | 50.897 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | -.00632 | -.00309 | .00218 | -.00068 | -.00055 | -.01866 | .00150 |
| #2 | -.00465 | -.00185 | .00123 | .00573  | .00433  | .01427  | .00057 |
| #3 | -.00536 | -.00325 | .00204 | .00323  | .00202  | -.01543 | .00187 |

|        |         |         |        |        |         |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00007 | -.00020 | .01129 | .00077 | -.00027 | .00029 | .00358 |
| Stddev | .00001  | .00003  | .00064 | .00027 | .00003  | .00032 | .00035 |
| %RSD   | 20.333  | 15.985  | 5.6461 | 35.485 | 12.738  | 108.33 | 9.7027 |

|    |         |         |        |        |         |        |        |
|----|---------|---------|--------|--------|---------|--------|--------|
| #1 | -.00006 | -.00018 | .01106 | .00106 | -.00029 | .00008 | .00337 |
| #2 | -.00007 | -.00024 | .01202 | .00052 | -.00023 | .00014 | .00399 |
| #3 | -.00009 | -.00018 | .01081 | .00072 | -.00028 | .00066 | .00339 |

|        |        |        |        |        |          |         |        |
|--------|--------|--------|--------|--------|----------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895   | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm     | ppm    |
| Avg    | .00012 | .04924 | .00177 | .00122 | F 329.93 | -.00020 | .00231 |
| Stddev | .00005 | .04366 | .00067 | .00063 | 2.41     | .00034  | .00001 |
| %RSD   | 41.302 | 88.670 | 38.084 | 51.589 | .73037   | 171.41  | .51981 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .00011 | -.00109 | .00141 | .00115 | 328.84 | -.00038 | .00230 |
| #2 | .00007 | .07185  | .00255 | .00063 | 328.25 | .00020  | .00232 |
| #3 | .00017 | .07695  | .00136 | .00188 | 332.69 | -.00042 | .00232 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | .00391 | .00009 | .01228 | F .01151 | .01066 | -.00027 | -.00377 |
| Stddev | .04037 | .00025 | .02205 | .00465   | .00174 | .00067  | .00192  |
| %RSD   | 1031.5 | 283.92 | 179.58 | 40.389   | 16.360 | 244.50  | 50.797  |

|    |         |         |         |        |        |         |         |
|----|---------|---------|---------|--------|--------|---------|---------|
| #1 | -.01729 | -.00005 | .03755  | .01130 | .00907 | -.00105 | -.00558 |
| #2 | -.02143 | -.00006 | -.00302 | .00697 | .01038 | .00017  | -.00176 |
| #3 | .05047  | .00038  | .00230  | .01626 | .01252 | .00006  | -.00397 |

Sample Name: PB120426TB      Acquired: 6/7/2019 14:39:47      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00110 | -.0033 | .00006 | F 5.9315 | F<.00000 |
| Stddev | .00183 | .0005  | .00005 | .0578    | .78719   |
| %RSD   | 167.43 | 13.76  | 77.018 | .97455   | 15.804   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00082 | -.0038 | .00010 | 5.9349 | -5.2688 |
| #2 | .00127  | -.0032 | .00001 | 5.9875 | -5.5839 |
| #3 | .00284  | -.0029 | .00008 | 5.8720 | -4.0905 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3405.5 | 45262. | 4445.3 | 59.431 | 3261.2 |
| Stddev    | 8.2    | 77.    | 50.0   | .410   | 12.4   |
| %RSD      | .24159 | .17074 | 1.1243 | .68998 | .37902 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3414.9 | 45284. | 4393.3 | 59.191 | 3266.2 |
| #2 | 3399.6 | 45326. | 4493.0 | 59.198 | 3270.3 |
| #3 | 3402.0 | 45177. | 4449.5 | 59.905 | 3247.1 |

Sample Name: K3245-01      Acquired: 6/7/2019 14:44:23      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .01891 | -.00263 | .01674 | .00302 | -.00029 | 5.0390 | 2.3826 | .00337 |
| Stddev | .00287 | .00023  | .00098 | .00337 | .00222  | .0243  | .0081  | .00002 |
| %RSD   | 15.169 | 8.8916  | 5.8769 | 111.77 | 772.16  | .48294 | .34225 | .69187 |

|    |        |         |        |         |         |        |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|--------|
| #1 | .01936 | -.00283 | .01569 | .00571  | -.00284 | 5.0229 | 2.3736 | .00337 |
| #2 | .01585 | -.00237 | .01764 | -.00076 | .00075  | 5.0670 | 2.3896 | .00339 |
| #3 | .02153 | -.00267 | .01690 | .00410  | .00122  | 5.0272 | 2.3845 | .00334 |

|        |         |        |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00273 | 242.23 | .02624 | .02965 | .21024 | 59.414 | 8.1500 | 3.0851 |
| Stddev | .00010  | .99    | .00011 | .00051 | .00088 | .365   | .0555  | .0318  |
| %RSD   | 3.6664  | .40922 | .42560 | 1.7209 | .41864 | .61437 | .68134 | 1.0313 |

|    |         |        |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|--------|
| #1 | -.00264 | 243.36 | .02617 | .02906 | .21005 | 59.830 | 8.2125 | 3.0724 |
| #2 | -.00284 | 241.85 | .02618 | .02996 | .20947 | 59.266 | 8.1062 | 3.0615 |
| #3 | -.00272 | 241.49 | .02637 | .02993 | .21120 | 59.146 | 8.1313 | 3.1213 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .01272 | -.00606 | .49640 | .00217 | .02640 | 2.1318 | .01473 | .04112 |
| Stddev | .00089 | .00069  | .00345 | .00057 | .00019 | .0236  | .00025 | .01127 |
| %RSD   | 6.9967 | 11.454  | .69589 | 25.984 | .71749 | 1.1052 | 1.6954 | 27.419 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .01177 | -.00569 | .49807 | .00231 | .02619 | 2.1050 | .01477 | .04057 |
| #2 | .01353 | -.00563 | .49243 | .00266 | .02644 | 2.1493 | .01446 | .03013 |
| #3 | .01286 | -.00686 | .49871 | .00155 | .02656 | 2.1410 | .01495 | .05266 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .23173 | .98596 | .00117 | .60292 | .00061 | 3.544  | .10598 | 3.4449 |
| Stddev | .00764 | .01938 | .00020 | .00298 | .00236 | .012   | .00113 | .1282  |
| %RSD   | 3.2957 | 1.9656 | 16.631 | .49476 | 388.95 | .3350  | 1.0635 | 3.7223 |

|    |        |        |        |        |         |       |        |        |
|----|--------|--------|--------|--------|---------|-------|--------|--------|
| #1 | .23083 | .99049 | .00139 | .60070 | -.00190 | 3.531 | .10490 | 3.4326 |
| #2 | .23978 | 1.0027 | .00102 | .60631 | .00093  | 3.555 | .10715 | 3.5788 |
| #3 | .22458 | .96472 | .00111 | .60175 | .00280  | 3.545 | .10589 | 3.3233 |

Sample Name: K3245-01      Acquired: 6/7/2019 14:44:23      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      40.024  
 Stddev      .769  
 %RSD      1.9221

#1      40.107  
 #2      39.217  
 #3      40.749

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3609.7 | 48812. | 4781.2 | 61.485 | 3352.6 |
| Stddev    | 3.2    | 96.    | 20.0   | .338   | 7.9    |
| %RSD      | .08816 | .19676 | .41905 | .55015 | .23532 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3612.4 | 48761. | 4758.6 | 61.592 | 3361.4 |
| #2 | 3610.5 | 48752. | 4788.5 | 61.106 | 3350.2 |
| #3 | 3606.2 | 48922. | 4796.6 | 61.757 | 3346.2 |

Sample Name: K3191-07      Acquired: 6/7/2019 14:49:10      Type: Unk  
Method: P4-ICP2(v3186)      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    | .26794 | .00555   | 5.8632 | -.03884 | .00071  | 268.02  | 3.1726  | .04805  |
| Stddev | .00244 | .00167   | .0060  | .00132  | .00262  | 1.48    | .0158   | .00029  |
| %RSD   | .90914 | 30.059   | .10247 | 3.4019  | 370.58  | .55230  | .49641  | .59880  |
| #1     | .26662 | .00655   | 5.8598 | -.03771 | -.00193 | 267.18  | 3.1601  | .04785  |
| #2     | .27075 | .00362   | 5.8702 | -.04029 | .00330  | 269.73  | 3.1903  | .04838  |
| #3     | .26644 | .00647   | 5.8597 | -.03850 | .00075  | 267.16  | 3.1674  | .04791  |
| Elem   | Cd2265 | Ca3736   | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm      | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .05080 | 135.18   | .57249 | .73401  | 2.3919  | 266.30  | 9.4966  | 147.40  |
| Stddev | .00004 | .83      | .00097 | .00093  | .0027   | .20     | .0511   | .74     |
| %RSD   | .06943 | .61260   | .16950 | .12628  | .11086  | .07463  | .53810  | .50531  |
| #1     | .05079 | 136.13   | .57208 | .73294  | 2.3890  | 266.07  | 9.5363  | 147.46  |
| #2     | .05076 | 134.74   | .57180 | .73453  | 2.3942  | 266.45  | 9.4389  | 148.11  |
| #3     | .05083 | 134.66   | .57360 | .73456  | 2.3925  | 266.37  | 9.5144  | 146.62  |
| Elem   | Ni2316 | Ag3280   | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm      | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 4.3081 | -.03752  | 69.981 | .50071  | 5.1489  | 29.333  | -.00510 | .17063  |
| Stddev | .0010  | .00040   | .343   | .00222  | .0028   | .175    | .00036  | .00735  |
| %RSD   | .02293 | 1.0702   | .49072 | .44424  | .05442  | .59805  | 7.0776  | 4.3049  |
| #1     | 4.3081 | -.03743  | 69.716 | .50195  | 5.1519  | 29.239  | -.00513 | .16242  |
| #2     | 4.3071 | -.03717  | 70.369 | .50204  | 5.1464  | 29.536  | -.00473 | .17289  |
| #3     | 4.3091 | -.03796  | 69.859 | .49814  | 5.1483  | 29.225  | -.00545 | .17658  |
| Elem   | S_1820 | Si2881   | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm      | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 6.4146 | F 100.59 | .01122 | 1.5929  | .23809  | F 13.30 | .41413  | <.00000 |
| Stddev | .0147  | .46      | .00178 | .0059   | .00089  | .01     | .00116  | .15598  |
| %RSD   | .22898 | .46089   | 15.893 | .37212  | .37352  | .0551   | .28106  | 1.0722  |
| #1     | 6.4308 | 101.13   | .00976 | 1.5979  | .23898  | 13.30   | .41538  | -14.550 |
| #2     | 6.4021 | 100.33   | .01320 | 1.5944  | .23720  | 13.31   | .41394  | -14.390 |
| #3     | 6.4108 | 100.32   | .01069 | 1.5863  | .23811  | 13.29   | .41308  | -14.702 |



Sample Name: K3191-07      Acquired: 6/7/2019 14:49:10      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 515.36  
Stddev      3.30  
%RSD      .64016

#1      518.86  
#2      514.92  
#3      512.31

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 5866.9 | 80076. | 8419.1 | 57.048 | 2849.8 |
| Stddev    | 17.5   | 220.   | 39.9   | .865   | 5.6    |
| %RSD      | .29908 | .27480 | .47411 | 1.5171 | .19629 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 5877.7 | 80268. | 8387.5 | 56.082 | 2850.9 |
| #2 | 5876.4 | 80123. | 8464.0 | 57.309 | 2854.8 |
| #3 | 5846.7 | 79836. | 8405.9 | 57.753 | 2843.7 |

Sample Name: PB120414BS      Acquired: 6/7/2019 14:53:59      Type: Unk  
Method: P4-ICP2(v3186)      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    | .84577   | 2.1367   | 1.0558 | 2.1902 | .87768 | 2.1296 | .21869 | .21397   |
| Stddev | .00210   | .0030    | .0040  | .0119  | .00649 | .0318  | .00206 | .00018   |
| %RSD   | .24818   | .14212   | .37505 | .54149 | .73938 | 1.4952 | .94009 | .08250   |
| #1     | .84736   | 2.1338   | 1.0544 | 2.1969 | .87624 | 2.1042 | .21634 | .21417   |
| #2     | .84339   | 2.1398   | 1.0527 | 2.1765 | .87203 | 2.1653 | .22013 | .21386   |
| #3     | .84657   | 2.1365   | 1.0603 | 2.1971 | .88477 | 2.1192 | .21961 | .21388   |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .20241   | F 1.5788 | .42343 | .21400 | .34783 | 3.2522 | .21891 | 2.0741   |
| Stddev | .00048   | .0047    | .00188 | .00017 | .00087 | .0018  | .00040 | .1080    |
| %RSD   | .23807   | .30023   | .44464 | .08147 | .25020 | .05522 | .18405 | 5.2056   |
| #1     | .20187   | 1.5822   | .42370 | .21396 | .34847 | 3.2505 | .21846 | 1.9683   |
| #2     | .20259   | 1.5734   | .42143 | .21386 | .34684 | 3.2541 | .21904 | 2.1842   |
| #3     | .20278   | 1.5809   | .42516 | .21420 | .34818 | 3.2522 | .21924 | 2.0699   |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .52449   | .07664   | 3.2429 | .30985 | .21426 | 10.619 | .44961 | .32215   |
| Stddev | .00178   | .00094   | .0292  | .00092 | .00064 | .110   | .00058 | .00306   |
| %RSD   | .33977   | 1.2233   | .89978 | .29616 | .29878 | 1.0322 | .12893 | .94960   |
| #1     | .52298   | .07556   | 3.2094 | .30902 | .21353 | 10.494 | .44934 | .32200   |
| #2     | .52403   | .07731   | 3.2627 | .30969 | .21472 | 10.699 | .44921 | .32528   |
| #3     | .52646   | .07703   | 3.2566 | .31084 | .21452 | 10.663 | .45027 | .31917   |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | F .01927 | 1.0199   | .72699 | .21202 | .21652 | 6.089  | .22041 | F 4.3881 |
| Stddev | .00487   | .0144    | .00310 | .00120 | .00267 | .012   | .00121 | .1844    |
| %RSD   | 25.286   | 1.4068   | .42649 | .56524 | 1.2330 | .1918  | .55032 | 4.2030   |
| #1     | .02139   | 1.0353   | .72344 | .21241 | .21370 | 6.078  | .21985 | 4.1821   |
| #2     | .02272   | 1.0069   | .72839 | .21298 | .21686 | 6.089  | .21958 | 4.4443   |
| #3     | .01369   | 1.0175   | .72915 | .21068 | .21900 | 6.101  | .22180 | 4.5378   |

Sample Name: PB120414BS      Acquired: 6/7/2019 14:53:59      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 4.6700  
Stddev      .4379  
%RSD      9.3770

#1      4.8667  
#2      4.1683  
#3      4.9752

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3584.1 | 48423. | 4548.3 | 61.688 | 3594.8 |
| Stddev    | 12.9   | 37.    | 27.0   | 1.176  | 8.5    |
| %RSD      | .35914 | .07579 | .59341 | 1.9064 | .23777 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3569.6 | 48422. | 4529.8 | 62.891 | 3584.9 |
| #2 | 3594.0 | 48461. | 4579.2 | 61.632 | 3599.8 |
| #3 | 3588.8 | 48387. | 4535.8 | 60.541 | 3599.6 |

Sample Name: PB120426BS      Acquired: 6/7/2019 14:58:04      Type: Unk  
Method: P4-ICP2(v3186)      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    | .84744   | 2.1415   | 1.0558 | 2.1927 | .88288 | 2.1421 | .21834 | .21390   |
| Stddev | .00960   | .0150    | .0059  | .0196  | .00547 | .0153  | .00131 | .00042   |
| %RSD   | 1.1332   | .69990   | .55957 | .89221 | .61906 | .71361 | .60099 | .19868   |
| #1     | .84652   | 2.1325   | 1.0530 | 2.1948 | .88571 | 2.1329 | .21744 | .21342   |
| #2     | .85747   | 2.1588   | 1.0626 | 2.2111 | .88634 | 2.1597 | .21985 | .21404   |
| #3     | .83833   | 2.1331   | 1.0519 | 2.1721 | .87658 | 2.1336 | .21775 | .21423   |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .20334   | F 1.5708 | .42399 | .21460 | .34935 | 3.2367 | .21893 | 2.1545   |
| Stddev | .00143   | .0040    | .00117 | .00173 | .00295 | .0040  | .00051 | .0408    |
| %RSD   | .70115   | .25498   | .27677 | .80770 | .84528 | .12265 | .23125 | 1.8960   |
| #1     | .20231   | 1.5731   | .42309 | .21413 | .34988 | 3.2331 | .21846 | 2.2013   |
| #2     | .20496   | 1.5662   | .42531 | .21652 | .35200 | 3.2410 | .21947 | 2.1360   |
| #3     | .20273   | 1.5732   | .42356 | .21315 | .34617 | 3.2361 | .21886 | 2.1262   |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .52634   | .07622   | 3.1898 | .30949 | .21553 | 10.573 | .45136 | .30974   |
| Stddev | .00307   | .00077   | .0143  | .00041 | .00115 | .120   | .00389 | .01953   |
| %RSD   | .58328   | 1.0081   | .44796 | .13184 | .53334 | 1.1309 | .86187 | 6.3063   |
| #1     | .52457   | .07693   | 3.1756 | .30910 | .21540 | 10.439 | .45137 | .28750   |
| #2     | .52989   | .07541   | 3.2042 | .30948 | .21674 | 10.668 | .45525 | .32412   |
| #3     | .52456   | .07631   | 3.1895 | .30991 | .21446 | 10.613 | .44747 | .31761   |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | F .00909 | .96392   | .72593 | .21262 | .21580 | 6.111  | .21950 | F 4.3542 |
| Stddev | .00279   | .00628   | .00618 | .00249 | .00062 | .044   | .00052 | .2281    |
| %RSD   | 30.692   | .65102   | .85161 | 1.1717 | .28881 | .7181  | .23916 | 5.2381   |
| #1     | .01165   | .96260   | .72411 | .21483 | .21522 | 6.079  | .21893 | 4.6164   |
| #2     | .00950   | .95842   | .73281 | .20992 | .21571 | 6.161  | .21996 | 4.2446   |
| #3     | .00611   | .97076   | .72086 | .21312 | .21646 | 6.094  | .21963 | 4.2017   |

Sample Name: PB120426BS      Acquired: 6/7/2019 14:58:04      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 4.3964  
 Stddev      .4152  
 %RSD      9.4434

#1      4.5846  
 #2      4.6842  
 #3      3.9205

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3585.5 | 48595. | 4583.9 | 60.758 | 3589.3 |
| Stddev    | 10.8   | 61.    | 32.1   | 1.559  | 1.6    |
| %RSD      | .30034 | .12551 | .69937 | 2.5651 | .04470 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3574.3 | 48665. | 4559.0 | 61.884 | 3591.0 |
| #2 | 3586.5 | 48562. | 4620.1 | 61.411 | 3589.0 |
| #3 | 3595.8 | 48558. | 4572.5 | 58.980 | 3587.8 |

Sample Name: CCV03      Acquired: 6/7/2019 15:11:58      Type: Unk  
Method: P4-ICP2(v3186)      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    | 5.2552 | 5.0725 | 5.0815 | 5.2397 | 5.3407 | 10.328 | 10.388 | .25720   |
| Stddev | .0194  | .0130  | .0124  | .0102  | .0109  | .063   | .065   | .00141   |
| %RSD   | .36887 | .25645 | .24328 | .19550 | .20450 | .60780 | .62889 | .54640   |
| #1     | 5.2660 | 5.0758 | 5.0786 | 5.2508 | 5.3533 | 10.352 | 10.354 | .25798   |
| #2     | 5.2328 | 5.0581 | 5.0709 | 5.2378 | 5.3352 | 10.257 | 10.347 | .25557   |
| #3     | 5.2667 | 5.0835 | 5.0951 | 5.2306 | 5.3336 | 10.376 | 10.464 | .25804   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4677 | 23.778 | .98001 | 2.5486 | 1.3097 | 4.9482 | 2.5301 | 25.173   |
| Stddev | .0051  | .202   | .00140 | .0059  | .0008  | .0083  | .0061  | .315     |
| %RSD   | .20593 | .84787 | .14250 | .23058 | .06015 | .16803 | .24127 | 1.2502   |
| #1     | 2.4639 | 23.911 | .98138 | 2.5432 | 1.3088 | 4.9542 | 2.5371 | 24.860   |
| #2     | 2.4656 | 23.877 | .97859 | 2.5477 | 1.3102 | 4.9387 | 2.5258 | 25.170   |
| #3     | 2.4734 | 23.546 | .98007 | 2.5548 | 1.3100 | 4.9518 | 2.5274 | 25.489   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4812 | 1.2480 | 25.249 | 2.4015 | 2.6138 | 25.521 | 5.3123 | 5.0330   |
| Stddev | .0049  | .0025  | .100   | .0056  | .0032  | .140   | .0065  | .0664    |
| %RSD   | .19820 | .19974 | .39518 | .23184 | .12322 | .55022 | .12135 | 1.3184   |
| #1     | 2.4763 | 1.2458 | 25.184 | 2.4074 | 2.6110 | 25.455 | 5.3128 | 4.9832   |
| #2     | 2.4812 | 1.2475 | 25.198 | 2.4008 | 2.6130 | 25.426 | 5.3056 | 5.0076   |
| #3     | 2.4861 | 1.2507 | 25.363 | 2.3963 | 2.6173 | 25.683 | 5.3184 | 5.1083   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.3401 | 5.0903 | 4.9636 | 5.0200 | 4.9791 | 5.177  | 5.1985 | F 6.0659 |
| Stddev | .0281  | .0705  | .0041  | .0154  | .0204  | .005   | .0072  | .0226    |
| %RSD   | .52703 | 1.3852 | .08233 | .30745 | .41002 | .0955  | .13903 | .37295   |
| #1     | 5.3123 | 5.1045 | 4.9590 | 5.0092 | 4.9816 | 5.175  | 5.2048 | 6.0683   |
| #2     | 5.3395 | 5.1526 | 4.9666 | 5.0132 | 4.9982 | 5.183  | 5.2000 | 6.0872   |
| #3     | 5.3686 | 5.0137 | 4.9653 | 5.0377 | 4.9576 | 5.173  | 5.1906 | 6.0422   |

Sample Name: CCV03      Acquired: 6/7/2019 15:11:58      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 2.3845  
Stddev      .5634  
%RSD      23.627

#1      2.9886  
#2      1.8733  
#3      2.2917

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3426.8 | 46595. | 4518.1 | 57.989 | 3278.5 |
| Stddev    | 6.4    | 129.   | 25.6   | 1.173  | 2.9    |
| %RSD      | .18531 | .27698 | .56606 | 2.0222 | .08844 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3420.8 | 46575. | 4503.0 | 57.911 | 3278.9 |
| #2 | 3433.5 | 46733. | 4503.7 | 56.857 | 3281.2 |
| #3 | 3426.3 | 46477. | 4547.6 | 59.198 | 3275.5 |

Sample Name: CCB03      Acquired: 6/7/2019 15:15:56      Type: Unk  
Method: P4-ICP2(v3186)      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 | -.00035 | .00015 | -.00334 | .00195 | -.02811 | .00179 |
| Stddev | .00178 | .00113  | .00031 | .00264  | .00039 | .03825  | .00052 |
| %RSD   | 309.21 | 323.60  | 203.85 | 79.226  | 20.106 | 136.07  | 29.155 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | -.00130 | .00019  | .00025  | -.00549 | .00236 | .01606  | .00215 |
| #2 | .00078  | .00041  | -.00019 | -.00039 | .00191 | -.05007 | .00119 |
| #3 | .00225  | -.00164 | .00040  | -.00414 | .00158 | -.05033 | .00202 |

|        |        |        |         |         |        |        |        |
|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00010 | .00002 | -.00091 | -.00019 | .00005 | .00037 | .00025 |
| Stddev | .00007 | .00007 | .00190  | .00027  | .00017 | .00025 | .00074 |
| %RSD   | 70.051 | 338.48 | 209.14  | 138.81  | 359.72 | 67.357 | 301.72 |

|    |        |         |         |         |         |        |         |
|----|--------|---------|---------|---------|---------|--------|---------|
| #1 | .00009 | .00005  | .00129  | -.00013 | -.00014 | .00055 | .00107  |
| #2 | .00003 | -.00006 | -.00201 | -.00049 | .00016  | .00046 | .00001  |
| #3 | .00016 | .00007  | -.00201 | .00003  | .00012  | .00009 | -.00035 |

|        |        |        |        |        |         |        |         |
|--------|--------|--------|--------|--------|---------|--------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895  | V_2924 | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     |
| Avg    | .00010 | .02654 | .00004 | .00001 | -.07336 | .00021 | -.00016 |
| Stddev | .00001 | .02105 | .00013 | .00036 | .00550  | .00029 | .00008  |
| %RSD   | 12.324 | 79.306 | 286.90 | 2510.2 | 7.4932  | 134.17 | 47.403  |

|    |        |        |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00010 | .04921 | .00005  | .00022  | -.07969 | .00039  | -.00015 |
| #2 | .00011 | .02281 | .00017  | -.00040 | -.07063 | -.00012 | -.00009 |
| #3 | .00008 | .00761 | -.00009 | .00023  | -.06977 | .00036  | -.00024 |

|        |         |        |          |        |        |         |         |
|--------|---------|--------|----------|--------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496   | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm      | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.09576 | .00065 | F .04308 | .00186 | .01134 | -.00059 | -.00282 |
| Stddev | .04282  | .00047 | .01496   | .00124 | .00244 | .00110  | .00070  |
| %RSD   | 44.720  | 72.947 | 34.736   | 66.870 | 21.500 | 185.72  | 24.756  |

|    |         |        |        |        |        |         |         |
|----|---------|--------|--------|--------|--------|---------|---------|
| #1 | -.14507 | .00120 | .02612 | .00270 | .01379 | .00067  | -.00263 |
| #2 | -.06791 | .00036 | .04868 | .00043 | .00892 | -.00129 | -.00359 |
| #3 | -.07430 | .00039 | .05443 | .00245 | .01131 | -.00115 | -.00223 |



Sample Name: CCB03      Acquired: 6/7/2019 15:15:56      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00070 | -.0054 | .00011 | F 4.4352 | F<.00000 |
| Stddev    | .00055  | .0012  | .00007 | .1288    | .35289   |
| %RSD      | 77.615  | 22.55  | 64.832 | 2.9045   | 81.183   |
| #1        | -.00104 | -.0052 | .00014 | 4.3355   | -.02734  |
| #2        | -.00100 | -.0068 | .00015 | 4.3893   | -.64763  |
| #3        | -.00007 | -.0043 | .00003 | 4.5806   | -.62908  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3600.8  | 49341. | 4637.7 | 60.573   | 3664.8   |
| Stddev    | 7.8     | 112.   | 7.1    | 2.779    | 4.9      |
| %RSD      | .21800  | .22683 | .15412 | 4.5876   | .13306   |
| #1        | 3596.3  | 49461. | 4635.7 | 61.161   | 3661.6   |
| #2        | 3596.2  | 49324. | 4631.7 | 57.548   | 3662.4   |
| #3        | 3609.8  | 49239. | 4645.6 | 63.011   | 3670.4   |

Sample Name: LR CHECK 2      Acquired: 6/7/2019 15:27:11      Type: Unk  
Method: P4-ICP2(v3186)      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    | .02994 | -.01343 | 264.21 | .03957 | -.06739 | -.20443 | 106.80 | -.00080 |
| Stddev | .00233 | .00215  | 2.85   | .00364 | .00287  | .01095  | .30    | .00003  |
| %RSD   | 7.7864 | 15.981  | 1.0796 | 9.2094 | 4.2640  | 5.3573  | .27986 | 3.3858  |

|    |        |         |        |        |         |         |        |         |
|----|--------|---------|--------|--------|---------|---------|--------|---------|
| #1 | .02977 | -.01575 | 265.46 | .04219 | -.06409 | -.20053 | 106.52 | -.00079 |
| #2 | .02770 | -.01153 | 266.23 | .04112 | -.06937 | -.19597 | 107.12 | -.00083 |
| #3 | .03235 | -.01300 | 260.95 | .03541 | -.06871 | -.21680 | 106.77 | -.00079 |

|        |         |         |         |         |        |         |        |         |
|--------|---------|---------|---------|---------|--------|---------|--------|---------|
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | -.01591 | -.43711 | -.13087 | -.01636 | 263.69 | -.72897 | 45.854 | -.06837 |
| Stddev | .00025  | .00612  | .00170  | .00041  | 4.24   | .00704  | .140   | .02793  |
| %RSD   | 1.5743  | 1.4009  | 1.3028  | 2.5041  | 1.6064 | .96591  | .30569 | 40.860  |

|    |         |         |         |         |        |         |        |         |
|----|---------|---------|---------|---------|--------|---------|--------|---------|
| #1 | -.01617 | -.44172 | -.13176 | -.01650 | 266.50 | -.73156 | 45.960 | -.06739 |
| #2 | -.01590 | -.43944 | -.13193 | -.01668 | 265.76 | -.73435 | 45.907 | -.09678 |
| #3 | -.01567 | -.43016 | -.12890 | -.01590 | 258.82 | -.72100 | 45.695 | -.04093 |

|        |        |        |        |         |        |        |         |        |
|--------|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | 51.724 | .01142 | .53765 | -.27703 | 37.427 | .12482 | -.00102 | .01067 |
| Stddev | .512   | .00038 | .01909 | .00038  | .354   | .02233 | .00052  | .00711 |
| %RSD   | .98985 | 3.2937 | 3.5508 | .13575  | .94574 | 17.892 | 50.681  | 66.613 |

|    |        |        |        |         |        |        |         |        |
|----|--------|--------|--------|---------|--------|--------|---------|--------|
| #1 | 52.074 | .01169 | .54591 | -.27732 | 37.701 | .14163 | -.00162 | .01887 |
| #2 | 51.960 | .01158 | .55121 | -.27661 | 37.553 | .13334 | -.00075 | .00677 |
| #3 | 51.136 | .01099 | .51581 | -.27718 | 37.028 | .09948 | -.00070 | .00636 |

|        |        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .13532 | .04461 | .00145 | .02374 | -.00498 | -.0158 | .00793 | 6.4478 |
| Stddev | .00249 | .00040 | .00018 | .00180 | .00126  | .0064  | .00009 | .0965  |
| %RSD   | 1.8420 | .89633 | 12.081 | 7.5624 | 25.303  | 40.43  | 1.1331 | 1.4974 |

|    |        |        |        |        |         |        |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|--------|
| #1 | .13330 | .04418 | .00159 | .02566 | -.00372 | -.0139 | .00790 | 6.4247 |
| #2 | .13456 | .04469 | .00126 | .02347 | -.00498 | -.0228 | .00785 | 6.5538 |
| #3 | .13811 | .04496 | .00151 | .02210 | -.00624 | -.0105 | .00802 | 6.3649 |

Sample Name: LR CHECK 2      Acquired: 6/7/2019 15:27:11      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | .19414 |
| Stddev | .55546 |
| %RSD   | 286.11 |

|    |         |
|----|---------|
| #1 | -.09322 |
| #2 | .83441  |
| #3 | -.15876 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2549.2 | 49375. | 4696.2 | 59.963 | 3458.6 |
| Stddev    | 18.1   | 78.    | 4.3    | 1.979  | 22.1   |
| %RSD      | .71025 | .15815 | .09215 | 3.2997 | .63764 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2537.7 | 49296. | 4691.6 | 58.975 | 3442.1 |
| #2 | 2539.9 | 49377. | 4700.2 | 58.673 | 3450.1 |
| #3 | 2570.1 | 49452. | 4696.7 | 62.241 | 3483.7 |

Sample Name: LR CHECK 1      Acquired: 6/7/2019 15:34:53      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.09858 | .09096 | .22345 | -.58842 | .11749 | 1851.5 | .01697 | .08930 |
| Stddev | .00704  | .00383 | .00781 | .01243  | .00558 | 8.4    | .00110 | .00025 |
| %RSD   | 7.1383  | 4.2157 | 3.4968 | 2.1124  | 4.7536 | .45506 | 6.4572 | .28290 |

|    |         |        |        |         |        |        |        |        |
|----|---------|--------|--------|---------|--------|--------|--------|--------|
| #1 | -.09179 | .08674 | .21470 | -.57428 | .12392 | 1858.2 | .01580 | .08902 |
| #2 | -.10584 | .09192 | .22973 | -.59338 | .11391 | 1842.0 | .01798 | .08951 |
| #3 | -.09812 | .09423 | .22591 | -.59761 | .11463 | 1854.1 | .01715 | .08935 |

|        |        |        |         |        |        |        |         |        |
|--------|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .14057 | 1950.2 | -.03454 | .12084 | .20963 | 876.82 | -.00478 | 1729.6 |
| Stddev | .00203 | 11.5   | .00155  | .00129 | .00202 | 2.99   | .00011  | 5.4    |
| %RSD   | 1.4448 | .58871 | 4.4946  | 1.0648 | .96288 | .34134 | 2.2986  | .31261 |

|    |        |        |         |        |        |        |         |        |
|----|--------|--------|---------|--------|--------|--------|---------|--------|
| #1 | .14286 | 1960.3 | -.03568 | .12173 | .20939 | 878.99 | -.00466 | 1735.7 |
| #2 | .13898 | 1952.7 | -.03277 | .12141 | .20774 | 873.40 | -.00488 | 1725.5 |
| #3 | .13987 | 1937.7 | -.03517 | .11936 | .21176 | 878.06 | -.00480 | 1727.5 |

|        |         |         |        |        |        |        |         |         |
|--------|---------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.17899 | -.32549 | 1646.1 | .00216 | .32377 | 974.18 | -.02379 | -1.2279 |
| Stddev | .00092  | .00491  | 40.4   | .00061 | .00095 | 14.80  | .00207  | .0460   |
| %RSD   | .51549  | 1.5080  | 2.4538 | 28.433 | .29269 | 1.5194 | 8.7014  | 3.7496  |

|    |         |         |        |        |        |        |         |         |
|----|---------|---------|--------|--------|--------|--------|---------|---------|
| #1 | -.17837 | -.32001 | 1692.6 | .00162 | .32385 | 984.88 | -.02429 | -1.2797 |
| #2 | -.17855 | -.32948 | 1625.2 | .00204 | .32468 | 957.29 | -.02152 | -1.1916 |
| #3 | -.18005 | -.32698 | 1620.4 | .00283 | .32279 | 980.39 | -.02557 | -1.2123 |

|        |        |        |        |         |        |        |         |        |
|--------|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .48269 | .02506 | .05069 | -.05924 | .03266 | .2420  | -.95076 | 1.8606 |
| Stddev | .03899 | .00352 | .00034 | .00109  | .00153 | .0082  | .00341  | .1101  |
| %RSD   | 8.0786 | 14.033 | .66647 | 1.8426  | 4.6959 | 3.377  | .35826  | 5.9180 |

|    |        |        |        |         |        |       |         |        |
|----|--------|--------|--------|---------|--------|-------|---------|--------|
| #1 | .44985 | .02440 | .05049 | -.06046 | .03266 | .2488 | -.95306 | 1.7618 |
| #2 | .47242 | .02887 | .05108 | -.05836 | .03113 | .2441 | -.94685 | 1.8407 |
| #3 | .52579 | .02193 | .05050 | -.05889 | .03419 | .2329 | -.95238 | 1.9793 |

Sample Name: LR CHECK 1      Acquired: 6/7/2019 15:34:53      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      1264.0  
Stddev      1.9  
%RSD      .15104

#1      1262.4  
#2      1263.6  
#3      1266.1

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2382.8 | 32126. | 3873.9 | 44.335 | 1741.4 |
| Stddev    | 12.6   | 21.    | 42.2   | .428   | 8.5    |
| %RSD      | .52787 | .06485 | 1.0898 | .96528 | .49030 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2368.8 | 32136. | 3843.1 | 44.492 | 1731.6 |
| #2 | 2386.8 | 32141. | 3856.5 | 44.661 | 1745.9 |
| #3 | 2393.0 | 32102. | 3922.0 | 43.850 | 1746.8 |

Sample Name: K3158-01      Acquired: 6/7/2019 15:39:43      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: OK-03-060619      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |         |         |
|--------|---------|---------|--------|---------|--------|--------|---------|---------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934  | Be2348  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .03739  | -.00971 | .46976 | -.01093 | .00422 | 178.83 | .64813  | .01638  |
| Stddev | .00114  | .00034  | .00070 | .00331  | .00134 | 1.07   | .00205  | .00031  |
| %RSD   | 3.0438  | 3.5083  | .14811 | 30.291  | 31.709 | .59841 | .31705  | 1.9202  |
| #1     | .03808  | -.00984 | .46982 | -.00811 | .00326 | 177.64 | .64716  | .01645  |
| #2     | .03801  | -.00997 | .47042 | -.01457 | .00366 | 179.73 | .65048  | .01666  |
| #3     | .03608  | -.00932 | .46903 | -.01010 | .00575 | 179.11 | .64673  | .01604  |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | -.00282 | 95.825  | .20363 | .16760  | .53562 | 243.25 | 4.9736  | 67.915  |
| Stddev | .00018  | .796    | .00024 | .00087  | .00150 | 1.31   | .0073   | .162    |
| %RSD   | 6.4351  | .83075  | .11614 | .52170  | .28065 | .53839 | .14629  | .23882  |
| #1     | -.00287 | 95.964  | .20385 | .16731  | .53521 | 243.33 | 4.9782  | 67.729  |
| #2     | -.00261 | 94.969  | .20367 | .16859  | .53729 | 241.91 | 4.9775  | 68.030  |
| #3     | -.00297 | 96.543  | .20338 | .16691  | .53437 | 244.52 | 4.9652  | 67.985  |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .21037  | -.02503 | 16.011 | .52554  | .89490 | 16.227 | .00404  | .17375  |
| Stddev | .00133  | .00087  | .074   | .00280  | .00160 | .071   | .00073  | .01997  |
| %RSD   | .63357  | 3.4845  | .46503 | .53300  | .17861 | .43520 | 18.050  | 11.493  |
| #1     | .21184  | -.02490 | 15.926 | .52431  | .89663 | 16.232 | .00334  | .18737  |
| #2     | .21003  | -.02596 | 16.040 | .52874  | .89459 | 16.295 | .00479  | .15083  |
| #3     | .20924  | -.02424 | 16.066 | .52356  | .89348 | 16.154 | .00400  | .18305  |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | 7.2910  | 1.9676  | .02050 | 5.1769  | .15805 | 9.305  | -.07061 | .24651  |
| Stddev | .0368   | .0587   | .00106 | .0222   | .00021 | .049   | .00171  | .22318  |
| %RSD   | .50516  | 2.9842  | 5.1800 | .42974  | .13058 | .5301  | 2.4186  | 90.533  |
| #1     | 7.3283  | 2.0343  | .02172 | 5.2017  | .15829 | 9.358  | -.07051 | .37036  |
| #2     | 7.2901  | 1.9236  | .01979 | 5.1701  | .15796 | 9.296  | -.06896 | .38030  |
| #3     | 7.2546  | 1.9449  | .01998 | 5.1589  | .15792 | 9.260  | -.07237 | -.01112 |

Sample Name: K3158-01      Acquired: 6/7/2019 15:39:43      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: OK-03-060619 Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 241.25  
Stddev      2.43  
%RSD      1.0084

#1      243.25  
#2      241.96  
#3      238.54

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3960.7 | 54545. | 5514.8 | 58.976 | 3116.1 |
| Stddev    | 9.2    | 194.   | 42.2   | 1.157  | 4.0    |
| %RSD      | .23201 | .35521 | .76539 | 1.9617 | .12892 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3971.3 | 54752. | 5488.8 | 59.912 | 3118.2 |
| #2 | 3955.6 | 54517. | 5563.5 | 59.335 | 3118.7 |
| #3 | 3955.1 | 54368. | 5492.2 | 57.683 | 3111.5 |

Sample Name: K3158-01DUP      Acquired: 6/7/2019 15:44:16      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: OK-03-060619      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |         |        |
|--------|---------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .02996  | -.00796 | .46441 | -.00763 | .00583 | 171.47 | .61935  | .01578 |
| Stddev | .00227  | .00183  | .00170 | .00083  | .00104 | 1.05   | .00171  | .00016 |
| %RSD   | 7.5853  | 23.049  | .36700 | 10.852  | 17.832 | .60965 | .27563  | .99458 |
| #1     | .02827  | -.00594 | .46325 | -.00758 | .00641 | 170.77 | .61768  | .01561 |
| #2     | .02907  | -.00841 | .46637 | -.00683 | .00646 | 170.96 | .61928  | .01579 |
| #3     | .03254  | -.00953 | .46361 | -.00849 | .00463 | 172.67 | .62109  | .01592 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.00294 | 94.912  | .19831 | .16149  | .53869 | 237.62 | 4.9158  | 65.251 |
| Stddev | .00030  | .558    | .00065 | .00046  | .00094 | 1.19   | .0104   | .218   |
| %RSD   | 10.366  | .58790  | .32769 | .28391  | .17465 | .49879 | .21195  | .33472 |
| #1     | -.00261 | 94.281  | .19816 | .16196  | .53805 | 236.35 | 4.9131  | 65.264 |
| #2     | -.00298 | 95.338  | .19903 | .16145  | .53824 | 237.80 | 4.9272  | 65.026 |
| #3     | -.00322 | 95.118  | .19776 | .16105  | .53977 | 238.70 | 4.9069  | 65.462 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .20134  | -.02420 | 15.845 | .51084  | .86220 | 14.325 | .00428  | .14950 |
| Stddev | .00164  | .00074  | .055   | .00250  | .00086 | .083   | .00027  | .01303 |
| %RSD   | .81407  | 3.0490  | .34713 | .49008  | .10025 | .57629 | 6.3464  | 8.7129 |
| #1     | .20116  | -.02452 | 15.812 | .50970  | .86317 | 14.351 | .00398  | .15597 |
| #2     | .19980  | -.02472 | 15.814 | .51371  | .86151 | 14.233 | .00434  | .15802 |
| #3     | .20306  | -.02335 | 15.908 | .50911  | .86193 | 14.392 | .00451  | .13451 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | 7.0277  | 1.9879  | .01817 | 5.0480  | .14647 | 8.761  | -.06908 | 1.0202 |
| Stddev | .0274   | .0136   | .00068 | .0189   | .00110 | .006   | .00057  | .2500  |
| %RSD   | .39041  | .68285  | 3.7340 | .37361  | .74992 | .0730  | .82648  | 24.506 |
| #1     | 7.0566  | 1.9769  | .01742 | 5.0322  | .14523 | 8.758  | -.06842 | 1.1649 |
| #2     | 7.0245  | 2.0031  | .01873 | 5.0429  | .14685 | 8.768  | -.06937 | 1.1641 |
| #3     | 7.0020  | 1.9837  | .01837 | 5.0689  | .14733 | 8.756  | -.06945 | .73149 |



Sample Name: K3158-01DUP      Acquired: 6/7/2019 15:44:16      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: OK-03-060619 Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 228.62 |
| Stddev | 1.44     |
| %RSD   | .62994   |

|    |        |
|----|--------|
| #1 | 228.59 |
| #2 | 230.07 |
| #3 | 227.19 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3901.3 | 53614. | 5425.0 | 58.234 | 3139.4 |
| Stddev    | 5.5    | 104.   | 35.5   | 1.081  | 2.1    |
| %RSD      | .14038 | .19456 | .65397 | 1.8564 | .06572 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3903.8 | 53696. | 5463.7 | 58.894 | 3137.7 |
| #2 | 3905.0 | 53649. | 5394.0 | 56.986 | 3141.7 |
| #3 | 3895.0 | 53496. | 5417.2 | 58.820 | 3138.8 |

Sample Name: K3158-01LX5      Acquired: 6/7/2019 15:48:48      Type: Unk

Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000

User: Bin He      Custom ID1: ICSA8290      Custom ID2:      Custom ID3:

Comment:

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00909 | -.00102 | .09187 | .00316 | .00249 | 37.799 | .14137 | .00321 |
| Stddev | .00294 | .00023  | .00261 | .00419 | .00172 | .092   | .00065 | .00010 |
| %RSD   | 32.310 | 22.421  | 2.8413 | 132.53 | 68.886 | .24361 | .46149 | 3.2279 |

|    |        |         |        |         |        |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|--------|
| #1 | .00929 | -.00078 | .09396 | .00735  | .00072 | 37.894 | .14198 | .00333 |
| #2 | .00606 | -.00106 | .08894 | .00316  | .00262 | 37.795 | .14068 | .00315 |
| #3 | .01193 | -.00124 | .09272 | -.00103 | .00414 | 37.710 | .14145 | .00315 |

|        |         |        |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00292 | 23.747 | .04539 | .03213 | .12494 | 64.378 | 1.1620 | 14.924 |
| Stddev | .00005  | .042   | .00025 | .00065 | .00406 | .133   | .0019  | .146   |
| %RSD   | 1.7928  | .17853 | .55926 | 2.0353 | 3.2520 | .20648 | .16321 | .98096 |

|    |         |        |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|--------|
| #1 | -.00287 | 23.711 | .04512 | .03253 | .12689 | 64.530 | 1.1601 | 14.840 |
| #2 | -.00297 | 23.794 | .04541 | .03138 | .12027 | 64.281 | 1.1638 | 14.838 |
| #3 | -.00290 | 23.736 | .04562 | .03250 | .12766 | 64.324 | 1.1622 | 15.093 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03901 | -.00430 | 3.6987 | .11683 | .16365 | 3.4597 | .00034 | .05348 |
| Stddev | .00140 | .00037  | .0044  | .00119 | .00519 | .0447  | .00035 | .01013 |
| %RSD   | 3.5756 | 8.6337  | .11781 | 1.0155 | 3.1736 | 1.2922 | 102.90 | 18.933 |

|    |        |         |        |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|--------|---------|--------|
| #1 | .03935 | -.00390 | 3.6992 | .11559 | .16697 | 3.4711 | .00059  | .05014 |
| #2 | .03748 | -.00437 | 3.6940 | .11796 | .15767 | 3.4104 | .00050  | .06486 |
| #3 | .04021 | -.00463 | 3.7027 | .11693 | .16631 | 3.4976 | -.00006 | .04545 |

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 1.3609 | .44765 | .00173 | 1.1573 | .03281 | 1.709  | -.02626 | 4.2460 |
| Stddev | .0417  | .00808 | .00069 | .0050  | .00242 | .045   | .00033  | .1778  |
| %RSD   | 3.0644 | 1.8042 | 39.915 | .43130 | 7.3652 | 2.611  | 1.2606  | 4.1881 |

|    |        |        |        |        |        |       |         |        |
|----|--------|--------|--------|--------|--------|-------|---------|--------|
| #1 | 1.3812 | .43965 | .00118 | 1.1517 | .03558 | 1.736 | -.02656 | 4.2201 |
| #2 | 1.3129 | .44750 | .00152 | 1.1614 | .03174 | 1.658 | -.02590 | 4.4354 |
| #3 | 1.3886 | .45580 | .00251 | 1.1588 | .03112 | 1.733 | -.02633 | 4.0826 |

Sample Name: K3158-01LX5      Acquired: 6/7/2019 15:48:48      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA8290      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 43.550 |
| Stddev | .317   |
| %RSD   | .72882 |

|    |        |
|----|--------|
| #1 | 43.893 |
| #2 | 43.267 |
| #3 | 43.489 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3641.3 | 49631. | 4849.9 | 59.469 | 3489.5 |
| Stddev    | 78.1   | 200.   | 18.1   | .464   | 75.2   |
| %RSD      | 2.1438 | .40287 | .37343 | .77943 | 2.1564 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3602.2 | 49425. | 4842.5 | 58.934 | 3440.6 |
| #2 | 3731.2 | 49642. | 4836.7 | 59.740 | 3576.2 |
| #3 | 3590.6 | 49825. | 4870.5 | 59.733 | 3451.7 |

Sample Name: K3158-01MS      Acquired: 6/7/2019 15:53:14      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: OK-03-060619      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 | Be2348 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .77660 | 2.0641 | 1.5425 | 1.8535 | .13729 | 194.78  | .87619 | .20618 |
| Stddev | .00642 | .0054  | .0060  | .0245  | .00166 | 4.13    | .01524 | .00071 |
| %RSD   | .82623 | .26341 | .38758 | 1.3203 | 1.2083 | 2.1210  | 1.7389 | .34534 |
| #1     | .77311 | 2.0618 | 1.5429 | 1.8350 | .13603 | 191.73  | .86819 | .20571 |
| #2     | .77268 | 2.0703 | 1.5483 | 1.8443 | .13667 | 199.48  | .89376 | .20582 |
| #3     | .78401 | 2.0601 | 1.5364 | 1.8813 | .13917 | 193.13  | .86662 | .20700 |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .20312 | 102.27 | .56222 | .40244 | .88450 | 247.83  | 4.9354 | 74.474 |
| Stddev | .00098 | 3.59   | .00285 | .00178 | .00355 | .43     | .0067  | 1.443  |
| %RSD   | .48203 | 3.5116 | .50627 | .44109 | .40136 | .17325  | .13556 | 1.9377 |
| #1     | .20328 | 99.874 | .55894 | .40272 | .88412 | 247.60  | 4.9278 | 73.136 |
| #2     | .20401 | 106.40 | .56361 | .40405 | .88115 | 248.33  | 4.9380 | 76.003 |
| #3     | .20207 | 100.54 | .56409 | .40054 | .88822 | 247.57  | 4.9403 | 74.284 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .74991 | .04272 | 20.379 | .75175 | 1.0856 | 25.792  | .37033 | .38676 |
| Stddev | .00159 | .00047 | .368   | .00176 | .0119  | .442    | .00456 | .02316 |
| %RSD   | .21170 | 1.1025 | 1.8076 | .23472 | 1.0940 | 1.7151  | 1.2314 | 5.9895 |
| #1     | .74901 | .04253 | 20.143 | .75200 | 1.0922 | 25.466  | .36719 | .38039 |
| #2     | .75175 | .04326 | 20.804 | .74987 | 1.0926 | 26.296  | .36824 | .41244 |
| #3     | .74898 | .04237 | 20.191 | .75338 | 1.0719 | 25.615  | .37556 | .36745 |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | 7.0648 | 2.4952 | .70967 | 5.9867 | .36737 | F 15.17 | .14354 | 1.5457 |
| Stddev | .0021  | .1230  | .00393 | .4085  | .02792 | .16     | .02830 | .1352  |
| %RSD   | .02943 | 4.9306 | .55416 | 6.8239 | 7.6010 | 1.045   | 19.717 | 8.7464 |
| #1     | 7.0625 | 2.3990 | .70894 | 5.7427 | .35236 | 15.28   | .12816 | 1.6682 |
| #2     | 7.0664 | 2.6339 | .71391 | 6.4583 | .39958 | 15.23   | .17620 | 1.5683 |
| #3     | 7.0657 | 2.4528 | .70614 | 5.7591 | .35016 | 14.99   | .12625 | 1.4006 |

Sample Name: K3158-01MS      Acquired: 6/7/2019 15:53:14      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: OK-03-060619 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 242.53 |
| Stddev | 1.49     |
| %RSD   | .61375   |

|    |        |
|----|--------|
| #1 | 241.60 |
| #2 | 244.25 |
| #3 | 241.75 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3808.8 | 52945. | 5145.7 | 55.767 | 3093.2 |
| Stddev    | 11.1   | 84.    | 260.8  | 3.576  | 27.4   |
| %RSD      | .29081 | .15914 | 5.0687 | 6.4120 | .88518 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3817.0 | 53031. | 5284.7 | 57.897 | 3079.5 |
| #2 | 3813.2 | 52863. | 4844.8 | 51.638 | 3075.4 |
| #3 | 3796.2 | 52940. | 5307.6 | 57.764 | 3124.7 |

Sample Name: K3158-01MSD      Acquired: 6/7/2019 15:57:40      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: OK-03-060619      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 | Be2348 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .78062 | 2.0832 | 1.5543 | 1.8575 | .14152 | 194.33  | .87587 | .20611 |
| Stddev | .00047 | .0155  | .0113  | .0118  | .00148 | 1.11    | .00264 | .00045 |
| %RSD   | .05982 | .74246 | .72625 | .63783 | 1.0444 | .57072  | .30176 | .22032 |
| #1     | .78083 | 2.1009 | 1.5663 | 1.8675 | .14323 | 193.07  | .87334 | .20562 |
| #2     | .78096 | 2.0760 | 1.5439 | 1.8607 | .14075 | 194.77  | .87566 | .20622 |
| #3     | .78009 | 2.0727 | 1.5527 | 1.8444 | .14059 | 195.16  | .87861 | .20651 |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .20502 | 101.47 | .56474 | .40599 | .88106 | 250.74  | 4.9626 | 74.421 |
| Stddev | .00169 | .23    | .00238 | .00425 | .00306 | 1.23    | .0060  | .526   |
| %RSD   | .82503 | .22859 | .42224 | 1.0476 | .34725 | .48892  | .11994 | .70726 |
| #1     | .20697 | 101.63 | .56340 | .41090 | .87838 | 249.99  | 4.9571 | 73.815 |
| #2     | .20410 | 101.58 | .56749 | .40375 | .88041 | 252.16  | 4.9689 | 74.686 |
| #3     | .20398 | 101.21 | .56333 | .40333 | .88439 | 250.08  | 4.9619 | 74.763 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .75213 | .04305 | 20.425 | .75670 | 1.0890 | 25.748  | .37406 | .38464 |
| Stddev | .00781 | .00061 | .067   | .00110 | .0098  | .179    | .00065 | .02367 |
| %RSD   | 1.0386 | 1.4272 | .33020 | .14560 | .90123 | .69436  | .17456 | 6.1526 |
| #1     | .76107 | .04250 | 20.348 | .75571 | 1.1002 | 25.614  | .37463 | .35772 |
| #2     | .74867 | .04371 | 20.453 | .75789 | 1.0819 | 25.680  | .37334 | .39403 |
| #3     | .74665 | .04294 | 20.475 | .75652 | 1.0849 | 25.951  | .37420 | .40218 |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | 6.8412 | 2.3269 | .71496 | 5.7844 | .35326 | F 15.15 | .12468 | 1.6804 |
| Stddev | .0486  | .0257  | .00757 | .0129  | .00133 | .14     | .00183 | .0697  |
| %RSD   | .71061 | 1.1050 | 1.0586 | .22236 | .37781 | .9336   | 1.4649 | 4.1490 |
| #1     | 6.8899 | 2.3401 | .72353 | 5.7740 | .35174 | 15.31   | .12525 | 1.7399 |
| #2     | 6.8410 | 2.3434 | .71212 | 5.7803 | .35377 | 15.08   | .12264 | 1.6037 |
| #3     | 6.7927 | 2.2973 | .70921 | 5.7988 | .35427 | 15.06   | .12615 | 1.6977 |

Sample Name: K3158-01MSD      Acquired: 6/7/2019 15:57:40      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: OK-03-060619 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 244.94 |
| Stddev | 2.06     |
| %RSD   | .83941   |

|    |        |
|----|--------|
| #1 | 245.34 |
| #2 | 242.71 |
| #3 | 246.76 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3811.8 | 52807. | 5311.7 | 58.104 | 3102.1 |
| Stddev    | 10.9   | 71.    | 12.7   | 2.106  | 22.7   |
| %RSD      | .28529 | .13506 | .23869 | 3.6247 | .73219 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3818.8 | 52877. | 5297.1 | 55.754 | 3075.9 |
| #2 | 3817.3 | 52735. | 5319.5 | 58.737 | 3116.9 |
| #3 | 3799.3 | 52810. | 5318.7 | 59.821 | 3113.4 |

Sample Name: K3158-01A      Acquired: 6/7/2019 16:02:06      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB8290      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 | Be2348 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .78078 | 2.0903 | 1.5553 | 1.8507 | .14215 | 194.10  | .87213 | .20687 |
| Stddev | .00235 | .0082  | .0093  | .0120  | .00135 | 1.23    | .00562 | .00042 |
| %RSD   | .30135 | .39177 | .59850 | .64932 | .94692 | .63567  | .64463 | .20083 |
| #1     | .77900 | 2.0864 | 1.5458 | 1.8369 | .14369 | 193.64  | .87043 | .20731 |
| #2     | .77989 | 2.0848 | 1.5557 | 1.8560 | .14122 | 193.17  | .86756 | .20648 |
| #3     | .78345 | 2.0997 | 1.5644 | 1.8591 | .14153 | 195.50  | .87841 | .20684 |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .20518 | 99.823 | .56025 | .40883 | .89689 | 248.53  | 4.9617 | 73.614 |
| Stddev | .00104 | .132   | .00243 | .00250 | .00372 | 2.07    | .0100  | .566   |
| %RSD   | .50654 | .13195 | .43426 | .61206 | .41460 | .83320  | .20206 | .76828 |
| #1     | .20404 | 99.958 | .56266 | .40604 | .89268 | 249.47  | 4.9729 | 73.678 |
| #2     | .20607 | 99.695 | .55780 | .40955 | .89971 | 246.16  | 4.9534 | 73.019 |
| #3     | .20542 | 99.816 | .56030 | .41089 | .89829 | 249.96  | 4.9589 | 74.145 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .75457 | .04314 | 20.179 | .75024 | 1.0996 | 25.649  | .37397 | .38907 |
| Stddev | .00384 | .00037 | .148   | .00384 | .0016  | .247    | .00059 | .01345 |
| %RSD   | .50862 | .85805 | .73105 | .51135 | .14477 | .96272  | .15708 | 3.4570 |
| #1     | .75119 | .04276 | 20.147 | .75382 | 1.0978 | 25.627  | .37454 | .39102 |
| #2     | .75378 | .04350 | 20.050 | .75070 | 1.1002 | 25.413  | .37400 | .40144 |
| #3     | .75874 | .04315 | 20.339 | .74619 | 1.1009 | 25.906  | .37337 | .37475 |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | 7.3919 | 2.3515 | .71369 | 5.6985 | .35059 | F 15.25 | .12197 | 2.0688 |
| Stddev | .0615  | .0333  | .00236 | .0205  | .00133 | .02     | .00382 | .2042  |
| %RSD   | .83161 | 1.4148 | .33055 | .36049 | .37802 | .1391   | 3.1351 | 9.8715 |
| #1     | 7.3303 | 2.3596 | .71319 | 5.6897 | .35171 | 15.23   | .12369 | 2.2861 |
| #2     | 7.3922 | 2.3799 | .71163 | 5.7219 | .35093 | 15.24   | .12464 | 2.0397 |
| #3     | 7.4533 | 2.3149 | .71627 | 5.6838 | .34912 | 15.27   | .11759 | 1.8807 |



Sample Name: K3158-01A      Acquired: 6/7/2019 16:02:06      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSAB8290      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 244.14 |
| Stddev | 1.16     |
| %RSD   | .47332   |

|    |        |
|----|--------|
| #1 | 243.58 |
| #2 | 245.47 |
| #3 | 243.37 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3787.0 | 52841. | 5346.2 | 58.008 | 3062.2 |
| Stddev    | 8.0    | 254.   | 46.3   | .466   | 1.2    |
| %RSD      | .21233 | .48117 | .86599 | .80361 | .03873 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3780.6 | 52782. | 5302.2 | 57.734 | 3063.2 |
| #2 | 3784.3 | 53120. | 5341.8 | 58.546 | 3060.9 |
| #3 | 3796.0 | 52622. | 5394.5 | 57.744 | 3062.4 |

Sample Name: K3160-01      Acquired: 6/7/2019 16:06:32      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: EO-02-060619      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02574  | -.00021 | .65299 | -.00636 | .00439 | 144.31 | 1.0611 | .01468 |
| Stddev | .00162  | .00040  | .00172 | .00284  | .00150 | .60    | .0048  | .00018 |
| %RSD   | 6.3050  | 192.41  | .26305 | 44.567  | 34.051 | .41720 | .45531 | 1.2351 |
| #1     | .02572  | .00025  | .65308 | -.00372 | .00302 | 144.33 | 1.0591 | .01475 |
| #2     | .02737  | -.00049 | .65123 | -.00600 | .00417 | 144.90 | 1.0666 | .01482 |
| #3     | .02412  | -.00038 | .65467 | -.00936 | .00598 | 143.70 | 1.0576 | .01448 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00238 | 133.57  | .17652 | .13198  | .55273 | 204.13 | 4.3875 | 48.032 |
| Stddev | .00002  | .41     | .00008 | .00057  | .00083 | .20    | .0031  | .565   |
| %RSD   | .99765  | .30963  | .04442 | .43508  | .14997 | .09650 | .07127 | 1.1764 |
| #1     | -.00236 | 133.60  | .17661 | .13223  | .55177 | 204.28 | 4.3872 | 48.014 |
| #2     | -.00240 | 133.14  | .17649 | .13238  | .55318 | 204.22 | 4.3908 | 48.606 |
| #3     | -.00237 | 133.97  | .17647 | .13132  | .55324 | 203.91 | 4.3845 | 47.476 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20515  | -.01795 | 18.748 | .42659  | .85041 | 10.917 | .00221 | .12377 |
| Stddev | .00207  | .00042  | .083   | .00345  | .00428 | .081   | .00044 | .01841 |
| %RSD   | 1.0073  | 2.3531  | .44195 | .80941  | .50290 | .73858 | 20.116 | 14.873 |
| #1     | .20721  | -.01844 | 18.769 | .43032  | .85534 | 10.846 | .00255 | .12797 |
| #2     | .20308  | -.01770 | 18.818 | .42595  | .84769 | 11.005 | .00237 | .13971 |
| #3     | .20515  | -.01772 | 18.656 | .42350  | .84821 | 10.901 | .00171 | .10362 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.1624  | 4.1524  | .02524 | 3.0397  | .16129 | 8.725  | .29438 | 1.8809 |
| Stddev | .0603   | .0281   | .00157 | .0095   | .00143 | .034   | .00069 | .1030  |
| %RSD   | .65824  | .67672  | 6.2233 | .31243  | .88493 | .3875  | .23432 | 5.4770 |
| #1     | 9.2317  | 4.1574  | .02345 | 3.0324  | .15965 | 8.764  | .29509 | 1.9993 |
| #2     | 9.1218  | 4.1221  | .02638 | 3.0363  | .16225 | 8.702  | .29372 | 1.8116 |
| #3     | 9.1338  | 4.1776  | .02589 | 3.0505  | .16196 | 8.710  | .29434 | 1.8318 |

Sample Name: K3160-01      Acquired: 6/7/2019 16:06:32      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: EO-02-060619 Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 190.24 |
| Stddev | .50      |
| %RSD   | .26393   |

|    |        |
|----|--------|
| #1 | 190.32 |
| #2 | 190.70 |
| #3 | 189.70 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3798.0 | 52878. | 5329.1 | 57.303 | 3136.7 |
| Stddev    | 1.1    | 119.   | 35.5   | .349   | 12.5   |
| %RSD      | .02955 | .22576 | .66705 | .60840 | .39777 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3797.0 | 52768. | 5295.2 | 57.202 | 3123.1 |
| #2 | 3799.2 | 52862. | 5366.1 | 57.016 | 3147.5 |
| #3 | 3797.8 | 53005. | 5325.8 | 57.691 | 3139.5 |

Sample Name: K3160-03      Acquired: 6/7/2019 16:11:05      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: EO-02-060619      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03166  | -.00890 | .56001 | -.00774 | .00461 | 155.84 | .75508 | .01543 |
| Stddev | .00028  | .00203  | .00062 | .00114  | .00318 | .73    | .00489 | .00020 |
| %RSD   | .87093  | 22.811  | .11020 | 14.788  | 69.013 | .46853 | .64826 | 1.2724 |
| #1     | .03146  | -.01117 | .55952 | -.00642 | .00318 | 156.31 | .75645 | .01531 |
| #2     | .03156  | -.00726 | .56070 | -.00845 | .00826 | 156.22 | .75915 | .01533 |
| #3     | .03198  | -.00828 | .55980 | -.00836 | .00240 | 155.00 | .74965 | .01566 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00128 | 114.15  | .23243 | .14617  | .39985 | 216.66 | 5.1625 | 45.662 |
| Stddev | .00020  | .95     | .00078 | .00045  | .00258 | 1.15   | .0018  | .231   |
| %RSD   | 15.651  | .83520  | .33361 | .31010  | .64402 | .53093 | .03398 | .50652 |
| #1     | -.00151 | 115.24  | .23195 | .14613  | .39696 | 217.94 | 5.1644 | 45.691 |
| #2     | -.00121 | 113.79  | .23202 | .14573  | .40070 | 216.32 | 5.1623 | 45.877 |
| #3     | -.00113 | 113.44  | .23333 | .14664  | .40190 | 215.71 | 5.1609 | 45.417 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .18111  | -.02195 | 13.501 | .47686  | .86788 | 10.285 | .00137 | .14625 |
| Stddev | .00183  | .00075  | .070   | .00343  | .00205 | .047   | .00015 | .01747 |
| %RSD   | 1.0109  | 3.4350  | .51774 | .71846  | .23668 | .45924 | 10.835 | 11.946 |
| #1     | .18119  | -.02147 | 13.564 | .47973  | .86633 | 10.274 | .00143 | .16563 |
| #2     | .17923  | -.02157 | 13.513 | .47307  | .87021 | 10.337 | .00149 | .13170 |
| #3     | .18289  | -.02282 | 13.426 | .47778  | .86710 | 10.244 | .00121 | .14141 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.5788  | 2.4562  | .03155 | 4.5991  | .13404 | 7.527  | .28804 | .29826 |
| Stddev | .0155   | .0290   | .00086 | .0233   | .00091 | .006   | .00109 | .12055 |
| %RSD   | .27756  | 1.1792  | 2.7163 | .50673  | .67920 | .0808  | .37814 | 40.417 |
| #1     | 5.5944  | 2.4761  | .03135 | 4.5725  | .13330 | 7.523  | .28853 | .31538 |
| #2     | 5.5634  | 2.4229  | .03080 | 4.6162  | .13506 | 7.524  | .28880 | .40933 |
| #3     | 5.5786  | 2.4695  | .03248 | 4.6085  | .13376 | 7.534  | .28679 | .17006 |

Sample Name: K3160-03      Acquired: 6/7/2019 16:11:05      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: EO-02-060619      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 218.70 |
| Stddev | 1.46     |
| %RSD   | .66770   |

|    |        |
|----|--------|
| #1 | 217.61 |
| #2 | 218.13 |
| #3 | 220.36 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3985.3 | 55482. | 5647.5 | 58.535 | 3129.5 |
| Stddev    | 6.2    | 227.   | 20.4   | 2.083  | 4.3    |
| %RSD      | .15492 | .40996 | .36186 | 3.5578 | .13795 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3989.7 | 55346. | 5627.4 | 57.926 | 3127.6 |
| #2 | 3978.2 | 55356. | 5646.6 | 56.825 | 3126.5 |
| #3 | 3988.0 | 55745. | 5668.3 | 60.854 | 3134.5 |

Sample Name: CCV04      Acquired: 6/7/2019 16:15:39      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15080      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.3521 | 5.0689 | 5.0789 | 5.3362 | 5.4507 | 10.250 | 10.399 | .25250   |
| Stddev | .0134  | .0234  | .0137  | .0187  | .0131  | .818   | .815   | .02126   |
| %RSD   | .24987 | .46154 | .26902 | .35018 | .23965 | 7.9830 | 7.8383 | 8.4192   |
| #1     | 5.3556 | 5.0436 | 5.0632 | 5.3385 | 5.4613 | 9.3266 | 9.4841 | .22863   |
| #2     | 5.3635 | 5.0733 | 5.0877 | 5.3536 | 5.4546 | 10.886 | 11.047 | .26940   |
| #3     | 5.3374 | 5.0897 | 5.0859 | 5.3165 | 5.4361 | 10.537 | 10.666 | .25947   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4573 | 22.911 | .94986 | 2.5546 | 1.3240 | 4.8158 | 2.4580 | 25.070   |
| Stddev | .0075  | .303   | .08144 | .0080  | .0057  | .4006  | .2058  | 1.921    |
| %RSD   | .30602 | 1.3219 | 8.5736 | .31448 | .42857 | 8.3176 | 8.3716 | 7.6609   |
| #1     | 2.4491 | 22.578 | .85924 | 2.5456 | 1.3248 | 4.3684 | 2.2286 | 22.913   |
| #2     | 2.4639 | 23.169 | 1.0169 | 2.5613 | 1.3293 | 5.1410 | 2.6264 | 26.595   |
| #3     | 2.4590 | 22.987 | .97343 | 2.5568 | 1.3180 | 4.9381 | 2.5189 | 25.700   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4701 | 1.2218 | 24.713 | 2.3192 | 2.6159 | 25.281 | 5.4046 | 4.9708   |
| Stddev | .0060  | .0970  | 1.926  | .1951  | .0067  | 1.972  | .0107  | .3656    |
| %RSD   | .24441 | 7.9432 | 7.7952 | 8.4116 | .25766 | 7.8014 | .19865 | 7.3546   |
| #1     | 2.4631 | 1.1133 | 22.547 | 2.1019 | 2.6092 | 23.049 | 5.4099 | 4.5560   |
| #2     | 2.4738 | 1.3003 | 26.235 | 2.4793 | 2.6227 | 26.790 | 5.4117 | 5.2462   |
| #3     | 2.4733 | 1.2517 | 25.357 | 2.3765 | 2.6160 | 26.004 | 5.3923 | 5.1101   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.3416 | 4.9974 | 4.9527 | 5.0075 | 4.8749 | 5.175  | 5.1548 | F 5.7566 |
| Stddev | .0189  | .0193  | .0092  | .0151  | .0230  | .015   | .0226  | 1.5288   |
| %RSD   | .35465 | .38568 | .18511 | .30114 | .47117 | .2949  | .43766 | 26.558   |
| #1     | 5.3321 | 5.0145 | 4.9430 | 4.9923 | 4.8487 | 5.157  | 5.1289 | 4.0389   |
| #2     | 5.3635 | 5.0010 | 4.9612 | 5.0076 | 4.8914 | 5.180  | 5.1650 | 6.9681   |
| #3     | 5.3294 | 4.9765 | 4.9540 | 5.0225 | 4.8847 | 5.186  | 5.1704 | 6.2628   |

Sample Name: CCV04      Acquired: 6/7/2019 16:15:39      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15080      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 3.0943 |
| Stddev | 1.2650   |
| %RSD   | 40.882   |

|    |        |
|----|--------|
| #1 | 3.8806 |
| #2 | 1.6351 |
| #3 | 3.7674 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3330.6 | 47062. | 4552.1 | 57.128 | 3233.1 |
| Stddev    | 5.8    | 3293.  | 24.1   | 1.006  | 7.2    |
| %RSD      | .17383 | 6.9977 | .52986 | 1.7601 | .22397 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3327.4 | 50750. | 4524.9 | 56.560 | 3241.5 |
| #2 | 3327.0 | 44415. | 4560.6 | 56.536 | 3228.7 |
| #3 | 3337.2 | 46021. | 4570.8 | 58.289 | 3229.2 |

Sample Name: CCB04      Acquired: 6/7/2019 16:19:36      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15080      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |         |         |         |         |        |          |
|--------|----------|---------|---------|---------|---------|---------|--------|----------|
| Elem   | As1890   | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm      |
| Avg    | .00097   | .00154  | .00160  | -.00171 | .00092  | -.01630 | .00167 | .00006   |
| Stddev | .00251   | .00022  | .00069  | .00212  | .00167  | .00318  | .00067 | .00006   |
| %RSD   | 258.93   | 14.363  | 43.205  | 123.83  | 180.45  | 19.505  | 40.364 | 95.793   |
| #1     | .00387   | .00179  | .00240  | -.00385 | -.00093 | -.01911 | .00159 | .00005   |
| #2     | -.00057  | .00148  | .00127  | .00038  | .00230  | -.01285 | .00238 | .00012   |
| #3     | -.00039  | .00136  | .00114  | -.00166 | .00140  | -.01692 | .00104 | .00001   |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm      |
| Avg    | -.00003  | .00031  | -.00031 | .00004  | .00015  | .00169  | .00009 | -.00246  |
| Stddev | .00007   | .00035  | .00019  | .00018  | .00009  | .00056  | .00004 | .05719   |
| %RSD   | 211.88   | 112.68  | 60.493  | 467.81  | 60.378  | 33.102  | 48.246 | 2324.5   |
| #1     | .00005   | .00042  | -.00053 | -.00002 | .00025  | .00150  | .00006 | .06306   |
| #2     | -.00006  | -.00008 | -.00023 | -.00011 | .00007  | .00232  | .00013 | -.02806  |
| #3     | -.00009  | .00058  | -.00018 | .00024  | .00014  | .00125  | .00006 | -.04238  |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm      |
| Avg    | .00022   | -.00028 | -.04164 | -.00029 | .00005  | .04321  | .00070 | .00479   |
| Stddev | .00011   | .00013  | .00889  | .00008  | .00009  | .01276  | .00011 | .00990   |
| %RSD   | 47.831   | 45.229  | 21.350  | 26.659  | 185.67  | 29.538  | 16.421 | 206.85   |
| #1     | .00010   | -.00033 | -.04608 | -.00037 | -.00002 | .04760  | .00075 | .00632   |
| #2     | .00031   | -.00037 | -.03141 | -.00022 | .00015  | .05319  | .00078 | -.00579  |
| #3     | .00026   | -.00014 | -.04744 | -.00028 | .00002  | .02883  | .00057 | .01382   |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm      |
| Avg    | F .00966 | .00835  | -.00017 | -.00178 | -.00474 | -.0064  | .00017 | F 4.5438 |
| Stddev | .00634   | .00277  | .00011  | .00082  | .00347  | .0029   | .00008 | .2047    |
| %RSD   | 65.605   | 33.203  | 62.159  | 46.228  | 73.166  | 45.14   | 49.091 | 4.5060   |
| #1     | .01698   | .01148  | -.00024 | -.00108 | -.00446 | -.0031  | .00016 | 4.3202   |
| #2     | .00623   | .00736  | -.00024 | -.00158 | -.00834 | -.0075  | .00026 | 4.7222   |
| #3     | .00578   | .00621  | -.00005 | -.00269 | -.00142 | -.0086  | .00009 | 4.5889   |



Sample Name: CCB04      Acquired: 6/7/2019 16:19:36      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15080      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F .36621 |
| Stddev | .25653   |
| %RSD   | 70.050   |

|    |        |
|----|--------|
| #1 | .18541 |
| #2 | .25340 |
| #3 | .65981 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3513.5 | 48499. | 4615.6 | 60.541 | 3604.2 |
| Stddev    | 9.9    | 77.    | 28.6   | 1.500  | 3.1    |
| %RSD      | .28309 | .15790 | .61973 | 2.4774 | .08622 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3513.3 | 48481. | 4582.9 | 60.889 | 3606.3 |
| #2 | 3503.7 | 48583. | 4635.8 | 61.836 | 3600.6 |
| #3 | 3523.6 | 48434. | 4628.2 | 58.898 | 3605.7 |

Sample Name: K3160-05      Acquired: 6/7/2019 16:24:05      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: EO-02-060619      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |        |         |        |         |        |         |
|--------|----------|---------|--------|---------|--------|---------|--------|---------|
| Elem   | As1890   | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934 | Be2348  |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | .04422   | -.01439 | .56550 | -.01425 | .00568 | 156.85  | .69735 | .01619  |
| Stddev | .00233   | .00040  | .00341 | .00385  | .00249 | .06     | .00235 | .00024  |
| %RSD   | 5.2703   | 2.7568  | .60348 | 27.007  | 43.899 | .03807  | .33740 | 1.4576  |
| #1     | .04687   | -.01420 | .56320 | -.01057 | .00332 | 156.82  | .69693 | .01610  |
| #2     | .04329   | -.01484 | .56942 | -.01393 | .00829 | 156.92  | .69988 | .01602  |
| #3     | .04250   | -.01411 | .56388 | -.01825 | .00542 | 156.82  | .69523 | .01646  |
| Elem   | Cd2265   | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | .00132   | 178.61  | .22436 | .19668  | .43132 | 226.66  | 4.5984 | 75.266  |
| Stddev | .00029   | 1.82    | .00111 | .00155  | .00269 | 1.07    | .0157  | .138    |
| %RSD   | 21.699   | 1.0163  | .49516 | .78679  | .62424 | .47231  | .34089 | .18275  |
| #1     | .00105   | 180.47  | .22554 | .19610  | .43112 | 226.78  | 4.6071 | 75.269  |
| #2     | .00162   | 176.84  | .22333 | .19843  | .43410 | 225.54  | 4.5803 | 75.127  |
| #3     | .00130   | 178.52  | .22420 | .19550  | .42873 | 227.68  | 4.6079 | 75.402  |
| Elem   | Ni2316   | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664  | Mo2020 | B_2496  |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | .21053   | -.02445 | 13.959 | .42171  | 1.0330 | 12.598  | .00286 | .11219  |
| Stddev | .00222   | .00011  | .028   | .00130  | .0050  | .039    | .00016 | .02630  |
| %RSD   | 1.0524   | .43027  | .20372 | .30806  | .47896 | .30805  | 5.7373 | 23.446  |
| #1     | .20940   | -.02454 | 13.951 | .42303  | 1.0298 | 12.643  | .00278 | .13144  |
| #2     | .21309   | -.02449 | 13.991 | .42043  | 1.0387 | 12.578  | .00305 | .08222  |
| #3     | .20911   | -.02434 | 13.936 | .42168  | 1.0305 | 12.573  | .00276 | .12290  |
| Elem   | S_1820   | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774  | Sr4077 | U_3670  |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | F 12.338 | 4.2245  | .02512 | 5.4038  | .14062 | F 13.12 | .28972 | <.00000 |
| Stddev | .106     | .0501   | .00158 | .0168   | .00013 | .11     | .00316 | .13292  |
| %RSD   | .86217   | 1.1851  | 6.3050 | .31133  | .09018 | .8234   | 1.0892 | 11.491  |
| #1     | 12.300   | 4.2338  | .02667 | 5.3850  | .14070 | 13.07   | .29336 | -1.0491 |
| #2     | 12.457   | 4.1705  | .02518 | 5.4175  | .14067 | 13.25   | .28776 | -1.1157 |
| #3     | 12.255   | 4.2693  | .02350 | 5.4089  | .14047 | 13.05   | .28805 | -1.3052 |

Sample Name: K3160-05      Acquired: 6/7/2019 16:24:05      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: EO-02-060619 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 248.26 |
| Stddev | 1.14     |
| %RSD   | .45774   |

|    |        |
|----|--------|
| #1 | 248.70 |
| #2 | 246.97 |
| #3 | 249.11 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 4187.1 | 58404. | 5988.2 | 56.769 | 3026.2 |
| Stddev    | 7.9    | 215.   | 59.4   | 1.069  | 16.8   |
| %RSD      | .18978 | .36818 | .99201 | 1.8836 | .55666 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 4190.6 | 58171. | 5924.9 | 57.735 | 3042.4 |
| #2 | 4192.6 | 58595. | 6042.7 | 55.620 | 3008.8 |
| #3 | 4178.0 | 58445. | 5996.9 | 56.952 | 3027.4 |

Sample Name: K3246-01      Acquired: 6/7/2019 16:28:40      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-PS-01-047      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |         |        |
|--------|---------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934  | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .05061  | .00886  | .09459 | -.00010 | .00405 | 98.341 | .17609  | .00737 |
| Stddev | .00449  | .00289  | .00134 | .00270  | .00149 | .340   | .00126  | .00026 |
| %RSD   | 8.8634  | 32.623  | 1.4189 | 2610.8  | 36.895 | .34563 | .71654  | 3.5282 |
| #1     | .05197  | .00656  | .09570 | .00237  | .00398 | 98.095 | .17484  | .00710 |
| #2     | .05425  | .01210  | .09498 | .00031  | .00259 | 98.729 | .17736  | .00762 |
| #3     | .04560  | .00791  | .09310 | -.00299 | .00558 | 98.200 | .17607  | .00739 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.00578 | 49.165  | .19234 | .03946  | .18074 | 153.29 | .70088  | 16.935 |
| Stddev | .00019  | .088    | .00097 | .00017  | .00134 | .71    | .00028  | .076   |
| %RSD   | 3.3441  | .17805  | .50522 | .42626  | .74355 | .46107 | .04063  | .44686 |
| #1     | -.00559 | 49.125  | .19186 | .03963  | .17921 | 153.76 | .70107  | 16.849 |
| #2     | -.00597 | 49.265  | .19346 | .03945  | .18130 | 153.64 | .70101  | 16.968 |
| #3     | -.00577 | 49.104  | .19171 | .03930  | .18171 | 152.48 | .70055  | 16.989 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .04512  | -.00978 | .58203 | .33515  | .20699 | 4.1951 | .00413  | .11331 |
| Stddev | .00050  | .00053  | .00392 | .00156  | .00077 | .0425  | .00024  | .00402 |
| %RSD   | 1.1147  | 5.4176  | .67266 | .46688  | .37127 | 1.0138 | 5.7661  | 3.5512 |
| #1     | .04475  | -.01026 | .58406 | .33372  | .20620 | 4.2435 | .00399  | .11002 |
| #2     | .04491  | -.00921 | .58452 | .33491  | .20774 | 4.1781 | .00399  | .11780 |
| #3     | .04569  | -.00988 | .57752 | .33682  | .20704 | 4.1637 | .00440  | .11212 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | 4.9229  | 4.1565  | .00440 | .96586  | .04443 | 3.247  | -.07913 | 3.8381 |
| Stddev | .0095   | .0370   | .00070 | .00564  | .00192 | .008   | .00061  | .0857  |
| %RSD   | .19282  | .88946  | 15.918 | .58422  | 4.3165 | .2538  | .76561  | 2.2339 |
| #1     | 4.9289  | 4.1143  | .00400 | .96496  | .04351 | 3.240  | -.07943 | 3.9371 |
| #2     | 4.9278  | 4.1721  | .00521 | .97189  | .04315 | 3.256  | -.07953 | 3.7918 |
| #3     | 4.9119  | 4.1832  | .00399 | .96072  | .04664 | 3.245  | -.07843 | 3.7855 |

Sample Name: K3246-01      Acquired: 6/7/2019 16:28:40      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: FK-PS-01-047      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 119.29 |
| Stddev | .48      |
| %RSD   | .40289   |

|    |        |
|----|--------|
| #1 | 118.73 |
| #2 | 119.53 |
| #3 | 119.59 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3593.5 | 49844. | 4939.7 | 59.269 | 3326.0 |
| Stddev    | 8.0    | 77.    | 12.0   | 2.192  | 5.9    |
| %RSD      | .22262 | .15353 | .24326 | 3.6986 | .17691 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3598.0 | 49823. | 4952.8 | 60.031 | 3321.3 |
| #2 | 3584.2 | 49781. | 4937.4 | 60.979 | 3324.1 |
| #3 | 3598.2 | 49929. | 4929.1 | 56.798 | 3332.6 |

Sample Name: K3247-01      Acquired: 6/7/2019 16:33:03      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-GF-02-041      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .08570  | .00558  | 1.5902 | -.01497 | .00672 | 163.92 | 1.3570 | .02142 |
| Stddev | .00287  | .00121  | .0053  | .00059  | .00164 | .89    | .0059  | .00040 |
| %RSD   | 3.3515  | 21.648  | .33440 | 3.9237  | 24.441 | .54274 | .43354 | 1.8704 |
| #1     | .08814  | .00478  | 1.5855 | -.01560 | .00494 | 163.00 | 1.3506 | .02186 |
| #2     | .08643  | .00499  | 1.5960 | -.01444 | .00706 | 164.78 | 1.3621 | .02132 |
| #3     | .08254  | .00697  | 1.5891 | -.01485 | .00817 | 163.97 | 1.3582 | .02107 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00034 | 170.75  | .40061 | .27366  | .57305 | 269.06 | 5.8456 | 122.64 |
| Stddev | .00016  | .90     | .00075 | .00046  | .00202 | .77    | .0080  | .98    |
| %RSD   | 47.906  | .52533  | .18669 | .16642  | .35303 | .28652 | .13674 | .79971 |
| #1     | -.00045 | 171.15  | .40069 | .27418  | .57295 | 268.22 | 5.8366 | 121.54 |
| #2     | -.00042 | 171.38  | .40132 | .27336  | .57512 | 269.74 | 5.8483 | 123.42 |
| #3     | -.00015 | 169.72  | .39983 | .27344  | .57108 | 269.20 | 5.8520 | 122.97 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.9952  | -.02625 | 5.4722 | .39188  | 2.1361 | 15.820 | .00547 | .13678 |
| Stddev | .0031   | .00056  | .0258  | .00100  | .0019  | .063   | .00035 | .00625 |
| %RSD   | .15364  | 2.1166  | .47145 | .25470  | .09124 | .39812 | 6.4816 | 4.5713 |
| #1     | 1.9934  | -.02659 | 5.4638 | .39118  | 2.1343 | 15.752 | .00517 | .13484 |
| #2     | 1.9987  | -.02561 | 5.5012 | .39144  | 2.1382 | 15.877 | .00538 | .14377 |
| #3     | 1.9934  | -.02655 | 5.4517 | .39303  | 2.1358 | 15.830 | .00586 | .13172 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.1723  | 6.9884  | .06407 | 2.7859  | .20614 | 7.857  | .27850 | 2.6446 |
| Stddev | .0031   | .4762   | .00112 | .0013   | .00085 | .016   | .00239 | .2578  |
| %RSD   | .05895  | 6.8141  | 1.7417 | .04826  | .41332 | .1994  | .85703 | 9.7481 |
| #1     | 5.1688  | 6.4487  | .06347 | 2.7846  | .20558 | 7.839  | .28107 | 2.8142 |
| #2     | 5.1740  | 7.3495  | .06337 | 2.7873  | .20712 | 7.865  | .27809 | 2.7717 |
| #3     | 5.1741  | 7.1671  | .06535 | 2.7858  | .20572 | 7.868  | .27635 | 2.3479 |

Sample Name: K3247-01      Acquired: 6/7/2019 16:33:03      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: FK-GF-02-041 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 255.74 |
| Stddev | 1.48     |
| %RSD   | .57901   |

|    |        |
|----|--------|
| #1 | 254.22 |
| #2 | 255.81 |
| #3 | 257.18 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3628.0 | 50665. | 5184.7 | 55.964 | 3002.2 |
| Stddev    | 5.9    | 108.   | 43.0   | 1.873  | 3.2    |
| %RSD      | .16247 | .21381 | .82995 | 3.3467 | .10621 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3634.8 | 50563. | 5135.7 | 54.720 | 3005.9 |
| #2 | 3624.2 | 50779. | 5202.2 | 58.118 | 2999.8 |
| #3 | 3625.1 | 50654. | 5216.2 | 55.054 | 3001.1 |

Sample Name: K3247-03      Acquired: 6/7/2019 16:37:39      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-GF-02-041      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .09222  | .00631  | 1.5196 | -.01479 | .00642 | 170.49 | 1.3351 | .02117 |
| Stddev | .00299  | .00077  | .0108  | .00588  | .00075 | 1.03   | .0062  | .00022 |
| %RSD   | 3.2416  | 12.149  | .71332 | 39.738  | 11.616 | .60209 | .46752 | 1.0493 |
| #1     | .09426  | .00630  | 1.5085 | -.00881 | .00675 | 170.44 | 1.3328 | .02125 |
| #2     | .09362  | .00707  | 1.5302 | -.02056 | .00556 | 169.48 | 1.3304 | .02133 |
| #3     | .08879  | .00554  | 1.5200 | -.01501 | .00694 | 171.54 | 1.3422 | .02091 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00053 | 192.37  | .46650 | .25984  | .54654 | 254.26 | 5.5347 | 98.859 |
| Stddev | .00012  | .98     | .00116 | .00257  | .00254 | 1.39   | .0041  | .314   |
| %RSD   | 22.630  | .50866  | .24808 | .98948  | .46453 | .54480 | .07453 | .31763 |
| #1     | -.00058 | 193.38  | .46745 | .25768  | .54915 | 255.39 | 5.5388 | 99.172 |
| #2     | -.00039 | 192.32  | .46521 | .26269  | .54641 | 252.71 | 5.5305 | 98.544 |
| #3     | -.00061 | 191.42  | .46685 | .25915  | .54408 | 254.67 | 5.5347 | 98.861 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.7049  | -.02238 | 5.8020 | .39928  | 1.9963 | 15.887 | .00477 | .13462 |
| Stddev | .0145   | .00093  | .0368  | .00039  | .0189  | .051   | .00003 | .02484 |
| %RSD   | .84788  | 4.1609  | .63375 | .09876  | .94839 | .32200 | .56740 | 18.453 |
| #1     | 1.6884  | -.02148 | 5.8333 | .39882  | 1.9745 | 15.944 | .00474 | .16065 |
| #2     | 1.7108  | -.02334 | 5.7615 | .39950  | 2.0068 | 15.870 | .00477 | .13204 |
| #3     | 1.7155  | -.02232 | 5.8112 | .39951  | 2.0078 | 15.846 | .00480 | .11117 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 8.5025  | 5.4838  | .04125 | 2.9374  | .21767 | 7.765  | .38549 | 2.6546 |
| Stddev | .0546   | .0236   | .00133 | .0022   | .00167 | .061   | .00222 | .1135  |
| %RSD   | .64271  | .43027  | 3.2244 | .07389  | .76635 | .7841  | .57553 | 4.2761 |
| #1     | 8.4417  | 5.4925  | .03971 | 2.9349  | .21575 | 7.713  | .38330 | 2.6920 |
| #2     | 8.5475  | 5.4570  | .04198 | 2.9385  | .21868 | 7.832  | .38774 | 2.7447 |
| #3     | 8.5183  | 5.5017  | .04205 | 2.9388  | .21859 | 7.750  | .38544 | 2.5271 |



Sample Name: K3247-03      Acquired: 6/7/2019 16:37:39      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-GF-02-041      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 240.37  
Stddev      1.22  
%RSD      .50683

#1      241.56  
#2      240.43  
#3      239.13

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3631.5 | 50871. | 5260.9 | 57.308 | 3009.6 |
| Stddev    | 2.5    | 214.   | 29.1   | .394   | 29.3   |
| %RSD      | .06855 | .42085 | .55382 | .68682 | .97294 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3629.0 | 50628. | 5233.9 | 57.360 | 3043.2 |
| #2 | 3633.9 | 51028. | 5257.0 | 57.673 | 2989.2 |
| #3 | 3631.4 | 50959. | 5291.8 | 56.891 | 2996.4 |

Sample Name: K3248-01      Acquired: 6/7/2019 16:42:11      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-GF-02-042      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .08452  | .00154  | 1.2500 | -.01413 | .00439 | 154.95 | 1.2792 | .01860 |
| Stddev | .00036  | .00083  | .0109  | .00158  | .00166 | .11    | .0054  | .00010 |
| %RSD   | .42586  | 54.063  | .87527 | 11.182  | 37.918 | .06919 | .42067 | .54819 |
| #1     | .08419  | .00207  | 1.2620 | -.01450 | .00562 | 155.07 | 1.2852 | .01848 |
| #2     | .08446  | .00058  | 1.2473 | -.01549 | .00505 | 154.90 | 1.2748 | .01867 |
| #3     | .08490  | .00198  | 1.2406 | -.01239 | .00250 | 154.87 | 1.2775 | .01864 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00106 | 191.03  | .41263 | .28758  | .49204 | 230.82 | 5.6343 | 72.501 |
| Stddev | .00034  | .21     | .00122 | .00275  | .00287 | .42    | .0472  | .283   |
| %RSD   | 31.890  | .10962  | .29659 | .95742  | .58275 | .18037 | .83730 | .39014 |
| #1     | -.00070 | 190.80  | .41284 | .29005  | .49495 | 230.39 | 5.5918 | 72.190 |
| #2     | -.00111 | 191.18  | .41373 | .28809  | .48922 | 231.22 | 5.6260 | 72.742 |
| #3     | -.00138 | 191.13  | .41131 | .28461  | .49196 | 230.84 | 5.6851 | 72.573 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.6347  | -.02089 | 5.5844 | .37096  | 1.7757 | 14.028 | .00363 | .11068 |
| Stddev | .0132   | .00037  | .0314  | .00154  | .0154  | .065   | .00056 | .00619 |
| %RSD   | .80537  | 1.7768  | .56197 | .41620  | .86443 | .46626 | 15.537 | 5.5945 |
| #1     | 1.6457  | -.02127 | 5.6203 | .36924  | 1.7818 | 14.036 | .00316 | .11319 |
| #2     | 1.6384  | -.02053 | 5.5709 | .37223  | 1.7871 | 13.959 | .00426 | .10362 |
| #3     | 1.6201  | -.02086 | 5.5620 | .37142  | 1.7583 | 14.089 | .00348 | .11522 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 6.1262  | 4.8281  | .06171 | 2.8031  | .18709 | 7.848  | .53960 | 2.4800 |
| Stddev | .0762   | .0475   | .00212 | .0102   | .00095 | .079   | .00402 | .1546  |
| %RSD   | 1.2434  | .98395  | 3.4371 | .36380  | .50737 | 1.012  | .74482 | 6.2334 |
| #1     | 6.1948  | 4.7775  | .06238 | 2.7927  | .18784 | 7.926  | .53528 | 2.3180 |
| #2     | 6.1397  | 4.8351  | .06342 | 2.8035  | .18742 | 7.850  | .54322 | 2.4962 |
| #3     | 6.0442  | 4.8717  | .05934 | 2.8131  | .18602 | 7.768  | .54031 | 2.6259 |

Sample Name: K3248-01      Acquired: 6/7/2019 16:42:11      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: FK-GF-02-042      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 217.77  
 Stddev      1.60  
 %RSD      .73263

#1      215.92  
 #2      218.68  
 #3      218.70

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3627.1 | 51123. | 5231.0 | 57.833 | 3033.5 |
| Stddev    | 1.1    | 107.   | 33.0   | 2.116  | 23.6   |
| %RSD      | .03031 | .20841 | .63040 | 3.6587 | .77638 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3627.7 | 51023. | 5259.3 | 58.964 | 3021.1 |
| #2 | 3627.7 | 51110. | 5194.8 | 55.392 | 3018.8 |
| #3 | 3625.8 | 51235. | 5238.9 | 59.143 | 3060.7 |

Sample Name: K3248-03      Acquired: 6/7/2019 16:46:49      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-GF-02-042      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |        |        |        |
|--------|---------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .09189  | .00403  | 1.4404 | -.01402 | .00412 | 171.98 | 1.3600 | .02058 |
| Stddev | .00260  | .00225  | .0044  | .00064  | .00036 | .66    | .0044  | .00017 |
| %RSD   | 2.8268  | 55.956  | .30497 | 4.5822  | 8.6096 | .38435 | .32551 | .83219 |
| #1     | .09282  | .00592  | 1.4364 | -.01413 | .00379 | 171.59 | 1.3593 | .02045 |
| #2     | .08896  | .00154  | 1.4451 | -.01332 | .00450 | 171.60 | 1.3560 | .02052 |
| #3     | .09390  | .00463  | 1.4396 | -.01459 | .00408 | 172.74 | 1.3648 | .02078 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00086 | 167.18  | .57232 | .27789  | .57166 | 252.04 | 5.8622 | 100.39 |
| Stddev | .00022  | .93     | .00144 | .00073  | .00157 | .62    | .0454  | .42    |
| %RSD   | 25.002  | .55733  | .25201 | .26262  | .27441 | .24493 | .77385 | .41928 |
| #1     | -.00061 | 167.65  | .57097 | .27733  | .57008 | 252.44 | 5.8777 | 100.55 |
| #2     | -.00097 | 167.77  | .57216 | .27872  | .57322 | 252.35 | 5.8978 | 99.908 |
| #3     | -.00100 | 166.10  | .57384 | .27764  | .57167 | 251.33 | 5.8111 | 100.70 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.2490  | -.02300 | 6.0974 | .39363  | 1.9706 | 15.877 | .00341 | .11386 |
| Stddev | .0020   | .00047  | .0127  | .00319  | .0023  | .026   | .00069 | .01095 |
| %RSD   | .09066  | 2.0248  | .20883 | .81071  | .11857 | .16587 | 20.334 | 9.6148 |
| #1     | 2.2477  | -.02298 | 6.0833 | .39089  | 1.9681 | 15.863 | .00281 | .10131 |
| #2     | 2.2513  | -.02255 | 6.1081 | .39285  | 1.9727 | 15.860 | .00417 | .11883 |
| #3     | 2.2479  | -.02348 | 6.1009 | .39713  | 1.9710 | 15.907 | .00324 | .12144 |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.1089  | 5.6131  | .03814 | 3.0184  | .21740 | 7.767  | .29126 | 2.2438 |
| Stddev | .0137   | .0273   | .00107 | .0181   | .00106 | .017   | .00201 | .1310  |
| %RSD   | .26803  | .48641  | 2.8020 | .59990  | .48859 | .2167  | .68919 | 5.8380 |
| #1     | 5.1065  | 5.6429  | .03924 | 3.0042  | .21679 | 7.756  | .29354 | 2.3361 |
| #2     | 5.1236  | 5.6072  | .03807 | 3.0122  | .21679 | 7.786  | .29046 | 2.0939 |
| #3     | 5.0965  | 5.5892  | .03710 | 3.0388  | .21863 | 7.759  | .28977 | 2.3015 |

Sample Name: K3248-03      Acquired: 6/7/2019 16:46:49      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: FK-GF-02-042 Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 242.43  
Stddev      1.02  
%RSD      .42130

#1      242.02  
#2      241.68  
#3      243.59

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3605.1 | 50551. | 5178.6 | 55.695 | 2994.6 |
| Stddev    | 1.2    | 107.   | 33.9   | .609   | 4.6    |
| %RSD      | .03247 | .21072 | .65365 | 1.0932 | .15285 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3604.5 | 50429. | 5144.2 | 56.284 | 2993.0 |
| #2 | 3604.4 | 50599. | 5179.8 | 55.068 | 2991.1 |
| #3 | 3606.5 | 50625. | 5211.9 | 55.734 | 2999.8 |

Sample Name: K3250-01      Acquired: 6/7/2019 16:51:31      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SCARSDALE-CO      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |        |          |          |         |        |         |
|--------|----------|----------|--------|----------|----------|---------|--------|---------|
| Elem   | As1890   | Tl1908   | Pb2203 | Se1960   | Sb2068   | Al3961  | Ba4934 | Be2348  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm      | ppm     | ppm    | ppm     |
| Avg    | .56139   | .38359   | 39.370 | -.15937  | .17384   | 82.392  | 8.1686 | .07364  |
| Stddev | .00231   | .00441   | .092   | .00559   | .00341   | .321    | .0472  | .00088  |
| %RSD   | .41065   | 1.1503   | .23266 | 3.5097   | 1.9612   | .38944  | .57732 | 1.1892  |
| #1     | .56361   | .38228   | 39.400 | -.16266  | .17426   | 82.023  | 8.1161 | .07269  |
| #2     | .56155   | .37998   | 39.442 | -.15292  | .17702   | 82.609  | 8.2075 | .07442  |
| #3     | .55901   | .38851   | 39.267 | -.16255  | .17024   | 82.543  | 8.1820 | .07380  |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286   | Cu2247   | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm      | ppm     | ppm    | ppm     |
| Avg    | .58867   | 543.03   | 1.5418 | 1.3297   | 25.947   | 697.73  | 7.8620 | 135.93  |
| Stddev | .00092   | 3.78     | .0023  | .0034    | .024     | 2.71    | .0400  | .47     |
| %RSD   | .15548   | .69612   | .14681 | .25911   | .09403   | .38903  | .50887 | .34812  |
| #1     | .58947   | 542.81   | 1.5444 | 1.3289   | 25.975   | 694.75  | 7.8172 | 135.39  |
| #2     | .58887   | 539.36   | 1.5401 | 1.3267   | 25.931   | 698.38  | 7.8743 | 136.17  |
| #3     | .58768   | 546.91   | 1.5410 | 1.3335   | 25.934   | 700.06  | 7.8943 | 136.23  |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924   | Zn2138   | K_7664  | Mo2020 | B_2496  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm      | ppm     | ppm    | ppm     |
| Avg    | 17.742   | -.21493  | 48.088 | F 45.391 | F 62.510 | 36.755  | 2.4361 | .35413  |
| Stddev | .030     | .00141   | .156   | .120     | .502     | .187    | .0047  | .01211  |
| %RSD   | .17101   | .65450   | .32434 | .26460   | .80286   | .50746  | .19486 | 3.4202  |
| #1     | 17.752   | -.21622  | 47.913 | 45.499   | 62.688   | 36.598  | 2.4383 | .34213  |
| #2     | 17.767   | -.21343  | 48.212 | 45.262   | 62.899   | 36.961  | 2.4394 | .36635  |
| #3     | 17.709   | -.21515  | 48.137 | 45.412   | 61.944   | 36.705  | 2.4307 | .35390  |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361   | Li6707   | P_1774  | Sr4077 | U_3670  |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm      | ppm     | ppm    | ppm     |
| Avg    | F 231.02 | F 14.328 | 1.4892 | 3.5218   | 1.4050   | F 196.9 | 2.9462 | <.00000 |
| Stddev | .32      | .158     | .0045  | .0069    | .0113    | .5      | .0176  | .08766  |
| %RSD   | .13819   | 1.1005   | .30482 | .19478   | .80222   | .2290   | .59594 | 5.6106  |
| #1     | 231.35   | 14.503   | 1.4894 | 3.5214   | 1.4155   | 197.4   | 2.9554 | -1.4823 |
| #2     | 230.99   | 14.196   | 1.4937 | 3.5152   | 1.3931   | 197.0   | 2.9260 | -1.6561 |
| #3     | 230.72   | 14.285   | 1.4846 | 3.5289   | 1.4064   | 196.5   | 2.9574 | -1.5488 |

Sample Name: K3250-01      Acquired: 6/7/2019 16:51:31      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SCARSDALE-CO      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 1143.5  
Stddev      10.5  
%RSD      .91825

#1      1155.7  
#2      1137.7  
#3      1137.3

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3013.8 | 44007. | 4610.4 | 50.379 | 2508.2 |
| Stddev    | 7.4    | 96.    | 33.0   | .554   | 9.0    |
| %RSD      | .24649 | .21884 | .71668 | 1.1006 | .35958 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3010.2 | 44115. | 4582.3 | 50.913 | 2502.8 |
| #2 | 3008.8 | 43929. | 4646.8 | 49.806 | 2503.2 |
| #3 | 3022.3 | 43978. | 4602.1 | 50.418 | 2518.6 |

Sample Name: K3250-02      Acquired: 6/7/2019 16:56:16      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CHIMNEY-1      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |        |          |        |         |        |        |
|--------|----------|---------|--------|----------|--------|---------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203 | Se1960   | Sb2068 | Al3961  | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm    | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | .20898   | .06512  | 1.9892 | .00316   | .03232 | 131.21  | .48372 | .03387 |
| Stddev | .00222   | .00156  | .0073  | .00698   | .00312 | .87     | .00243 | .00028 |
| %RSD   | 1.0609   | 2.4030  | .36759 | 221.11   | 9.6598 | .66588  | .50165 | .82703 |
| #1     | .20646   | .06496  | 1.9910 | -.00430  | .03508 | 130.23  | .48097 | .03355 |
| #2     | .21062   | .06364  | 1.9955 | .00954   | .02893 | 131.49  | .48465 | .03408 |
| #3     | .20986   | .06676  | 1.9812 | .00424   | .03296 | 131.91  | .48555 | .03398 |
| Elem   | Cd2265   | Ca3736  | Cr2677 | Co2286   | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm    | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00790   | 160.52  | .68955 | .14599   | 3.8451 | 505.06  | 4.1479 | 16.708 |
| Stddev | .00037   | .43     | .00061 | .00077   | .0061  | 3.27    | .0086  | .224   |
| %RSD   | 4.6385   | .26590  | .08845 | .52782   | .15922 | .64712  | .20788 | 1.3384 |
| #1     | .00833   | 160.49  | .68994 | .14633   | 3.8486 | 502.75  | 4.1572 | 16.452 |
| #2     | .00770   | 160.97  | .68986 | .14653   | 3.8488 | 508.80  | 4.1464 | 16.804 |
| #3     | .00769   | 160.11  | .68885 | .14511   | 3.8381 | 503.63  | 4.1401 | 16.867 |
| Elem   | Ni2316   | Ag3280  | Na5895 | V_2924   | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm    | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | 2.4462   | -.07559 | 21.982 | F 6.6094 | 2.9754 | 41.944  | .23307 | .38634 |
| Stddev | .0033    | .00069  | .115   | .0184    | .0036  | .142    | .00199 | .02302 |
| %RSD   | .13640   | .90768  | .52354 | .27897   | .12243 | .33889  | .85304 | 5.9594 |
| #1     | 2.4499   | -.07619 | 21.855 | 6.6295   | 2.9794 | 41.784  | .23455 | .38806 |
| #2     | 2.4434   | -.07484 | 22.080 | 6.5933   | 2.9724 | 41.995  | .23385 | .40846 |
| #3     | 2.4453   | -.07573 | 22.011 | 6.6054   | 2.9743 | 42.054  | .23081 | .36251 |
| Elem   | S_1820   | Si2881  | Sn1899 | Ti3361   | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm    | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | F 518.02 | 2.3077  | .04444 | 5.8172   | .58127 | F 11.40 | .33781 | 2.5019 |
| Stddev | .72      | .0178   | .00009 | .0185    | .00129 | .06     | .00794 | .0764  |
| %RSD   | .13913   | .77198  | .21166 | .31801   | .22132 | .5179   | 2.3512 | 3.0525 |
| #1     | 518.78   | 2.3170  | .04434 | 5.8251   | .58198 | 11.40   | .34566 | 2.5588 |
| #2     | 517.93   | 2.2872  | .04449 | 5.8305   | .58206 | 11.45   | .32978 | 2.4151 |
| #3     | 517.35   | 2.3190  | .04450 | 5.7961   | .57979 | 11.33   | .33800 | 2.5317 |



Sample Name: K3250-02      Acquired: 6/7/2019 16:56:16      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CHIMNEY-1      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 561.65  
Stddev      2.67  
%RSD      .47503

#1      558.78  
#2      562.12  
#3      564.06

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3212.5 | 45452. | 4619.3 | 54.773 | 2940.8 |
| Stddev    | 8.0    | 181.   | 49.0   | .809   | 5.3    |
| %RSD      | .24784 | .39874 | 1.0605 | 1.4762 | .18021 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3208.8 | 45378. | 4565.1 | 55.707 | 2934.9 |
| #2 | 3207.0 | 45320. | 4632.4 | 54.312 | 2942.3 |
| #3 | 3221.6 | 45659. | 4660.5 | 54.300 | 2945.1 |

Sample Name: K3250-03      Acquired: 6/7/2019 17:00:48      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LBP-1-WHITE-      Custom ID2:      Custom ID3:  
Comment:

|        |          |           |          |           |          |          |        |
|--------|----------|-----------|----------|-----------|----------|----------|--------|
| Elem   | As1890   | Tl1908    | Pb2203   | Se1960    | Sb2068   | Al3961   | Ba4934 |
| Units  | ppm      | ppm       | ppm      | ppm       | ppm      | ppm      | ppm    |
| Avg    | k .04280 | k -.09855 | k 25.627 | k -.00328 | k .02346 | k 254.48 | 5.5206 |
| Stddev | .00336   | .00076    | .119     | .00559    | .00633   | 1.96     | .0313  |
| %RSD   | 7.8481   | .77384    | .46344   | 170.48    | 26.976   | .77103   | .56661 |

|    |          |           |          |           |          |          |        |
|----|----------|-----------|----------|-----------|----------|----------|--------|
| #1 | k .04209 | k -.09895 | k 25.500 | k -.00886 | k .01658 | k 252.21 | 5.4847 |
| #2 | k .04646 | k -.09767 | k 25.736 | k -.00330 | k .02903 | k 255.57 | 5.5419 |
| #3 | k .03986 | k -.09903 | k 25.643 | k .00232  | k .02479 | k 255.65 | 5.5353 |

|        |        |          |         |          |        |          |          |
|--------|--------|----------|---------|----------|--------|----------|----------|
| Elem   | Be2348 | Cd2265   | Ca3736  | Cr2677   | Co2286 | Cu2247   | Fe2404   |
| Units  | ppm    | ppm      | ppm     | ppm      | ppm    | ppm      | ppm      |
| Avg    | .00592 | k .03818 | ^ ***** | k .56830 | 4.8007 | k .60468 | k 77.253 |
| Stddev | .00004 | .00022   | -----   | .00500   | .0219  | .00278   | .427     |
| %RSD   | .70810 | .56657   | -----   | .88015   | .45652 | .46052   | .55220   |

|    |        |          |         |          |        |          |          |
|----|--------|----------|---------|----------|--------|----------|----------|
| #1 | .00587 | k .03813 | ^ ----- | k .56883 | 4.7798 | k .60151 | k 77.015 |
| #2 | .00592 | k .03842 | ^ ----- | k .56305 | 4.8235 | k .60673 | k 77.746 |
| #3 | .00595 | k .03800 | ^ ----- | k .57302 | 4.7987 | k .60580 | k 76.998 |

|        |        |        |          |           |        |          |          |
|--------|--------|--------|----------|-----------|--------|----------|----------|
| Elem   | Mn2576 | Mg2790 | Ni2316   | Ag3280    | Na5895 | V_2924   | Zn2138   |
| Units  | ppm    | ppm    | ppm      | ppm       | ppm    | ppm      | ppm      |
| Avg    | 1.7844 | 839.58 | k .71594 | k -.05250 | 37.566 | k 2.9137 | k 11.182 |
| Stddev | .0008  | 5.78   | .00202   | .00016    | .206   | .0018    | .059     |
| %RSD   | .04453 | .68786 | .28191   | .30598    | .54910 | .06151   | .52832   |

|    |        |        |          |           |        |          |          |
|----|--------|--------|----------|-----------|--------|----------|----------|
| #1 | 1.7835 | 833.38 | k .71519 | k -.05233 | 37.345 | k 2.9128 | k 11.123 |
| #2 | 1.7849 | 840.57 | k .71823 | k -.05252 | 37.753 | k 2.9157 | k 11.241 |
| #3 | 1.7848 | 844.80 | k .71440 | k -.05265 | 37.601 | k 2.9124 | k 11.181 |

|        |        |        |          |           |          |          |          |
|--------|--------|--------|----------|-----------|----------|----------|----------|
| Elem   | K_7664 | Mo2020 | B_2496   | S_1820    | Si2881   | Sn1899   | Ti3361   |
| Units  | ppm    | ppm    | ppm      | ppm       | ppm      | ppm      | ppm      |
| Avg    | 27.541 | .02491 | k .83717 | kF 189.89 | k 3.7643 | k .79782 | F 14.332 |
| Stddev | .275   | .00062 | .01210   | 1.35      | .0383    | .00149   | .115     |
| %RSD   | .99838 | 2.4754 | 1.4448   | .71051    | 1.0173   | .18731   | .80177   |

|    |        |        |          |          |          |          |        |
|----|--------|--------|----------|----------|----------|----------|--------|
| #1 | 27.240 | .02545 | k .82399 | k 188.54 | k 3.7303 | k .79610 | 14.295 |
| #2 | 27.780 | .02424 | k .84777 | k 191.23 | k 3.8058 | k .79862 | 14.460 |
| #3 | 27.602 | .02505 | k .83974 | k 189.89 | k 3.7570 | k .79875 | 14.240 |

Sample Name: K3250-03      Acquired: 6/7/2019 17:00:48      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: LBP-1-WHITE-      Custom ID2:      Custom ID3:  
 Comment:

|           |        |         |          |        |        |
|-----------|--------|---------|----------|--------|--------|
| Elem      | Li6707 | P_1774  | Sr4077   | U_3670 | U_3859 |
| Units     | ppm    | ppm     | ppm      | ppm    | ppm    |
| Avg       | .34370 | k 6.673 | k 1.6278 | 8.2314 | 45.350 |
| Stddev    | .00108 | .002    | .0134    | .2096  | .654   |
| %RSD      | .31518 | .0258   | .82426   | 2.5469 | 1.4412 |
| #1        | .34256 | k 6.671 | k 1.6158 | 8.3007 | 45.481 |
| #2        | .34381 | k 6.675 | k 1.6423 | 8.3976 | 44.642 |
| #3        | .34472 | k 6.674 | k 1.6254 | 7.9959 | 45.929 |
| Int. Std. | Y_2243 | Y_3600  | Y_3710   | In2306 | In2306 |
| Units     | Cts/S  | Cts/S   | Cts/S    | Cts/S  | Cts/S  |
| Avg       | 2704.6 | 38337.  | 4264.7   | 49.092 | 2391.0 |
| Stddev    | 12.5   | 135.    | 28.1     | .912   | 10.0   |
| %RSD      | .46236 | .35147  | .66003   | 1.8587 | .41772 |
| #1        | 2716.5 | 38240.  | 4259.7   | 49.360 | 2401.1 |
| #2        | 2691.5 | 38281.  | 4239.3   | 49.841 | 2381.1 |
| #3        | 2705.9 | 38491.  | 4295.0   | 48.076 | 2390.6 |

Sample Name: PB120414BS      Acquired: 6/7/2019 17:05:15      Type: Unk  
Method: P4-ICP2(v3186)      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    | .81506   | 2.0269   | 1.0050 | 2.1050   | .85629 | 2.0241 | .20883 | .20292   |
| Stddev | .00178   | .0048    | .0021  | .0011    | .00124 | .0064  | .00144 | .00040   |
| %RSD   | .21849   | .23652   | .20453 | .05091   | .14453 | .31416 | .69114 | .19617   |
| #1     | .81706   | 2.0263   | 1.0071 | 2.1038   | .85653 | 2.0168 | .20887 | .20253   |
| #2     | .81446   | 2.0319   | 1.0030 | 2.1059   | .85739 | 2.0283 | .20736 | .20293   |
| #3     | .81365   | 2.0224   | 1.0048 | 2.1053   | .85495 | 2.0273 | .21025 | .20332   |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286   | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm    | ppm    | ppm      |
| Avg    | .18878   | F 1.4785 | .38937 | .20448   | .33566 | 3.0160 | .20508 | 1.9896   |
| Stddev | .00017   | .0015    | .00132 | .00009   | .00033 | .0078  | .00009 | .0603    |
| %RSD   | .08862   | .10343   | .33849 | .04171   | .09806 | .25824 | .04559 | 3.0324   |
| #1     | .18873   | 1.4769   | .39030 | .20446   | .33599 | 3.0091 | .20516 | 1.9201   |
| #2     | .18864   | 1.4785   | .38786 | .20441   | .33533 | 3.0145 | .20498 | 2.0286   |
| #3     | .18896   | 1.4800   | .38996 | .20458   | .33565 | 3.0245 | .20509 | 2.0201   |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924   | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm    | ppm    | ppm      |
| Avg    | .48980   | .07214   | 2.9427 | .28222   | .20957 | 10.004 | .43907 | .31718   |
| Stddev | .00066   | .00101   | .0204  | .00074   | .00073 | .082   | .00054 | .00842   |
| %RSD   | .13444   | 1.3990   | .69427 | .26351   | .34794 | .81749 | .12371 | 2.6537   |
| #1     | .49045   | .07292   | 2.9331 | .28152   | .21041 | 9.9372 | .43851 | .31578   |
| #2     | .48914   | .07100   | 2.9288 | .28215   | .20917 | 9.9787 | .43910 | .32621   |
| #3     | .48982   | .07250   | 2.9661 | .28300   | .20912 | 10.095 | .43959 | .30956   |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361   | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm      | ppm    | ppm      | ppm    | ppm    | ppm    | ppm      |
| Avg    | F .08620 | .91382   | .67853 | F .24000 | .19909 | 5.759  | .20787 | F 5.3907 |
| Stddev | .01077   | .00296   | .00256 | .01444   | .00119 | .012   | .00094 | .0118    |
| %RSD   | 12.493   | .32361   | .37725 | 6.0184   | .59756 | .2132  | .45433 | .21829   |
| #1     | .09679   | .91174   | .68054 | .25630   | .19853 | 5.770  | .20679 | 5.3970   |
| #2     | .08655   | .91721   | .67938 | .23492   | .19828 | 5.760  | .20835 | 5.3979   |
| #3     | .07526   | .91252   | .67565 | .22879   | .20045 | 5.745  | .20848 | 5.3771   |

Sample Name: PB120414BS      Acquired: 6/7/2019 17:05:15      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 4.7230  
Stddev      .4095  
%RSD      8.6705

#1      4.9254  
#2      4.9918  
#3      4.2517

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3380.6 | 47403. | 4514.4 | 58.689 | 3468.9 |
| Stddev    | 10.7   | 44.    | 7.5    | .597   | 10.6   |
| %RSD      | .31774 | .09362 | .16585 | 1.0171 | .30456 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3369.4 | 47379. | 4521.5 | 59.377 | 3457.4 |
| #2 | 3390.8 | 47455. | 4506.6 | 58.370 | 3478.2 |
| #3 | 3381.7 | 47377. | 4515.2 | 58.318 | 3471.0 |

Sample Name: CCV05      Acquired: 6/7/2019 17:22:10      Type: Unk  
Method: P4-ICP2(v3186)      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    | 5.2569 | 4.9283 | 4.9574 | 5.1447 | 5.3845 | 10.171 | 10.192 | .25194   |
| Stddev | .0039  | .0336  | .0096  | .0199  | .0214  | .068   | .068   | .00050   |
| %RSD   | .07427 | .68233 | .19291 | .38700 | .39668 | .66931 | .66642 | .19661   |
| #1     | 5.2544 | 4.9086 | 4.9487 | 5.1662 | 5.4072 | 10.101 | 10.114 | .25157   |
| #2     | 5.2614 | 4.9091 | 4.9557 | 5.1410 | 5.3647 | 10.177 | 10.226 | .25250   |
| #3     | 5.2550 | 4.9671 | 4.9676 | 5.1269 | 5.3816 | 10.237 | 10.237 | .25176   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3520 | 25.190 | .92078 | 2.4866 | 1.2946 | 4.7471 | 2.4511 | 25.013   |
| Stddev | .0077  | .186   | .00207 | .0062  | .0039  | .0104  | .0028  | .338     |
| %RSD   | .32906 | .74001 | .22434 | .24802 | .29853 | .21876 | .11457 | 1.3498   |
| #1     | 2.3462 | 25.388 | .91841 | 2.4835 | 1.2988 | 4.7371 | 2.4500 | 24.629   |
| #2     | 2.3490 | 25.019 | .92224 | 2.4826 | 1.2939 | 4.7578 | 2.4543 | 25.144   |
| #3     | 2.3608 | 25.163 | .92168 | 2.4937 | 1.2912 | 4.7463 | 2.4490 | 25.265   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3527 | 1.2049 | 24.065 | 2.5656 | 2.5674 | 24.871 | 5.3667 | 4.8926   |
| Stddev | .0050  | .0014  | .134   | .0074  | .0077  | .085   | .0101  | .0892    |
| %RSD   | .21100 | .11982 | .55634 | .28983 | .30158 | .33978 | .18761 | 1.8233   |
| #1     | 2.3497 | 1.2065 | 23.911 | 2.5590 | 2.5612 | 24.782 | 5.3782 | 4.7931   |
| #2     | 2.3500 | 1.2037 | 24.136 | 2.5737 | 2.5650 | 24.880 | 5.3597 | 4.9654   |
| #3     | 2.3584 | 1.2046 | 24.149 | 2.5640 | 2.5761 | 24.951 | 5.3621 | 4.9192   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.2566 | 5.0578 | 4.7808 | 4.8615 | 4.6447 | 4.931  | 4.9415 | F 8.1701 |
| Stddev | .0085  | .0242  | .0182  | .0332  | .0214  | .009   | .0268  | .0509    |
| %RSD   | .16170 | .47869 | .38154 | .68279 | .46129 | .1916  | .54192 | .62333   |
| #1     | 5.2475 | 5.0686 | 4.7708 | 4.8272 | 4.6524 | 4.933  | 4.9473 | 8.1924   |
| #2     | 5.2644 | 5.0300 | 4.7698 | 4.8638 | 4.6205 | 4.920  | 4.9123 | 8.2061   |
| #3     | 5.2579 | 5.0747 | 4.8019 | 4.8935 | 4.6612 | 4.939  | 4.9649 | 8.1118   |

Sample Name: CCV05      Acquired: 6/7/2019 17:22:10      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 2.0994  
Stddev      .1252  
%RSD      5.9609

#1      2.1626  
#2      2.1805  
#3      1.9553

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3209.8 | 45436. | 4499.9 | 56.607 | 3172.7 |
| Stddev    | 4.7    | 89.    | 49.7   | 1.742  | 11.7   |
| %RSD      | .14544 | .19599 | 1.1042 | 3.0769 | .37004 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3205.4 | 45339. | 4447.7 | 55.439 | 3179.4 |
| #2 | 3214.7 | 45513. | 4546.6 | 58.608 | 3179.4 |
| #3 | 3209.3 | 45457. | 4505.5 | 55.772 | 3159.1 |

Sample Name: CCB05      Acquired: 6/7/2019 17:26:09      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: DRILLING-MUD      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |        |         |        |
|--------|---------|--------|--------|--------|--------|---------|--------|
| Elem   | As1890  | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | -.00001 | .00144 | .00111 | .00085 | .00142 | -.01566 | .00281 |
| Stddev | .00102  | .00051 | .00059 | .00345 | .00043 | .00610  | .00073 |
| %RSD   | 18705.  | 35.515 | 52.932 | 405.52 | 30.077 | 38.951  | 25.836 |

|    |         |        |        |         |        |         |        |
|----|---------|--------|--------|---------|--------|---------|--------|
| #1 | -.00011 | .00099 | .00152 | .00011  | .00094 | -.02230 | .00315 |
| #2 | .00107  | .00199 | .00044 | .00461  | .00156 | -.01437 | .00330 |
| #3 | -.00097 | .00133 | .00137 | -.00217 | .00175 | -.01031 | .00198 |

|        |        |         |         |         |        |        |        |
|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736  | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00003 | -.00000 | -.00195 | -.00071 | .00004 | .00034 | .00026 |
| Stddev | .00004 | .00007  | .00097  | .00013  | .00008 | .00025 | .00053 |
| %RSD   | 123.19 | 1997.0  | 49.550  | 17.910  | 219.09 | 72.569 | 204.65 |

|    |         |         |         |         |         |        |         |
|----|---------|---------|---------|---------|---------|--------|---------|
| #1 | .00005  | -.00000 | -.00192 | -.00075 | .00011  | .00011 | .00007  |
| #2 | .00006  | -.00007 | -.00293 | -.00081 | .00005  | .00031 | .00085  |
| #3 | -.00001 | .00006  | -.00100 | -.00057 | -.00005 | .00060 | -.00015 |

|        |        |        |        |         |         |        |        |
|--------|--------|--------|--------|---------|---------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895  | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00006 | .00146 | .00016 | -.00025 | -.10316 | .00003 | .00037 |
| Stddev | .00005 | .04310 | .00033 | .00011  | .00280  | .00012 | .00009 |
| %RSD   | 80.716 | 2952.4 | 203.14 | 42.822  | 2.7128  | 381.19 | 24.075 |

|    |        |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00005 | -.04791 | .00021  | -.00035 | -.10614 | .00006  | .00027 |
| #2 | .00011 | .02069  | .00047  | -.00014 | -.10059 | -.00010 | .00044 |
| #3 | .00002 | .03160  | -.00019 | -.00027 | -.10274 | .00013  | .00041 |

|        |         |        |        |          |        |         |         |
|--------|---------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | -.01294 | .00048 | .01320 | F .01520 | .01395 | -.00025 | -.00221 |
| Stddev | .01540  | .00055 | .02796 | .00255   | .00130 | .00014  | .00136  |
| %RSD   | 119.01  | 114.75 | 211.77 | 16.780   | 9.2867 | 54.006  | 61.661  |

|    |         |        |         |        |        |         |         |
|----|---------|--------|---------|--------|--------|---------|---------|
| #1 | -.02311 | .00112 | .03356  | .01329 | .01487 | -.00011 | -.00341 |
| #2 | .00478  | .00016 | -.01867 | .01422 | .01451 | -.00025 | -.00073 |
| #3 | -.02048 | .00017 | .02472  | .01810 | .01247 | -.00038 | -.00251 |



Sample Name: CCB05      Acquired: 6/7/2019 17:26:09      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: DRILLING-MUD      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00034 | -.0060 | .00018 | F 6.2519 | F<.00000 |
| Stddev | .00147  | .0009  | .00013 | .1392    | .61440   |
| %RSD   | 429.76  | 14.42  | 71.130 | 2.2267   | 76.750   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | .00126  | -.0065 | .00032 | 6.2339 | -.16645 |
| #2 | -.00065 | -.0050 | .00008 | 6.3993 | -.84196 |
| #3 | -.00164 | -.0064 | .00012 | 6.1226 | -1.3932 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3379.9 | 48055. | 4565.1 | 57.921 | 3523.9 |
| Stddev    | 6.1    | 200.   | 29.2   | 1.062  | 6.9    |
| %RSD      | .17940 | .41544 | .63867 | 1.8336 | .19506 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3375.4 | 47872. | 4574.1 | 58.130 | 3516.0 |
| #2 | 3377.4 | 48268. | 4532.5 | 56.770 | 3528.2 |
| #3 | 3386.8 | 48025. | 4588.7 | 58.864 | 3527.5 |

Sample Name: K3250-04      Acquired: 6/7/2019 17:30:37      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LBP-2-WHITE-      Custom ID2:      Custom ID3:  
Comment:

|        |          |           |          |           |          |          |        |
|--------|----------|-----------|----------|-----------|----------|----------|--------|
| Elem   | As1890   | Tl1908    | Pb2203   | Se1960    | Sb2068   | Al3961   | Ba4934 |
| Units  | ppm      | ppm       | ppm      | ppm       | ppm      | ppm      | ppm    |
| Avg    | k .05424 | k -.04506 | k 1.2995 | k -.05766 | k .01970 | k 121.08 | 3.8980 |
| Stddev | .00288   | .00328    | .0019    | .00306    | .00175   | .81      | .0221  |
| %RSD   | 5.3019   | 7.2799    | .14227   | 5.3089    | 8.8832   | .66554   | .56567 |

|    |          |           |          |           |          |          |        |
|----|----------|-----------|----------|-----------|----------|----------|--------|
| #1 | k .05263 | k -.04635 | k 1.3000 | k -.05641 | k .02054 | k 120.32 | 3.8788 |
| #2 | k .05756 | k -.04749 | k 1.3011 | k -.05542 | k .02087 | k 121.93 | 3.9221 |
| #3 | k .05252 | k -.04133 | k 1.2975 | k -.06115 | k .01769 | k 121.00 | 3.8931 |

|        |        |          |         |          |          |          |          |
|--------|--------|----------|---------|----------|----------|----------|----------|
| Elem   | Be2348 | Cd2265   | Ca3736  | Cr2677   | Co2286   | Cu2247   | Fe2404   |
| Units  | ppm    | ppm      | ppm     | ppm      | ppm      | ppm      | ppm      |
| Avg    | .00937 | k .02220 | ^ ***** | k .19890 | F 5.9392 | k .22835 | k 95.752 |
| Stddev | .00023 | .00022   | -----   | .00061   | .0158    | .00052   | .691     |
| %RSD   | 2.4658 | .97997   | -----   | .30620   | .26602   | .22831   | .72132   |

|    |        |          |         |          |        |          |          |
|----|--------|----------|---------|----------|--------|----------|----------|
| #1 | .00910 | k .02227 | ^ ----- | k .19820 | 5.9528 | k .22845 | k 95.049 |
| #2 | .00951 | k .02196 | ^ ----- | k .19918 | 5.9429 | k .22778 | k 95.776 |
| #3 | .00950 | k .02238 | ^ ----- | k .19932 | 5.9219 | k .22881 | k 96.430 |

|        |        |        |          |           |        |          |          |
|--------|--------|--------|----------|-----------|--------|----------|----------|
| Elem   | Mn2576 | Mg2790 | Ni2316   | Ag3280    | Na5895 | V_2924   | Zn2138   |
| Units  | ppm    | ppm    | ppm      | ppm       | ppm    | ppm      | ppm      |
| Avg    | 2.9538 | 1573.3 | k .39111 | k -.03324 | 61.745 | k .78802 | k 4.2192 |
| Stddev | .0049  | 9.7    | .00021   | .00101    | .326   | .00234   | .0117    |
| %RSD   | .16708 | .61810 | .05352   | 3.0410    | .52827 | .29757   | .27670   |

|    |        |        |          |           |        |          |          |
|----|--------|--------|----------|-----------|--------|----------|----------|
| #1 | 2.9513 | 1564.2 | k .39092 | k -.03350 | 61.495 | k .79072 | k 4.2290 |
| #2 | 2.9506 | 1583.6 | k .39133 | k -.03213 | 62.114 | k .78649 | k 4.2224 |
| #3 | 2.9595 | 1572.3 | k .39108 | k -.03410 | 61.625 | k .78686 | k 4.2063 |

|        |        |        |          |           |          |          |        |
|--------|--------|--------|----------|-----------|----------|----------|--------|
| Elem   | K_7664 | Mo2020 | B_2496   | S_1820    | Si2881   | Sn1899   | Ti3361 |
| Units  | ppm    | ppm    | ppm      | ppm       | ppm      | ppm      | ppm    |
| Avg    | 15.531 | .00718 | k .73290 | kF 306.02 | k 6.1966 | k .04912 | 5.7847 |
| Stddev | .155   | .00017 | .01267   | .95       | .0595    | .00198   | .0546  |
| %RSD   | 1.0002 | 2.3258 | 1.7292   | .30883    | .95995   | 4.0355   | .94405 |

|    |        |        |          |          |          |          |        |
|----|--------|--------|----------|----------|----------|----------|--------|
| #1 | 15.444 | .00708 | k .72564 | k 306.82 | k 6.2595 | k .04888 | 5.7477 |
| #2 | 15.710 | .00709 | k .72553 | k 306.26 | k 6.1413 | k .05122 | 5.7589 |
| #3 | 15.438 | .00737 | k .74754 | k 304.97 | k 6.1889 | k .04728 | 5.8474 |

Sample Name: K3250-04      Acquired: 6/7/2019 17:30:37      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LBP-2-WHITE-      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |          |        |        |
|--------|--------|---------|----------|--------|--------|
| Elem   | Li6707 | P_1774  | Sr4077   | U_3670 | U_3859 |
| Units  | ppm    | ppm     | ppm      | ppm    | ppm    |
| Avg    | .08866 | k 3.709 | k 1.5645 | 8.8643 | 51.630 |
| Stddev | .00208 | .008    | .0054    | .1177  | 1.605  |
| %RSD   | 2.3481 | .2231   | .34802   | 1.3279 | 3.1077 |

|    |        |         |          |        |        |
|----|--------|---------|----------|--------|--------|
| #1 | .09042 | k 3.703 | k 1.5659 | 8.9911 | 53.177 |
| #2 | .08920 | k 3.718 | k 1.5585 | 8.8432 | 49.974 |
| #3 | .08636 | k 3.706 | k 1.5691 | 8.7585 | 51.738 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2536.6 | 35749. | 4119.0 | 46.655 | 2207.3 |
| Stddev    | 13.6   | 54.    | 46.2   | 1.080  | 8.9    |
| %RSD      | .53727 | .15119 | 1.1208 | 2.3142 | .40247 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2520.9 | 35690. | 4085.2 | 45.570 | 2197.3 |
| #2 | 2545.4 | 35796. | 4171.6 | 47.730 | 2210.4 |
| #3 | 2543.5 | 35760. | 4100.2 | 46.665 | 2214.2 |

Sample Name: K3250-05      Acquired: 6/7/2019 17:34:58      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LBP-3-GRAY-P      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |        |         |        |        |        |        |
|--------|----------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .10034   | .01948  | 4.0383 | -.00380 | .01268 | 198.02 | 1.0110 | .01130 |
| Stddev | .00411   | .00094  | .0113  | .00387  | .00243 | 1.30   | .0063  | .00016 |
| %RSD   | 4.0936   | 4.8163  | .27961 | 101.92  | 19.192 | .65750 | .62679 | 1.4007 |
| #1     | .10483   | .02056  | 4.0326 | -.00791 | .01513 | 196.69 | 1.0040 | .01128 |
| #2     | .09676   | .01902  | 4.0310 | -.00022 | .01026 | 198.07 | 1.0125 | .01147 |
| #3     | .09943   | .01886  | 4.0513 | -.00328 | .01265 | 199.30 | 1.0164 | .01115 |
| Elem   | Cd2265   | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .01253   | 765.36  | .25195 | 1.1501  | 1.5192 | 139.08 | 3.1404 | 425.72 |
| Stddev | .00016   | .79     | .00209 | .0025   | .0059  | .29    | .0053  | .97    |
| %RSD   | 1.2546   | .10346  | .83091 | .22125  | .38710 | .21018 | .16783 | .22775 |
| #1     | .01267   | 766.22  | .25093 | 1.1483  | 1.5148 | 139.33 | 3.1374 | 424.77 |
| #2     | .01256   | 765.21  | .25436 | 1.1490  | 1.5170 | 138.76 | 3.1465 | 425.68 |
| #3     | .01236   | 764.66  | .25057 | 1.1530  | 1.5259 | 139.15 | 3.1374 | 426.71 |
| Elem   | Ni2316   | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.5172   | -.01853 | 46.770 | 2.9601  | 6.4368 | 50.644 | .02711 | .33475 |
| Stddev | .0053    | .00021  | .298   | .0043   | .0278  | .269   | .00077 | .01560 |
| %RSD   | .34863   | 1.1233  | .63766 | .14435  | .43136 | .53125 | 2.8491 | 4.6611 |
| #1     | 1.5180   | -.01876 | 46.441 | 2.9564  | 6.4089 | 50.350 | .02653 | .31694 |
| #2     | 1.5116   | -.01835 | 46.845 | 2.9648  | 6.4372 | 50.706 | .02680 | .34600 |
| #3     | 1.5221   | -.01849 | 47.023 | 2.9592  | 6.4644 | 50.877 | .02798 | .34131 |
| Elem   | S_1820   | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 281.73 | 1.7102  | .04425 | 4.2996  | .35698 | 9.445  | 2.2423 | 7.5281 |
| Stddev | 1.20     | .0205   | .00217 | .0418   | .00260 | .031   | .0091  | .0827  |
| %RSD   | .42436   | 1.1984  | 4.9001 | .97286  | .72706 | .3320  | .40573 | 1.0981 |
| #1     | 280.43   | 1.7232  | .04676 | 4.3367  | .35415 | 9.422  | 2.2446 | 7.4429 |
| #2     | 281.97   | 1.7208  | .04305 | 4.3078  | .35752 | 9.433  | 2.2500 | 7.5335 |
| #3     | 282.78   | 1.6866  | .04296 | 4.2542  | .35926 | 9.481  | 2.2323 | 7.6079 |

Sample Name: K3250-05      Acquired: 6/7/2019 17:34:58      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: LBP-3-GRAY-P      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 98.200 |
| Stddev | .508     |
| %RSD   | .51755   |

|    |        |
|----|--------|
| #1 | 98.639 |
| #2 | 97.643 |
| #3 | 98.318 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2921.9 | 41909. | 4492.4 | 49.939 | 2575.2 |
| Stddev    | 8.5    | 33.    | 40.7   | 1.149  | 7.8    |
| %RSD      | .28974 | .07913 | .90585 | 2.3008 | .30176 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2928.1 | 41871. | 4452.0 | 50.292 | 2581.3 |
| #2 | 2925.4 | 41935. | 4491.6 | 48.655 | 2577.8 |
| #3 | 2912.3 | 41920. | 4533.4 | 50.870 | 2566.4 |

Sample Name: K3250-06      Acquired: 6/7/2019 17:39:33      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LBP-4-GRAY-P      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |         |         |         |        |        |        |
|--------|----------|---------|---------|---------|---------|--------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .02582   | .01090  | .33085  | -.00164 | -.00134 | 7.3855 | .73041 | .00158 |
| Stddev | .00292   | .00109  | .00370  | .00255  | .00195  | .0901  | .00646 | .00007 |
| %RSD   | 11.299   | 10.007  | 1.1184  | 155.92  | 145.43  | 1.2197 | .88489 | 4.4314 |
| #1     | .02304   | .01168  | .32836  | -.00427 | .00090  | 7.3384 | .72420 | .00166 |
| #2     | .02556   | .00966  | .32909  | .00082  | -.00223 | 7.4894 | .73710 | .00155 |
| #3     | .02885   | .01137  | .33510  | -.00146 | -.00268 | 7.3288 | .72992 | .00153 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .04512   | 338.06  | .02527  | 1.3977  | .13596  | 22.315 | .56009 | 66.986 |
| Stddev | .00062   | 1.27    | .00064  | .0113   | .00205  | .036   | .00026 | .554   |
| %RSD   | 1.3704   | .37713  | 2.5374  | .80899  | 1.5066  | .16085 | .04720 | .82737 |
| #1     | .04463   | 337.79  | .02463  | 1.3997  | .13444  | 22.280 | .56031 | 66.352 |
| #2     | .04490   | 336.94  | .02528  | 1.3855  | .13514  | 22.313 | .55979 | 67.376 |
| #3     | .04581   | 339.45  | .02591  | 1.4079  | .13829  | 22.352 | .56016 | 67.231 |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .24812   | -.00341 | 8.6778  | 1.1360  | 1.0952  | 2.4763 | .00207 | .12911 |
| Stddev | .00317   | .00051  | .0867   | .0004   | .0087   | .0594  | .00022 | .00481 |
| %RSD   | 1.2758   | 14.858  | .99872  | .03769  | .79540  | 2.3978 | 10.634 | 3.7292 |
| #1     | .24710   | -.00397 | 8.6066  | 1.1365  | 1.0991  | 2.4088 | .00182 | .12960 |
| #2     | .24559   | -.00329 | 8.7743  | 1.1359  | 1.0852  | 2.5207 | .00215 | .12406 |
| #3     | .25167   | -.00298 | 8.6526  | 1.1357  | 1.1013  | 2.4992 | .00224 | .13365 |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | F 42.426 | 1.5124  | -.00612 | .13501  | .00638  | .7030  | .38146 | 7.2427 |
| Stddev | .360     | .0278   | .00085  | .00176  | .00038  | .0118  | .00195 | .2139  |
| %RSD   | .84807   | 1.8365  | 13.941  | 1.3063  | 5.9190  | 1.675  | .51058 | 2.9539 |
| #1     | 42.489   | 1.5429  | -.00514 | .13618  | .00680  | .6946  | .38360 | 7.2963 |
| #2     | 42.039   | 1.4885  | -.00671 | .13298  | .00626  | .6979  | .38101 | 7.4247 |
| #3     | 42.750   | 1.5058  | -.00652 | .13587  | .00607  | .7164  | .37978 | 7.0070 |

Sample Name: K3250-06      Acquired: 6/7/2019 17:39:33      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LBP-4-GRAY-P      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 14.110 |
| Stddev | 1.374  |
| %RSD   | 9.7395 |

|    |        |
|----|--------|
| #1 | 14.432 |
| #2 | 12.603 |
| #3 | 15.294 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3092.2 | 44416. | 4496.7 | 55.480 | 3044.5 |
| Stddev    | 4.3    | 157.   | 40.8   | .778   | 24.5   |
| %RSD      | .13982 | .35282 | .90832 | 1.4018 | .80623 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3095.4 | 44597. | 4454.6 | 54.583 | 3036.2 |
| #2 | 3093.9 | 44319. | 4536.1 | 55.962 | 3072.1 |
| #3 | 3087.3 | 44332. | 4499.3 | 55.896 | 3025.1 |

Sample Name: K3193-01      Acquired: 6/7/2019 17:43:54      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: P-4-OW      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |          |        |         |        |        |
|--------|----------|----------|----------|----------|--------|---------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960   | Sb2068 | Al3961  | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | .23754   | -.04071  | 6.1495   | -.13671  | .02171 | 405.17  | 5.8429 | .05455 |
| Stddev | .00132   | .00409   | .0362    | .00477   | .00074 | 2.50    | .0360  | .00021 |
| %RSD   | .55724   | 10.055   | .58881   | 3.4901   | 3.4001 | .61724  | .61527 | .38711 |
| #1     | .23821   | -.04204  | 6.1898   | -.14108  | .02174 | 403.02  | 5.8159 | .05479 |
| #2     | .23838   | -.04397  | 6.1387   | -.13743  | .02096 | 404.56  | 5.8291 | .05441 |
| #3     | .23601   | -.03611  | 6.1198   | -.13162  | .02244 | 407.91  | 5.8837 | .05445 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286   | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | .09522   | 340.73   | .89277   | .46351   | 1.4264 | 417.92  | 19.135 | 1132.4 |
| Stddev | .00126   | 3.18     | .00230   | .00144   | .0067  | 1.67    | .102   | 6.3    |
| %RSD   | 1.3234   | .93312   | .25722   | .31154   | .47224 | .40002  | .53254 | .55903 |
| #1     | .09660   | 344.03   | .89519   | .46360   | 1.4313 | 416.10  | 19.164 | 1129.5 |
| #2     | .09414   | 340.49   | .89062   | .46202   | 1.4187 | 419.38  | 19.022 | 1128.1 |
| #3     | .09490   | 337.68   | .89249   | .46491   | 1.4291 | 418.29  | 19.220 | 1139.7 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924   | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | .79377   | -.08615  | F 2273.2 | .73423   | 14.809 | 533.46  | .14903 | 4.5097 |
| Stddev | .00575   | .00025   | 54.4     | .00503   | .084   | 1.08    | .00168 | .0835  |
| %RSD   | .72397   | .29400   | 2.3946   | .68554   | .57018 | .20155  | 1.1244 | 1.8516 |
| #1     | .79990   | -.08625  | 2325.7   | .73324   | 14.905 | 533.45  | .15030 | 4.5085 |
| #2     | .78851   | -.08586  | 2277.0   | .72976   | 14.773 | 532.39  | .14713 | 4.4267 |
| #3     | .79290   | -.08634  | 2217.0   | .73968   | 14.748 | 534.54  | .14966 | 4.5937 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361   | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    |
| Avg    | F 455.33 | F 88.079 | .30709   | F 10.824 | 1.1578 | F 31.90 | 6.1409 | 4.0511 |
| Stddev | 2.10     | .829     | .00230   | .087     | .0066  | .19     | .0541  | .1401  |
| %RSD   | .46166   | .94105   | .74771   | .80163   | .56551 | .5939   | .88166 | 3.4571 |
| #1     | 457.74   | 88.706   | .30962   | 10.887   | 1.1504 | 32.10   | 6.1713 | 3.8900 |
| #2     | 454.35   | 88.392   | .30513   | 10.860   | 1.1604 | 31.88   | 6.1730 | 4.1440 |
| #3     | 453.89   | 87.139   | .30651   | 10.725   | 1.1627 | 31.73   | 6.0784 | 4.1193 |



Sample Name: K3193-01      Acquired: 6/7/2019 17:43:54      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: P-4-OW      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 576.83  
 Stddev      5.55  
 %RSD      .96301

#1      571.88  
 #2      575.77  
 #3      582.84

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3059.7 | 43655. | 5481.5 | 42.976 | 1643.1 |
| Stddev    | 15.1   | 193.   | 97.1   | .775   | 11.9   |
| %RSD      | .49275 | .44281 | 1.7721 | 1.8030 | .72320 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3044.9 | 43433. | 5400.9 | 42.347 | 1629.5 |
| #2 | 3075.0 | 43746. | 5454.2 | 42.739 | 1648.3 |
| #3 | 3059.1 | 43785. | 5589.4 | 43.841 | 1651.4 |

Sample Name: K3193-02      Acquired: 6/7/2019 17:48:44      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: P-1-OW      Custom ID2:      Custom ID3:  
 Comment:

|        |          |          |          |         |        |         |        |        |
|--------|----------|----------|----------|---------|--------|---------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960  | Sb2068 | Al3961  | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .02743   | -.00869  | 17.728   | -.01592 | .01531 | 117.37  | 2.5470 | .01027 |
| Stddev | .00568   | .00241   | .039     | .00431  | .00302 | .76     | .0149  | .00015 |
| %RSD   | 20.695   | 27.721   | .21969   | 27.058  | 19.741 | .65156  | .58333 | 1.5053 |
| #1     | .03328   | -.01146  | 17.764   | -.01838 | .01303 | 116.51  | 2.5317 | .01014 |
| #2     | .02705   | -.00743  | 17.733   | -.01842 | .01874 | 117.59  | 2.5479 | .01044 |
| #3     | .02195   | -.00717  | 17.687   | -.01094 | .01416 | 118.00  | 2.5614 | .01022 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00246   | 329.35   | .22291   | .08029  | .17701 | 151.29  | 5.9748 | 1243.9 |
| Stddev | .00025   | 1.47     | .00316   | .00076  | .00046 | .46     | .0197  | 8.1    |
| %RSD   | 10.132   | .44540   | 1.4186   | .94788  | .25795 | .30215  | .33031 | .65329 |
| #1     | .00235   | 330.72   | .22147   | .07959  | .17726 | 151.33  | 5.9613 | 1236.2 |
| #2     | .00275   | 329.53   | .22073   | .08110  | .17728 | 150.81  | 5.9655 | 1243.2 |
| #3     | .00229   | 327.80   | .22654   | .08018  | .17648 | 151.72  | 5.9974 | 1252.4 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924  | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .11918   | -.02046  | F 2693.7 | .19886  | 1.6190 | 582.20  | .03256 | 5.7737 |
| Stddev | .00207   | .00032   | 41.9     | .00260  | .0060  | 3.86    | .00026 | .0071  |
| %RSD   | 1.7393   | 1.5726   | 1.5560   | 1.3095  | .37286 | .66376  | .80174 | .12310 |
| #1     | .12157   | -.02068  | 2742.1   | .19961  | 1.6238 | 578.77  | .03270 | 5.7721 |
| #2     | .11795   | -.02009  | 2668.0   | .19596  | 1.6210 | 581.45  | .03273 | 5.7815 |
| #3     | .11801   | -.02062  | 2671.1   | .20101  | 1.6122 | 586.39  | .03226 | 5.7676 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361  | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | F 102.23 | F 91.461 | .05880   | 4.9564  | .52332 | F 15.79 | 8.0293 | 13.199 |
| Stddev | .65      | 1.103    | .00402   | .0137   | .00463 | .04     | .0541  | .095   |
| %RSD   | .64013   | 1.2054   | 6.8342   | .27533  | .88530 | .2770   | .67404 | .72225 |
| #1     | 102.79   | 92.544   | .05622   | 4.9716  | .51871 | 15.84   | 8.0812 | 13.258 |
| #2     | 102.40   | 91.499   | .05674   | 4.9521  | .52328 | 15.77   | 8.0335 | 13.250 |
| #3     | 101.51   | 90.340   | .06343   | 4.9453  | .52797 | 15.75   | 7.9732 | 13.089 |

Sample Name: K3193-02      Acquired: 6/7/2019 17:48:44      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: P-1-OW      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 86.776 |
| Stddev | 1.164  |
| %RSD   | 1.3413 |

|    |        |
|----|--------|
| #1 | 85.699 |
| #2 | 88.011 |
| #3 | 86.618 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2331.7 | 32589. | 4060.9 | 45.605 | 1857.4 |
| Stddev    | 21.0   | 88.    | 52.5   | .926   | 11.0   |
| %RSD      | .89868 | .27149 | 1.2923 | 2.0296 | .59099 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2315.4 | 32536. | 4004.6 | 44.544 | 1849.9 |
| #2 | 2324.2 | 32692. | 4069.6 | 46.248 | 1852.3 |
| #3 | 2355.3 | 32541. | 4108.4 | 46.024 | 1870.0 |

Sample Name: K3221-02      Acquired: 6/7/2019 17:53:20      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-TT-AOC22-      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00185 | .00089 | .02240 | .00111 | .00073 | .67699 | .15212 |
| Stddev | .00246 | .00078 | .00093 | .00205 | .00086 | .02130 | .00189 |
| %RSD   | 133.03 | 87.888 | 4.1324 | 183.69 | 118.03 | 3.1457 | 1.2452 |

|    |         |        |        |         |        |        |        |
|----|---------|--------|--------|---------|--------|--------|--------|
| #1 | .00464  | .00098 | .02306 | .00239  | .00007 | .65718 | .15002 |
| #2 | -.00002 | .00007 | .02135 | -.00125 | .00042 | .69952 | .15263 |
| #3 | .00093  | .00163 | .02281 | .00220  | .00170 | .67428 | .15370 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00043 | -.00032 | 34.830 | .01576 | .00454 | .02296 | 2.1124 |
| Stddev | .00008 | .00007  | .322   | .00080 | .00005 | .00048 | .0046  |
| %RSD   | 19.101 | 22.500  | .92511 | 5.0942 | .99168 | 2.1113 | .21910 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00038 | -.00037 | 35.200 | .01568 | .00458 | .02317 | 2.1131 |
| #2 | .00052 | -.00024 | 34.610 | .01500 | .00449 | .02330 | 2.1075 |
| #3 | .00038 | -.00035 | 34.681 | .01660 | .00455 | .02240 | 2.1167 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .39958 | 8.1352 | .00930 | -.00111 | 126.69 | -.00057 | .02425 |
| Stddev | .00064 | .1201  | .00013 | .00038  | 1.36   | .00014  | .00015 |
| %RSD   | .16117 | 1.4767 | 1.3997 | 34.328  | 1.0712 | 24.149  | .62476 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .39998 | 8.0097 | .00937 | -.00067 | 125.40 | -.00043 | .02417 |
| #2 | .39993 | 8.1468 | .00915 | -.00132 | 126.57 | -.00071 | .02443 |
| #3 | .39884 | 8.2491 | .00938 | -.00134 | 128.10 | -.00058 | .02416 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 4.4110 | .00165 | .04994 | 3.4464 | 5.0936 | -.00157 | .00670 |
| Stddev | .0769  | .00012 | .02024 | .0173  | .0382  | .00036  | .00158 |
| %RSD   | 1.7442 | 7.4661 | 40.529 | .50216 | .75004 | 23.272  | 23.547 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 4.3230 | .00174 | .04978 | 3.4531 | 5.1250 | -.00199 | .00658 |
| #2 | 4.4439 | .00151 | .02978 | 3.4594 | 5.0511 | -.00137 | .00519 |
| #3 | 4.4659 | .00171 | .07025 | 3.4268 | 5.1048 | -.00135 | .00833 |

Sample Name: K3221-02      Acquired: 6/7/2019 17:53:20      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: BP-TT-AOC22-      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00683 | .0295  | .38302 | 7.9708 | F<.00000 |
| Stddev | .00125 | .0009  | .00250 | .1667  | .28151   |
| %RSD   | 18.380 | 3.149  | .65282 | 2.0910 | 13.728   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .00687 | .0285 | .38378 | 7.9071 | -2.3712 |
| #2 | .00806 | .0304 | .38022 | 8.1599 | -1.8438 |
| #3 | .00555 | .0295 | .38504 | 7.8453 | -1.9369 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3182.3 | 44794. | 4411.9 | 57.910 | 3205.9 |
| Stddev    | 14.1   | 68.    | 46.2   | .496   | 13.5   |
| %RSD      | .44331 | .15222 | 1.0473 | .85674 | .42260 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3167.2 | 44720. | 4358.9 | 57.946 | 3204.2 |
| #2 | 3195.2 | 44855. | 4443.6 | 58.387 | 3193.2 |
| #3 | 3184.5 | 44806. | 4433.1 | 57.397 | 3220.2 |

Sample Name: K3221-04      Acquired: 6/7/2019 17:57:42      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00240 | .00007 | .02641 | .00032 | -.00002 | .02120 | .13636 |
| Stddev | .00345  | .00111 | .00029 | .00192 | .00113  | .01342 | .00118 |
| %RSD   | 143.84  | 1580.4 | 1.0797 | 590.82 | 6407.1  | 63.293 | .86844 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00246 | -.00121 | .02611 | .00215  | .00086  | .03483 | .13509 |
| #2 | -.00582 | .00082  | .02668 | .00049  | .00038  | .00800 | .13656 |
| #3 | .00108  | .00059  | .02646 | -.00167 | -.00129 | .02078 | .13744 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00029 | .00013 | 33.100 | .00032 | .00452 | .00240 | .07276 |
| Stddev | .00002 | .00009 | .247   | .00042 | .00019 | .00043 | .00133 |
| %RSD   | 7.9480 | 71.485 | .74653 | 132.14 | 4.2997 | 17.816 | 1.8331 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00030 | .00021 | 33.367 | .00064  | .00436 | .00190 | .07271 |
| #2 | .00026 | .00014 | 33.051 | .00046  | .00447 | .00263 | .07145 |
| #3 | .00031 | .00003 | 32.880 | -.00016 | .00473 | .00266 | .07412 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .07044 | 15.471 | .00680 | -.00127 | 126.12 | .00006 | .04563 |
| Stddev | .00015 | .137   | .00049 | .00040  | .27    | .00017 | .00021 |
| %RSD   | .21987 | .88359 | 7.1855 | 31.247  | .21537 | 289.77 | .45778 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .07044 | 15.498 | .00680 | -.00114 | 126.35 | -.00010 | .04542 |
| #2 | .07059 | 15.593 | .00729 | -.00095 | 125.82 | .00003  | .04562 |
| #3 | .07028 | 15.323 | .00631 | -.00172 | 126.20 | .00024  | .04584 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 4.1717 | -.00005 | .06569 | 3.7181 | 6.1918 | -.00307 | -.00276 |
| Stddev | .0414  | .00029  | .00638 | .0164  | .0437  | .00067  | .00221  |
| %RSD   | .99230 | 536.72  | 9.7071 | .44060 | .70607 | 21.975  | 80.023  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 4.1560 | .00017  | .05855 | 3.7022 | 6.2238 | -.00233 | -.00342 |
| #2 | 4.1405 | -.00038 | .07082 | 3.7349 | 6.2096 | -.00365 | -.00030 |
| #3 | 4.2187 | .00006  | .06770 | 3.7173 | 6.1420 | -.00322 | -.00457 |

Sample Name: K3221-04      Acquired: 6/7/2019 17:57:42      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .00067 | -.0054 | .42173 | 7.4939 | F<.00000 |
| Stddev | .00141 | .0005  | .00290 | .0416  | .39908   |
| %RSD   | 210.01 | 9.976  | .68657 | .55569 | 16.110   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00071 | -.0050 | .42449 | 7.4460 | -2.0204 |
| #2 | .00211  | -.0052 | .42199 | 7.5219 | -2.7579 |
| #3 | .00062  | -.0060 | .41872 | 7.5137 | -2.6534 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3187.3 | 44542. | 4483.4 | 57.359 | 3232.3 |
| Stddev    | 10.8   | 162.   | 44.3   | 1.800  | 22.1   |
| %RSD      | .33730 | .36406 | .98725 | 3.1388 | .68257 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3180.2 | 44355. | 4435.7 | 55.282 | 3226.2 |
| #2 | 3182.0 | 44640. | 4491.6 | 58.481 | 3214.0 |
| #3 | 3199.7 | 44632. | 4523.0 | 58.313 | 3256.8 |

Sample Name: K3221-06      Acquired: 6/7/2019 18:02:06      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00037 | .00023 | .01932 | -.00223 | -.00070 | .14463 | .12138 |
| Stddev | .00164  | .00144 | .00208 | .00246  | .00068  | .01355 | .00155 |
| %RSD   | 446.60  | 636.50 | 10.790 | 110.39  | 96.645  | 9.3707 | 1.2762 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00030  | -.00136 | .01920 | -.00275 | -.00080 | .13314 | .11967 |
| #2 | .00083  | .00057  | .02146 | .00045  | .00002  | .14117 | .12177 |
| #3 | -.00223 | .00146  | .01729 | -.00439 | -.00133 | .15958 | .12269 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00017 | .00181 | 58.922 | .02665 | .00085 | .00209 | .27809 |
| Stddev | .00004 | .00016 | .664   | .00007 | .00034 | .00032 | .00279 |
| %RSD   | 22.861 | 8.6731 | 1.1273 | .27092 | 40.266 | 15.109 | 1.0016 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00020 | .00185 | 59.398 | .02669 | .00047 | .00212 | .28131 |
| #2 | .00019 | .00195 | 59.205 | .02657 | .00112 | .00239 | .27654 |
| #3 | .00013 | .00164 | 58.163 | .02669 | .00097 | .00176 | .27643 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00160 | 15.983 | .00290 | -.00076 | 51.108 | .00095 | .01743 |
| Stddev | .00006 | .132   | .00052 | .00030  | .327   | .00018 | .00014 |
| %RSD   | 3.4954 | .82868 | 17.759 | 39.472  | .63918 | 18.959 | .82910 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00157 | 15.846 | .00331 | -.00044 | 50.749 | .00107 | .01728 |
| #2 | .00167 | 16.111 | .00232 | -.00081 | 51.188 | .00103 | .01744 |
| #3 | .00156 | 15.991 | .00308 | -.00103 | 51.388 | .00074 | .01757 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 10.962 | .00028 | .15716 | F 14.151 | 4.3024 | -.00611 | -.00185 |
| Stddev | .156   | .00038 | .01600 | .026     | .0481  | .00098  | .00120  |
| %RSD   | 1.4249 | 134.88 | 10.178 | .18399   | 1.1184 | 16.046  | 64.931  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 10.800 | .00002 | .14334 | 14.160 | 4.3471 | -.00500 | -.00246 |
| #2 | 10.972 | .00011 | .17468 | 14.171 | 4.3087 | -.00646 | -.00047 |
| #3 | 11.112 | .00072 | .15346 | 14.122 | 4.2515 | -.00686 | -.00263 |



Sample Name: K3221-06      Acquired: 6/7/2019 18:02:06      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00185 | .0054  | 2.9055 | 6.9428 | F<.00000 |
| Stddev | .00234  | .0006  | .0036  | .1475  | .29713   |
| %RSD   | 126.73  | 12.12  | .12323 | 2.1239 | 24.095   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00076 | .0056 | 2.9016 | 7.1119 | -1.1773 |
| #2 | -.00453 | .0046 | 2.9085 | 6.8410 | -1.5542 |
| #3 | -.00025 | .0058 | 2.9065 | 6.8755 | -.96790 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3221.7 | 45535. | 4480.9 | 56.727 | 3251.4 |
| Stddev    | 9.3    | 134.   | 48.5   | 1.569  | 4.7    |
| %RSD      | .29003 | .29519 | 1.0815 | 2.7652 | .14558 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3211.1 | 45387. | 4434.4 | 57.322 | 3246.0 |
| #2 | 3228.6 | 45566. | 4477.0 | 57.910 | 3254.7 |
| #3 | 3225.4 | 45650. | 4531.1 | 54.947 | 3253.5 |

Sample Name: K3221-07      Acquired: 6/7/2019 18:06:38      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00234 | -.00008 | .01691 | -.00156 | -.00037 | .20976 | .09228 |
| Stddev | .00369  | .00146  | .00098 | .00309  | .00140  | .01817 | .00114 |
| %RSD   | 157.79  | 1791.1  | 5.8128 | 198.23  | 377.21  | 8.6617 | 1.2351 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00002  | .00097  | .01751 | -.00360 | .00073  | .22208 | .09104 |
| #2 | -.00659 | -.00174 | .01744 | -.00308 | -.00195 | .18890 | .09252 |
| #3 | -.00044 | .00053  | .01577 | .00200  | .00011  | .21832 | .09328 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00010 | -.00032 | 16.064 | .04731 | .00016 | .00076 | .13418 |
| Stddev | .00004 | .00006  | .080   | .00018 | .00011 | .00015 | .00084 |
| %RSD   | 37.121 | 18.617  | .49850 | .37990 | 66.524 | 19.687 | .62496 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00013 | -.00038 | 16.151 | .04721 | .00025 | .00092 | .13350 |
| #2 | .00012 | -.00028 | 16.050 | .04720 | .00020 | .00065 | .13512 |
| #3 | .00006 | -.00028 | 15.992 | .04752 | .00004 | .00069 | .13392 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00528 | 6.5982 | .00109 | -.00077 | 101.46 | .00039 | .01646 |
| Stddev | .00014 | .0494  | .00025 | .00053  | .25    | .00022 | .00026 |
| %RSD   | 2.6827 | .74853 | 23.046 | 69.090  | .24452 | 56.950 | 1.5714 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00538 | 6.5912 | .00135 | -.00114 | 101.66 | .00040 | .01663 |
| #2 | .00535 | 6.5526 | .00086 | -.00016 | 101.18 | .00061 | .01617 |
| #3 | .00512 | 6.6507 | .00105 | -.00101 | 101.52 | .00016 | .01659 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 2.6149 | -.00029 | .04992 | 7.7820 | 4.4622 | -.00338 | .00269 |
| Stddev | .0473  | .00023  | .02194 | .0561  | .0485  | .00030  | .00300 |
| %RSD   | 1.8098 | 79.404  | 43.959 | .72132 | 1.0872 | 8.8280  | 111.39 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | 2.5721 | -.00056 | .04732 | 7.8131 | 4.5168 | -.00372 | .00066 |
| #2 | 2.6657 | -.00011 | .02939 | 7.7172 | 4.4240 | -.00316 | .00614 |
| #3 | 2.6068 | -.00022 | .07304 | 7.8158 | 4.4457 | -.00325 | .00128 |

Sample Name: K3221-07      Acquired: 6/7/2019 18:06:38      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00393 | -.0027 | .14084 | 7.4209 | F<.00000 |
| Stddev | .00299  | .0015  | .00042 | .0580  | .66332   |
| %RSD   | 76.235  | 57.33  | .30149 | .78144 | 35.960   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00519 | -.0017 | .14054 | 7.4824 | -1.6631 |
| #2 | -.00051 | -.0045 | .14132 | 7.4129 | -2.5798 |
| #3 | -.00608 | -.0018 | .14065 | 7.3673 | -1.2910 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3244.0 | 45614. | 4499.1 | 57.799 | 3295.0 |
| Stddev    | 13.0   | 227.   | 50.6   | 1.630  | 14.0   |
| %RSD      | .39965 | .49793 | 1.1249 | 2.8203 | .42414 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3238.9 | 45360. | 4440.9 | 56.873 | 3284.6 |
| #2 | 3258.8 | 45685. | 4523.2 | 56.843 | 3310.9 |
| #3 | 3234.4 | 45797. | 4533.0 | 59.681 | 3289.5 |

Sample Name: K3221-08      Acquired: 6/7/2019 18:11:03      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00083 | -.00099 | .01586 | -.00028 | -.00139 | .16776 | .02953 | .00006 |
| Stddev | .00152  | .00063  | .00074 | .00239  | .00214  | .01106 | .00059 | .00006 |
| %RSD   | 182.56  | 63.500  | 4.6564 | 843.62  | 153.99  | 6.5949 | 2.0099 | 105.46 |

|    |         |         |        |         |         |        |        |         |
|----|---------|---------|--------|---------|---------|--------|--------|---------|
| #1 | -.00034 | -.00060 | .01669 | -.00269 | -.00381 | .17419 | .02948 | .00006  |
| #2 | -.00253 | -.00172 | .01561 | -.00026 | .00028  | .15498 | .02897 | -.00000 |
| #3 | .00038  | -.00066 | .01528 | .00210  | -.00064 | .17410 | .03016 | .00013  |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00173 | 9.8528 | .00693 | .00005 | .00092 | .25462 | .00414 | 2.0958 |
| Stddev | .00008 | .0223  | .00034 | .00010 | .00025 | .00137 | .00004 | .0693  |
| %RSD   | 4.7579 | .22679 | 4.8675 | 213.47 | 27.220 | .53639 | 1.0044 | 3.3062 |

|    |        |        |        |         |        |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|--------|
| #1 | .00169 | 9.8463 | .00732 | .00012  | .00118 | .25613 | .00418 | 2.0171 |
| #2 | .00182 | 9.8777 | .00677 | .00010  | .00068 | .25348 | .00413 | 2.1223 |
| #3 | .00167 | 9.8345 | .00671 | -.00007 | .00091 | .25424 | .00410 | 2.1479 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00483 | -.00033 | 16.112 | .00062 | .03575 | 2.7450 | .00017 | .03120 |
| Stddev | .00017 | .00025  | .050   | .00035 | .00016 | .0585  | .00017 | .01073 |
| %RSD   | 3.5148 | 75.669  | .31103 | 56.158 | .44594 | 2.1309 | 100.35 | 34.399 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00469 | -.00049 | 16.163 | .00093 | .03592 | 2.7157 | .00016 | .03916 |
| #2 | .00477 | -.00046 | 16.110 | .00024 | .03573 | 2.7069 | .00001 | .03545 |
| #3 | .00502 | -.00004 | 16.063 | .00069 | .03561 | 2.8123 | .00034 | .01899 |

|        |        |        |         |        |         |        |        |        |
|--------|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 6.7239 | 4.9586 | -.00339 | .00200 | -.00297 | -.0031 | .06166 | 6.7654 |
| Stddev | .0470  | .0224  | .00076  | .00050 | .00148  | .0024  | .00007 | .0574  |
| %RSD   | .69952 | .45105 | 22.328  | 25.195 | 49.660  | 76.92  | .11250 | .84881 |

|    |        |        |         |        |         |        |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|--------|
| #1 | 6.7776 | 4.9756 | -.00345 | .00144 | -.00245 | -.0004 | .06174 | 6.7013 |
| #2 | 6.7040 | 4.9669 | -.00411 | .00242 | -.00464 | -.0043 | .06161 | 6.7827 |
| #3 | 6.6901 | 4.9332 | -.00260 | .00215 | -.00183 | -.0047 | .06163 | 6.8122 |

Sample Name: K3221-08      Acquired: 6/7/2019 18:11:03      Type: Unk  
 Method: P4-ICP2(v3186)      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      <.00000  
 Stddev      .51795  
 %RSD      52.227

#1      -.71018  
 #2      -1.5895  
 #3      -.67553

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3325.5 | 47455. | 4567.7 | 59.263 | 3484.1 |
| Stddev    | 9.4    | 145.   | 23.4   | .643   | 9.0    |
| %RSD      | .28136 | .30495 | .51233 | 1.0857 | .25883 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3320.9 | 47332. | 4556.4 | 59.312 | 3475.4 |
| #2 | 3319.4 | 47419. | 4552.0 | 58.597 | 3483.6 |
| #3 | 3336.3 | 47614. | 4594.6 | 59.881 | 3493.4 |

Sample Name: CCV06      Acquired: 6/7/2019 18:15:27      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15083      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.2124 | 4.9194 | 4.9423 | 5.1318 | 5.3412 | 10.137 | 10.111 | .25026   |
| Stddev | .0092  | .0032  | .0078  | .0090  | .0143  | .107   | .030   | .00055   |
| %RSD   | .17646 | .06521 | .15772 | .17498 | .26769 | 1.0564 | .29574 | .21891   |
| #1     | 5.2175 | 4.9223 | 4.9479 | 5.1399 | 5.3465 | 10.016 | 10.102 | .25075   |
| #2     | 5.2017 | 4.9160 | 4.9334 | 5.1221 | 5.3250 | 10.220 | 10.145 | .25037   |
| #3     | 5.2179 | 4.9199 | 4.9457 | 5.1333 | 5.3521 | 10.175 | 10.087 | .24967   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3555 | 25.261 | .91990 | 2.4845 | 1.2891 | 4.7347 | 2.4448 | 25.019   |
| Stddev | .0031  | .178   | .00107 | .0031  | .0047  | .0098  | .0004  | .288     |
| %RSD   | .13081 | .70527 | .11668 | .12583 | .36540 | .20812 | .01774 | 1.1510   |
| #1     | 2.3577 | 25.461 | .92112 | 2.4881 | 1.2891 | 4.7256 | 2.4448 | 24.759   |
| #2     | 2.3519 | 25.121 | .91946 | 2.4825 | 1.2844 | 4.7452 | 2.4443 | 25.329   |
| #3     | 2.3568 | 25.199 | .91911 | 2.4829 | 1.2938 | 4.7333 | 2.4452 | 24.970   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3634 | 1.1994 | 23.539 | 2.5795 | 2.5600 | 24.533 | 5.3255 | 4.8997   |
| Stddev | .0022  | .0034  | .083   | .0030  | .0043  | .136   | .0079  | .0614    |
| %RSD   | .09215 | .27954 | .35456 | .11497 | .16895 | .55258 | .14812 | 1.2528   |
| #1     | 2.3655 | 1.1985 | 23.562 | 2.5762 | 2.5648 | 24.452 | 5.3221 | 4.8552   |
| #2     | 2.3635 | 1.2031 | 23.608 | 2.5804 | 2.5564 | 24.689 | 5.3198 | 4.9697   |
| #3     | 2.3612 | 1.1966 | 23.446 | 2.5819 | 2.5587 | 24.457 | 5.3345 | 4.8741   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.2284 | 5.3609 | 4.7830 | 4.8500 | 4.5964 | 4.957  | 4.9327 | F 7.7722 |
| Stddev | .0093  | .0309  | .0102  | .0017  | .0338  | .014   | .0200  | .1133    |
| %RSD   | .17834 | .57654 | .21311 | .03478 | .73568 | .2748  | .40542 | 1.4583   |
| #1     | 5.2226 | 5.3964 | 4.7866 | 4.8485 | 4.6328 | 4.965  | 4.9546 | 7.6729   |
| #2     | 5.2234 | 5.3397 | 4.7715 | 4.8518 | 4.5904 | 4.964  | 4.9282 | 7.7480   |
| #3     | 5.2391 | 5.3467 | 4.7909 | 4.8497 | 4.5660 | 4.941  | 4.9153 | 7.8957   |

Sample Name: CCV06      Acquired: 6/7/2019 18:15:27      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV15083      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 1.9785 |
| Stddev | .6941    |
| %RSD   | 35.083   |

|    |        |
|----|--------|
| #1 | 2.6369 |
| #2 | 1.2535 |
| #3 | 2.0451 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3287.0 | 46575. | 4601.3 | 57.741 | 3227.6 |
| Stddev    | 5.6    | 212.   | 40.9   | 1.875  | 6.2    |
| %RSD      | .16956 | .45540 | .88983 | 3.2466 | .19296 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3284.5 | 46497. | 4556.6 | 56.300 | 3220.4 |
| #2 | 3293.4 | 46414. | 4610.4 | 59.861 | 3231.2 |
| #3 | 3283.1 | 46816. | 4637.0 | 57.063 | 3231.2 |

Sample Name: CCB06      Acquired: 6/7/2019 18:19:25      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15083      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |         |         |        |         |        |
|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | As1890  | Tl1908 | Pb2203  | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.00315 | .00024 | -.00060 | -.00127 | .00074 | -.02857 | .00299 |
| Stddev | .00009  | .00036 | .00081  | .00277  | .00042 | .00559  | .00056 |
| %RSD   | 2.8082  | 150.14 | 136.01  | 217.83  | 56.507 | 19.565  | 18.695 |

|    |         |         |         |         |        |         |        |
|----|---------|---------|---------|---------|--------|---------|--------|
| #1 | -.00320 | .00013  | -.00129 | -.00272 | .00027 | -.02751 | .00316 |
| #2 | -.00305 | -.00005 | -.00080 | -.00302 | .00107 | -.03462 | .00344 |
| #3 | -.00321 | .00065  | .00030  | .00192  | .00087 | -.02359 | .00236 |

|        |        |         |         |         |        |        |        |
|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736  | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00008 | -.00002 | -.00018 | -.00041 | .00005 | .00036 | .00006 |
| Stddev | .00005 | .00007  | .00050  | .00047  | .00012 | .00015 | .00044 |
| %RSD   | 67.626 | 283.53  | 276.00  | 113.25  | 226.41 | 41.302 | 695.20 |

|    |        |         |         |         |         |        |         |
|----|--------|---------|---------|---------|---------|--------|---------|
| #1 | .00014 | -.00010 | .00038  | -.00012 | .00002  | .00053 | -.00035 |
| #2 | .00005 | .00003  | -.00058 | -.00095 | -.00005 | .00031 | .00052  |
| #3 | .00004 | .00000  | -.00036 | -.00017 | .00019  | .00024 | .00002  |

|        |        |         |        |         |        |        |         |
|--------|--------|---------|--------|---------|--------|--------|---------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00004 | -.01159 | .00048 | -.00004 | .14360 | .00003 | -.00007 |
| Stddev | .00006 | .04923  | .00043 | .00005  | .01970 | .00015 | .00004  |
| %RSD   | 133.43 | 424.65  | 89.895 | 134.98  | 13.719 | 554.52 | 67.850  |

|    |         |         |        |         |        |         |         |
|----|---------|---------|--------|---------|--------|---------|---------|
| #1 | .00007  | -.03291 | .00091 | -.00010 | .12459 | .00004  | -.00003 |
| #2 | .00008  | .04471  | .00049 | .00000  | .14228 | -.00013 | -.00012 |
| #3 | -.00002 | -.04658 | .00005 | -.00002 | .16392 | .00017  | -.00005 |

|        |         |        |        |          |        |         |         |
|--------|---------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | -.02937 | .00068 | .01018 | F .01332 | .01771 | -.00068 | -.00051 |
| Stddev | .02457  | .00006 | .01489 | .00221   | .00288 | .00040  | .00100  |
| %RSD   | 83.659  | 8.6153 | 146.25 | 16.617   | 16.238 | 58.406  | 197.16  |

|    |         |        |         |        |        |         |         |
|----|---------|--------|---------|--------|--------|---------|---------|
| #1 | -.00320 | .00068 | .02016  | .01585 | .02032 | -.00043 | .00041  |
| #2 | -.05195 | .00074 | .01732  | .01237 | .01463 | -.00114 | -.00037 |
| #3 | -.03296 | .00062 | -.00694 | .01174 | .01818 | -.00048 | -.00157 |



Sample Name: CCB06      Acquired: 6/7/2019 18:19:25      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15083      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |          |          |
|--------|---------|--------|--------|----------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg    | -.00341 | -.0066 | .00014 | F 6.1620 | F<.00000 |
| Stddev | .00070  | .0019  | .00013 | .1926    | .24923   |
| %RSD   | 20.425  | 28.95  | 90.251 | 3.1250   | 61.110   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00344 | -.0045 | .00027 | 6.3807 | -.37548 |
| #2 | -.00270 | -.0083 | .00014 | 6.0876 | -.67166 |
| #3 | -.00409 | -.0070 | .00001 | 6.0177 | -.17636 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3432.2 | 48828. | 4641.9 | 60.748 | 3587.2 |
| Stddev    | 7.4    | 83.    | 22.6   | 2.225  | 4.7    |
| %RSD      | .21678 | .17005 | .48642 | 3.6620 | .12979 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3425.2 | 48735. | 4645.8 | 59.220 | 3582.0 |
| #2 | 3431.4 | 48893. | 4662.3 | 63.300 | 3588.6 |
| #3 | 3440.0 | 48856. | 4617.6 | 59.723 | 3591.0 |

Sample Name: K3221-09      Acquired: 6/7/2019 18:23:53      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-DUP02-201      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |         |         |        |        |
|--------|---------|--------|--------|---------|---------|--------|--------|
| Elem   | As1890  | Tl1908 | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | -.00184 | .00089 | .02638 | -.00042 | -.00005 | .03159 | .14653 |
| Stddev | .00254  | .00218 | .00075 | .00105  | .00120  | .01270 | .00067 |
| %RSD   | 137.94  | 244.01 | 2.8428 | 247.66  | 2408.3  | 40.200 | .45490 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00341 | .00214  | .02563 | -.00005 | .00090  | .03891 | .14644 |
| #2 | .00109  | .00215  | .02713 | .00039  | -.00140 | .01693 | .14723 |
| #3 | -.00319 | -.00162 | .02638 | -.00161 | .00035  | .03894 | .14591 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00030 | .00013 | 36.176 | .00047 | .00491 | .00232 | .09303 |
| Stddev | .00005 | .00006 | .159   | .00027 | .00015 | .00067 | .00113 |
| %RSD   | 17.642 | 50.218 | .44004 | 58.150 | 2.9568 | 28.928 | 1.2145 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00036 | .00010 | 36.030 | .00025 | .00482 | .00238 | .09173 |
| #2 | .00029 | .00008 | 36.152 | .00039 | .00483 | .00295 | .09379 |
| #3 | .00026 | .00020 | 36.346 | .00077 | .00508 | .00161 | .09356 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .07650 | 16.623 | .00717 | -.00083 | 143.96 | -.00004 | .05132 |
| Stddev | .00034 | .118   | .00038 | .00030  | .20    | .00009  | .00018 |
| %RSD   | .44451 | .70769 | 5.3572 | 36.151  | .13830 | 211.43  | .35212 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .07672 | 16.582 | .00760 | -.00114 | 143.77 | .00002  | .05152 |
| #2 | .07611 | 16.756 | .00701 | -.00054 | 144.17 | -.00001 | .05121 |
| #3 | .07668 | 16.532 | .00688 | -.00081 | 143.94 | -.00014 | .05121 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 4.2086 | -.00008 | .05893 | 3.9991 | 6.8311 | -.00131 | -.00500 |
| Stddev | .0218  | .00004  | .00850 | .0199  | .0298  | .00079  | .00231  |
| %RSD   | .51771 | 55.959  | 14.415 | .49824 | .43616 | 60.177  | 46.224  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 4.2324 | -.00003 | .04929 | 4.0221 | 6.8356 | -.00220 | -.00414 |
| #2 | 4.1897 | -.00009 | .06218 | 3.9874 | 6.7993 | -.00102 | -.00324 |
| #3 | 4.2035 | -.00011 | .06532 | 3.9878 | 6.8584 | -.00071 | -.00762 |

Sample Name: K3221-09      Acquired: 6/7/2019 18:23:53      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: BP-DUP02-201      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00231 | -.0064 | .46095 | 8.4170 | F<.00000 |
| Stddev | .00119  | .0027  | .00210 | .1376  | .65110   |
| %RSD   | 51.496  | 43.03  | .45517 | 1.6349 | 17.366   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00199 | -.0034 | .45859 | 8.5188 | -4.2119 |
| #2 | -.00363 | -.0069 | .46170 | 8.4718 | -3.0048 |
| #3 | -.00131 | -.0088 | .46258 | 8.2605 | -4.0313 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3184.0 | 44932. | 4477.4 | 57.457 | 3221.1 |
| Stddev    | 2.5    | 69.    | 8.7    | 1.671  | 9.6    |
| %RSD      | .07839 | .15293 | .19450 | 2.9086 | .29763 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3185.7 | 44853. | 4474.0 | 56.059 | 3211.5 |
| #2 | 3181.2 | 44974. | 4487.3 | 57.004 | 3221.0 |
| #3 | 3185.3 | 44970. | 4470.9 | 59.308 | 3230.7 |

Sample Name: K3221-11      Acquired: 6/7/2019 18:28:18      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00145 | -.00029 | .02357 | .00015 | .00088 | 2.8414 | .05702 |
| Stddev | .00027  | .00036  | .00081 | .00224 | .00066 | .0667  | .00105 |
| %RSD   | 18.991  | 124.52  | 3.4344 | 1492.3 | 74.727 | 2.3480 | 1.8347 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | -.00113 | -.00060 | .02327 | -.00185 | .00142 | 2.8404 | .05720 |
| #2 | -.00155 | -.00037 | .02449 | .00257  | .00015 | 2.9087 | .05795 |
| #3 | -.00165 | .00010  | .02296 | -.00028 | .00108 | 2.7753 | .05589 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00017 | -.00027 | 16.904 | .04774 | .00043 | .00556 | .40207 |
| Stddev | .00006 | .00006  | .132   | .00049 | .00021 | .00008 | .00190 |
| %RSD   | 36.484 | 23.140  | .77974 | 1.0183 | 48.946 | 1.4694 | .47231 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00014 | -.00021 | 16.882 | .04798 | .00020 | .00561 | .40296 |
| #2 | .00012 | -.00026 | 16.784 | .04806 | .00061 | .00560 | .39988 |
| #3 | .00024 | -.00033 | 17.045 | .04718 | .00047 | .00546 | .40335 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00620 | 6.8170 | .00103 | -.00090 | 120.80 | .00236 | .06265 |
| Stddev | .00008 | .1301  | .00048 | .00026  | .45    | .00044 | .00039 |
| %RSD   | 1.2499 | 1.9084 | 46.637 | 29.327  | .36856 | 18.459 | .61664 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00612 | 6.7393 | .00077 | -.00075 | 120.56 | .00200 | .06236 |
| #2 | .00621 | 6.9672 | .00159 | -.00120 | 121.32 | .00223 | .06250 |
| #3 | .00627 | 6.7445 | .00074 | -.00074 | 120.53 | .00284 | .06309 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 3.3276 | -.00000 | .05472 | 7.8946 | 6.1326 | -.00273 | .06669 |
| Stddev | .0248  | .00014  | .00754 | .0463  | .0478  | .00144  | .00544 |
| %RSD   | .74438 | 3846.3  | 13.780 | .58634 | .78033 | 52.964  | 8.1546 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | 3.3006 | .00015  | .04631 | 7.8697 | 6.0779 | -.00439 | .06474 |
| #2 | 3.3329 | -.00003 | .06088 | 7.8660 | 6.1529 | -.00203 | .07284 |
| #3 | 3.3493 | -.00012 | .05697 | 7.9480 | 6.1669 | -.00176 | .06250 |

Sample Name: K3221-11      Acquired: 6/7/2019 18:28:18      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00183 | .0028  | .14802 | 8.0873 | F<.00000 |
| Stddev | .00223  | .0015  | .00031 | .1536  | .88246   |
| %RSD   | 121.45  | 52.63  | .20657 | 1.8988 | 34.048   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | .00025  | .0045 | .14768 | 7.9386 | -2.1850 |
| #2 | -.00156 | .0019 | .14811 | 8.0780 | -3.6043 |
| #3 | -.00418 | .0020 | .14828 | 8.2453 | -1.9861 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3221.7 | 45670. | 4539.7 | 58.278 | 3281.4 |
| Stddev    | 4.6    | 89.    | 29.8   | 1.596  | 17.2   |
| %RSD      | .14164 | .19536 | .65539 | 2.7393 | .52341 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3219.3 | 45590. | 4527.5 | 58.352 | 3283.9 |
| #2 | 3218.8 | 45654. | 4573.6 | 59.836 | 3297.2 |
| #3 | 3226.9 | 45766. | 4518.0 | 56.646 | 3263.1 |

Sample Name: K3221-13      Acquired: 6/7/2019 18:32:41      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00274 | -.00092 | .01147 | -.00066 | -.00096 | .03223 | .04691 |
| Stddev | .00302  | .00056  | .00031 | .00149  | .00154  | .00601 | .00061 |
| %RSD   | 110.24  | 60.713  | 2.7053 | 228.13  | 161.71  | 18.662 | 1.3067 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00448 | -.00028 | .01128 | .00105  | -.00134 | .03892 | .04621 |
| #2 | .00075  | -.00124 | .01183 | -.00127 | .00074  | .02728 | .04726 |
| #3 | -.00448 | -.00126 | .01131 | -.00175 | -.00227 | .03048 | .04727 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00010 | .00358 | 14.245 | .00894 | .00033 | .00168 | .03714 |
| Stddev | .00003 | .00005 | .134   | .00005 | .00018 | .00036 | .00113 |
| %RSD   | 28.179 | 1.2836 | .94213 | .57791 | 55.085 | 21.483 | 3.0427 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00013 | .00355 | 14.375 | .00894 | .00040 | .00127 | .03618 |
| #2 | .00007 | .00363 | 14.107 | .00899 | .00012 | .00186 | .03839 |
| #3 | .00009 | .00355 | 14.252 | .00889 | .00046 | .00192 | .03686 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00111 | 3.8725 | .00114 | .00008 | 96.662 | .00040 | .02913 |
| Stddev | .00007 | .0900  | .00050 | .00083 | .381   | .00027 | .00019 |
| %RSD   | 6.5649 | 2.3240 | 43.737 | 1059.0 | .39420 | 68.191 | .65107 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00108 | 3.8352 | .00066 | .00006  | 96.257 | .00041 | .02904 |
| #2 | .00119 | 3.9751 | .00111 | -.00075 | 97.014 | .00068 | .02899 |
| #3 | .00106 | 3.8071 | .00166 | .00092  | 96.714 | .00013 | .02934 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.4596 | -.00009 | .02731 | 2.1983 | 3.1127 | -.00207 | -.00202 |
| Stddev | .0369  | .00038  | .01552 | .0148  | .0422  | .00016  | .00125  |
| %RSD   | 2.5296 | 408.27  | 56.828 | .67389 | 1.3549 | 7.9565  | 62.185  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 1.4186 | -.00050 | .03754 | 2.2043 | 3.1394 | -.00215 | -.00089 |
| #2 | 1.4903 | .00024  | .00945 | 2.1814 | 3.0641 | -.00188 | -.00179 |
| #3 | 1.4699 | -.00002 | .03494 | 2.2092 | 3.1347 | -.00218 | -.00337 |

Sample Name: K3221-13      Acquired: 6/7/2019 18:32:41      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00365 | -.0019 | .07895 | 7.8738 | F<.00000 |
| Stddev    | .00328  | .0015  | .00021 | .1585  | .94185   |
| %RSD      | 89.916  | 77.68  | .26047 | 2.0123 | 35.973   |
| #1        | -.00661 | -.0035 | .07874 | 7.7095 | -1.7368  |
| #2        | -.00422 | -.0014 | .07915 | 7.8863 | -2.5072  |
| #3        | -.00012 | -.0007 | .07895 | 8.0257 | -3.6107  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3231.5  | 45835. | 4510.4 | 58.964 | 3297.0   |
| Stddev    | 1.5     | 92.    | 46.7   | .502   | 6.8      |
| %RSD      | .04579  | .20050 | 1.0362 | .85217 | .20515   |
| #1        | 3232.6  | 45774. | 4458.1 | 58.572 | 3291.0   |
| #2        | 3229.8  | 45791. | 4548.1 | 58.790 | 3304.3   |
| #3        | 3231.9  | 45941. | 4525.1 | 59.531 | 3295.8   |

Sample Name: K3221-14      Acquired: 6/7/2019 18:37:08      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00455 | -.00015 | .01209 | -.00096 | -.00100 | .00005 | .02605 |
| Stddev | .00172  | .00049  | .00083 | .00308  | .00176  | .00693 | .00067 |
| %RSD   | 37.865  | 321.22  | 6.8297 | 321.79  | 175.76  | 14523. | 2.5759 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | -.00263 | -.00027 | .01298 | .00196  | .00101  | -.00703 | .02682 |
| #2 | -.00596 | -.00058 | .01134 | -.00417 | -.00176 | .00035  | .02566 |
| #3 | -.00506 | .00039  | .01195 | -.00066 | -.00225 | .00682  | .02565 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00005 | .00071 | 8.1650 | .02404 | .00014 | .00072 | .04014 |
| Stddev | .00006 | .00009 | .0621  | .00026 | .00016 | .00040 | .00058 |
| %RSD   | 113.86 | 12.250 | .76038 | 1.0653 | 110.71 | 55.242 | 1.4446 |

|    |         |        |        |        |         |        |        |
|----|---------|--------|--------|--------|---------|--------|--------|
| #1 | .00011  | .00062 | 8.1074 | .02406 | .00012  | .00106 | .04065 |
| #2 | .00006  | .00072 | 8.2307 | .02377 | .00030  | .00082 | .04026 |
| #3 | -.00001 | .00079 | 8.1569 | .02428 | -.00000 | .00028 | .03951 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00229 | 3.3028 | .00094 | -.00065 | 52.696 | .00062 | .02711 |
| Stddev | .00006 | .0747  | .00032 | .00062  | .130   | .00010 | .00021 |
| %RSD   | 2.4902 | 2.2616 | 33.586 | 96.681  | .24684 | 16.286 | .77079 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00230 | 3.3849 | .00104 | .00005  | 52.561 | .00058 | .02697 |
| #2 | .00224 | 3.2846 | .00119 | -.00116 | 52.708 | .00074 | .02735 |
| #3 | .00235 | 3.2389 | .00059 | -.00083 | 52.820 | .00055 | .02700 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.1893 | .00004 | .02507 | 3.3077 | 3.5271 | -.00209 | -.00283 |
| Stddev | .0382  | .00043 | .01140 | .0032  | .0321  | .00035  | .00110  |
| %RSD   | 3.2130 | 1034.2 | 45.489 | .09655 | .90955 | 16.911  | 38.867  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 1.2047 | .00047  | .02723 | 3.3046 | 3.5016 | -.00246 | -.00297 |
| #2 | 1.1458 | -.00039 | .03523 | 3.3075 | 3.5631 | -.00207 | -.00166 |
| #3 | 1.2173 | .00004  | .01274 | 3.3110 | 3.5164 | -.00175 | -.00384 |



Sample Name: K3221-14      Acquired: 6/7/2019 18:37:08      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00546 | -.0040 | .05418 | 7.3512 | F<.00000 |
| Stddev    | .00091  | .0021  | .00028 | .1821  | .12647   |
| %RSD      | 16.735  | 51.29  | .52009 | 2.4768 | 5.5023   |
| #1        | -.00536 | -.0023 | .05392 | 7.1673 | -2.1525  |
| #2        | -.00460 | -.0035 | .05448 | 7.3549 | -2.3752  |
| #3        | -.00642 | -.0063 | .05413 | 7.5314 | -2.3678  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3268.6  | 46586. | 4515.5 | 58.111 | 3378.4   |
| Stddev    | 14.6    | 87.    | 27.4   | 1.393  | 12.7     |
| %RSD      | .44613  | .18755 | .60598 | 2.3968 | .37540   |
| #1        | 3253.2  | 46490. | 4531.6 | 57.548 | 3364.2   |
| #2        | 3270.3  | 46609. | 4483.9 | 57.089 | 3382.6   |
| #3        | 3282.2  | 46660. | 4531.1 | 59.698 | 3388.5   |

Sample Name: K3221-15      Acquired: 6/7/2019 18:41:34      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00192 | .00017 | .02322 | -.00097 | -.00235 | .04919 | .07451 |
| Stddev | .00133  | .00042 | .00037 | .00108  | .00063  | .01654 | .00121 |
| %RSD   | 69.475  | 242.83 | 1.6031 | 111.49  | 27.028  | 33.632 | 1.6254 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00104 | .00040  | .02323 | -.00152 | -.00308 | .04128 | .07419 |
| #2 | -.00346 | -.00031 | .02359 | .00028  | -.00200 | .06820 | .07585 |
| #3 | -.00127 | .00043  | .02285 | -.00165 | -.00196 | .03808 | .07349 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00006 | -.00033 | 25.948 | .11610 | .00070 | .00111 | .12866 |
| Stddev | .00005 | .00004  | .099   | .00074 | .00004 | .00060 | .00055 |
| %RSD   | 78.796 | 10.723  | .38238 | .63632 | 5.8596 | 53.666 | .42605 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00002 | -.00036 | 25.878 | .11538 | .00065 | .00070 | .12817 |
| #2 | .00005 | -.00033 | 25.905 | .11685 | .00073 | .00084 | .12925 |
| #3 | .00011 | -.00029 | 26.062 | .11607 | .00071 | .00179 | .12856 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00518 | 10.388 | .00097 | -.00058 | 106.68 | .00031 | .02114 |
| Stddev | .00008 | .074   | .00029 | .00051  | .10    | .00015 | .00009 |
| %RSD   | 1.5818 | .71326 | 29.620 | 87.431  | .09191 | 49.618 | .43823 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00524 | 10.455 | .00118 | -.00098 | 106.72 | .00017 | .02103 |
| #2 | .00522 | 10.400 | .00109 | -.00076 | 106.56 | .00047 | .02118 |
| #3 | .00509 | 10.308 | .00064 | -.00001 | 106.74 | .00028 | .02120 |

|        |        |         |        |          |        |         |         |
|--------|--------|---------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 3.8573 | -.00015 | .06472 | F 10.507 | 6.1653 | -.00392 | -.00098 |
| Stddev | .0171  | .00015  | .00922 | .091     | .0350  | .00054  | .00215  |
| %RSD   | .44219 | 96.191  | 14.245 | .86535   | .56720 | 13.709  | 219.30  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 3.8699 | -.00019 | .06715 | 10.435 | 6.1991 | -.00382 | .00070  |
| #2 | 3.8642 | .00001  | .05453 | 10.476 | 6.1293 | -.00450 | -.00341 |
| #3 | 3.8379 | -.00027 | .07248 | 10.609 | 6.1674 | -.00344 | -.00024 |

Sample Name: K3221-15      Acquired: 6/7/2019 18:41:34      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00128 | -.0037 | .28185 | 7.7816 | F<.00000 |
| Stddev    | .00127  | .0006  | .00029 | .2103  | .17922   |
| %RSD      | 99.661  | 16.37  | .10207 | 2.7019 | 6.6091   |
| #1        | -.00109 | -.0031 | .28183 | 7.9407 | -2.5991  |
| #2        | -.00263 | -.0039 | .28158 | 7.8609 | -2.9184  |
| #3        | -.00011 | -.0043 | .28215 | 7.5433 | -2.6177  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3213.5  | 45406. | 4497.2 | 58.442 | 3278.3   |
| Stddev    | 4.7     | 103.   | 14.1   | 1.048  | 9.4      |
| %RSD      | .14480  | .22633 | .31448 | 1.7933 | .28637   |
| #1        | 3208.2  | 45310. | 4492.8 | 58.020 | 3288.7   |
| #2        | 3216.2  | 45392. | 4513.0 | 59.635 | 3275.9   |
| #3        | 3216.2  | 45515. | 4485.7 | 57.671 | 3270.4   |

Sample Name: K3221-16      Acquired: 6/7/2019 18:45:59      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00402 | .00017 | .01173 | -.00095 | .00034 | .35479 | .03362 |
| Stddev | .00097  | .00058 | .00223 | .00198  | .00017 | .01343 | .00037 |
| %RSD   | 24.196  | 342.54 | 19.025 | 208.70  | 50.231 | 3.7850 | 1.0907 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | -.00359 | .00068  | .01036 | -.00202 | .00025 | .34758 | .03352 |
| #2 | -.00334 | -.00046 | .01054 | .00134  | .00024 | .37028 | .03331 |
| #3 | -.00513 | .00028  | .01431 | -.00216 | .00054 | .34650 | .03402 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00010 | .00067 | 9.9705 | .00184 | .00021 | .00099 | .22217 |
| Stddev | .00007 | .00008 | .0582  | .00011 | .00020 | .00013 | .00351 |
| %RSD   | 69.380 | 12.300 | .58367 | 6.1253 | 93.065 | 13.245 | 1.5799 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00005 | .00073 | 10.000 | .00197 | .00015 | .00111 | .22564 |
| #2 | .00017 | .00071 | 10.008 | .00179 | .00043 | .00085 | .21862 |
| #3 | .00006 | .00057 | 9.9034 | .00177 | .00005 | .00101 | .22226 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00151 | 2.7824 | .00145 | -.00060 | 88.472 | .00063 | .01964 |
| Stddev | .00006 | .0375  | .00031 | .00067  | 1.093  | .00008 | .00010 |
| %RSD   | 3.9494 | 1.3477 | 21.258 | 111.16  | 1.2358 | 13.545 | .50628 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00157 | 2.7391 | .00154 | -.00022 | 88.772 | .00067 | .01965 |
| #2 | .00145 | 2.8025 | .00171 | -.00137 | 87.260 | .00053 | .01953 |
| #3 | .00150 | 2.8055 | .00111 | -.00021 | 89.384 | .00068 | .01973 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 1.9190 | -.00037 | .02711 | 7.4112 | 3.1704 | -.00316 | .00718 |
| Stddev | .0766  | .00005  | .01201 | .0315  | .0299  | .00060  | .00259 |
| %RSD   | 3.9918 | 13.468  | 44.294 | .42548 | .94182 | 18.998  | 36.042 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | 1.9553 | -.00032 | .03623 | 7.4001 | 3.1964 | -.00320 | .00942 |
| #2 | 1.8309 | -.00042 | .03159 | 7.3867 | 3.1771 | -.00374 | .00779 |
| #3 | 1.9706 | -.00038 | .01350 | 7.4468 | 3.1378 | -.00254 | .00435 |

Sample Name: K3221-16      Acquired: 6/7/2019 18:45:59      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00262 | .0464  | .08659 | 7.2460 | F<.00000 |
| Stddev | .00180  | .0024  | .00027 | .1231  | .97995   |
| %RSD   | 68.624  | 5.136  | .31725 | 1.6993 | 41.045   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00203 | .0483 | .08629 | 7.1116 | -1.3472 |
| #2 | -.00119 | .0473 | .08667 | 7.2727 | -3.2932 |
| #3 | -.00464 | .0438 | .08682 | 7.3535 | -2.5220 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3261.7 | 46183. | 4511.3 | 58.241 | 3337.2 |
| Stddev    | 3.4    | 638.   | 33.5   | 1.406  | 14.6   |
| %RSD      | .10411 | 1.3808 | .74174 | 2.4134 | .43888 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3265.1 | 45770. | 4485.2 | 58.341 | 3337.3 |
| #2 | 3258.3 | 46917. | 4499.7 | 59.595 | 3351.8 |
| #3 | 3261.8 | 45861. | 4549.0 | 56.789 | 3322.5 |

Sample Name: K3236-01      Acquired: 6/7/2019 18:50:23      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: N48970      Custom ID2:      Custom ID3:  
 Comment:

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00373 | -.00021 | .07679 | -.00122 | .00030 | .43596 | .18678 |
| Stddev | .00245 | .00012  | .00104 | .00149  | .00052 | .02249 | .00093 |
| %RSD   | 65.667 | 55.819  | 1.3530 | 122.08  | 173.35 | 5.1598 | .49945 |

|    |        |         |        |         |         |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|
| #1 | .00110 | -.00027 | .07751 | -.00159 | .00088  | .42295 | .18670 |
| #2 | .00595 | -.00007 | .07560 | -.00250 | -.00010 | .46194 | .18776 |
| #3 | .00415 | -.00028 | .07726 | .00042  | .00011  | .42300 | .18590 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00003 | -.00053 | 149.05 | .00244 | .00166 | .00751 | .65916 |
| Stddev | .00015 | .00011  | 2.06   | .00033 | .00006 | .00034 | .00388 |
| %RSD   | 502.26 | 20.561  | 1.3807 | 13.482 | 3.7823 | 4.4959 | .58855 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00012 | -.00058 | 147.53 | .00206 | .00171 | .00790 | .66048 |
| #2 | .00003  | -.00041 | 148.22 | .00265 | .00159 | .00727 | .65480 |
| #3 | .00018  | -.00061 | 151.39 | .00261 | .00167 | .00737 | .66221 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.3253 | 65.920 | .00221 | -.00240 | 214.13 | .00688 | .01789 |
| Stddev | .0014  | .287   | .00065 | .00044  | .48    | .00007 | .00006 |
| %RSD   | .10765 | .43500 | 29.287 | 18.309  | .22641 | 1.0503 | .32279 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.3247 | 65.708 | .00146 | -.00197 | 213.67 | .00692 | .01785 |
| #2 | 1.3243 | 66.246 | .00261 | -.00239 | 214.08 | .00693 | .01796 |
| #3 | 1.3269 | 65.807 | .00255 | -.00285 | 214.63 | .00680 | .01787 |

|        |        |        |        |          |          |         |        |
|--------|--------|--------|--------|----------|----------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm    |
| Avg    | 28.066 | .04197 | .36663 | F 72.300 | F 19.723 | -.01961 | .01234 |
| Stddev | .124   | .00010 | .01232 | .427     | .161     | .00035  | .00306 |
| %RSD   | .44321 | .22842 | 3.3597 | .59115   | .81376   | 1.7679  | 24.791 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 27.940 | .04204 | .35655 | 72.426 | 19.604 | -.01996 | .01536 |
| #2 | 28.070 | .04200 | .36297 | 72.650 | 19.660 | -.01926 | .01243 |
| #3 | 28.189 | .04186 | .38036 | 71.824 | 19.905 | -.01961 | .00924 |

Sample Name: K3236-01      Acquired: 6/7/2019 18:50:23      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: N48970      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02318 | .0408  | .75416 | 8.7482 | F<.00000 |
| Stddev | .00342 | .0016  | .00752 | .1012  | .74440   |
| %RSD   | 14.763 | 3.832  | .99657 | 1.1567 | 25.704   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01942 | .0396 | .74754 | 8.7360 | -3.5786 |
| #2 | .02400 | .0403 | .75260 | 8.8549 | -3.0073 |
| #3 | .02611 | .0426 | .76233 | 8.6536 | -2.1023 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3089.4 | 43325. | 4415.6 | 56.613 | 3051.6 |
| Stddev    | 18.3   | 110.   | 33.9   | 1.265  | 17.0   |
| %RSD      | .59354 | .25399 | .76780 | 2.2350 | .55726 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3078.5 | 43268. | 4431.3 | 56.028 | 3039.6 |
| #2 | 3079.2 | 43452. | 4438.8 | 58.064 | 3044.1 |
| #3 | 3110.6 | 43255. | 4376.7 | 55.745 | 3071.0 |

Sample Name: K3236-01DUP      Acquired: 6/7/2019 18:54:54      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: N48970DUP      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00223 | .00059 | .07585 | .00290 | -.00007 | .43486 | .18610 |
| Stddev | .00205 | .00082 | .00073 | .00149 | .00189  | .01554 | .00128 |
| %RSD   | 91.928 | 137.96 | .96317 | 51.559 | 2598.9  | 3.5733 | .68692 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .00262 | .00149  | .07659 | .00119 | -.00108 | .45262 | .18566 |
| #2 | .00406 | -.00012 | .07583 | .00356 | -.00125 | .42378 | .18511 |
| #3 | .00002 | .00041  | .07513 | .00394 | .00211  | .42818 | .18755 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00012 | -.00058 | 150.31 | .00249 | .00174 | .00793 | .66492 |
| Stddev | .00002 | .00010  | .74    | .00027 | .00040 | .00064 | .00550 |
| %RSD   | 21.070 | 16.436  | .49526 | 10.842 | 23.184 | 8.0567 | .82718 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00010 | -.00050 | 149.82 | .00272 | .00189 | .00756 | .66105 |
| #2 | .00011 | -.00056 | 151.17 | .00255 | .00205 | .00866 | .67121 |
| #3 | .00014 | -.00068 | 149.95 | .00219 | .00128 | .00755 | .66249 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.3209 | 65.515 | .00290 | -.00212 | 213.26 | .00694 | .01751 |
| Stddev | .0003  | .293   | .00025 | .00060  | 1.36   | .00015 | .00011 |
| %RSD   | .01902 | .44780 | 8.6501 | 28.386  | .63630 | 2.1632 | .60623 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.3212 | 65.312 | .00319 | -.00281 | 212.18 | .00706 | .01762 |
| #2 | 1.3207 | 65.380 | .00276 | -.00178 | 212.81 | .00699 | .01752 |
| #3 | 1.3208 | 65.851 | .00274 | -.00176 | 214.78 | .00677 | .01741 |

|        |        |        |        |          |          |         |        |
|--------|--------|--------|--------|----------|----------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm    |
| Avg    | 27.946 | .04199 | .37375 | F 71.954 | F 19.703 | -.01829 | .01461 |
| Stddev | .326   | .00027 | .01060 | .532     | .110     | .00103  | .00233 |
| %RSD   | 1.1679 | .64008 | 2.8365 | .73960   | .55771   | 5.6276  | 15.943 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 27.641 | .04229 | .38231 | 72.132 | 19.827 | -.01804 | .01628 |
| #2 | 27.907 | .04177 | .36189 | 72.374 | 19.667 | -.01941 | .01560 |
| #3 | 28.291 | .04193 | .37706 | 71.356 | 19.616 | -.01740 | .01195 |



Sample Name: K3236-01DUP      Acquired: 6/7/2019 18:54:54      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: N48970DUP      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02199 | .0417  | .75625 | 8.3767 | F<.00000 |
| Stddev | .00076 | .0031  | .00369 | .2131  | .91082   |
| %RSD   | 3.4610 | 7.385  | .48854 | 2.5438 | 34.660   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .02239 | .0439 | .75330 | 8.5916 | -2.8178 |
| #2 | .02112 | .0430 | .75505 | 8.1654 | -1.6371 |
| #3 | .02247 | .0382 | .76039 | 8.3732 | -3.4288 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3080.0 | 43219. | 4388.8 | 55.512 | 3051.1 |
| Stddev    | 11.9   | 24.    | 16.8   | .651   | 20.6   |
| %RSD      | .38570 | .05530 | .38340 | 1.1727 | .67389 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3084.3 | 43193. | 4372.4 | 56.250 | 3041.0 |
| #2 | 3066.6 | 43240. | 4388.2 | 55.020 | 3037.6 |
| #3 | 3089.1 | 43223. | 4406.0 | 55.266 | 3074.8 |

Sample Name: K3236-01LX5      Acquired: 6/7/2019 18:59:24      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CULVER-CBTC-      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00435 | .00580 | .01848 | .00390 | .00238 | .08628 | .03856 | .00066 |
| Stddev | .00292 | .00116 | .00045 | .00219 | .00037 | .01665 | .00063 | .00011 |
| %RSD   | 67.219 | 19.953 | 2.4097 | 56.059 | 15.591 | 19.296 | 1.6409 | 16.324 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00594 | .00446 | .01825 | .00493 | .00210 | .10389 | .03928 | .00054 |
| #2 | .00614 | .00640 | .01900 | .00139 | .00280 | .08415 | .03829 | .00069 |
| #3 | .00098 | .00652 | .01820 | .00539 | .00225 | .07080 | .03810 | .00075 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00012 | 31.616 | .00104 | .00098 | .00284 | .14731 | .26986 | 12.947 |
| Stddev | .00004 | .167   | .00035 | .00018 | .00043 | .00132 | .00053 | .075   |
| %RSD   | 33.566 | .52897 | 33.805 | 18.072 | 15.013 | .89688 | .19533 | .58146 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00008 | 31.582 | .00088 | .00103 | .00263 | .14877 | .26928 | 13.034 |
| #2 | .00015 | 31.468 | .00080 | .00112 | .00333 | .14694 | .27032 | 12.904 |
| #3 | .00014 | 31.798 | .00144 | .00078 | .00256 | .14621 | .26999 | 12.902 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00143 | -.00051 | 42.021 | .00237 | .00453 | 5.4656 | .00991 | .06354 |
| Stddev | .00037 | .00049  | .136   | .00040 | .00006 | .1023  | .00032 | .02990 |
| %RSD   | 26.141 | 96.371  | .32279 | 16.702 | 1.3677 | 1.8720 | 3.2492 | 47.054 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00142 | -.00024 | 41.991 | .00271 | .00450 | 5.4429 | .00955 | .09704 |
| #2 | .00106 | -.00021 | 42.169 | .00246 | .00460 | 5.5773 | .01017 | .03956 |
| #3 | .00180 | -.00108 | 41.903 | .00193 | .00449 | 5.3765 | .01000 | .05402 |

|        |          |        |         |        |        |        |        |        |
|--------|----------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 14.388 | 4.1303 | -.00303 | .00050 | .00228 | .0203  | .15550 | 7.2913 |
| Stddev | .008     | .0314  | .00106  | .00213 | .00177 | .0023  | .00022 | .2317  |
| %RSD   | .05553   | .76009 | 35.130  | 422.56 | 77.650 | 11.32  | .13894 | 3.1781 |

|    |        |        |         |         |        |       |        |        |
|----|--------|--------|---------|---------|--------|-------|--------|--------|
| #1 | 14.386 | 4.1079 | -.00181 | -.00137 | .00122 | .0180 | .15525 | 7.0297 |
| #2 | 14.382 | 4.1169 | -.00376 | .00007  | .00129 | .0202 | .15566 | 7.3735 |
| #3 | 14.397 | 4.1662 | -.00352 | .00282  | .00432 | .0226 | .15558 | 7.4707 |

Sample Name: K3236-01LX5      Acquired: 6/7/2019 18:59:24      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CULVER-CBTC-      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | .50824  |
| %RSD   | 51.012  |

|    |         |
|----|---------|
| #1 | -.50146 |
| #2 | -.97056 |
| #3 | -1.5170 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3267.4 | 45855. | 4510.5 | 57.088 | 3314.7 |
| Stddev    | 12.3   | 117.   | 31.7   | 1.225  | 10.7   |
| %RSD      | .37701 | .25622 | .70379 | 2.1452 | .32378 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3264.2 | 45728. | 4505.0 | 57.004 | 3306.9 |
| #2 | 3257.1 | 45959. | 4544.6 | 58.352 | 3310.2 |
| #3 | 3281.0 | 45879. | 4481.8 | 55.907 | 3326.9 |

Sample Name: K3236-01MS      Acquired: 6/7/2019 19:03:49      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: N48970MS      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |        |        |        |        |        |        |
|--------|----------|----------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .97044   | 2.1656   | 1.1829 | 2.3768 | 1.0054 | 3.0219 | .43888 | .23670 |
| Stddev | .00427   | .0050    | .0038  | .0013  | .0072  | .0318  | .00243 | .00061 |
| %RSD   | .44008   | .22876   | .32284 | .05514 | .71501 | 1.0536 | .55326 | .25912 |
| #1     | .97422   | 2.1688   | 1.1868 | 2.3755 | .99826 | 2.9855 | .43625 | .23714 |
| #2     | .96581   | 2.1599   | 1.1792 | 2.3781 | 1.0054 | 3.0356 | .43935 | .23696 |
| #3     | .97129   | 2.1680   | 1.1827 | 2.3768 | 1.0126 | 3.0446 | .44104 | .23599 |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21197   | 153.75   | .44034 | .23246 | .36648 | 4.0941 | 1.5700 | 69.360 |
| Stddev | .00047   | .41      | .00212 | .00037 | .00139 | .0216  | .0051  | .882   |
| %RSD   | .22076   | .26517   | .48253 | .15910 | .37998 | .52684 | .32307 | 1.2712 |
| #1     | .21231   | 154.20   | .44157 | .23288 | .36551 | 4.1024 | 1.5721 | 68.432 |
| #2     | .21217   | 153.41   | .44155 | .23222 | .36807 | 4.1102 | 1.5737 | 69.462 |
| #3     | .21144   | 153.65   | .43788 | .23227 | .36584 | 4.0696 | 1.5642 | 70.187 |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .54432   | .07894   | 220.74 | .33607 | .26011 | 40.563 | .55448 | .74197 |
| Stddev | .00177   | .00013   | .19    | .00099 | .00097 | .154   | .00120 | .01984 |
| %RSD   | .32591   | .16352   | .08802 | .29407 | .37223 | .37883 | .21617 | 2.6741 |
| #1     | .54525   | .07895   | 220.90 | .33497 | .26120 | 40.390 | .55363 | .72275 |
| #2     | .54545   | .07906   | 220.80 | .33688 | .25977 | 40.615 | .55585 | .74079 |
| #3     | .54228   | .07880   | 220.53 | .33637 | .25936 | 40.684 | .55396 | .76238 |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 73.771 | F 21.363 | .76456 | .24965 | .24821 | 7.148  | 1.0032 | 9.0095 |
| Stddev | .299     | .098     | .00316 | .00272 | .00192 | .026   | .0027  | .1260  |
| %RSD   | .40575   | .45702   | .41364 | 1.0900 | .77292 | .3692  | .27226 | 1.3981 |
| #1     | 74.091   | 21.453   | .76731 | .24800 | .24666 | 7.174  | 1.0060 | 8.9333 |
| #2     | 73.727   | 21.376   | .76527 | .24815 | .24762 | 7.148  | 1.0029 | 8.9403 |
| #3     | 73.497   | 21.259   | .76111 | .25279 | .25036 | 7.121  | 1.0006 | 9.1549 |

Sample Name: K3236-01MS      Acquired: 6/7/2019 19:03:49      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: N48970MS      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 3.1733 |
| Stddev | .4950  |
| %RSD   | 15.598 |

|    |        |
|----|--------|
| #1 | 3.3631 |
| #2 | 3.5452 |
| #3 | 2.6115 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3060.6 | 43177. | 4362.0 | 56.758 | 3011.2 |
| Stddev    | 6.2    | 275.   | 44.6   | 1.152  | 18.3   |
| %RSD      | .20135 | .63721 | 1.0233 | 2.0292 | .60919 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3056.6 | 42915. | 4313.5 | 55.438 | 2991.1 |
| #2 | 3057.4 | 43154. | 4371.4 | 57.279 | 3015.7 |
| #3 | 3067.7 | 43463. | 4401.3 | 57.557 | 3026.9 |

Sample Name: CCV07      Acquired: 6/7/2019 19:08:01      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15084      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.2262 | 4.9189 | 4.9235 | 5.1260 | 5.3512 | 10.175 | 10.129 | .25204   |
| Stddev | .0132  | .0176  | .0041  | .0072  | .0109  | .140   | .053   | .00031   |
| %RSD   | .25248 | .35826 | .08376 | .14113 | .20278 | 1.3797 | .52671 | .12224   |
| #1     | 5.2110 | 4.9316 | 4.9275 | 5.1278 | 5.3435 | 10.048 | 10.092 | .25189   |
| #2     | 5.2334 | 4.8988 | 4.9193 | 5.1180 | 5.3636 | 10.153 | 10.105 | .25240   |
| #3     | 5.2342 | 4.9263 | 4.9238 | 5.1321 | 5.3465 | 10.326 | 10.190 | .25184   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3514 | 25.205 | .91903 | 2.4812 | 1.2890 | 4.7524 | 2.4454 | 25.157   |
| Stddev | .0043  | .277   | .00233 | .0069  | .0035  | .0067  | .0028  | .516     |
| %RSD   | .18126 | 1.0975 | .25397 | .27763 | .27118 | .14165 | .11376 | 2.0524   |
| #1     | 2.3555 | 25.492 | .92168 | 2.4881 | 1.2899 | 4.7573 | 2.4454 | 24.643   |
| #2     | 2.3470 | 25.181 | .91727 | 2.4744 | 1.2921 | 4.7553 | 2.4427 | 25.154   |
| #3     | 2.3516 | 24.941 | .91815 | 2.4810 | 1.2852 | 4.7447 | 2.4483 | 25.675   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3610 | 1.2022 | 23.768 | 2.5689 | 2.5581 | 24.701 | 5.3280 | 4.8707   |
| Stddev | .0058  | .0016  | .147   | .0016  | .0043  | .140   | .0085  | .0721    |
| %RSD   | .24697 | .13414 | .62014 | .06147 | .16819 | .56561 | .15985 | 1.4802   |
| #1     | 2.3675 | 1.2030 | 23.648 | 2.5671 | 2.5627 | 24.660 | 5.3201 | 4.8154   |
| #2     | 2.3562 | 1.2003 | 23.722 | 2.5701 | 2.5542 | 24.586 | 5.3370 | 4.8444   |
| #3     | 2.3594 | 1.2032 | 23.933 | 2.5695 | 2.5573 | 24.857 | 5.3270 | 4.9522   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.2320 | 5.1896 | 4.7739 | 4.8526 | 4.5701 | 4.952  | 4.9324 | F 7.8246 |
| Stddev | .0117  | .0340  | .0077  | .0073  | .0234  | .015   | .0254  | .0513    |
| %RSD   | .22432 | .65509 | .16097 | .15099 | .51293 | .2970  | .51540 | .65547   |
| #1     | 5.2452 | 5.1954 | 4.7763 | 4.8447 | 4.5965 | 4.969  | 4.9610 | 7.7677   |
| #2     | 5.2227 | 5.2204 | 4.7652 | 4.8538 | 4.5620 | 4.943  | 4.9239 | 7.8672   |
| #3     | 5.2283 | 5.1531 | 4.7800 | 4.8592 | 4.5517 | 4.944  | 4.9123 | 7.8389   |

Sample Name: CCV07      Acquired: 6/7/2019 19:08:01      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV15084      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 2.5923 |
| Stddev | .3452    |
| %RSD   | 13.316   |

|    |        |
|----|--------|
| #1 | 2.3097 |
| #2 | 2.4901 |
| #3 | 2.9770 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3281.6 | 46264. | 4583.3 | 58.349 | 3230.0 |
| Stddev    | 6.0    | 47.    | 49.1   | 1.430  | 6.8    |
| %RSD      | .18185 | .10166 | 1.0716 | 2.4504 | .21125 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3285.8 | 46244. | 4534.1 | 56.979 | 3224.1 |
| #2 | 3274.8 | 46318. | 4583.4 | 58.236 | 3237.5 |
| #3 | 3284.2 | 46231. | 4632.3 | 59.832 | 3228.4 |

Sample Name: CCB07      Acquired: 6/7/2019 19:12:00      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15084      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |         |         |         |         |        |
|--------|---------|--------|---------|---------|---------|---------|--------|
| Elem   | As1890  | Tl1908 | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.00048 | .00077 | -.00159 | -.00416 | -.00028 | -.02599 | .00305 |
| Stddev | .00119  | .00072 | .00079  | .00434  | .00102  | .00584  | .00034 |
| %RSD   | 247.72  | 93.344 | 49.555  | 104.32  | 361.82  | 22.484  | 11.233 |

|    |         |        |         |         |         |         |        |
|----|---------|--------|---------|---------|---------|---------|--------|
| #1 | .00051  | .00151 | -.00201 | -.00191 | .00026  | -.01987 | .00322 |
| #2 | -.00015 | .00006 | -.00208 | -.00916 | .00035  | -.02660 | .00266 |
| #3 | -.00180 | .00076 | -.00068 | -.00140 | -.00146 | -.03152 | .00328 |

|        |        |         |        |         |         |         |        |
|--------|--------|---------|--------|---------|---------|---------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00012 | -.00000 | .00057 | -.00086 | -.00020 | -.00004 | .00016 |
| Stddev | .00002 | .00002  | .00073 | .00018  | .00008  | .00056  | .00063 |
| %RSD   | 17.962 | 527.04  | 129.32 | 21.010  | 38.038  | 1299.7  | 388.93 |

|    |        |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00014 | -.00003 | .00111  | -.00105 | -.00017 | -.00018 | .00078  |
| #2 | .00013 | .00000  | .00085  | -.00069 | -.00029 | .00057  | -.00048 |
| #3 | .00010 | .00002  | -.00027 | -.00084 | -.00014 | -.00052 | .00018  |

|        |        |        |        |         |        |        |         |
|--------|--------|--------|--------|---------|--------|--------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00011 | .00877 | .00049 | -.00025 | .01327 | .00020 | -.00007 |
| Stddev | .00005 | .02252 | .00049 | .00048  | .00699 | .00023 | .00002  |
| %RSD   | 46.662 | 256.89 | 98.878 | 190.13  | 52.656 | 114.00 | 33.525  |

|    |        |         |         |         |        |         |         |
|----|--------|---------|---------|---------|--------|---------|---------|
| #1 | .00007 | .01772  | -.00007 | -.00047 | .00541 | .00027  | -.00005 |
| #2 | .00016 | .02544  | .00080  | -.00058 | .01565 | -.00005 | -.00009 |
| #3 | .00009 | -.01686 | .00076  | .00030  | .01876 | .00039  | -.00007 |

|        |         |        |        |          |        |         |         |
|--------|---------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664  | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm     | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | -.06720 | .00053 | .01191 | F .01009 | .01163 | -.00035 | -.00280 |
| Stddev | .00866  | .00026 | .00339 | .00220   | .00245 | .00073  | .00015  |
| %RSD   | 12.886  | 48.480 | 28.456 | 21.847   | 21.029 | 207.61  | 5.5314  |

|    |         |        |        |        |        |         |         |
|----|---------|--------|--------|--------|--------|---------|---------|
| #1 | -.07452 | .00072 | .01353 | .01139 | .00917 | -.00093 | -.00288 |
| #2 | -.06944 | .00063 | .01418 | .01133 | .01407 | .00047  | -.00289 |
| #3 | -.05764 | .00024 | .00801 | .00754 | .01166 | -.00060 | -.00262 |



Sample Name: CCB07      Acquired: 6/7/2019 19:12:00      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB15084      Custom ID2:      Custom ID3:  
Comment:

|           |         |        |        |          |          |
|-----------|---------|--------|--------|----------|----------|
| Elem      | Li6707  | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm     | ppm    | ppm    | ppm      | ppm      |
| Avg       | -.00289 | -.0065 | .00024 | F 5.7020 | F<.00000 |
| Stddev    | .00217  | .0001  | .00008 | .0749    | .02219   |
| %RSD      | 74.937  | 1.949  | 34.904 | 1.3128   | 5.8175   |
| #1        | -.00536 | -.0066 | .00033 | 5.7671   | -.37935  |
| #2        | -.00198 | -.0066 | .00021 | 5.7188   | -.40453  |
| #3        | -.00133 | -.0064 | .00017 | 5.6202   | -.36029  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3435.6  | 48989. | 4696.3 | 60.492   | 3591.7   |
| Stddev    | 1.6     | 155.   | 19.1   | .257     | 3.9      |
| %RSD      | .04589  | .31620 | .40574 | .42511   | .10847   |
| #1        | 3435.3  | 48816. | 4696.4 | 60.773   | 3595.1   |
| #2        | 3434.3  | 49035. | 4677.2 | 60.268   | 3592.6   |
| #3        | 3437.4  | 49116. | 4715.3 | 60.434   | 3587.5   |

Sample Name: K3236-01MSD      Acquired: 6/7/2019 19:16:29      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: N48970MSD      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |        |        |        |        |        |        |
|--------|----------|----------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .96345   | 2.1305   | 1.1638 | 2.3517 | .99588 | 3.0059 | .43550 | .23304 |
| Stddev | .00606   | .0056    | .0029  | .0104  | .00270 | .0351  | .00114 | .00038 |
| %RSD   | .62890   | .26303   | .24679 | .44213 | .27123 | 1.1683 | .26213 | .16238 |
| #1     | .95873   | 2.1361   | 1.1646 | 2.3458 | .99327 | 3.0281 | .43550 | .23325 |
| #2     | .96134   | 2.1306   | 1.1662 | 2.3456 | .99571 | 3.0242 | .43665 | .23326 |
| #3     | .97028   | 2.1249   | 1.1606 | 2.3637 | .99866 | 2.9654 | .43436 | .23260 |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20831   | 151.75   | .43389 | .22826 | .36180 | 4.0381 | 1.5470 | 68.529 |
| Stddev | .00026   | .64      | .00174 | .00010 | .00068 | .0041  | .0014  | .135   |
| %RSD   | .12709   | .42227   | .40091 | .04551 | .18842 | .10091 | .09032 | .19664 |
| #1     | .20814   | 151.05   | .43398 | .22836 | .36120 | 4.0350 | 1.5484 | 68.681 |
| #2     | .20861   | 152.31   | .43558 | .22815 | .36254 | 4.0367 | 1.5471 | 68.482 |
| #3     | .20818   | 151.89   | .43210 | .22827 | .36165 | 4.0427 | 1.5456 | 68.423 |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .53385   | .07798   | 219.20 | .32874 | .25649 | 40.210 | .55122 | .74642 |
| Stddev | .00053   | .00071   | .15    | .00046 | .00071 | .206   | .00371 | .01822 |
| %RSD   | .09972   | .91356   | .06989 | .13888 | .27705 | .51293 | .67330 | 2.4415 |
| #1     | .53382   | .07880   | 219.06 | .32926 | .25696 | 39.972 | .54818 | .73016 |
| #2     | .53333   | .07749   | 219.18 | .32855 | .25683 | 40.325 | .55012 | .76612 |
| #3     | .53439   | .07766   | 219.37 | .32841 | .25567 | 40.333 | .55536 | .74298 |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 72.824 | F 20.985 | .75043 | .24631 | .24653 | 7.031  | .99361 | 8.7392 |
| Stddev | .174     | .074     | .00125 | .00502 | .00101 | .010   | .00548 | .1464  |
| %RSD   | .23915   | .35104   | .16605 | 2.0386 | .41020 | .1386  | .55105 | 1.6748 |
| #1     | 72.718   | 20.941   | .75095 | .24146 | .24596 | 7.031  | .98732 | 8.8271 |
| #2     | 73.025   | 21.070   | .74901 | .24598 | .24592 | 7.041  | .99622 | 8.8204 |
| #3     | 72.729   | 20.945   | .75134 | .25149 | .24769 | 7.022  | .99730 | 8.5703 |

Sample Name: K3236-01MSD      Acquired: 6/7/2019 19:16:29      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: N48970MSD      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 1.5070 |
| Stddev | 1.0230 |
| %RSD   | 67.884 |

|    |        |
|----|--------|
| #1 | .99338 |
| #2 | .84258 |
| #3 | 2.6851 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3098.4 | 43706. | 4429.0 | 56.218 | 3062.8 |
| Stddev    | 11.3   | 138.   | 2.3    | .529   | 5.8    |
| %RSD      | .36378 | .31662 | .05304 | .94105 | .19031 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3109.5 | 43546. | 4431.7 | 56.577 | 3064.5 |
| #2 | 3098.7 | 43789. | 4428.2 | 56.466 | 3056.3 |
| #3 | 3087.0 | 43782. | 4427.2 | 55.610 | 3067.5 |

Sample Name: K3236-01A      Acquired: 6/7/2019 19:20:42      Type: Unk  
Method: P4-ICP2(v3186)      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    | .97319   | 2.1219   | 1.1600 | 2.3685 | 1.0042 | 3.0418 | .43000 | .23149 |
| Stddev | .00474   | .0074    | .0027  | .0127  | .0057  | .0278  | .00456 | .00019 |
| %RSD   | .48746   | .34745   | .23174 | .53467 | .56925 | .91279 | 1.0611 | .08253 |
| #1     | .97062   | 2.1155   | 1.1577 | 2.3605 | 1.0026 | 3.0102 | .42496 | .23136 |
| #2     | .97867   | 2.1300   | 1.1593 | 2.3831 | 1.0106 | 3.0620 | .43384 | .23171 |
| #3     | .97029   | 2.1204   | 1.1630 | 2.3618 | .99950 | 3.0533 | .43121 | .23140 |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20698   | 151.08   | .42855 | .22865 | .36366 | 4.0291 | 1.5369 | 67.686 |
| Stddev | .00044   | 1.08     | .00103 | .00080 | .00057 | .0148  | .0024  | .717   |
| %RSD   | .21386   | .71674   | .24142 | .34949 | .15637 | .36816 | .15513 | 1.0586 |
| #1     | .20740   | 152.18   | .42737 | .22861 | .36319 | 4.0138 | 1.5370 | 66.878 |
| #2     | .20702   | 150.02   | .42928 | .22947 | .36429 | 4.0435 | 1.5392 | 67.936 |
| #3     | .20652   | 151.04   | .42900 | .22787 | .36351 | 4.0300 | 1.5344 | 68.244 |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52958   | .07749   | 215.42 | .32646 | .25705 | 39.862 | .55141 | .70842 |
| Stddev | .00124   | .00020   | 1.05   | .00072 | .00044 | .336   | .00372 | .02491 |
| %RSD   | .23480   | .25810   | .48660 | .22094 | .17104 | .84229 | .67477 | 3.5166 |
| #1     | .53082   | .07733   | 214.40 | .32565 | .25746 | 39.484 | .54955 | .69232 |
| #2     | .52833   | .07742   | 216.50 | .32705 | .25710 | 40.125 | .55570 | .73711 |
| #3     | .52959   | .07771   | 215.36 | .32667 | .25659 | 39.978 | .54899 | .69582 |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 72.864 | F 21.335 | .74903 | .24962 | .24773 | 6.989  | .98736 | 8.6617 |
| Stddev | .310     | .234     | .00289 | .00524 | .00153 | .017   | .00293 | .0555  |
| %RSD   | .42561   | 1.0982   | .38587 | 2.0993 | .61579 | .2434  | .29627 | .64051 |
| #1     | 73.119   | 21.579   | .75235 | .24454 | .24629 | 7.002  | .98951 | 8.7248 |
| #2     | 72.518   | 21.111   | .74765 | .24932 | .24756 | 6.996  | .98403 | 8.6396 |
| #3     | 72.954   | 21.316   | .74709 | .25501 | .24933 | 6.970  | .98856 | 8.6206 |

Sample Name: K3236-01A      Acquired: 6/7/2019 19:20:42      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CRI      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 2.5797 |
| Stddev | .3406  |
| %RSD   | 13.201 |

|    |        |
|----|--------|
| #1 | 2.7355 |
| #2 | 2.8146 |
| #3 | 2.1892 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3077.9 | 44162. | 4439.1 | 56.424 | 3074.0 |
| Stddev    | 1.4    | 170.   | 50.7   | .500   | 13.8   |
| %RSD      | .04670 | .38545 | 1.1428 | .88535 | .44801 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3076.3 | 44061. | 4380.6 | 56.875 | 3065.2 |
| #2 | 3079.1 | 44068. | 4470.4 | 55.887 | 3089.8 |
| #3 | 3078.1 | 44359. | 4466.5 | 56.509 | 3066.8 |

Sample Name: K3191-02      Acquired: 6/7/2019 19:24:56      Type: Unk  
Method: P4-ICP2(v3186)      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    | .07667 | .00085 | .04820 | -.00050 | .00196 | -.12514 | .31343 |
| Stddev | .00216 | .00155 | .00072 | .00179  | .00161 | .01738  | .00351 |
| %RSD   | 2.8200 | 183.04 | 1.4954 | 358.66  | 82.263 | 13.892  | 1.1196 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .07460 | .00008  | .04768 | -.00254 | .00025 | -.14346 | .30949 |
| #2 | .07891 | -.00017 | .04791 | .00025  | .00218 | -.10887 | .31460 |
| #3 | .07650 | .00263  | .04903 | .00079  | .00344 | -.12310 | .31622 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00014 | -.00029 | 94.928 | -.00300 | .00548 | .01169 | 2.2959 |
| Stddev | .00006 | .00004  | 1.075  | .00019  | .00014 | .00051 | .0069  |
| %RSD   | 46.713 | 13.244  | 1.1322 | 6.4269  | 2.6080 | 4.3625 | .30206 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00007 | -.00034 | 95.785 | -.00322 | .00546 | .01224 | 2.3024 |
| #2 | .00020 | -.00028 | 95.277 | -.00286 | .00563 | .01161 | 2.2967 |
| #3 | .00014 | -.00026 | 93.722 | -.00292 | .00535 | .01123 | 2.2886 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 3.4930 | 67.013 | .00866 | -.00072 | 143.19 | -.01198 | .04261 |
| Stddev | .0035  | .497   | .00039 | .00053  | .30    | .00045  | .00007 |
| %RSD   | .09926 | .74160 | 4.5468 | 73.947  | .21160 | 3.7391  | .17593 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 3.4909 | 66.518 | .00836 | -.00026 | 142.84 | -.01243 | .04265 |
| #2 | 3.4970 | 67.009 | .00910 | -.00059 | 143.41 | -.01198 | .04252 |
| #3 | 3.4911 | 67.512 | .00850 | -.00130 | 143.31 | -.01154 | .04266 |

|        |        |        |        |        |          |         |         |
|--------|--------|--------|--------|--------|----------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881   | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm     | ppm     |
| Avg    | 18.950 | .02883 | .26401 | 2.4060 | F 12.749 | -.00143 | -.00565 |
| Stddev | .046   | .00026 | .01964 | .0142  | .089     | .00091  | .00227  |
| %RSD   | .24102 | .90532 | 7.4377 | .59093 | .70046   | 63.773  | 40.170  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 18.907 | .02913 | .24676 | 2.4022 | 12.852 | -.00129 | -.00340 |
| #2 | 18.945 | .02869 | .25988 | 2.4217 | 12.708 | -.00240 | -.00795 |
| #3 | 18.998 | .02867 | .28538 | 2.3940 | 12.688 | -.00059 | -.00562 |

Sample Name: K3191-02      Acquired: 6/7/2019 19:24:56      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00062 | .0225  | .68223 | 7.7988 | F<.00000 |
| Stddev | .00036  | .0021  | .00170 | .1616  | .35396   |
| %RSD   | 57.777  | 9.436  | .24878 | 2.0721 | 22.285   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00088 | .0221 | .68416 | 7.6232 | -1.8899 |
| #2 | -.00076 | .0248 | .68154 | 7.8320 | -1.1987 |
| #3 | -.00021 | .0206 | .68098 | 7.9412 | -1.6764 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3230.2 | 46586. | 4792.8 | 60.251 | 3247.6 |
| Stddev    | 5.4    | 71.    | 29.3   | 1.689  | 24.3   |
| %RSD      | .16600 | .15279 | .61055 | 2.8035 | .74935 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3224.2 | 46601. | 4764.0 | 61.058 | 3254.4 |
| #2 | 3232.0 | 46508. | 4792.0 | 61.385 | 3267.8 |
| #3 | 3234.5 | 46648. | 4822.5 | 58.310 | 3220.6 |

Sample Name: K3193-04      Acquired: 6/7/2019 19:29:29      Type: Unk  
Method: P4-ICP2(v3186)      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    | .01326 | .00292 | .17340 | -.00571 | .00918 | -.62006 | 2.4910 | .00034 |
| Stddev | .00469 | .00300 | .00194 | .00215  | .00228 | .02508  | .0147  | .00014 |
| %RSD   | 35.392 | 102.79 | 1.1214 | 37.684  | 24.828 | 4.0444  | .58958 | 42.144 |

|    |        |        |        |         |        |         |        |        |
|----|--------|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00934 | .00602 | .17134 | -.00625 | .01180 | -.63085 | 2.4844 | .00018 |
| #2 | .01199 | .00270 | .17521 | -.00753 | .00765 | -.59140 | 2.5078 | .00045 |
| #3 | .01847 | .00003 | .17364 | -.00333 | .00810 | -.63794 | 2.4808 | .00040 |

|        |         |        |         |        |        |        |        |        |
|--------|---------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00226 | 348.06 | -.01029 | .00168 | .00226 | 23.720 | 4.6316 | 1719.1 |
| Stddev | .00003  | 2.07   | .00042  | .00044 | .00030 | .107   | .0189  | 11.2   |
| %RSD   | 1.4909  | .59443 | 4.0791  | 26.134 | 13.364 | .44899 | .40802 | .65387 |

|    |         |        |         |        |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|--------|
| #1 | -.00223 | 349.29 | -.01002 | .00118 | .00247 | 23.710 | 4.6302 | 1706.6 |
| #2 | -.00229 | 349.21 | -.01078 | .00198 | .00192 | 23.831 | 4.6512 | 1728.4 |
| #3 | -.00227 | 345.67 | -.01009 | .00188 | .00240 | 23.618 | 4.6135 | 1722.2 |

|        |         |         |          |         |        |        |        |        |
|--------|---------|---------|----------|---------|--------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280  | Na5895   | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01750 | -.00704 | F 3072.7 | -.01269 | .04134 | 774.63 | .15051 | 8.2558 |
| Stddev | .00053  | .00048  | 105.2    | .00070  | .00046 | 2.92   | .00050 | .0703  |
| %RSD   | 3.0270  | 6.8494  | 3.4228   | 5.5166  | 1.1068 | .37713 | .33022 | .85138 |

|    |         |         |        |         |        |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.01715 | -.00721 | 3099.9 | -.01198 | .04129 | 773.65 | .14999 | 8.2081 |
| #2 | -.01724 | -.00650 | 3161.6 | -.01338 | .04182 | 777.91 | .15058 | 8.2229 |
| #3 | -.01811 | -.00742 | 2956.6 | -.01272 | .04090 | 772.32 | .15097 | 8.3365 |

|        |          |          |         |         |        |        |        |        |
|--------|----------|----------|---------|---------|--------|--------|--------|--------|
| Elem   | S_1820   | Si2881   | Sn1899  | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 60.742 | F 28.416 | -.02128 | -.02467 | .52305 | .2508  | 9.7741 | 15.673 |
| Stddev | .460     | .234     | .00027  | .00387  | .01453 | .0021  | .0186  | .091   |
| %RSD   | .75772   | .82373   | 1.2605  | 15.690  | 2.7787 | .8532  | .19022 | .58051 |

|    |        |        |         |         |        |       |        |        |
|----|--------|--------|---------|---------|--------|-------|--------|--------|
| #1 | 60.249 | 28.670 | -.02151 | -.02794 | .50633 | .2486 | 9.7922 | 15.666 |
| #2 | 61.160 | 28.370 | -.02134 | -.02568 | .53015 | .2529 | 9.7550 | 15.767 |
| #3 | 60.818 | 28.209 | -.02098 | -.02040 | .53268 | .2509 | 9.7749 | 15.586 |



Sample Name: K3193-04      Acquired: 6/7/2019 19:29:29      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 8.8249 |
| Stddev | .3988  |
| %RSD   | 4.5193 |

|    |        |
|----|--------|
| #1 | 8.5165 |
| #2 | 9.2753 |
| #3 | 8.6830 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2044.7 | 28940. | 3832.1 | 45.194 | 1794.9 |
| Stddev    | 12.7   | 176.   | 24.7   | .742   | 12.3   |
| %RSD      | .62332 | .60794 | .64463 | 1.6417 | .68712 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2059.2 | 28820. | 3805.7 | 46.049 | 1807.2 |
| #2 | 2035.4 | 28859. | 3836.1 | 44.733 | 1782.5 |
| #3 | 2039.5 | 29142. | 3854.6 | 44.798 | 1794.9 |

Sample Name: K3193-04DUP      Acquired: 6/7/2019 19:34:13      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00790   | .00336   | .16733   | .00029  | .01212 | -.61119 | 2.3937 | .00046 |
| Stddev | .00436   | .00114   | .00130   | .00221  | .00531 | .06827  | .0371  | .00018 |
| %RSD   | 55.146   | 34.054   | .77794   | 770.57  | 43.846 | 11.169  | 1.5478 | 38.295 |
| #1     | .00381   | .00451   | .16871   | -.00154 | .00605 | -.60426 | 2.4039 | .00067 |
| #2     | .00742   | .00334   | .16718   | -.00035 | .01593 | -.68265 | 2.3526 | .00035 |
| #3     | .01248   | .00222   | .16612   | .00275  | .01437 | -.54665 | 2.4245 | .00037 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00245  | 349.47   | -.01067  | .00200  | .00212 | 23.007  | 4.4988 | 1668.5 |
| Stddev | .00033   | 1.51     | .00054   | .00037  | .00131 | .244    | .0525  | 21.9   |
| %RSD   | 13.362   | .43108   | 5.0742   | 18.540  | 61.560 | 1.0596  | 1.1663 | 1.3149 |
| #1     | -.00277  | 349.63   | -.01008  | .00160  | .00325 | 23.182  | 4.5379 | 1664.9 |
| #2     | -.00212  | 350.89   | -.01079  | .00208  | .00244 | 22.729  | 4.4392 | 1648.6 |
| #3     | -.00246  | 347.89   | -.01115  | .00233  | .00069 | 23.110  | 4.5193 | 1692.0 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924  | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.01748  | -.00717  | F 2760.6 | -.01238 | .03880 | 753.91  | .14854 | 7.9811 |
| Stddev | .00032   | .00022   | 34.3     | .00061  | .00018 | 12.11   | .00062 | .1320  |
| %RSD   | 1.8444   | 3.0855   | 1.2438   | 4.9390  | .45661 | 1.6057  | .41577 | 1.6537 |
| #1     | -.01749  | -.00706  | 2753.9   | -.01191 | .03878 | 754.08  | .14845 | 7.9103 |
| #2     | -.01715  | -.00702  | 2730.1   | -.01307 | .03898 | 741.72  | .14919 | 7.8996 |
| #3     | -.01779  | -.00742  | 2797.8   | -.01217 | .03863 | 765.93  | .14797 | 8.1333 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361  | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | F 59.656 | F 28.317 | -.02072  | -.02189 | .44406 | .2492   | 9.6528 | 15.622 |
| Stddev | .293     | .335     | .00236   | .00238  | .00608 | .0037   | .0170  | .154   |
| %RSD   | .49039   | 1.1845   | 11.405   | 10.852  | 1.3694 | 1.479   | .17594 | .98363 |
| #1     | 59.427   | 28.491   | -.02265  | -.02458 | .43972 | .2499   | 9.6590 | 15.692 |
| #2     | 59.985   | 28.530   | -.02143  | -.02010 | .44145 | .2525   | 9.6658 | 15.445 |
| #3     | 59.555   | 27.930   | -.01809  | -.02098 | .45101 | .2452   | 9.6336 | 15.727 |

Sample Name: K3193-04DUP      Acquired: 6/7/2019 19:34:13      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 7.8393 |
| Stddev | .6867  |
| %RSD   | 8.7601 |

|    |        |
|----|--------|
| #1 | 7.4902 |
| #2 | 8.6304 |
| #3 | 7.3972 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2068.7 | 29647. | 3825.3 | 46.225 | 1811.6 |
| Stddev    | 5.7    | 310.   | 36.7   | .641   | 6.5    |
| %RSD      | .27506 | 1.0458 | .95897 | 1.3869 | .35676 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2068.8 | 29463. | 3813.7 | 45.489 | 1810.7 |
| #2 | 2063.0 | 30005. | 3795.9 | 46.660 | 1805.6 |
| #3 | 2074.4 | 29474. | 3866.4 | 46.526 | 1818.5 |

Sample Name: K3193-04LX5      Acquired: 6/7/2019 19:38:56      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00382 | .00310 | .03651 | -.00384 | .00190 | -.12322 | .42689 |
| Stddev | .00027 | .00037 | .00068 | .00349  | .00170 | .01953  | .00215 |
| %RSD   | 7.0914 | 12.009 | 1.8502 | 90.894  | 89.843 | 15.846  | .50443 |

|    |        |        |        |         |         |         |        |
|----|--------|--------|--------|---------|---------|---------|--------|
| #1 | .00391 | .00353 | .03581 | .00004  | .00298  | -.11606 | .42443 |
| #2 | .00404 | .00288 | .03716 | -.00483 | .00277  | -.10829 | .42786 |
| #3 | .00352 | .00290 | .03655 | -.00672 | -.00007 | -.14532 | .42840 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00023 | -.00135 | 89.488 | -.00186 | .00030 | .00083 | 5.2185 |
| Stddev | .00005 | .00010  | .749   | .00018  | .00015 | .00085 | .0086  |
| %RSD   | 19.877 | 7.2413  | .83687 | 9.6415  | 50.102 | 102.39 | .16415 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00027 | -.00141 | 89.372 | -.00204 | .00013 | .00068 | 5.2127 |
| #2 | .00024 | -.00139 | 88.804 | -.00188 | .00039 | .00006 | 5.2284 |
| #3 | .00018 | -.00123 | 90.288 | -.00168 | .00039 | .00174 | 5.2146 |

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .98825 | 318.46 | -.00673 | -.00222 | 1446.5 | -.00202 | .00723 |
| Stddev | .00163 | 2.34   | .00037  | .00084  | 31.7   | .00053  | .00013 |
| %RSD   | .16472 | .73515 | 5.5161  | 37.716  | 2.1895 | 26.259  | 1.8653 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | .98778 | 315.79 | -.00662 | -.00316 | 1413.4 | -.00159 | .00721 |
| #2 | .99006 | 319.41 | -.00715 | -.00193 | 1449.8 | -.00261 | .00737 |
| #3 | .98690 | 320.18 | -.00643 | -.00156 | 1476.4 | -.00185 | .00711 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 120.64 | .03075 | 1.5018 | F 10.853 | 5.8669 | -.00301 | -.00670 |
| Stddev | .58    | .00017 | .0183  | .071     | .0524  | .00048  | .00266  |
| %RSD   | .47980 | .55353 | 1.2202 | .65545   | .89387 | 15.821  | 39.632  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 120.02 | .03069 | 1.4921 | 10.783 | 5.9037 | -.00246 | -.00974 |
| #2 | 120.73 | .03063 | 1.5229 | 10.852 | 5.8901 | -.00334 | -.00481 |
| #3 | 121.17 | .03095 | 1.4903 | 10.925 | 5.8068 | -.00323 | -.00556 |

Sample Name: K3193-04LX5      Acquired: 6/7/2019 19:38:56      Type: Unk  
Method: P4-ICP2(v3186)      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       | .06504 | .0350  | 1.9400 | 12.484 | F<.00000 |
| Stddev    | .00065 | .0017  | .0042  | .067   | .18542   |
| %RSD      | 1.0032 | 4.800  | .21508 | .53902 | 3.8491   |
| #1        | .06491 | .0339  | 1.9444 | 12.467 | -4.9884  |
| #2        | .06575 | .0342  | 1.9396 | 12.558 | -4.6203  |
| #3        | .06446 | .0370  | 1.9361 | 12.427 | -4.8435  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2766.3 | 38003. | 4345.3 | 54.554 | 2537.2   |
| Stddev    | 16.9   | 9.     | 12.7   | 1.070  | 11.1     |
| %RSD      | .61084 | .02448 | .29151 | 1.9610 | .43844   |
| #1        | 2750.9 | 38012. | 4331.2 | 55.779 | 2525.1   |
| #2        | 2784.4 | 37993. | 4349.2 | 54.079 | 2547.0   |
| #3        | 2763.5 | 38002. | 4355.6 | 53.804 | 2539.6   |

Sample Name: K3193-04MS      Acquired: 6/7/2019 19:43:36      Type: Unk  
Method: P4-ICP2(v3186)      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    | 1.1841   | 2.1929   | 1.3275   | 2.8801 | 1.2405 | 2.8097 | 2.7111 | .32207 |
| Stddev | .0070    | .0111    | .0142    | .0114  | .0056  | .0245  | .0194  | .00158 |
| %RSD   | .58966   | .50822   | 1.0686   | .39673 | .45073 | .87326 | .71528 | .49205 |
| #1     | 1.1915   | 2.2048   | 1.3409   | 2.8929 | 1.2450 | 2.7950 | 2.7112 | .32390 |
| #2     | 1.1830   | 2.1912   | 1.3289   | 2.8709 | 1.2423 | 2.7961 | 2.7305 | .32114 |
| #3     | 1.1777   | 2.1827   | 1.3127   | 2.8766 | 1.2343 | 2.8380 | 2.6917 | .32118 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .22372   | 349.30   | .40524   | .24400 | .33778 | 26.257 | 4.7518 | 1668.2 |
| Stddev | .00075   | 1.79     | .00030   | .00124 | .00119 | .070   | .0138  | 15.0   |
| %RSD   | .33501   | .51178   | .07433   | .50965 | .35139 | .26576 | .28936 | .89943 |
| #1     | .22446   | 350.37   | .40554   | .24543 | .33903 | 26.335 | 4.7672 | 1651.8 |
| #2     | .22373   | 350.29   | .40525   | .24318 | .33667 | 26.237 | 4.7407 | 1681.2 |
| #3     | .22296   | 347.23   | .40494   | .24338 | .33765 | 26.200 | 4.7476 | 1671.8 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .53891   | .10863   | F 2903.2 | .31575 | .38286 | 774.90 | .65473 | 8.4760 |
| Stddev | .00421   | .00006   | 37.6     | .00126 | .00107 | 5.31   | .00184 | .0468  |
| %RSD   | .78146   | .05852   | 1.2940   | .39822 | .27999 | .68537 | .28147 | .55267 |
| #1     | .54374   | .10857   | 2937.1   | .31714 | .38398 | 773.25 | .65657 | 8.4513 |
| #2     | .53607   | .10861   | 2909.8   | .31470 | .38277 | 780.84 | .65288 | 8.4467 |
| #3     | .53690   | .10870   | 2862.8   | .31542 | .38184 | 770.62 | .65475 | 8.5300 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 58.742 | F 29.269 | .79129   | .21229 | .78661 | 9.887  | 9.8200 | 16.372 |
| Stddev | .256     | .200     | .00624   | .00647 | .00520 | .051   | .0363  | .035   |
| %RSD   | .43635   | .68237   | .78916   | 3.0470 | .66161 | .5105  | .36985 | .21405 |
| #1     | 59.022   | 29.441   | .79688   | .21329 | .78110 | 9.937  | 9.7992 | 16.410 |
| #2     | 58.685   | 29.050   | .79244   | .20539 | .78729 | 9.888  | 9.8619 | 16.365 |
| #3     | 58.519   | 29.318   | .78455   | .21821 | .79145 | 9.836  | 9.7988 | 16.341 |

Sample Name: K3193-04MS      Acquired: 6/7/2019 19:43:36      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 10.562 |
| Stddev | .314   |
| %RSD   | 2.9717 |

|    |        |
|----|--------|
| #1 | 10.252 |
| #2 | 10.556 |
| #3 | 10.879 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2090.3 | 29499. | 3823.4 | 46.000 | 1832.0 |
| Stddev    | 10.3   | 148.   | 10.1   | 1.382  | 9.7    |
| %RSD      | .49258 | .50211 | .26298 | 3.0048 | .53159 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2078.8 | 29436. | 3812.1 | 44.424 | 1821.1 |
| #2 | 2098.5 | 29393. | 3826.7 | 47.008 | 1834.8 |
| #3 | 2093.8 | 29669. | 3831.4 | 46.567 | 1840.0 |

Sample Name: K3193-04MSD      Acquired: 6/7/2019 19:48:00      Type: Unk  
Method: P4-ICP2(v3186)      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    | 1.1313   | 2.1260   | 1.2777   | 2.7418 | 1.1819 | 2.6763 | 2.4975 | .30632 |
| Stddev | .0013    | .0231    | .0014    | .0135  | .0105  | .0850  | .0405  | .00322 |
| %RSD   | .11888   | 1.0882   | .11230   | .49146 | .89019 | 3.1746 | 1.6204 | 1.0500 |
| #1     | 1.1297   | 2.1036   | 1.2774   | 2.7381 | 1.1897 | 2.6053 | 2.5024 | .30361 |
| #2     | 1.1318   | 2.1498   | 1.2763   | 2.7568 | 1.1861 | 2.7704 | 2.5353 | .30987 |
| #3     | 1.1323   | 2.1245   | 1.2792   | 2.7306 | 1.1700 | 2.6532 | 2.4548 | .30547 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21638   | 339.98   | .39444   | .23666 | .32780 | 25.062 | 4.5272 | 1557.8 |
| Stddev | .00088   | 3.90     | .00454   | .00153 | .00055 | .280   | .0486  | 20.0   |
| %RSD   | .40679   | 1.1469   | 1.1513   | .64517 | .16774 | 1.1181 | 1.0745 | 1.2869 |
| #1     | .21537   | 340.19   | .39154   | .23492 | .32773 | 24.884 | 4.4974 | 1544.7 |
| #2     | .21698   | 343.77   | .39967   | .23727 | .32838 | 25.385 | 4.5833 | 1580.9 |
| #3     | .21679   | 335.98   | .39210   | .23779 | .32728 | 24.917 | 4.5008 | 1548.0 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52149   | .10150   | F 2650.8 | .30277 | .36701 | 711.83 | .62882 | 7.8891 |
| Stddev | .00171   | .00029   | 48.9     | .00267 | .00139 | 8.55   | .00402 | .0668  |
| %RSD   | .32748   | .28709   | 1.8458   | .88329 | .37902 | 1.2017 | .63940 | .84617 |
| #1     | .51974   | .10160   | 2707.3   | .30220 | .36604 | 710.55 | .62959 | 7.9053 |
| #2     | .52316   | .10117   | 2622.9   | .30569 | .36860 | 720.96 | .63239 | 7.9463 |
| #3     | .52157   | .10172   | 2622.3   | .30043 | .36639 | 703.99 | .62446 | 7.8158 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 55.066 | F 27.877 | .76888   | .20442 | .72021 | 9.448  | 9.2065 | 16.320 |
| Stddev | .178     | .176     | .00721   | .00538 | .01471 | .058   | .1617  | .155   |
| %RSD   | .32407   | .62974   | .93726   | 2.6309 | 2.0430 | .6153  | 1.7566 | .94854 |
| #1     | 54.956   | 28.065   | .76095   | .20445 | .73331 | 9.384  | 9.3472 | 16.301 |
| #2     | 55.272   | 27.851   | .77503   | .20977 | .72304 | 9.499  | 9.2424 | 16.484 |
| #3     | 54.970   | 27.717   | .77065   | .19902 | .70429 | 9.460  | 9.0298 | 16.176 |



Sample Name: K3193-04MSD      Acquired: 6/7/2019 19:48:00      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 8.9150 |
| Stddev | .8111  |
| %RSD   | 9.0976 |

|    |        |
|----|--------|
| #1 | 8.3903 |
| #2 | 8.5054 |
| #3 | 9.8491 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2133.9 | 30008. | 3822.7 | 45.838 | 1869.7 |
| Stddev    | 13.6   | 339.   | 49.0   | .782   | 8.4    |
| %RSD      | .63723 | 1.1306 | 1.2825 | 1.7064 | .44985 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2130.5 | 30098. | 3779.4 | 46.451 | 1871.4 |
| #2 | 2122.4 | 29633. | 3812.9 | 44.957 | 1860.5 |
| #3 | 2148.9 | 30293. | 3876.0 | 46.105 | 1877.1 |

Sample Name: K3193-04A      Acquired: 6/7/2019 19:52:24      Type: Unk  
Method: P4-ICP2(v3186)      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    | 1.1650   | 2.1845   | 1.3128   | 2.8136 | 1.2154 | 2.6989 | 2.5654 | .31155 |
| Stddev | .0144    | .0118    | .0073    | .0273  | .0080  | .0850  | .0471  | .00454 |
| %RSD   | 1.2355   | .54057   | .55815   | .97067 | .65503 | 3.1506 | 1.8355 | 1.4581 |
| #1     | 1.1507   | 2.1710   | 1.3061   | 2.7857 | 1.2082 | 2.6074 | 2.5146 | .30646 |
| #2     | 1.1795   | 2.1932   | 1.3117   | 2.8147 | 1.2140 | 2.7139 | 2.5738 | .31299 |
| #3     | 1.1649   | 2.1891   | 1.3206   | 2.8403 | 1.2240 | 2.7754 | 2.6077 | .31519 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .22246   | 347.58   | .39390   | .24299 | .33477 | 25.417 | 4.6009 | 1597.3 |
| Stddev | .00170   | 3.53     | .00593   | .00218 | .00334 | .320   | .0543  | 30.5   |
| %RSD   | .76610   | 1.0165   | 1.5066   | .89518 | .99842 | 1.2592 | 1.1808 | 1.9099 |
| #1     | .22062   | 350.31   | .38759   | .24091 | .33124 | 25.050 | 4.5391 | 1565.0 |
| #2     | .22277   | 348.83   | .39475   | .24281 | .33519 | 25.560 | 4.6224 | 1601.2 |
| #3     | .22399   | 343.59   | .39937   | .24525 | .33789 | 25.640 | 4.6412 | 1625.7 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .53483   | .10363   | F 2655.1 | .30551 | .37811 | 735.89 | .64883 | 8.0749 |
| Stddev | .00281   | .00107   | 98.1     | .00466 | .00186 | 13.06  | .00466 | .1780  |
| %RSD   | .52470   | 1.0346   | 3.6949   | 1.5249 | .49214 | 1.7742 | .71753 | 2.2044 |
| #1     | .53203   | .10241   | 2570.6   | .30059 | .37679 | 722.26 | .64394 | 7.8911 |
| #2     | .53482   | .10408   | 2632.0   | .30986 | .37730 | 737.14 | .64935 | 8.0872 |
| #3     | .53764   | .10440   | 2762.7   | .30606 | .38024 | 748.28 | .65321 | 8.2465 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 57.573 | F 28.854 | .78815   | .20605 | .75084 | 9.717  | 9.5230 | 16.188 |
| Stddev | .378     | .320     | .00656   | .00295 | .00642 | .038   | .0467  | .093   |
| %RSD   | .65698   | 1.1090   | .83295   | 1.4316 | .85511 | .3899  | .49039 | .57650 |
| #1     | 57.320   | 29.138   | .78092   | .20320 | .75601 | 9.674  | 9.5603 | 16.108 |
| #2     | 57.391   | 28.918   | .78979   | .20909 | .75286 | 9.735  | 9.5381 | 16.167 |
| #3     | 58.008   | 28.508   | .79374   | .20587 | .74365 | 9.743  | 9.4707 | 16.291 |

Sample Name: K3193-04A      Acquired: 6/7/2019 19:52:24      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 9.7904 |
| Stddev | .1006  |
| %RSD   | 1.0271 |

|    |        |
|----|--------|
| #1 | 9.7901 |
| #2 | 9.8911 |
| #3 | 9.6900 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2101.8 | 30166. | 3811.0 | 46.384 | 1836.6 |
| Stddev    | 10.7   | 334.   | 47.0   | 1.343  | 8.7    |
| %RSD      | .50800 | 1.1060 | 1.2341 | 2.8961 | .47473 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2100.7 | 30537. | 3768.1 | 45.468 | 1835.8 |
| #2 | 2113.0 | 30068. | 3803.6 | 47.926 | 1845.8 |
| #3 | 2091.7 | 29892. | 3861.3 | 45.759 | 1828.4 |

Sample Name: K3193-05      Acquired: 6/7/2019 19:56:48      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00838 | .00613 | .18149 | -.00159 | .00841 | -.40070 | 1.5089 |
| Stddev | .00312 | .00220 | .00227 | .00378  | .00142 | .04652  | .0175  |
| %RSD   | 37.272 | 35.821 | 1.2494 | 237.61  | 16.834 | 11.610  | 1.1572 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00729 | .00763 | .18388 | .00065  | .00796 | -.34703 | 1.4888 |
| #2 | .01189 | .00361 | .17937 | .00053  | .00999 | -.42560 | 1.5183 |
| #3 | .00594 | .00716 | .18122 | -.00596 | .00727 | -.42947 | 1.5197 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00016 | -.00233 | 307.57 | .00280 | .00219 | .00152 | 1.1965 |
| Stddev | .00002 | .00005  | 3.90   | .00064 | .00073 | .00111 | .0133  |
| %RSD   | 13.593 | 2.0092  | 1.2696 | 22.777 | 33.578 | 73.173 | 1.1118 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00016 | -.00228 | 311.51 | .00275 | .00282 | .00099 | 1.2050 |
| #2 | .00018 | -.00234 | 307.49 | .00347 | .00235 | .00078 | 1.2032 |
| #3 | .00014 | -.00237 | 303.70 | .00220 | .00138 | .00280 | 1.1812 |

|        |        |        |         |         |          |        |        |
|--------|--------|--------|---------|---------|----------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895   | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      | ppm    | ppm    |
| Avg    | 1.5420 | 1323.6 | -.00961 | -.00573 | F 2622.8 | .00158 | .03772 |
| Stddev | .0077  | 11.5   | .00069  | .00054  | 47.6     | .00056 | .00043 |
| %RSD   | .50133 | .87073 | 7.1285  | 9.3582  | 1.8148   | 35.612 | 1.1364 |

|    |        |        |         |         |        |        |        |
|----|--------|--------|---------|---------|--------|--------|--------|
| #1 | 1.5441 | 1310.8 | -.01036 | -.00635 | 2583.8 | .00217 | .03771 |
| #2 | 1.5485 | 1326.7 | -.00947 | -.00541 | 2608.8 | .00153 | .03815 |
| #3 | 1.5334 | 1333.2 | -.00901 | -.00544 | 2675.8 | .00104 | .03729 |

|        |        |        |        |          |          |         |         |
|--------|--------|--------|--------|----------|----------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm     |
| Avg    | 616.71 | .01405 | 6.2353 | F 51.491 | F 34.434 | -.01590 | -.00706 |
| Stddev | 7.09   | .00030 | .0629  | .449     | .630     | .00122  | .00233  |
| %RSD   | 1.1502 | 2.1379 | 1.0091 | .87222   | 1.8302   | 7.6888  | 32.972  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 608.57 | .01431 | 6.1628 | 51.937 | 35.079 | -.01726 | -.00689 |
| #2 | 620.03 | .01372 | 6.2679 | 51.497 | 34.404 | -.01553 | -.00483 |
| #3 | 621.54 | .01413 | 6.2752 | 51.039 | 33.820 | -.01490 | -.00948 |

Sample Name: K3193-05      Acquired: 6/7/2019 19:56:48      Type: Unk  
 Method: P4-ICP2(v3186)      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       | .26998 | F 11.71 | 8.5144 | 15.875 | F<.00000 |
| Stddev    | .00191 | .08     | .0126  | .086   | .54223   |
| %RSD      | .70905 | .7221   | .14742 | .53894 | 11.764   |
| #1        | .26872 | 11.81   | 8.5228 | 15.919 | -4.1891  |
| #2        | .26905 | 11.67   | 8.5204 | 15.929 | -5.2213  |
| #3        | .27219 | 11.66   | 8.5000 | 15.776 | -4.4172  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2182.6 | 30393.  | 3817.9 | 46.518 | 1933.5   |
| Stddev    | 20.0   | 56.     | 52.7   | .843   | 18.1     |
| %RSD      | .91488 | .18399  | 1.3790 | 1.8113 | .93418   |
| #1        | 2162.7 | 30366.  | 3760.2 | 47.357 | 1914.6   |
| #2        | 2182.6 | 30356.  | 3830.4 | 45.672 | 1935.2   |
| #3        | 2202.6 | 30457.  | 3863.2 | 46.525 | 1950.6   |

Sample Name: CCV08      Acquired: 6/7/2019 20:01:26      Type: Unk  
Method: P4-ICP2(v3186)      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    | 5.1205 | 4.9197 | 4.9545 | 4.9539 | 5.2702 | 9.9759 | 9.7616 |
| Stddev | .0086  | .0062  | .0102  | .0044  | .0079  | .0208  | .0416  |
| %RSD   | .16768 | .12583 | .20557 | .08895 | .14978 | .20892 | .42626 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.1107 | 4.9203 | 4.9453 | 4.9584 | 5.2706 | 9.9857 | 9.7143 |
| #2 | 5.1268 | 4.9133 | 4.9529 | 4.9496 | 5.2621 | 9.9900 | 9.7778 |
| #3 | 5.1239 | 4.9256 | 4.9654 | 4.9535 | 5.2779 | 9.9519 | 9.7927 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .25298 | 2.3372 | 25.936 | .90969 | 2.4792 | 1.2789 | 4.7683 |
| Stddev | .00011 | .0038  | .072   | .00050 | .0023  | .0017  | .0076  |
| %RSD   | .04429 | .16300 | .27838 | .05494 | .09113 | .12957 | .15951 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .25286 | 2.3339 | 25.892 | .90964 | 2.4766 | 1.2783 | 4.7770 |
| #2 | .25308 | 2.3363 | 25.897 | .91021 | 2.4804 | 1.2777 | 4.7651 |
| #3 | .25301 | 2.3414 | 26.020 | .90922 | 2.4806 | 1.2808 | 4.7628 |

|        |        |        |        |        |          |        |        |
|--------|--------|--------|--------|--------|----------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895   | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    |
| Avg    | 2.4716 | 24.969 | 2.3312 | 1.1802 | F 20.378 | 2.5304 | 2.5419 |
| Stddev | .0018  | .094   | .0034  | .0014  | .094     | .0026  | .0047  |
| %RSD   | .07345 | .37844 | .14631 | .12111 | .46002   | .10129 | .18539 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.4723 | 25.010 | 2.3274 | 1.1787 | 20.306 | 2.5294 | 2.5391 |
| #2 | 2.4695 | 24.861 | 2.3322 | 1.1804 | 20.343 | 2.5286 | 2.5393 |
| #3 | 2.4729 | 25.036 | 2.3340 | 1.1816 | 20.484 | 2.5334 | 2.5474 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 24.591 | 5.3637 | 4.7196 | 5.1493 | 5.2851 | 4.7904 | 4.7877 |
| Stddev | .109   | .0042  | .0236  | .0209  | .0341  | .0121  | .0054  |
| %RSD   | .44271 | .07800 | .50048 | .40521 | .64443 | .25359 | .11221 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 24.480 | 5.3597 | 4.6956 | 5.1326 | 5.2998 | 4.7988 | 4.7823 |
| #2 | 24.597 | 5.3681 | 4.7204 | 5.1426 | 5.2462 | 4.7765 | 4.7878 |
| #3 | 24.697 | 5.3633 | 4.7428 | 5.1727 | 5.3094 | 4.7958 | 4.7930 |

Sample Name: CCV08      Acquired: 6/7/2019 20:01:26      Type: Unk  
Method: P4-ICP2(v3186)      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       | 4.5011 | 4.795  | 4.8673 | F 9.0627 | F<.00000 |
| Stddev    | .0285  | .005   | .0371  | .0582    | .80098   |
| %RSD      | .63203 | .0964  | .76119 | .64231   | 2175.5   |
| #1        | 4.4687 | 4.800  | 4.8273 | 9.1250   | -.50094  |
| #2        | 4.5128 | 4.792  | 4.8742 | 9.0096   | -.49759  |
| #3        | 4.5219 | 4.793  | 4.9004 | 9.0536   | .88808   |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3333.0 | 46945. | 4529.0 | 57.362   | 3296.2   |
| Stddev    | 6.2    | 81.    | 15.2   | .732     | 2.7      |
| %RSD      | .18693 | .17322 | .33641 | 1.2757   | .08143   |
| #1        | 3335.1 | 46895. | 4534.0 | 56.836   | 3299.0   |
| #2        | 3326.0 | 47039. | 4541.1 | 57.052   | 3293.6   |
| #3        | 3337.9 | 46900. | 4511.9 | 58.198   | 3296.1   |

Sample Name: CCB08      Acquired: 6/7/2019 20:05:24      Type: Unk  
Method: P4-ICP2(v3186)      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 | .00154 | .00020 | -.00252 | .00169 | -.02254 | .00354 |
| Stddev | .00094  | .00112 | .00017 | .00125  | .00175 | .00744  | .00054 |
| %RSD   | 1044.0  | 72.744 | 84.950 | 49.496  | 104.01 | 32.991  | 15.216 |

|    |         |        |        |         |        |         |        |
|----|---------|--------|--------|---------|--------|---------|--------|
| #1 | .00055  | .00155 | .00037 | -.00183 | .00355 | -.01587 | .00295 |
| #2 | -.00117 | .00041 | .00019 | -.00396 | .00007 | -.02119 | .00401 |
| #3 | .00034  | .00265 | .00004 | -.00178 | .00144 | -.03056 | .00367 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00009 | -.00011 | .00227 | -.00069 | .00015 | .00072 | .00124 |
| Stddev | .00008 | .00009  | .00067 | .00013  | .00013 | .00046 | .00063 |
| %RSD   | 97.784 | 81.125  | 29.405 | 18.748  | 83.729 | 64.119 | 50.682 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | .00016  | -.00018 | .00296 | -.00081 | .00030 | .00030 | .00054 |
| #2 | .00010  | -.00001 | .00164 | -.00055 | .00011 | .00121 | .00141 |
| #3 | -.00001 | -.00015 | .00220 | -.00070 | .00005 | .00064 | .00177 |

|        |        |        |         |         |          |        |         |
|--------|--------|--------|---------|---------|----------|--------|---------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895   | V_2924 | Zn2138  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      | ppm    | ppm     |
| Avg    | .00001 | .00685 | -.00032 | -.00048 | F 1.4463 | .00003 | -.00004 |
| Stddev | .00005 | .02567 | .00005  | .00048  | .0077    | .00008 | .00015  |
| %RSD   | 447.58 | 374.63 | 16.928  | 100.48  | .53454   | 235.58 | 401.21  |

|    |         |         |         |         |        |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|
| #1 | .00002  | .00856  | -.00030 | -.00050 | 1.4451 | .00013  | -.00002 |
| #2 | .00005  | .03163  | -.00038 | -.00095 | 1.4545 | -.00003 | -.00019 |
| #3 | -.00004 | -.01963 | -.00027 | .00001  | 1.4392 | .00001  | .00011  |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .25319 | .00068 | .00764 | .00230 | .01063 | -.00062 | -.00450 |
| Stddev | .01274 | .00010 | .01266 | .00433 | .00143 | .00075  | .00133  |
| %RSD   | 5.0301 | 15.196 | 165.84 | 188.72 | 13.486 | 120.60  | 29.500  |

|    |        |        |         |         |        |         |         |
|----|--------|--------|---------|---------|--------|---------|---------|
| #1 | .25787 | .00079 | .01490  | .00679  | .01173 | .00024  | -.00378 |
| #2 | .23877 | .00062 | .01499  | .00195  | .00901 | -.00105 | -.00603 |
| #3 | .26292 | .00062 | -.00699 | -.00185 | .01117 | -.00105 | -.00369 |



Sample Name: CCB08      Acquired: 6/7/2019 20:05:24      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00511 | -.0074 | .00031 | F 7.6848 | F<.00000 |
| Stddev    | .00216  | .0024  | .00005 | .2439    | .13985   |
| %RSD      | 42.200  | 32.74  | 15.834 | 3.1743   | 6.0348   |
| #1        | -.00639 | -.0064 | .00025 | 7.4043   | -2.2750  |
| #2        | -.00262 | -.0102 | .00032 | 7.8479   | -2.2037  |
| #3        | -.00633 | -.0056 | .00035 | 7.8021   | -2.4735  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3471.0  | 48958. | 4552.7 | 59.705   | 3649.9   |
| Stddev    | 3.2     | 135.   | 17.6   | .801     | 7.3      |
| %RSD      | .09129  | .27556 | .38642 | 1.3422   | .20078   |
| #1        | 3470.6  | 48932. | 4532.5 | 60.589   | 3658.3   |
| #2        | 3474.3  | 49104. | 4564.4 | 59.502   | 3646.6   |
| #3        | 3468.0  | 48838. | 4561.4 | 59.025   | 3644.9   |

Sample Name: K3221-03      Acquired: 6/7/2019 20:09:53      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00364 | .00089 | .02614 | .00060 | -.00079 | .14555 | .15755 |
| Stddev | .00286  | .00021 | .00140 | .00173 | .00118  | .02394 | .00146 |
| %RSD   | 78.602  | 24.236 | 5.3591 | 290.41 | 148.17  | 16.450 | .92770 |

|    |         |        |        |         |         |        |        |
|----|---------|--------|--------|---------|---------|--------|--------|
| #1 | -.00684 | .00067 | .02488 | -.00015 | -.00107 | .15414 | .15682 |
| #2 | -.00269 | .00088 | .02765 | -.00064 | -.00181 | .16402 | .15923 |
| #3 | -.00137 | .00110 | .02590 | .00258  | .00050  | .11850 | .15659 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00209 | -.00039 | 37.604 | .00079 | .00452 | .89474 | .59070 |
| Stddev | .00003 | .00005  | .263   | .00042 | .00008 | .00169 | .00405 |
| %RSD   | 1.3190 | 12.921  | .69965 | 53.086 | 1.7117 | .18920 | .68523 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00212 | -.00041 | 37.558 | .00082 | .00457 | .89330 | .59470 |
| #2 | .00209 | -.00034 | 37.367 | .00036 | .00456 | .89433 | .58661 |
| #3 | .00207 | -.00043 | 37.887 | .00120 | .00443 | .89661 | .59079 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .41903 | 8.5919 | .00275 | -.00141 | 143.24 | -.00137 | .09096 |
| Stddev | .00043 | .0528  | .00030 | .00031  | .28    | .00023  | .00014 |
| %RSD   | .10296 | .61433 | 10.841 | 21.841  | .19874 | 17.126  | .15390 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .41927 | 8.5310 | .00300 | -.00159 | 142.98 | -.00163 | .09112 |
| #2 | .41853 | 8.6192 | .00242 | -.00106 | 143.19 | -.00118 | .09086 |
| #3 | .41928 | 8.6254 | .00281 | -.00159 | 143.55 | -.00131 | .09090 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 4.0526 | .00510 | .04373 | 3.5827 | 5.2102 | -.00128 | -.00503 |
| Stddev | .0487  | .00012 | .00403 | .0080  | .0612  | .00074  | .00087  |
| %RSD   | 1.2020 | 2.3327 | 9.2148 | .22271 | 1.1752 | 58.001  | 17.379  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 4.0091 | .00514 | .03913 | 3.5919 | 5.2679 | -.00183 | -.00593 |
| #2 | 4.1052 | .00519 | .04546 | 3.5789 | 5.1460 | -.00158 | -.00499 |
| #3 | 4.0436 | .00496 | .04662 | 3.5773 | 5.2168 | -.00043 | -.00418 |

Sample Name: K3221-03      Acquired: 6/7/2019 20:09:53      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00110 | -.0014 | .38480 | 9.6177 | F<.00000 |
| Stddev | .00058  | .0015  | .00332 | .1502  | 1.3656   |
| %RSD   | 52.577  | 106.6  | .86175 | 1.5617 | 30.954   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00077 | -.0017 | .38238 | 9.4447 | -4.2661 |
| #2 | -.00177 | -.0028 | .38343 | 9.6932 | -3.1246 |
| #3 | -.00076 | .0002  | .38858 | 9.7151 | -5.8441 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3212.8 | 45215. | 4395.5 | 57.182 | 3262.4 |
| Stddev    | 12.1   | 108.   | 19.5   | 2.120  | 2.8    |
| %RSD      | .37547 | .23843 | .44417 | 3.7072 | .08724 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3226.5 | 45229. | 4400.2 | 57.884 | 3264.3 |
| #2 | 3208.0 | 45101. | 4412.2 | 58.862 | 3259.1 |
| #3 | 3203.8 | 45315. | 4374.0 | 54.800 | 3263.7 |

Sample Name: K3221-05      Acquired: 6/7/2019 20:14:13      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00181 | .00003 | .02571 | -.00412 | .00035 | -.03042 | .14753 |
| Stddev | .00050  | .00108 | .00082 | .00249  | .00238 | .01567  | .00184 |
| %RSD   | 27.593  | 4182.3 | 3.1987 | 60.403  | 679.76 | 51.516  | 1.2503 |

|    |         |         |        |         |         |         |        |
|----|---------|---------|--------|---------|---------|---------|--------|
| #1 | -.00129 | -.00018 | .02543 | -.00533 | -.00060 | -.02901 | .14627 |
| #2 | -.00228 | -.00093 | .02506 | -.00126 | -.00141 | -.01550 | .14667 |
| #3 | -.00186 | .00119  | .02663 | -.00576 | .00306  | -.04674 | .14965 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00033 | -.00000 | 38.702 | .00029 | .00495 | .00252 | .00098 |
| Stddev | .00004 | .00010  | .228   | .00040 | .00021 | .00039 | .00110 |
| %RSD   | 12.787 | 10770.  | .58955 | 135.94 | 4.1955 | 15.638 | 112.10 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00032 | .00009  | 38.936 | -.00015 | .00505 | .00291 | .00066 |
| #2 | .00029 | -.00011 | 38.689 | .00042  | .00472 | .00212 | .00221 |
| #3 | .00037 | .00002  | 38.481 | .00061  | .00510 | .00252 | .00008 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .07667 | 17.211 | .00660 | -.00146 | 136.91 | .00003 | .04894 |
| Stddev | .00038 | .214   | .00034 | .00014  | .33    | .00045 | .00031 |
| %RSD   | .49123 | 1.2453 | 5.0787 | 9.6812  | .24442 | 1501.7 | .62691 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .07708 | 16.970 | .00695 | -.00152 | 136.55 | -.00008 | .04873 |
| #2 | .07633 | 17.283 | .00659 | -.00130 | 136.97 | .00053  | .04879 |
| #3 | .07660 | 17.380 | .00628 | -.00157 | 137.21 | -.00035 | .04929 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 4.5255 | -.00010 | .07657 | 3.9505 | 7.0579 | -.00211 | -.00530 |
| Stddev | .1194  | .00004  | .00819 | .0073  | .0490  | .00132  | .00104  |
| %RSD   | 2.6380 | 38.438  | 10.700 | .18554 | .69469 | 62.299  | 19.629  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 4.3877 | -.00009 | .07231 | 3.9495 | 7.1112 | -.00071 | -.00433 |
| #2 | 4.5927 | -.00014 | .07139 | 3.9437 | 7.0478 | -.00231 | -.00640 |
| #3 | 4.5961 | -.00006 | .08602 | 3.9583 | 7.0147 | -.00332 | -.00518 |

Sample Name: K3221-05      Acquired: 6/7/2019 20:14:13      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00306 | -.0071 | .46659 | 9.5991 | F<.00000 |
| Stddev    | .00043  | .0007  | .00093 | .1675  | .34383   |
| %RSD      | 13.951  | 9.262  | .19852 | 1.7450 | 7.1956   |
| #1        | -.00258 | -.0073 | .46553 | 9.6735 | -4.6573  |
| #2        | -.00339 | -.0076 | .46704 | 9.7165 | -4.5114  |
| #3        | -.00322 | -.0063 | .46721 | 9.4073 | -5.1663  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3214.5  | 45245. | 4400.6 | 57.346 | 3255.9   |
| Stddev    | 3.5     | 152.   | 39.3   | 2.465  | 8.0      |
| %RSD      | .10802  | .33500 | .89297 | 4.2976 | .24676   |
| #1        | 3210.5  | 45116. | 4359.5 | 54.972 | 3259.1   |
| #2        | 3216.2  | 45207. | 4404.5 | 57.174 | 3261.8   |
| #3        | 3216.8  | 45412. | 4437.8 | 59.892 | 3246.7   |

Sample Name: K3221-10      Acquired: 6/7/2019 20:18:38      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA8292      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |         |         |         |        |
|--------|---------|--------|--------|---------|---------|---------|--------|
| Elem   | As1890  | Tl1908 | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | -.00291 | .00244 | .02802 | -.00192 | -.00136 | -.02634 | .15777 |
| Stddev | .00240  | .00060 | .00105 | .00355  | .00146  | .00696  | .00147 |
| %RSD   | 82.497  | 24.695 | 3.7542 | 184.70  | 107.25  | 26.435  | .93236 |

|    |         |        |        |         |         |         |        |
|----|---------|--------|--------|---------|---------|---------|--------|
| #1 | -.00446 | .00176 | .02704 | -.00187 | -.00305 | -.02032 | .15611 |
| #2 | -.00414 | .00292 | .02913 | .00160  | -.00041 | -.02474 | .15828 |
| #3 | -.00014 | .00264 | .02790 | -.00549 | -.00063 | -.03397 | .15892 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00031 | .00011 | 41.843 | .00011 | .00527 | .00344 | .00183 |
| Stddev | .00010 | .00003 | .166   | .00057 | .00003 | .00014 | .00101 |
| %RSD   | 33.291 | 28.667 | .39635 | 507.27 | .59952 | 3.9603 | 55.442 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00025 | .00015 | 42.035 | -.00055 | .00528 | .00328 | .00294 |
| #2 | .00026 | .00009 | 41.741 | .00042  | .00530 | .00348 | .00094 |
| #3 | .00043 | .00010 | 41.754 | .00046  | .00524 | .00354 | .00161 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .08220 | 18.571 | .00691 | -.00102 | 148.66 | -.00056 | .05541 |
| Stddev | .00051 | .294   | .00033 | .00038  | .38    | .00031  | .00008 |
| %RSD   | .62166 | 1.5837 | 4.7890 | 36.929  | .25545 | 55.733  | .14414 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .08268 | 18.254 | .00680 | -.00106 | 148.24 | -.00068 | .05533 |
| #2 | .08166 | 18.624 | .00664 | -.00063 | 148.77 | -.00079 | .05543 |
| #3 | .08226 | 18.835 | .00728 | -.00138 | 148.98 | -.00020 | .05548 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 4.8465 | -.00004 | .09291 | 4.2065 | 7.6321 | -.00215 | -.00626 |
| Stddev | .0810  | .00017  | .01642 | .0146  | .0590  | .00084  | .00319  |
| %RSD   | 1.6704 | 390.04  | 17.672 | .34578 | .77364 | 39.330  | 50.868  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 4.7904 | -.00005 | .07395 | 4.2228 | 7.6973 | -.00118 | -.00459 |
| #2 | 4.8099 | .00013  | .10262 | 4.1950 | 7.5823 | -.00273 | -.00994 |
| #3 | 4.9393 | -.00021 | .10217 | 4.2016 | 7.6168 | -.00254 | -.00426 |

Sample Name: K3221-10      Acquired: 6/7/2019 20:18:38      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA8292      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00448 | -.0058 | .50446 | 9.7222 | F<.00000 |
| Stddev | .00194  | .0009  | .00179 | .0521  | .51188   |
| %RSD   | 43.223  | 14.85  | .35518 | .53591 | 11.450   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00647 | -.0048 | .50266 | 9.6858 | -3.9625 |
| #2 | -.00436 | -.0062 | .50447 | 9.6989 | -4.4627 |
| #3 | -.00261 | -.0064 | .50625 | 9.7819 | -4.9862 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3198.0 | 45007. | 4360.4 | 58.065 | 3236.8 |
| Stddev    | 9.6    | 184.   | 27.5   | 1.145  | 7.6    |
| %RSD      | .30061 | .40798 | .63152 | 1.9726 | .23546 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3190.3 | 44865. | 4330.3 | 58.145 | 3235.8 |
| #2 | 3195.0 | 44942. | 4366.5 | 59.168 | 3244.9 |
| #3 | 3208.8 | 45214. | 4384.3 | 56.882 | 3229.8 |

Sample Name: K3221-12      Acquired: 6/7/2019 20:23:02      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB8292      Custom ID2:      Custom ID3:  
Comment:

|        |         |        |        |        |         |        |        |
|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890  | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00013 | .00023 | .01518 | .00065 | -.00033 | .43529 | .05126 |
| Stddev | .00192  | .00083 | .00111 | .00364 | .00046  | .00919 | .00034 |
| %RSD   | 1521.4  | 367.55 | 7.3019 | 558.97 | 142.65  | 2.1115 | .66208 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00107  | -.00039 | .01405 | .00270  | -.00056 | .44546 | .05101 |
| #2 | .00089  | -.00011 | .01523 | -.00355 | -.00063 | .43281 | .05113 |
| #3 | -.00234 | .00117  | .01626 | .00280  | .00021  | .42759 | .05165 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00014 | -.00035 | 17.870 | .04793 | .00014 | .00143 | .06226 |
| Stddev | .00003 | .00003  | .033   | .00012 | .00015 | .00020 | .00064 |
| %RSD   | 24.455 | 8.7151  | .18270 | .24392 | 109.14 | 13.647 | 1.0261 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .00016 | -.00031 | 17.869 | .04805 | -.00000 | .00121 | .06166 |
| #2 | .00010 | -.00036 | 17.902 | .04782 | .00030  | .00154 | .06218 |
| #3 | .00015 | -.00037 | 17.837 | .04792 | .00012  | .00155 | .06293 |

|        |        |        |         |         |        |        |        |
|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00264 | 6.8594 | -.00032 | -.00120 | 115.09 | .00026 | .03316 |
| Stddev | .00006 | .0184  | .00026  | .00044  | .48    | .00008 | .00016 |
| %RSD   | 2.3630 | .26790 | 82.783  | 36.863  | .41666 | 32.894 | .46849 |

|    |        |        |         |         |        |        |        |
|----|--------|--------|---------|---------|--------|--------|--------|
| #1 | .00258 | 6.8595 | -.00008 | -.00157 | 114.69 | .00035 | .03302 |
| #2 | .00264 | 6.8409 | -.00028 | -.00133 | 114.95 | .00019 | .03333 |
| #3 | .00271 | 6.8777 | -.00060 | -.00071 | 115.62 | .00023 | .03313 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 3.3432 | -.00006 | .05577 | 8.0108 | 4.3187 | -.00381 | .00646 |
| Stddev | .0125  | .00025  | .02300 | .0372  | .0170  | .00040  | .00207 |
| %RSD   | .37452 | 418.82  | 41.239 | .46446 | .39246 | 10.569  | 32.052 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | 3.3290 | .00022  | .07668 | 7.9727 | 4.3051 | -.00355 | .00762 |
| #2 | 3.3525 | -.00014 | .05950 | 8.0471 | 4.3133 | -.00428 | .00770 |
| #3 | 3.3483 | -.00026 | .03113 | 8.0125 | 4.3377 | -.00362 | .00407 |



Sample Name: K3221-12      Acquired: 6/7/2019 20:23:02      Type: Unk  
 Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSAB8292      Custom ID2:      Custom ID3:  
 Comment:

|        |         |        |        |        |          |
|--------|---------|--------|--------|--------|----------|
| Elem   | Li6707  | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | -.00429 | -.0050 | .14787 | 9.0895 | F<.00000 |
| Stddev | .00141  | .0013  | .00067 | .1184  | .61249   |
| %RSD   | 32.885  | 25.97  | .45273 | 1.3020 | 13.450   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00590 | -.0036 | .14742 | 9.1584 | -3.8469 |
| #2 | -.00327 | -.0055 | .14757 | 9.1572 | -4.9295 |
| #3 | -.00370 | -.0061 | .14864 | 8.9528 | -4.8847 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3230.9 | 45648. | 4371.5 | 57.652 | 3320.2 |
| Stddev    | 12.8   | 55.    | 10.8   | 1.196  | 9.0    |
| %RSD      | .39500 | .11975 | .24637 | 2.0737 | .27117 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3217.6 | 45585. | 4365.6 | 58.905 | 3329.4 |
| #2 | 3243.1 | 45684. | 4365.0 | 57.527 | 3311.4 |
| #3 | 3232.0 | 45674. | 4383.9 | 56.524 | 3320.0 |

Sample Name: K3190-03      Acquired: 6/7/2019 20:27:28      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00045 | .00090 | .02333 | .00021 | .00023 | .00470 | .06358 |
| Stddev | .00047 | .00095 | .00047 | .00204 | .00190 | .01241 | .00059 |
| %RSD   | 103.07 | 105.56 | 2.0158 | 951.74 | 836.50 | 264.02 | .92112 |

|    |        |         |        |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|--------|
| #1 | .00020 | .00100  | .02279 | .00240  | .00241  | -.00560 | .06324 |
| #2 | .00017 | -.00010 | .02350 | -.00165 | -.00066 | .01848  | .06324 |
| #3 | .00099 | .00179  | .02369 | -.00011 | -.00107 | .00122  | .06426 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00023 | -.00008 | 16.190 | -.00057 | .00385 | .00150 | .02389 |
| Stddev | .00009 | .00005  | .058   | .00027  | .00013 | .00003 | .00150 |
| %RSD   | 39.542 | 65.957  | .35740 | 47.012  | 3.4169 | 2.0711 | 6.2932 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00017 | -.00002 | 16.237 | -.00046 | .00401 | .00148 | .02280 |
| #2 | .00033 | -.00009 | 16.125 | -.00087 | .00378 | .00149 | .02560 |
| #3 | .00019 | -.00012 | 16.209 | -.00037 | .00377 | .00154 | .02327 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .54831 | 4.8772 | .00363 | -.00106 | 85.814 | -.00189 | .02136 |
| Stddev | .00063 | .0603  | .00007 | .00039  | .193   | .00014  | .00014 |
| %RSD   | .11469 | 1.2356 | 1.8987 | 36.289  | .22542 | 7.4387  | .63636 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .54814 | 4.8076 | .00368 | -.00122 | 85.632 | -.00189 | .02152 |
| #2 | .54778 | 4.9136 | .00365 | -.00135 | 85.793 | -.00175 | .02127 |
| #3 | .54900 | 4.9103 | .00355 | -.00062 | 86.017 | -.00203 | .02130 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 2.4067 | .00055 | .05309 | F 19.798 | 7.5904 | -.00906 | -.00259 |
| Stddev | .0265  | .00012 | .01370 | .100     | .0289  | .00019  | .00279  |
| %RSD   | 1.1009 | 22.018 | 25.812 | .50563   | .38131 | 2.1300  | 107.87  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 2.3827 | .00066 | .03948 | 19.689 | 7.6235 | -.00898 | -.00557 |
| #2 | 2.4351 | .00059 | .05290 | 19.817 | 7.5699 | -.00928 | -.00003 |
| #3 | 2.4024 | .00042 | .06688 | 19.886 | 7.5778 | -.00892 | -.00217 |

Sample Name: K3190-03      Acquired: 6/7/2019 20:27:28      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00646 | -.0034 | .12023 | 7.4965 | F<.00000 |
| Stddev | .00097  | .0018  | .00024 | .1516  | .45887   |
| %RSD   | 15.055  | 54.36  | .20286 | 2.0223 | 11.015   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00679 | -.0055 | .11999 | 7.3549 | -4.0611 |
| #2 | -.00537 | -.0025 | .12047 | 7.4781 | -3.7686 |
| #3 | -.00723 | -.0021 | .12024 | 7.6564 | -4.6682 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3498.3 | 48972. | 4702.3 | 61.787 | 3592.6 |
| Stddev    | 5.9    | 105.   | 26.0   | .836   | 13.4   |
| %RSD      | .16893 | .21415 | .55371 | 1.3522 | .37426 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3504.7 | 48878. | 4677.1 | 61.747 | 3608.1 |
| #2 | 3497.1 | 49085. | 4729.1 | 62.642 | 3585.0 |
| #3 | 3493.1 | 48953. | 4700.7 | 60.972 | 3584.7 |

Sample Name: K3190-05      Acquired: 6/7/2019 20:31:53      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00079 | .00103 | .02251 | -.00228 | -.00276 | .23483 | .07374 |
| Stddev | .00075 | .00114 | .00081 | .00158  | .00059  | .02688 | .00050 |
| %RSD   | 94.871 | 111.05 | 3.5780 | 69.050  | 21.395  | 11.446 | .67286 |

|    |        |         |        |         |         |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|
| #1 | .00161 | -.00008 | .02329 | -.00317 | -.00337 | .24417 | .07328 |
| #2 | .00017 | .00219  | .02168 | -.00046 | -.00274 | .20453 | .07426 |
| #3 | .00058 | .00096  | .02256 | -.00322 | -.00219 | .25579 | .07368 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00014 | -.00012 | 15.416 | -.00068 | .00246 | .00258 | .18600 |
| Stddev | .00005 | .00005  | .092   | .00033  | .00012 | .00021 | .00125 |
| %RSD   | 39.443 | 40.288  | .59805 | 49.368  | 4.8913 | 8.2750 | .67324 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00012 | -.00008 | 15.430 | -.00040 | .00236 | .00233 | .18745 |
| #2 | .00009 | -.00017 | 15.317 | -.00058 | .00260 | .00270 | .18532 |
| #3 | .00019 | -.00011 | 15.500 | -.00105 | .00243 | .00271 | .18523 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .61522 | 3.3277 | .00272 | -.00044 | 26.935 | -.00164 | .02438 |
| Stddev | .00031 | .0367  | .00034 | .00047  | .122   | .00035  | .00010 |
| %RSD   | .05081 | 1.1024 | 12.389 | 105.87  | .45181 | 21.205  | .39373 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .61519 | 3.3647 | .00308 | .00009  | 26.852 | -.00126 | .02432 |
| #2 | .61492 | 3.3271 | .00267 | -.00080 | 27.075 | -.00193 | .02449 |
| #3 | .61554 | 3.2914 | .00241 | -.00061 | 26.878 | -.00175 | .02434 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 1.7663 | .00333 | .00844 | 4.0283 | 7.8573 | -.00256 | .00628 |
| Stddev | .0212  | .00041 | .00890 | .0093  | .0436  | .00063  | .00325 |
| %RSD   | 1.1989 | 12.455 | 105.43 | .23127 | .55520 | 24.478  | 51.650 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 1.7764 | .00287 | .00400 | 4.0390 | 7.8558 | -.00187 | .00389 |
| #2 | 1.7806 | .00368 | .00264 | 4.0217 | 7.8144 | -.00310 | .00498 |
| #3 | 1.7420 | .00344 | .01868 | 4.0242 | 7.9017 | -.00271 | .00998 |

Sample Name: K3190-05      Acquired: 6/7/2019 20:31:53      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -0.00508 | -0.0003 | .10974 | 6.8651 | F<.00000 |
| Stddev | .00293   | .0011   | .00068 | .0619  | .52317   |
| %RSD   | 57.577   | 387.4   | .61937 | .90194 | 19.858   |

|    |          |         |        |        |         |
|----|----------|---------|--------|--------|---------|
| #1 | -0.00415 | -0.0005 | .10896 | 6.8798 | -2.0405 |
| #2 | -0.00836 | .0009   | .11021 | 6.7971 | -2.8366 |
| #3 | -0.00273 | -0.0012 | .11006 | 6.9183 | -3.0266 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3533.4 | 49749. | 4707.7 | 62.404 | 3710.6 |
| Stddev    | 6.6    | 74.    | 34.5   | 1.150  | 4.7    |
| %RSD      | .18600 | .14821 | .73305 | 1.8423 | .12556 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3526.0 | 49703. | 4700.5 | 61.719 | 3714.4 |
| #2 | 3538.6 | 49834. | 4745.3 | 63.731 | 3705.4 |
| #3 | 3535.5 | 49710. | 4677.4 | 61.761 | 3712.0 |

Sample Name: K3190-09      Acquired: 6/7/2019 20:36:17      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00293 | .00131 | .01627 | .00336 | .00083 | -.04534 | .09632 |
| Stddev | .00145 | .00218 | .00065 | .00243 | .00198 | .01886  | .00009 |
| %RSD   | 49.344 | 166.75 | 3.9849 | 72.418 | 240.09 | 41.588  | .09406 |

|    |        |         |        |        |         |         |        |
|----|--------|---------|--------|--------|---------|---------|--------|
| #1 | .00371 | .00300  | .01614 | .00614 | -.00070 | -.05879 | .09641 |
| #2 | .00126 | .00207  | .01697 | .00165 | .00012  | -.05346 | .09623 |
| #3 | .00383 | -.00115 | .01569 | .00229 | .00307  | -.02379 | .09632 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00026 | .00156 | 44.129 | -.00135 | .01577 | .01068 | 2.7790 |
| Stddev | .00003 | .00003 | .280   | .00026  | .00017 | .00030 | .0045  |
| %RSD   | 9.8066 | 2.2132 | .63490 | 19.239  | 1.0609 | 2.7726 | .16176 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00028 | .00154 | 44.026 | -.00115 | .01567 | .01035 | 2.7838 |
| #2 | .00023 | .00160 | 44.446 | -.00164 | .01596 | .01078 | 2.7749 |
| #3 | .00026 | .00155 | 43.914 | -.00126 | .01567 | .01091 | 2.7783 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.5645 | 5.4829 | .00072 | -.00072 | 82.581 | -.00522 | .02431 |
| Stddev | .0023  | .0144  | .00029 | .00045  | .419   | .00011  | .00020 |
| %RSD   | .14551 | .26245 | 39.986 | 62.476  | .50704 | 2.1940  | .83167 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 1.5655 | 5.4740 | .00072 | -.00123 | 83.063 | -.00533 | .02410 |
| #2 | 1.5619 | 5.4751 | .00043 | -.00054 | 82.305 | -.00510 | .02433 |
| #3 | 1.5661 | 5.4995 | .00100 | -.00039 | 82.375 | -.00524 | .02450 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 6.9770 | .00174 | .08106 | F 36.338 | 4.9183 | -.01488 | -.00508 |
| Stddev | .0582  | .00029 | .01089 | .077     | .0449  | .00010  | .00230  |
| %RSD   | .83414 | 16.558 | 13.430 | .21178   | .91364 | .68598  | 45.291  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 6.9434 | .00203 | .06854 | 36.426 | 4.8978 | -.01496 | -.00511 |
| #2 | 6.9434 | .00172 | .08630 | 36.298 | 4.9699 | -.01476 | -.00276 |
| #3 | 7.0442 | .00146 | .08833 | 36.288 | 4.8874 | -.01491 | -.00737 |

Sample Name: K3190-09      Acquired: 6/7/2019 20:36:17      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00678 | .0404  | .32955 | 7.4911 | F<.00000 |
| Stddev    | .00186  | .0008  | .00236 | .1172  | .31428   |
| %RSD      | 27.495  | 2.093  | .71510 | 1.5641 | 14.382   |
| #1        | -.00567 | .0404  | .32885 | 7.5443 | -1.8622  |
| #2        | -.00573 | .0413  | .33218 | 7.3567 | -2.2037  |
| #3        | -.00893 | .0396  | .32763 | 7.5722 | -2.4899  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3428.9  | 48710. | 4733.6 | 60.536 | 3461.3   |
| Stddev    | 4.8     | 229.   | 31.3   | 1.076  | 8.1      |
| %RSD      | .14134  | .47039 | .66140 | 1.7767 | .23544   |
| #1        | 3434.1  | 48459. | 4725.2 | 59.323 | 3464.4   |
| #2        | 3424.6  | 48908. | 4707.3 | 60.913 | 3452.0   |
| #3        | 3427.9  | 48764. | 4768.2 | 61.372 | 3467.3   |

Sample Name: K3190-11      Acquired: 6/7/2019 20:40:40      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00034 | .00191 | .01655 | .00353 | .00069 | -.03632 | .09484 |
| Stddev | .00382  | .00081 | .00058 | .00097 | .00226 | .02326  | .00020 |
| %RSD   | 1114.1  | 42.516 | 3.4874 | 27.372 | 325.65 | 64.050  | .21281 |

|    |         |        |        |        |         |         |        |
|----|---------|--------|--------|--------|---------|---------|--------|
| #1 | .00119  | .00150 | .01721 | .00464 | .00273  | -.06288 | .09461 |
| #2 | -.00469 | .00284 | .01612 | .00300 | .00108  | -.01960 | .09497 |
| #3 | .00247  | .00139 | .01633 | .00294 | -.00173 | -.02647 | .09494 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00024 | .00159 | 43.664 | -.00084 | .01542 | .01031 | 2.7157 |
| Stddev | .00005 | .00004 | .213   | .00029  | .00023 | .00008 | .0092  |
| %RSD   | 20.009 | 2.6927 | .48820 | 34.085  | 1.4965 | .73593 | .33716 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00027 | .00154 | 43.493 | -.00112 | .01542 | .01027 | 2.7260 |
| #2 | .00018 | .00162 | 43.903 | -.00055 | .01565 | .01040 | 2.7085 |
| #3 | .00026 | .00160 | 43.597 | -.00085 | .01519 | .01027 | 2.7125 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.5234 | 5.2693 | .00008 | -.00126 | 81.049 | -.00612 | .02325 |
| Stddev | .0010  | .0367  | .00049 | .00003  | .080   | .00019  | .00013 |
| %RSD   | .06889 | .69720 | 604.85 | 2.4339  | .09817 | 3.1353  | .57830 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | 1.5235 | 5.2725 | -.00013 | -.00128 | 81.121 | -.00633 | .02325 |
| #2 | 1.5244 | 5.2310 | .00064  | -.00128 | 81.063 | -.00596 | .02339 |
| #3 | 1.5223 | 5.3043 | -.00027 | -.00122 | 80.963 | -.00606 | .02312 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | 6.7756 | .00143 | .07625 | F 35.817 | 4.9211 | -.01465 | -.00511 |
| Stddev | .0180  | .00027 | .02271 | .064     | .0466  | .00038  | .00069  |
| %RSD   | .26577 | 18.662 | 29.778 | .17929   | .94686 | 2.5872  | 13.452  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 6.7959 | .00137 | .05016 | 35.865 | 4.8939 | -.01508 | -.00543 |
| #2 | 6.7614 | .00172 | .08711 | 35.744 | 4.9749 | -.01436 | -.00558 |
| #3 | 6.7695 | .00120 | .09150 | 35.842 | 4.8944 | -.01451 | -.00432 |



Sample Name: K3190-11      Acquired: 6/7/2019 20:40:40      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00764 | .0404  | .32540 | 7.4857 | F<.00000 |
| Stddev | .00273  | .0023  | .00079 | .0611  | .42121   |
| %RSD   | 35.707  | 5.734  | .24286 | .81664 | 22.126   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00528 | .0423 | .32456 | 7.4178 | -1.6841 |
| #2 | -.00702 | .0412 | .32549 | 7.5027 | -1.6377 |
| #3 | -.01063 | .0378 | .32614 | 7.5365 | -2.3893 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3425.6 | 48656. | 4696.0 | 60.074 | 3459.6 |
| Stddev    | 5.3    | 115.   | 5.4    | .688   | 8.6    |
| %RSD      | .15427 | .23712 | .11431 | 1.1453 | .24991 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3429.0 | 48559. | 4702.0 | 59.286 | 3459.4 |
| #2 | 3428.2 | 48784. | 4691.6 | 60.377 | 3468.3 |
| #3 | 3419.5 | 48624. | 4694.4 | 60.558 | 3451.0 |

Sample Name: K3227-01      Acquired: 6/7/2019 20:45:03      Type: Unk  
Method: P4-ICP2(v3186)      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 | .00033 | .11354 | .00144 | .00219 | .93381 | .14216 |
| Stddev | .00175  | .00143 | .00128 | .00258 | .00139 | .01894 | .00045 |
| %RSD   | 95.119  | 433.95 | 1.1292 | 179.06 | 63.473 | 2.0286 | .31848 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | .00018  | .00001  | .11465 | -.00032 | .00330 | .95526 | .14171 |
| #2 | -.00281 | -.00092 | .11214 | .00024  | .00263 | .91936 | .14261 |
| #3 | -.00291 | .00190  | .11384 | .00441  | .00063 | .92682 | .14216 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00020 | .00109 | 41.744 | .00438 | .00232 | .47478 | 1.7869 |
| Stddev | .00006 | .00002 | .156   | .00015 | .00032 | .00268 | .0078  |
| %RSD   | 32.183 | 1.9251 | .37352 | 3.3982 | 13.565 | .56501 | .43956 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00025 | .00110 | 41.708 | .00453 | .00196 | .47546 | 1.7956 |
| #2 | .00013 | .00111 | 41.609 | .00423 | .00251 | .47706 | 1.7847 |
| #3 | .00023 | .00107 | 41.915 | .00438 | .00250 | .47183 | 1.7804 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .18482 | 11.344 | .00904 | -.00115 | 249.96 | .00152 | 1.9528 |
| Stddev | .00056 | .073   | .00047 | .00027  | .92    | .00022 | .0123  |
| %RSD   | .30310 | .64648 | 5.1722 | 23.667  | .36856 | 14.522 | .63129 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .18417 | 11.305 | .00958 | -.00146 | 249.59 | .00178 | 1.9506 |
| #2 | .18517 | 11.429 | .00876 | -.00095 | 249.28 | .00138 | 1.9416 |
| #3 | .18511 | 11.299 | .00878 | -.00103 | 251.01 | .00141 | 1.9660 |

|        |        |        |        |          |          |         |        |
|--------|--------|--------|--------|----------|----------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm    |
| Avg    | 54.839 | .00152 | .03597 | F 18.897 | F 19.422 | -.00652 | .01533 |
| Stddev | .147   | .00027 | .01832 | .086     | .053     | .00029  | .00101 |
| %RSD   | .26788 | 17.891 | 50.919 | .45344   | .27212   | 4.4075  | 6.6145 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 54.669 | .00143 | .01811 | 18.900 | 19.377 | -.00670 | .01556 |
| #2 | 54.917 | .00130 | .03510 | 18.810 | 19.409 | -.00667 | .01621 |
| #3 | 54.930 | .00182 | .05471 | 18.982 | 19.480 | -.00619 | .01422 |

Sample Name: K3227-01      Acquired: 6/7/2019 20:45:03      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00383 | 4.100  | .21303 | 8.5318 | F<.00000 |
| Stddev    | .00127  | .010   | .00105 | .0863  | .32851   |
| %RSD      | 33.106  | .2500  | .49214 | 1.0118 | 7.1236   |
| #1        | -.00342 | 4.109  | .21202 | 8.5975 | -4.9875  |
| #2        | -.00282 | 4.089  | .21297 | 8.4340 | -4.3796  |
| #3        | -.00526 | 4.102  | .21411 | 8.5639 | -4.4676  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3320.9  | 46318. | 4608.2 | 60.379 | 3284.3   |
| Stddev    | 5.3     | 82.    | 27.2   | .761   | 21.6     |
| %RSD      | .15911  | .17608 | .58981 | 1.2608 | .65657   |
| #1        | 3322.0  | 46335. | 4616.3 | 61.180 | 3289.4   |
| #2        | 3325.6  | 46390. | 4630.4 | 60.293 | 3302.9   |
| #3        | 3315.2  | 46230. | 4577.9 | 59.665 | 3260.7   |

Sample Name: K3227-01DUP      Acquired: 6/7/2019 20:49:30      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00220 | .00126 | .11109 | .00162 | .00273 | .91833 | .14241 |
| Stddev | .00159 | .00123 | .00074 | .00090 | .00160 | .01676 | .00063 |
| %RSD   | 72.561 | 97.999 | .67060 | 55.541 | 58.514 | 1.8251 | .44434 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00147 | .00059 | .11085 | .00176 | .00281 | .91962 | .14303 |
| #2 | .00402 | .00050 | .11192 | .00066 | .00428 | .93441 | .14176 |
| #3 | .00110 | .00268 | .11049 | .00245 | .00109 | .90097 | .14245 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00030 | .00113 | 41.831 | .00452 | .00238 | .47293 | 1.7874 |
| Stddev | .00007 | .00008 | .330   | .00006 | .00008 | .00026 | .0022  |
| %RSD   | 22.419 | 6.9016 | .78935 | 1.3777 | 3.2245 | .05553 | .12525 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00025 | .00111 | 41.857 | .00457 | .00231 | .47319 | 1.7895 |
| #2 | .00027 | .00121 | 41.489 | .00445 | .00237 | .47293 | 1.7850 |
| #3 | .00037 | .00106 | 42.147 | .00454 | .00247 | .47267 | 1.7878 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .18571 | 11.406 | .00936 | -.00129 | 251.93 | .00130 | 1.9614 |
| Stddev | .00018 | .110   | .00028 | .00047  | .54    | .00026 | .0107  |
| %RSD   | .09849 | .96754 | 3.0000 | 36.273  | .21553 | 19.650 | .54765 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .18564 | 11.287 | .00956 | -.00171 | 252.51 | .00153 | 1.9567 |
| #2 | .18557 | 11.425 | .00904 | -.00079 | 251.44 | .00102 | 1.9538 |
| #3 | .18592 | 11.506 | .00949 | -.00136 | 251.83 | .00135 | 1.9736 |

|        |        |        |        |          |          |         |        |
|--------|--------|--------|--------|----------|----------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm    |
| Avg    | 54.960 | .00139 | .05468 | F 19.031 | F 19.417 | -.00600 | .01647 |
| Stddev | .039   | .00032 | .00661 | .150     | .170     | .00084  | .00212 |
| %RSD   | .07183 | 23.182 | 12.096 | .78629   | .87641   | 13.963  | 12.877 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 54.942 | .00169 | .04881 | 18.955 | 19.386 | -.00519 | .01864 |
| #2 | 54.933 | .00143 | .06184 | 18.935 | 19.265 | -.00687 | .01637 |
| #3 | 55.005 | .00105 | .05337 | 19.204 | 19.601 | -.00595 | .01440 |

Sample Name: K3227-01DUP      Acquired: 6/7/2019 20:49:30      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00475 | 4.108  | .21389 | 8.4927 | F<.00000 |
| Stddev | .00098  | .010   | .00132 | .0892  | .41428   |
| %RSD   | 20.577  | .2375  | .61589 | 1.0503 | 7.1607   |

|    |         |       |        |        |         |
|----|---------|-------|--------|--------|---------|
| #1 | -.00377 | 4.099 | .21353 | 8.4290 | -5.3101 |
| #2 | -.00476 | 4.105 | .21279 | 8.4544 | -6.0695 |
| #3 | -.00573 | 4.118 | .21535 | 8.5946 | -5.9767 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3318.9 | 46177. | 4598.0 | 57.886 | 3267.3 |
| Stddev    | 2.2    | 124.   | 36.8   | 2.416  | 17.3   |
| %RSD      | .06538 | .26864 | .80116 | 4.1734 | .52997 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3318.4 | 46034. | 4583.8 | 55.669 | 3270.2 |
| #2 | 3321.3 | 46246. | 4639.9 | 60.461 | 3282.9 |
| #3 | 3317.0 | 46252. | 4570.5 | 57.528 | 3248.7 |

Sample Name: CCV09      Acquired: 6/7/2019 20:53:47      Type: Unk  
Method: P4-ICP2(v3186)      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    | 5.1543 | 4.9307 | 4.9620   | 4.9971 | 5.2679 | 9.9089 | 9.8025 | .25218   |
| Stddev | .0266  | .0118  | .0046    | .0169  | .0099  | .0609  | .0595  | .00051   |
| %RSD   | .51615 | .24022 | .09318   | .33811 | .18832 | .61419 | .60643 | .20262   |
| #1     | 5.1839 | 4.9309 | 4.9673   | 5.0159 | 5.2683 | 9.8643 | 9.7351 | .25205   |
| #2     | 5.1466 | 4.9424 | 4.9591   | 4.9923 | 5.2776 | 9.9783 | 9.8474 | .25175   |
| #3     | 5.1324 | 4.9187 | 4.9596   | 4.9831 | 5.2578 | 9.8843 | 9.8249 | .25275   |
| Elem   | Cd2265 | Ca3736 | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3515 | 25.917 | .91686   | 2.4863 | 1.2794 | 4.7690 | 2.4600 | 24.868   |
| Stddev | .0018  | .014   | .00101   | .0028  | .0049  | .0044  | .0016  | .103     |
| %RSD   | .07656 | .05258 | .11003   | .11108 | .38549 | .09206 | .06465 | .41521   |
| #1     | 2.3535 | 25.932 | .91573   | 2.4870 | 1.2848 | 4.7715 | 2.4595 | 24.750   |
| #2     | 2.3499 | 25.909 | .91768   | 2.4886 | 1.2785 | 4.7716 | 2.4587 | 24.942   |
| #3     | 2.3510 | 25.908 | .91716   | 2.4832 | 1.2750 | 4.7639 | 2.4618 | 24.912   |
| Elem   | Ni2316 | Ag3280 | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3516 | 1.1840 | F 22.080 | 2.5478 | 2.5541 | 24.216 | 5.3408 | 4.7029   |
| Stddev | .0008  | .0032  | .127     | .0042  | .0050  | .162   | .0081  | .0546    |
| %RSD   | .03296 | .27297 | .57356   | .16472 | .19537 | .66835 | .15091 | 1.1617   |
| #1     | 2.3516 | 1.1877 | 21.957   | 2.5521 | 2.5588 | 24.069 | 5.3499 | 4.7596   |
| #2     | 2.3508 | 1.1828 | 22.210   | 2.5474 | 2.5547 | 24.389 | 5.3380 | 4.6984   |
| #3     | 2.3524 | 1.1815 | 22.071   | 2.5437 | 2.5489 | 24.189 | 5.3346 | 4.6506   |
| Elem   | S_1820 | Si2881 | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.1878 | 5.2017 | 4.7922   | 4.8170 | 4.5030 | 4.840  | 4.9284 | F 8.6775 |
| Stddev | .0231  | .0195  | .0058    | .0238  | .0162  | .006   | .0289  | .0503    |
| %RSD   | .44593 | .37510 | .12093   | .49477 | .35903 | .1316  | .58541 | .58024   |
| #1     | 5.2108 | 5.1994 | 4.7940   | 4.7900 | 4.4856 | 4.847  | 4.8955 | 8.6999   |
| #2     | 5.1880 | 5.2223 | 4.7969   | 4.8351 | 4.5175 | 4.838  | 4.9493 | 8.6199   |
| #3     | 5.1646 | 5.1834 | 4.7857   | 4.8259 | 4.5060 | 4.835  | 4.9405 | 8.7128   |

Sample Name: CCV09      Acquired: 6/7/2019 20:53:47      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F .46639  
Stddev      .96049  
%RSD      205.94

#1      .85421  
#2      -.62738  
#3      1.1723

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3288.0 | 46049. | 4437.9 | 55.705 | 3236.2 |
| Stddev    | 11.6   | 72.    | 6.4    | 1.536  | 12.0   |
| %RSD      | .35284 | .15537 | .14435 | 2.7575 | .37226 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3282.6 | 46044. | 4434.1 | 55.341 | 3229.5 |
| #2 | 3280.0 | 45981. | 4434.3 | 57.391 | 3229.1 |
| #3 | 3301.3 | 46123. | 4445.3 | 54.384 | 3250.2 |

Sample Name: CCB09      Acquired: 6/7/2019 20:57:46      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00309 | .00183 | -.00093 | .00133 | .00022 | -.01232 | .00335 |
| Stddev | .00050  | .00100 | .00028  | .00080 | .00110 | .01661  | .00045 |
| %RSD   | 16.167  | 54.902 | 29.653  | 60.147 | 494.08 | 134.81  | 13.443 |

|    |         |        |         |        |         |         |        |
|----|---------|--------|---------|--------|---------|---------|--------|
| #1 | -.00281 | .00214 | -.00102 | .00115 | -.00085 | .00229  | .00303 |
| #2 | -.00281 | .00264 | -.00116 | .00063 | .00135  | -.00886 | .00316 |
| #3 | -.00367 | .00071 | -.00062 | .00220 | .00016  | -.03039 | .00387 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00013 | -.00020 | .00077 | -.00041 | .00013 | .00053 | .00104 |
| Stddev | .00005 | .00002  | .00293 | .00009  | .00019 | .00051 | .00025 |
| %RSD   | 41.528 | 7.7527  | 380.58 | 21.220  | 143.45 | 96.024 | 24.175 |

|    |        |         |         |         |         |        |        |
|----|--------|---------|---------|---------|---------|--------|--------|
| #1 | .00019 | -.00018 | .00228  | -.00051 | .00011  | .00112 | .00083 |
| #2 | .00011 | -.00021 | .00263  | -.00038 | .00033  | .00019 | .00132 |
| #3 | .00009 | -.00021 | -.00260 | -.00035 | -.00004 | .00029 | .00097 |

|        |        |         |         |         |        |         |        |
|--------|--------|---------|---------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00009 | -.00591 | -.00034 | -.00096 | .37965 | -.00026 | .00002 |
| Stddev | .00003 | .05118  | .00031  | .00058  | .01068 | .00026  | .00014 |
| %RSD   | 32.593 | 865.60  | 91.426  | 60.455  | 2.8139 | 98.037  | 720.30 |

|    |        |         |         |         |        |         |         |
|----|--------|---------|---------|---------|--------|---------|---------|
| #1 | .00007 | -.00810 | -.00059 | -.00052 | .36884 | -.00047 | .00011  |
| #2 | .00007 | .04632  | -.00044 | -.00075 | .37991 | .00002  | -.00014 |
| #3 | .00012 | -.05596 | .00001  | -.00162 | .39021 | -.00034 | .00008  |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | .10466 | .00059 | .01721 | F .01229 | .00868 | -.00105 | -.00318 |
| Stddev | .03958 | .00014 | .02189 | .00540   | .00191 | .00047  | .00123  |
| %RSD   | 37.821 | 24.250 | 127.20 | 43.965   | 21.998 | 44.754  | 38.646  |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | .09425 | .00060 | .03732  | .01530 | .01000 | -.00073 | -.00177 |
| #2 | .14840 | .00072 | -.00611 | .00605 | .00954 | -.00083 | -.00398 |
| #3 | .07132 | .00044 | .02041  | .01551 | .00649 | -.00158 | -.00380 |



Sample Name: CCB09      Acquired: 6/7/2019 20:57:46      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00438 | -.0063 | .00035 | F 7.2821 | F<.00000 |
| Stddev    | .00127  | .0019  | .00004 | .2847    | .41790   |
| %RSD      | 28.901  | 29.81  | 10.960 | 3.9097   | 24.967   |
| #1        | -.00584 | -.0084 | .00031 | 6.9631   | -1.2236  |
| #2        | -.00367 | -.0047 | .00039 | 7.3727   | -1.7484  |
| #3        | -.00363 | -.0058 | .00034 | 7.5105   | -2.0493  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3449.2  | 48587. | 4510.6 | 58.607   | 3617.6   |
| Stddev    | .6      | 75.    | 44.9   | .324     | 11.4     |
| %RSD      | .01610  | .15396 | .99485 | .55343   | .31423   |
| #1        | 3448.8  | 48532. | 4459.6 | 58.920   | 3606.4   |
| #2        | 3449.0  | 48672. | 4544.0 | 58.273   | 3629.1   |
| #3        | 3449.9  | 48556. | 4528.1 | 58.627   | 3617.4   |

Sample Name: K3227-01LX5      Acquired: 6/7/2019 21:02:15      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00122 | .00207 | .02345 | -.00321 | .00136 | .16901 | .03033 |
| Stddev | .00117 | .00049 | .00149 | .00094  | .00124 | .02096 | .00048 |
| %RSD   | 95.258 | 23.767 | 6.3754 | 29.237  | 91.426 | 12.403 | 1.5708 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00062 | .00226 | .02172 | -.00214 | .00257 | .15452 | .03020 |
| #2 | .00049 | .00151 | .02438 | -.00361 | .00141 | .15946 | .02993 |
| #3 | .00257 | .00243 | .02424 | -.00388 | .00009 | .19304 | .03086 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00018 | .00003 | 8.7570 | .00048 | .00060 | .10022 | .37521 |
| Stddev | .00003 | .00007 | .0613  | .00073 | .00017 | .00091 | .00390 |
| %RSD   | 15.739 | 246.16 | .70030 | 152.39 | 28.629 | .90435 | 1.0383 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00017 | .00011  | 8.7525 | .00003 | .00071 | .10126 | .37964 |
| #2 | .00021 | -.00002 | 8.8204 | .00009 | .00040 | .09984 | .37232 |
| #3 | .00015 | -.00000 | 8.6980 | .00132 | .00068 | .09957 | .37367 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .03852 | 2.3061 | .00101 | -.00085 | 50.088 | .00008 | .39059 |
| Stddev | .00034 | .1013  | .00040 | .00027  | .036   | .00031 | .00267 |
| %RSD   | .87746 | 4.3916 | 39.454 | 31.353  | .07288 | 406.70 | .68283 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | .03887 | 2.1965 | .00071 | -.00058 | 50.060 | -.00018 | .39344 |
| #2 | .03848 | 2.3257 | .00086 | -.00084 | 50.129 | -.00002 | .38815 |
| #3 | .03820 | 2.3961 | .00147 | -.00111 | 50.074 | .00042  | .39019 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 10.956 | .00022 | .00348 | 3.7110 | 4.0278 | -.00150 | -.00030 |
| Stddev | .075   | .00028 | .01419 | .0317  | .0317  | .00053  | .00031  |
| %RSD   | .68048 | 125.37 | 407.31 | .85419 | .78762 | 35.553  | 102.55  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | 10.898 | .00040  | -.00811 | 3.7462 | 4.0636 | -.00201 | -.00065 |
| #2 | 10.929 | .00038  | -.00075 | 3.6847 | 4.0169 | -.00152 | -.00009 |
| #3 | 11.040 | -.00010 | .01931  | 3.7020 | 4.0030 | -.00095 | -.00016 |

Sample Name: K3227-01LX5      Acquired: 6/7/2019 21:02:15      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00691 | .7992  | .04416 | 7.8136 | F<.00000 |
| Stddev    | .00153  | .0027  | .00032 | .1903  | .61148   |
| %RSD      | 22.087  | .3375  | .73146 | 2.4352 | 20.213   |
| #1        | -.00867 | .8023  | .04383 | 7.6483 | -3.1343  |
| #2        | -.00605 | .7974  | .04418 | 8.0216 | -3.5748  |
| #3        | -.00600 | .7979  | .04447 | 7.7708 | -2.3665  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3378.2  | 47479. | 4567.8 | 58.797 | 3420.9   |
| Stddev    | 2.4     | 142.   | 20.3   | 1.414  | 23.2     |
| %RSD      | .07098  | .29982 | .44548 | 2.4051 | .67915   |
| #1        | 3375.7  | 47318. | 4556.4 | 59.704 | 3406.2   |
| #2        | 3378.4  | 47588. | 4555.7 | 59.518 | 3447.7   |
| #3        | 3380.5  | 47530. | 4591.3 | 57.167 | 3408.9   |

Sample Name: K3227-01MS      Acquired: 6/7/2019 21:06:36      Type: Unk  
Method: P4-ICP2(v3186)      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    | .93853 | 2.1407 | 1.2146 | 2.2844 | .91967 | 3.1926 | .36248 |
| Stddev | .00159 | .0043  | .0021  | .0084  | .00349 | .0182  | .00104 |
| %RSD   | .16894 | .20110 | .16854 | .36858 | .37919 | .57091 | .28676 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .93771 | 2.1373 | 1.2165 | 2.2846 | .92159 | 3.2110 | .36138 |
| #2 | .94036 | 2.1455 | 1.2124 | 2.2758 | .91564 | 3.1923 | .36263 |
| #3 | .93753 | 2.1394 | 1.2147 | 2.2927 | .92178 | 3.1745 | .36344 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .23460 | .21239 | 42.481 | .42905 | .23168 | .81299 | 4.7070 |
| Stddev | .00066 | .00045 | .131   | .00169 | .00100 | .00053 | .0140  |
| %RSD   | .28099 | .21234 | .30902 | .39485 | .42978 | .06552 | .29708 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .23519 | .21278 | 42.626 | .43098 | .23179 | .81352 | 4.7201 |
| #2 | .23471 | .21190 | 42.446 | .42833 | .23063 | .81298 | 4.7088 |
| #3 | .23389 | .21251 | 42.370 | .42783 | .23261 | .81246 | 4.6923 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .39901 | 13.093 | .54236 | .07590 | 243.80 | .31499 | 2.0332 |
| Stddev | .00094 | .164   | .00118 | .00042 | 2.09   | .00097 | .0015  |
| %RSD   | .23538 | 1.2492 | .21775 | .55566 | .85530 | .30925 | .07211 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .39826 | 12.910 | .54358 | .07572 | 244.42 | .31421 | 2.0338 |
| #2 | .40006 | 13.225 | .54122 | .07560 | 241.48 | .31608 | 2.0343 |
| #3 | .39872 | 13.143 | .54229 | .07638 | 245.51 | .31467 | 2.0316 |

|        |        |        |        |          |          |        |        |
|--------|--------|--------|--------|----------|----------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm    | ppm    |
| Avg    | 63.106 | .48624 | .36471 | F 18.121 | F 20.224 | .32505 | .20366 |
| Stddev | .315   | .00195 | .01033 | .037     | .084     | .00112 | .00174 |
| %RSD   | .49942 | .40083 | 2.8337 | .20400   | .41334   | .34600 | .85207 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 62.955 | .48522 | .36591 | 18.100 | 20.319 | .32410 | .20535 |
| #2 | 62.894 | .48500 | .35383 | 18.100 | 20.160 | .32477 | .20189 |
| #3 | 63.468 | .48848 | .37439 | 18.164 | 20.194 | .32629 | .20375 |

Sample Name: K3227-01MS      Acquired: 6/7/2019 21:06:36      Type: Unk  
Method: P4-ICP2(v3186)      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       | .20284 | F 10.19 | .42514 | 8.4480 | F<.00000 |
| Stddev    | .00276 | .01     | .00258 | .0813  | .73576   |
| %RSD      | 1.3631 | .1289   | .60756 | .96250 | 48.388   |
| #1        | .19995 | 10.19   | .42548 | 8.3563 | -1.1101  |
| #2        | .20546 | 10.18   | .42241 | 8.5113 | -1.0816  |
| #3        | .20310 | 10.20   | .42754 | 8.4764 | -2.3700  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3319.4 | 46574.  | 4532.1 | 58.840 | 3263.3   |
| Stddev    | 9.6    | 117.    | 27.1   | .941   | 4.4      |
| %RSD      | .28964 | .25070  | .59764 | 1.5992 | .13550   |
| #1        | 3330.5 | 46471.  | 4505.2 | 59.779 | 3267.6   |
| #2        | 3314.6 | 46700.  | 4559.4 | 58.843 | 3258.8   |
| #3        | 3313.1 | 46550.  | 4531.6 | 57.897 | 3263.6   |

Sample Name: K3227-01MSD      Acquired: 6/7/2019 21:10:45      Type: Unk  
Method: P4-ICP2(v3186)      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    | .92756   | 2.1341   | 1.2150 | 2.2815 | .92195 | 3.1692  | .36254 | .23344 |
| Stddev | .00562   | .0093    | .0031  | .0036  | .00336 | .0284   | .00194 | .00084 |
| %RSD   | .60567   | .43548   | .25589 | .15652 | .36398 | .89745  | .53517 | .35978 |
| #1     | .93130   | 2.1241   | 1.2116 | 2.2857 | .92222 | 3.1368  | .36038 | .23347 |
| #2     | .92110   | 2.1355   | 1.2177 | 2.2793 | .92517 | 3.1902  | .36412 | .23426 |
| #3     | .93027   | 2.1426   | 1.2157 | 2.2796 | .91847 | 3.1806  | .36313 | .23258 |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .21186   | 42.093   | .42382 | .23183 | .80924 | 4.6434  | .39582 | 13.090 |
| Stddev | .00033   | .115     | .00051 | .00047 | .00064 | .0054   | .00094 | .187   |
| %RSD   | .15795   | .27290   | .12096 | .20225 | .07929 | .11636  | .23814 | 1.4252 |
| #1     | .21159   | 42.214   | .42324 | .23131 | .80973 | 4.6464  | .39514 | 12.915 |
| #2     | .21224   | 41.985   | .42422 | .23221 | .80852 | 4.6371  | .39690 | 13.068 |
| #3     | .21176   | 42.081   | .42400 | .23197 | .80948 | 4.6466  | .39542 | 13.286 |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .54085   | .07605   | 245.01 | .31236 | 2.0273 | 63.320  | .48735 | .38403 |
| Stddev | .00188   | .00061   | 1.23   | .00041 | .0062  | .393    | .00052 | .01811 |
| %RSD   | .34835   | .80091   | .50202 | .13229 | .30740 | .62091  | .10652 | 4.7154 |
| #1     | .53872   | .07662   | 243.81 | .31284 | 2.0204 | 62.902  | .48731 | .40354 |
| #2     | .54232   | .07612   | 246.27 | .31209 | 2.0325 | 63.682  | .48788 | .36777 |
| #3     | .54150   | .07541   | 244.95 | .31216 | 2.0289 | 63.378  | .48685 | .38078 |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | F 18.208 | F 20.100 | .32441 | .20379 | .20215 | F 10.18 | .42452 | 8.5263 |
| Stddev | .093     | .062     | .00157 | .00368 | .00067 | .03     | .00119 | .2204  |
| %RSD   | .51289   | .30658   | .48327 | 1.8039 | .32995 | .2646   | .28029 | 2.5845 |
| #1     | 18.116   | 20.170   | .32289 | .19960 | .20207 | 10.15   | .42318 | 8.3906 |
| #2     | 18.302   | 20.055   | .32602 | .20531 | .20285 | 10.19   | .42543 | 8.7806 |
| #3     | 18.206   | 20.075   | .32431 | .20646 | .20152 | 10.20   | .42497 | 8.4077 |

Sample Name: K3227-01MSD      Acquired: 6/7/2019 21:10:45      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | .64441  |
| %RSD   | 177.57  |

|    |         |
|----|---------|
| #1 | -1.0619 |
| #2 | .20749  |
| #3 | -.23429 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3312.5 | 46322. | 4532.1 | 58.102 | 3240.6 |
| Stddev    | 2.9    | 96.    | 11.7   | .734   | 10.3   |
| %RSD      | .08853 | .20703 | .25807 | 1.2630 | .31810 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3310.7 | 46384. | 4518.8 | 57.352 | 3252.5 |
| #2 | 3315.9 | 46212. | 4540.7 | 58.819 | 3235.7 |
| #3 | 3310.9 | 46370. | 4536.8 | 58.136 | 3233.7 |

Sample Name: K3227-01A      Acquired: 6/7/2019 21:14:51      Type: Unk  
Method: P4-ICP2(v3186)      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    | .93248   | 2.1541   | 1.2233 | 2.2966 | .92250 | 3.2063  | .36320 | .23385 |
| Stddev | .00904   | .0063    | .0064  | .0114  | .00700 | .0359   | .00268 | .00061 |
| %RSD   | .96991   | .29156   | .52640 | .49462 | .75884 | 1.1193  | .73905 | .25877 |
| #1     | .93572   | 2.1516   | 1.2225 | 2.2839 | .91586 | 3.2159  | .36048 | .23335 |
| #2     | .92226   | 2.1494   | 1.2173 | 2.3003 | .92183 | 3.2364  | .36585 | .23367 |
| #3     | .93946   | 2.1612   | 1.2301 | 2.3056 | .92981 | 3.1666  | .36329 | .23452 |
| Elem   | Cd2265   | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .21314   | 42.059   | .42519 | .23307 | .81247 | 4.6660  | .39637 | 13.102 |
| Stddev | .00114   | .246     | .00073 | .00157 | .00478 | .0022   | .00055 | .083   |
| %RSD   | .53497   | .58556   | .17137 | .67403 | .58825 | .04778  | .13999 | .63653 |
| #1     | .21276   | 42.339   | .42441 | .23350 | .80772 | 4.6664  | .39701 | 13.063 |
| #2     | .21224   | 41.873   | .42530 | .23132 | .81242 | 4.6679  | .39611 | 13.045 |
| #3     | .21442   | 41.966   | .42586 | .23437 | .81728 | 4.6636  | .39600 | 13.197 |
| Elem   | Ni2316   | Ag3280   | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .54594   | .07606   | 244.38 | .31315 | 2.0315 | 63.502  | .48693 | .36021 |
| Stddev | .00359   | .00033   | .80    | .00048 | .0056  | .212    | .00370 | .01786 |
| %RSD   | .65758   | .43532   | .32932 | .15177 | .27442 | .33429  | .75938 | 4.9588 |
| #1     | .54667   | .07570   | 243.55 | .31351 | 2.0365 | 63.257  | .48357 | .34691 |
| #2     | .54204   | .07616   | 245.15 | .31261 | 2.0254 | 63.628  | .48633 | .38051 |
| #3     | .54911   | .07634   | 244.44 | .31334 | 2.0325 | 63.620  | .49089 | .35321 |
| Elem   | S_1820   | Si2881   | Sn1899 | Ti3361 | Li6707 | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | F 18.221 | F 20.389 | .33411 | .20421 | .20388 | F 10.25 | .42575 | 8.4856 |
| Stddev | .081     | .138     | .00202 | .00203 | .00166 | .04     | .00040 | .0667  |
| %RSD   | .44327   | .67918   | .60320 | .99494 | .81198 | .4303   | .09300 | .78564 |
| #1     | 18.308   | 20.543   | .33346 | .20190 | .20397 | 10.25   | .42596 | 8.4585 |
| #2     | 18.147   | 20.275   | .33251 | .20500 | .20549 | 10.20   | .42529 | 8.4367 |
| #3     | 18.209   | 20.348   | .33637 | .20572 | .20218 | 10.29   | .42599 | 8.5615 |



Sample Name: K3227-01A      Acquired: 6/7/2019 21:14:51      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      <.00000  
Stddev      .83153  
%RSD      103.51

#1      -1.4990  
#2      .11764  
#3      -1.0287

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3307.2 | 46348. | 4526.8 | 57.457 | 3237.7 |
| Stddev    | 7.3    | 53.    | 18.3   | .973   | 12.1   |
| %RSD      | .22200 | .11440 | .40316 | 1.6928 | .37519 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3313.2 | 46404. | 4505.9 | 58.481 | 3230.0 |
| #2 | 3309.4 | 46340. | 4539.5 | 57.344 | 3251.7 |
| #3 | 3299.0 | 46299. | 4535.1 | 56.546 | 3231.4 |

Sample Name: K3234-01      Acquired: 6/7/2019 21:18:57      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00298 | .00274 | .07712 | -.00021 | .00053 | .41790 | 2.2897 |
| Stddev | .00177  | .00033 | .00018 | .00297  | .00087 | .01642 | .0067  |
| %RSD   | 59.273  | 12.133 | .23134 | 1419.6  | 163.92 | 3.9297 | .29389 |

|    |         |        |        |         |         |        |        |
|----|---------|--------|--------|---------|---------|--------|--------|
| #1 | -.00461 | .00256 | .07731 | -.00353 | -.00046 | .43030 | 2.2824 |
| #2 | -.00111 | .00312 | .07710 | .00221  | .00116  | .39928 | 2.2956 |
| #3 | -.00322 | .00254 | .07696 | .00069  | .00090  | .42413 | 2.2911 |

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00027 | -.00031 | 30.952 | .00159 | -.00011 | .23339 | .10316 |
| Stddev | .00008 | .00008  | .148   | .00026 | .00012  | .00246 | .00072 |
| %RSD   | 29.893 | 25.252  | .47742 | 16.619 | 116.66  | 1.0519 | .70110 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .00019 | -.00025 | 31.101 | .00130 | -.00020 | .23255 | .10346 |
| #2 | .00035 | -.00040 | 30.806 | .00182 | .00003  | .23146 | .10368 |
| #3 | .00027 | -.00028 | 30.950 | .00164 | -.00016 | .23615 | .10233 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00791 | 8.7049 | .00310 | -.00080 | 75.776 | .00036 | 1.0263 |
| Stddev | .00008 | .2020  | .00016 | .00033  | .355   | .00021 | .0005  |
| %RSD   | 1.0479 | 2.3207 | 5.0094 | 41.216  | .46822 | 60.211 | .05149 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .00799 | 8.4757 | .00323 | -.00043 | 75.394 | .00059 | 1.0259 |
| #2 | .00791 | 8.7823 | .00314 | -.00091 | 76.096 | .00016 | 1.0269 |
| #3 | .00782 | 8.8568 | .00293 | -.00106 | 75.837 | .00032 | 1.0261 |

|        |        |        |        |        |          |         |        |
|--------|--------|--------|--------|--------|----------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881   | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm     | ppm    |
| Avg    | 6.3795 | .00014 | .58303 | 9.3030 | F 23.564 | -.00502 | .01913 |
| Stddev | .0671  | .00029 | .01108 | .0169  | .119     | .00078  | .00314 |
| %RSD   | 1.0519 | 205.78 | 1.9001 | .18132 | .50602   | 15.527  | 16.386 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | 6.3020 | .00018  | .57245 | 9.3142 | 23.698 | -.00423 | .01733 |
| #2 | 6.4202 | .00040  | .59454 | 9.3113 | 23.469 | -.00579 | .01731 |
| #3 | 6.4162 | -.00017 | .58209 | 9.2836 | 23.525 | -.00502 | .02276 |

Sample Name: K3234-01      Acquired: 6/7/2019 21:18:57      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00615 | .8080  | .14831 | 7.4541 | F<.00000 |
| Stddev    | .00107  | .0027  | .00020 | .1114  | .31012   |
| %RSD      | 17.394  | .3366  | .13596 | 1.4943 | 10.832   |
| #1        | -.00496 | .8049  | .14811 | 7.5448 | -2.5066  |
| #2        | -.00703 | .8099  | .14830 | 7.3298 | -3.0109  |
| #3        | -.00647 | .8092  | .14851 | 7.4878 | -3.0714  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3420.5  | 48255. | 4683.8 | 60.613 | 3461.0   |
| Stddev    | 1.2     | 139.   | 25.6   | 1.500  | 2.8      |
| %RSD      | .03519  | .28729 | .54608 | 2.4756 | .08084   |
| #1        | 3421.8  | 48305. | 4666.0 | 61.683 | 3462.6   |
| #2        | 3420.0  | 48361. | 4713.1 | 61.258 | 3457.8   |
| #3        | 3419.5  | 48098. | 4672.4 | 58.898 | 3462.7   |

Sample Name: K3235-01      Acquired: 6/7/2019 21:23:18      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00251 | .00266 | .06226 | -.00246 | -.00134 | -.09357 | .42869 |
| Stddev | .00416 | .00124 | .00103 | .00063  | .00168  | .01330  | .00327 |
| %RSD   | 165.85 | 46.750 | 1.6498 | 25.751  | 125.28  | 14.216  | .76393 |

|    |         |        |        |         |         |         |        |
|----|---------|--------|--------|---------|---------|---------|--------|
| #1 | .00329  | .00370 | .06111 | -.00318 | -.00008 | -.10868 | .42546 |
| #2 | .00621  | .00128 | .06255 | -.00216 | -.00070 | -.08840 | .43201 |
| #3 | -.00199 | .00299 | .06310 | -.00203 | -.00325 | -.08363 | .42860 |

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00016 | -.00040 | 93.513 | .00013 | -.00008 | .01020 | .00734 |
| Stddev | .00004 | .00006  | .878   | .00057 | .00026  | .00041 | .00045 |
| %RSD   | 25.391 | 15.707  | .93937 | 453.28 | 313.06  | 3.9777 | 6.1261 |

|    |        |         |        |         |         |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|
| #1 | .00017 | -.00036 | 94.523 | .00069  | -.00030 | .01047 | .00784 |
| #2 | .00011 | -.00047 | 93.090 | .00014  | -.00016 | .00974 | .00724 |
| #3 | .00019 | -.00038 | 92.927 | -.00045 | .00021  | .01040 | .00696 |

|        |        |        |         |         |        |        |        |
|--------|--------|--------|---------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00123 | 19.541 | -.00133 | -.00199 | 25.676 | .01666 | .12901 |
| Stddev | .00003 | .245   | .00043  | .00044  | .102   | .00040 | .00048 |
| %RSD   | 2.8043 | 1.2528 | 32.483  | 22.142  | .39664 | 2.4003 | .37008 |

|    |        |        |         |         |        |        |        |
|----|--------|--------|---------|---------|--------|--------|--------|
| #1 | .00125 | 19.274 | -.00183 | -.00160 | 25.561 | .01670 | .12952 |
| #2 | .00124 | 19.597 | -.00110 | -.00190 | 25.709 | .01624 | .12893 |
| #3 | .00119 | 19.754 | -.00107 | -.00247 | 25.757 | .01704 | .12858 |

|        |        |        |        |          |          |         |         |
|--------|--------|--------|--------|----------|----------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881   | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      | ppm     | ppm     |
| Avg    | 2.2210 | .00069 | .19688 | F 33.717 | F 19.115 | -.01381 | -.00755 |
| Stddev | .0333  | .00026 | .00695 | .095     | .191     | .00054  | .00122  |
| %RSD   | 1.5017 | 36.993 | 3.5297 | .28158   | .99740   | 3.9321  | 16.162  |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 2.1844 | .00054 | .18922 | 33.822 | 19.334 | -.01416 | -.00883 |
| #2 | 2.2498 | .00055 | .19863 | 33.693 | 19.020 | -.01318 | -.00641 |
| #3 | 2.2286 | .00099 | .20278 | 33.636 | 18.990 | -.01409 | -.00740 |

Sample Name: K3235-01      Acquired: 6/7/2019 21:23:18      Type: Unk  
 Method: P4-ICP2(v3186)      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       | .03065 | .0475  | .32256 | 7.1557 | F<.00000 |
| Stddev    | .00161 | .0012  | .00063 | .1009  | .40272   |
| %RSD      | 5.2451 | 2.571  | .19604 | 1.4101 | 14.348   |
| #1        | .03131 | .0485  | .32316 | 7.2588 | -2.9892  |
| #2        | .03182 | .0461  | .32190 | 7.1514 | -2.3453  |
| #3        | .02882 | .0478  | .32263 | 7.0571 | -3.0862  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3380.0 | 47714. | 4615.2 | 60.793 | 3480.2   |
| Stddev    | 5.9    | 48.    | 40.6   | .695   | 4.2      |
| %RSD      | .17416 | .10003 | .87946 | 1.1439 | .11982   |
| #1        | 3380.9 | 47662. | 4568.7 | 61.326 | 3475.6   |
| #2        | 3385.4 | 47755. | 4643.7 | 60.007 | 3481.3   |
| #3        | 3373.7 | 47726. | 4633.1 | 61.048 | 3483.7   |

Sample Name: K3158-02      Acquired: 6/7/2019 21:27:50      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00192 | .00078 | .01135 | .00057 | .00280 | .05917 | .09567 |
| Stddev | .00308 | .00130 | .00181 | .00215 | .00117 | .03296 | .00099 |
| %RSD   | 160.37 | 167.02 | 15.946 | 374.24 | 41.608 | 55.709 | 1.0354 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | .00511  | .00212  | .01190 | -.00183 | .00147 | .09562 | .09626 |
| #2 | .00167  | -.00048 | .01282 | .00123  | .00332 | .03146 | .09453 |
| #3 | -.00103 | .00070  | .00933 | .00232  | .00362 | .05043 | .09623 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00015 | -.00042 | 33.205 | -.00068 | .00758 | .00577 | .47915 |
| Stddev | .00008 | .00017  | .087   | .00024  | .00014 | .00022 | .00380 |
| %RSD   | 51.685 | 41.404  | .26151 | 35.629  | 1.7899 | 3.8118 | .79406 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00016 | -.00025 | 33.107 | -.00084 | .00743 | .00584 | .48341 |
| #2 | .00007 | -.00060 | 33.240 | -.00040 | .00770 | .00552 | .47793 |
| #3 | .00023 | -.00042 | 33.269 | -.00080 | .00761 | .00594 | .47610 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.0194 | 1.1337 | .00172 | -.00188 | 295.77 | -.00427 | .03778 |
| Stddev | .0002  | .0224  | .00024 | .00057  | 1.68   | .00067  | .00005 |
| %RSD   | .02233 | 1.9782 | 13.997 | 30.522  | .56965 | 15.632  | .12872 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 1.0192 | 1.1101 | .00193 | -.00248 | 293.90 | -.00468 | .03772 |
| #2 | 1.0197 | 1.1547 | .00175 | -.00182 | 297.18 | -.00350 | .03779 |
| #3 | 1.0193 | 1.1362 | .00146 | -.00134 | 296.23 | -.00462 | .03781 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.2723 | -.00012 | .00925 | .41246 | .68644 | -.00002 | -.00285 |
| Stddev | .0059  | .00006  | .02052 | .00598 | .00616 | .00071  | .00238  |
| %RSD   | .46386 | 52.382  | 221.77 | 1.4491 | .89726 | 3358.8  | 83.460  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | 1.2709 | -.00015 | .00174  | .41381 | .68944 | -.00002 | -.00553 |
| #2 | 1.2671 | -.00005 | -.00645 | .41764 | .67936 | -.00073 | -.00097 |
| #3 | 1.2787 | -.00017 | .03248  | .40592 | .69053 | .00069  | -.00205 |

Sample Name: K3158-02      Acquired: 6/7/2019 21:27:50      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00365 | -.0029 | .08739 | 9.0711 | F<.00000 |
| Stddev    | .00109  | .0009  | .00048 | .0857  | .40292   |
| %RSD      | 29.929  | 31.00  | .55048 | .94445 | 6.9571   |
| #1        | -.00348 | -.0023 | .08709 | 8.9953 | -5.5933  |
| #2        | -.00481 | -.0025 | .08714 | 9.0541 | -6.2552  |
| #3        | -.00265 | -.0039 | .08794 | 9.1641 | -5.5262  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3165.5  | 44101. | 4367.8 | 55.130 | 3128.0   |
| Stddev    | 11.1    | 147.   | 13.4   | 1.531  | 1.4      |
| %RSD      | .35135  | .33352 | .30622 | 2.7776 | .04428   |
| #1        | 3177.3  | 44061. | 4376.9 | 53.816 | 3129.5   |
| #2        | 3163.9  | 43978. | 4352.4 | 54.761 | 3126.9   |
| #3        | 3155.2  | 44264. | 4374.0 | 56.811 | 3127.5   |

Sample Name: K3158-02DUP      Acquired: 6/7/2019 21:32:24      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00042 | -.00009 | .01077 | -.00009 | .00148 | .06154 | .09682 |
| Stddev | .00176  | .00117  | .00143 | .00186  | .00224 | .01291 | .00105 |
| %RSD   | 419.74  | 1304.8  | 13.318 | 2054.7  | 151.50 | 20.983 | 1.0805 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | .00104  | -.00141 | .00939 | -.00220 | .00391  | .07579 | .09566 |
| #2 | .00007  | .00080  | .01225 | .00131  | .00101  | .05060 | .09770 |
| #3 | -.00237 | .00035  | .01067 | .00061  | -.00049 | .05824 | .09709 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00019 | -.00033 | 33.115 | -.00042 | .00742 | .00609 | .48062 |
| Stddev | .00006 | .00006  | .275   | .00024  | .00021 | .00015 | .00264 |
| %RSD   | 31.423 | 16.538  | .83026 | 56.982  | 2.7867 | 2.4741 | .54930 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00023 | -.00033 | 33.073 | -.00042 | .00765 | .00625 | .47814 |
| #2 | .00012 | -.00028 | 32.864 | -.00018 | .00724 | .00607 | .48339 |
| #3 | .00021 | -.00039 | 33.409 | -.00065 | .00739 | .00595 | .48033 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.0230 | 1.1569 | .00179 | -.00194 | 297.62 | -.00404 | .03776 |
| Stddev | .0039  | .0430  | .00055 | .00078  | .95    | .00026  | .00024 |
| %RSD   | .38361 | 3.7164 | 30.791 | 40.143  | .31766 | 6.4968  | .63630 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 1.0190 | 1.1075 | .00191 | -.00279 | 296.72 | -.00409 | .03803 |
| #2 | 1.0268 | 1.1776 | .00228 | -.00175 | 297.54 | -.00375 | .03768 |
| #3 | 1.0233 | 1.1857 | .00119 | -.00127 | 298.61 | -.00427 | .03757 |

|        |        |         |        |        |        |        |         |
|--------|--------|---------|--------|--------|--------|--------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | 1.2612 | -.00016 | .02412 | .40956 | .67481 | .00056 | -.00418 |
| Stddev | .0401  | .00018  | .00302 | .00348 | .00524 | .00055 | .00054  |
| %RSD   | 3.1825 | 111.65  | 12.522 | .84891 | .77660 | 97.345 | 12.981  |

|    |        |         |        |        |        |        |         |
|----|--------|---------|--------|--------|--------|--------|---------|
| #1 | 1.2222 | -.00035 | .02157 | .40911 | .66893 | .00013 | -.00370 |
| #2 | 1.3024 | -.00015 | .02334 | .41324 | .67652 | .00118 | -.00407 |
| #3 | 1.2591 | .00001  | .02746 | .40633 | .67899 | .00038 | -.00477 |



Sample Name: K3158-02DUP      Acquired: 6/7/2019 21:32:24      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -0.00393 | -0.0002 | .08719 | 9.1617 | F<.00000 |
| Stddev | .00035   | .0014   | .00040 | .1616  | .97552   |
| %RSD   | 8.8052   | 771.7   | .46303 | 1.7644 | 16.544   |

|    |          |         |        |        |         |
|----|----------|---------|--------|--------|---------|
| #1 | -0.00427 | -0.0006 | .08672 | 9.0875 | -4.8188 |
| #2 | -0.00394 | -0.0013 | .08744 | 9.3472 | -6.1509 |
| #3 | -0.00358 | .0014   | .08740 | 9.0505 | -6.7194 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3176.1 | 44086. | 4402.6 | 55.995 | 3132.3 |
| Stddev    | 14.3   | 87.    | 31.5   | .549   | 15.8   |
| %RSD      | .45044 | .19689 | .71473 | .98009 | .50345 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3166.8 | 44049. | 4392.1 | 56.241 | 3114.2 |
| #2 | 3168.9 | 44023. | 4438.0 | 55.366 | 3139.5 |
| #3 | 3192.6 | 44185. | 4377.8 | 56.377 | 3143.2 |

Sample Name: K3158-02LX5      Acquired: 6/7/2019 21:36:59      Type: Unk  
Method: P4-ICP2(v3186)      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    | .00014 | .00196 | .00268 | -.00112 | .00003 | .00172 | .02058 |
| Stddev | .00040 | .00107 | .00028 | .00344  | .00211 | .03309 | .00021 |
| %RSD   | 276.06 | 54.432 | 10.564 | 306.22  | 8294.6 | 1919.4 | 1.0010 |

|    |         |        |        |         |         |         |        |
|----|---------|--------|--------|---------|---------|---------|--------|
| #1 | -.00028 | .00312 | .00282 | .00285  | -.00034 | .00341  | .02049 |
| #2 | .00019  | .00174 | .00236 | -.00319 | -.00188 | -.03217 | .02043 |
| #3 | .00052  | .00102 | .00287 | -.00302 | .00230  | .03393  | .02081 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00011 | -.00033 | 6.8408 | -.00079 | .00164 | .00128 | .09805 |
| Stddev | .00006 | .00002  | .0299  | .00038  | .00018 | .00053 | .00094 |
| %RSD   | 51.545 | 5.0779  | .43685 | 47.882  | 10.690 | 41.323 | .95866 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00005 | -.00034 | 6.8080 | -.00122 | .00172 | .00070 | .09866 |
| #2 | .00012 | -.00035 | 6.8664 | -.00060 | .00177 | .00140 | .09697 |
| #3 | .00016 | -.00032 | 6.8481 | -.00054 | .00144 | .00175 | .09852 |

|        |        |        |         |         |        |         |        |
|--------|--------|--------|---------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .20809 | .23830 | -.00068 | -.00120 | 59.451 | -.00042 | .00736 |
| Stddev | .00071 | .05668 | .00036  | .00066  | .183   | .00027  | .00008 |
| %RSD   | .33940 | 23.787 | 52.880  | 54.570  | .30859 | 63.492  | 1.1331 |

|    |        |        |         |         |        |         |        |
|----|--------|--------|---------|---------|--------|---------|--------|
| #1 | .20854 | .27584 | -.00106 | -.00045 | 59.239 | -.00021 | .00731 |
| #2 | .20727 | .26596 | -.00034 | -.00151 | 59.564 | -.00032 | .00745 |
| #3 | .20845 | .17309 | -.00065 | -.00165 | 59.550 | -.00072 | .00731 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .35173 | -.00034 | .00935 | .08285 | .14715 | -.00167 | -.00429 |
| Stddev | .01384 | .00032  | .02825 | .00308 | .00128 | .00084  | .00039  |
| %RSD   | 3.9344 | 95.368  | 302.17 | 3.7177 | .87075 | 50.103  | 9.1054  |

|    |        |         |         |        |        |         |         |
|----|--------|---------|---------|--------|--------|---------|---------|
| #1 | .35244 | -.00020 | -.00305 | .07930 | .14862 | -.00255 | -.00411 |
| #2 | .33755 | -.00070 | -.01058 | .08450 | .14628 | -.00088 | -.00401 |
| #3 | .36520 | -.00011 | .04168  | .08475 | .14656 | -.00158 | -.00473 |

Sample Name: K3158-02LX5      Acquired: 6/7/2019 21:36:59      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00407 | -.0043 | .01767 | 7.5153 | F<.00000 |
| Stddev    | .00168  | .0015  | .00013 | .3167  | .14860   |
| %RSD      | 41.317  | 34.81  | .75668 | 4.2142 | 3.3889   |
| #1        | -.00561 | -.0057 | .01772 | 7.5222 | -4.5519  |
| #2        | -.00431 | -.0046 | .01752 | 7.8284 | -4.2671  |
| #3        | -.00228 | -.0027 | .01777 | 7.1951 | -4.3359  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3361.7  | 46779. | 4488.1 | 57.704 | 3404.6   |
| Stddev    | 2.0     | 53.    | 12.4   | 1.472  | 9.2      |
| %RSD      | .05849  | .11245 | .27676 | 2.5513 | .27053   |
| #1        | 3361.3  | 46723. | 4500.9 | 56.814 | 3394.0   |
| #2        | 3363.8  | 46787. | 4476.0 | 59.403 | 3409.5   |
| #3        | 3360.0  | 46827. | 4487.3 | 56.895 | 3410.3   |

Sample Name: K3158-02MS      Acquired: 6/7/2019 21:41:27      Type: Unk  
Method: P4-ICP2(v3186)      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    | .93298 | 2.1302 | 1.1176 | 2.2974 | .95694 | 2.3914 | .32644 |
| Stddev | .00481 | .0050  | .0009  | .0183  | .00685 | .0029  | .00115 |
| %RSD   | .51506 | .23402 | .08294 | .79583 | .71590 | .12274 | .35203 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .92977 | 2.1266 | 1.1176 | 2.3034 | .96027 | 2.3937 | .32773 |
| #2 | .93066 | 2.1359 | 1.1167 | 2.2769 | .94906 | 2.3924 | .32554 |
| #3 | .93850 | 2.1282 | 1.1186 | 2.3119 | .96149 | 2.3881 | .32604 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .23047 | .21302 | 33.830 | .43212 | .23818 | .36054 | 3.7947 |
| Stddev | .00029 | .00030 | .092   | .00057 | .00126 | .00117 | .0053  |
| %RSD   | .12655 | .13946 | .27104 | .13084 | .53094 | .32493 | .13893 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .23039 | .21292 | 33.751 | .43257 | .23674 | .35954 | 3.7950 |
| #2 | .23023 | .21336 | 33.930 | .43231 | .23868 | .36026 | 3.7997 |
| #3 | .23080 | .21280 | 33.808 | .43149 | .23912 | .36183 | 3.7892 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.2112 | 3.4208 | .54356 | .07575 | 292.39 | .31900 | .27604 |
| Stddev | .0023  | .0371  | .00114 | .00104 | 1.24   | .00123 | .00060 |
| %RSD   | .19205 | 1.0845 | .21057 | 1.3725 | .42404 | .38549 | .21693 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.2139 | 3.4616 | .54268 | .07488 | 291.43 | .31816 | .27549 |
| #2 | 1.2095 | 3.4117 | .54485 | .07690 | 293.79 | .31842 | .27668 |
| #3 | 1.2103 | 3.3891 | .54315 | .07547 | 291.95 | .32041 | .27594 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 12.868 | .50632 | .34918 | .36831 | 1.6547 | .77300 | .22450 |
| Stddev | .068   | .00133 | .00971 | .00125 | .0088  | .00253 | .00234 |
| %RSD   | .52675 | .26230 | 2.7820 | .33875 | .52889 | .32772 | 1.0414 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 12.939 | .50673 | .34048 | .36937 | 1.6625 | .77344 | .22322 |
| #2 | 12.858 | .50484 | .34741 | .36693 | 1.6564 | .77528 | .22309 |
| #3 | 12.805 | .50740 | .35966 | .36862 | 1.6452 | .77027 | .22720 |

Sample Name: K3158-02MS      Acquired: 6/7/2019 21:41:27      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .21150 | 6.771  | .31454 | 9.1197 | F<.00000 |
| Stddev | .00286 | .005   | .00051 | .0842  | .25621   |
| %RSD   | 1.3510 | .0696  | .16238 | .92370 | 23.955   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .21445 | 6.765 | .31469 | 9.2170 | -.84741 |
| #2 | .21131 | 6.774 | .31397 | 9.0686 | -1.3498 |
| #3 | .20874 | 6.772 | .31495 | 9.0737 | -1.0114 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3183.4 | 44241. | 4331.2 | 56.295 | 3144.5 |
| Stddev    | 21.0   | 77.    | 11.9   | .232   | 2.6    |
| %RSD      | .65922 | .17416 | .27543 | .41278 | .08278 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3172.9 | 44215. | 4340.7 | 56.564 | 3141.6 |
| #2 | 3207.6 | 44181. | 4317.8 | 56.161 | 3146.6 |
| #3 | 3169.8 | 44328. | 4335.1 | 56.161 | 3145.3 |

Sample Name: CCV10      Acquired: 6/7/2019 21:45:43      Type: Unk  
Method: P4-ICP2(v3186)      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    | 5.1428 | 4.9241 | 4.9664 | 4.9716 | 5.2650   | 9.8301 | 9.7051 | .25222   |
| Stddev | .0095  | .0124  | .0105  | .0124  | .0043    | .0781  | .0741  | .00012   |
| %RSD   | .18534 | .25141 | .21121 | .24973 | .08144   | .79494 | .76347 | .04814   |
| #1     | 5.1505 | 4.9100 | 4.9656 | 4.9818 | 5.2601   | 9.7743 | 9.6197 | .25218   |
| #2     | 5.1458 | 4.9331 | 4.9564 | 4.9578 | 5.2680   | 9.7965 | 9.7521 | .25236   |
| #3     | 5.1322 | 4.9292 | 4.9773 | 4.9753 | 5.2670   | 9.9194 | 9.7436 | .25212   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247   | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.3506 | 26.178 | .91661 | 2.4866 | 1.2760   | 4.7789 | 2.4642 | 24.666   |
| Stddev | .0022  | .076   | .00149 | .0043  | .0036    | .0154  | .0072  | .222     |
| %RSD   | .09147 | .29215 | .16245 | .17119 | .27788   | .32261 | .29058 | .89857   |
| #1     | 2.3499 | 26.226 | .91520 | 2.4822 | 1.2797   | 4.7657 | 2.4563 | 24.461   |
| #2     | 2.3489 | 26.219 | .91817 | 2.4907 | 1.2758   | 4.7753 | 2.4704 | 24.635   |
| #3     | 2.3531 | 26.090 | .91645 | 2.4867 | 1.2726   | 4.7958 | 2.4659 | 24.901   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138   | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 2.3475 | 1.1798 | 22.632 | 2.5385 | 2.5578   | 23.970 | 5.3475 | 4.6296   |
| Stddev | .0046  | .0011  | .148   | .0085  | .0037    | .214   | .0051  | .0300    |
| %RSD   | .19692 | .09375 | .65190 | .33599 | .14270   | .89483 | .09573 | .64752   |
| #1     | 2.3433 | 1.1790 | 22.462 | 2.5290 | 2.5536   | 23.727 | 5.3464 | 4.6014   |
| #2     | 2.3469 | 1.1810 | 22.725 | 2.5408 | 2.5601   | 24.049 | 5.3531 | 4.6262   |
| #3     | 2.3524 | 1.1793 | 22.710 | 2.5456 | 2.5597   | 24.133 | 5.3431 | 4.6611   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707   | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm      |
| Avg    | 5.1481 | 5.1711 | 4.8012 | 4.8148 | F 4.4850 | 4.816  | 4.9354 | F 8.5522 |
| Stddev | .0271  | .0294  | .0028  | .0193  | .0193    | .015   | .0180  | .0994    |
| %RSD   | .52622 | .56766 | .05892 | .40166 | .43111   | .3136  | .36376 | 1.1618   |
| #1     | 5.1717 | 5.1825 | 4.8034 | 4.7926 | 4.4835   | 4.832  | 4.9200 | 8.4857   |
| #2     | 5.1186 | 5.1932 | 4.8022 | 4.8285 | 4.5050   | 4.802  | 4.9551 | 8.6664   |
| #3     | 5.1541 | 5.1378 | 4.7980 | 4.8232 | 4.4664   | 4.815  | 4.9310 | 8.5044   |

Sample Name: CCV10      Acquired: 6/7/2019 21:45:43      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F .27416 |
| Stddev | .31915   |
| %RSD   | 116.41   |

|    |        |
|----|--------|
| #1 | .01688 |
| #2 | .63130 |
| #3 | .17430 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3309.5 | 46308. | 4423.8 | 56.485 | 3257.1 |
| Stddev    | 6.6    | 80.    | 23.4   | .751   | 4.5    |
| %RSD      | .19973 | .17204 | .52835 | 1.3304 | .13770 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3309.5 | 46278. | 4397.0 | 56.852 | 3262.1 |
| #2 | 3302.9 | 46399. | 4434.6 | 55.620 | 3253.5 |
| #3 | 3316.1 | 46249. | 4439.9 | 56.982 | 3255.8 |

Sample Name: CCB10      Acquired: 6/7/2019 21:49:41      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00311 | .00131 | -.00090 | -.00072 | .00133 | -.02036 | .00320 |
| Stddev | .00078  | .00094 | .00088  | .00387  | .00156 | .01271  | .00032 |
| %RSD   | 24.998  | 71.930 | 98.458  | 540.40  | 117.38 | 62.428  | 10.002 |

|    |         |        |         |         |         |         |        |
|----|---------|--------|---------|---------|---------|---------|--------|
| #1 | -.00261 | .00208 | -.00003 | .00328  | .00222  | -.03504 | .00337 |
| #2 | -.00401 | .00026 | -.00087 | -.00445 | -.00047 | -.01297 | .00283 |
| #3 | -.00272 | .00158 | -.00180 | -.00098 | .00225  | -.01307 | .00340 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00008 | -.00010 | .00026 | -.00069 | .00016 | .00071 | .00092 |
| Stddev | .00002 | .00007  | .00180 | .00025  | .00023 | .00066 | .00122 |
| %RSD   | 24.139 | 69.814  | 688.67 | 36.616  | 143.41 | 91.994 | 132.37 |

|    |        |         |         |         |         |        |         |
|----|--------|---------|---------|---------|---------|--------|---------|
| #1 | .00010 | -.00004 | -.00098 | -.00052 | -.00007 | .00146 | -.00037 |
| #2 | .00008 | -.00009 | -.00055 | -.00098 | .00016  | .00043 | .00107  |
| #3 | .00006 | -.00017 | .00232  | -.00057 | .00040  | .00025 | .00205  |

|        |         |         |         |         |        |        |         |
|--------|---------|---------|---------|---------|--------|--------|---------|
| Elem   | Mn2576  | Mg2790  | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | -.00000 | -.01237 | -.00097 | -.00063 | .20463 | .00027 | -.00011 |
| Stddev | .00011  | .05366  | .00021  | .00054  | .01298 | .00061 | .00005  |
| %RSD   | 3725.2  | 433.88  | 21.386  | 85.383  | 6.3440 | 222.24 | 42.517  |

|    |         |         |         |         |        |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|
| #1 | .00011  | .03065  | -.00112 | -.00037 | .19066 | .00064  | -.00012 |
| #2 | -.00001 | -.07250 | -.00073 | -.00124 | .20691 | -.00043 | -.00005 |
| #3 | -.00010 | .00475  | -.00106 | -.00027 | .21632 | .00061  | -.00014 |

|        |        |        |        |          |        |         |         |
|--------|--------|--------|--------|----------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm     |
| Avg    | .06262 | .00044 | .00214 | F .00696 | .00898 | -.00041 | -.00243 |
| Stddev | .03165 | .00022 | .00387 | .00304   | .00763 | .00067  | .00057  |
| %RSD   | 50.545 | 50.894 | 180.52 | 43.711   | 84.893 | 166.03  | 23.410  |

|    |        |        |         |        |        |         |         |
|----|--------|--------|---------|--------|--------|---------|---------|
| #1 | .09424 | .00062 | .00016  | .00803 | .01725 | -.00118 | -.00197 |
| #2 | .06266 | .00051 | .00660  | .00933 | .00223 | .00005  | -.00225 |
| #3 | .03094 | .00019 | -.00033 | .00353 | .00747 | -.00009 | -.00307 |



Sample Name: CCB10      Acquired: 6/7/2019 21:49:41      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00588 | -.0062 | .00026 | F 6.8631 | F<.00000 |
| Stddev | .00062  | .0005  | .00004 | .0975    | .34997   |
| %RSD   | 10.545  | 8.776  | 14.802 | 1.4213   | 16.498   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00654 | -.0065 | .00022 | 6.9708 | -2.0304 |
| #2 | -.00531 | -.0065 | .00030 | 6.8380 | -2.5078 |
| #3 | -.00579 | -.0055 | .00027 | 6.7806 | -1.8258 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3448.1 | 48508. | 4509.4 | 58.632 | 3628.6 |
| Stddev    | 4.9    | 108.   | 26.8   | 1.138  | 3.4    |
| %RSD      | .14152 | .22356 | .59342 | 1.9413 | .09321 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3446.5 | 48463. | 4527.9 | 58.011 | 3625.6 |
| #2 | 3453.6 | 48429. | 4521.7 | 59.945 | 3632.2 |
| #3 | 3444.2 | 48632. | 4478.7 | 57.939 | 3628.0 |

Sample Name: K3158-02MSD      Acquired: 6/7/2019 21:54:11      Type: Unk  
Method: P4-ICP2(v3186)      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    | .93268 | 2.1319 | 1.1169 | 2.2954 | .95539 | 2.4110 | .32461 |
| Stddev | .00293 | .0104  | .0057  | .0111  | .00169 | .0160  | .00235 |
| %RSD   | .31366 | .48790 | .50767 | .48348 | .17721 | .66398 | .72266 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .93606 | 2.1207 | 1.1136 | 2.3081 | .95708 | 2.4120 | .32245 |
| #2 | .93101 | 2.1413 | 1.1137 | 2.2875 | .95370 | 2.4265 | .32711 |
| #3 | .93097 | 2.1335 | 1.1235 | 2.2906 | .95539 | 2.3946 | .32429 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .22974 | .21231 | 33.591 | .43191 | .23743 | .36174 | 3.7841 |
| Stddev | .00037 | .00054 | .316   | .00128 | .00022 | .00097 | .0073  |
| %RSD   | .15925 | .25351 | .94116 | .29572 | .09427 | .26868 | .19391 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .23012 | .21185 | 33.884 | .43265 | .23723 | .36280 | 3.7915 |
| #2 | .22971 | .21219 | 33.256 | .43043 | .23739 | .36089 | 3.7839 |
| #3 | .22939 | .21290 | 33.634 | .43264 | .23767 | .36153 | 3.7768 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.2012 | 3.3899 | .54328 | .07506 | 290.24 | .31779 | .27538 |
| Stddev | .0014  | .0370  | .00138 | .00011 | 1.68   | .00036 | .00091 |
| %RSD   | .11256 | 1.0926 | .25340 | .14022 | .57928 | .11377 | .32907 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.2024 | 3.3499 | .54224 | .07518 | 288.61 | .31798 | .27447 |
| #2 | 1.2014 | 3.3967 | .54275 | .07499 | 291.97 | .31737 | .27540 |
| #3 | 1.1997 | 3.4231 | .54484 | .07501 | 290.13 | .31801 | .27628 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 12.783 | .50636 | .34628 | .36257 | 1.6408 | .77215 | .22551 |
| Stddev | .099   | .00090 | .00678 | .00342 | .0234  | .00278 | .00195 |
| %RSD   | .77361 | .17810 | 1.9573 | .94352 | 1.4265 | .36048 | .86493 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 12.678 | .50556 | .34000 | .36165 | 1.6506 | .77533 | .22383 |
| #2 | 12.874 | .50734 | .34537 | .36636 | 1.6140 | .77093 | .22504 |
| #3 | 12.796 | .50618 | .35347 | .35971 | 1.6576 | .77018 | .22765 |

Sample Name: K3158-02MSD      Acquired: 6/7/2019 21:54:11      Type: Unk  
 Method: P4-ICP2(v3186)      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    | .21256 | 6.782  | .31289 | 8.8527 | F<.00000 |
| Stddev | .00272 | .011   | .00135 | .1381  | .23391   |
| %RSD   | 1.2799 | .1567  | .43287 | 1.5596 | 15.900   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .20990 | 6.774 | .31429 | 8.9817 | -1.2401 |
| #2 | .21246 | 6.779 | .31281 | 8.7071 | -1.7078 |
| #3 | .21534 | 6.794 | .31158 | 8.8693 | -1.4654 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3182.5 | 44504. | 4349.3 | 57.391 | 3149.3 |
| Stddev    | 1.2    | 128.   | 38.2   | 1.424  | 8.5    |
| %RSD      | .03877 | .28762 | .87830 | 2.4803 | .26991 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3181.2 | 44420. | 4310.5 | 55.927 | 3158.3 |
| #2 | 3183.5 | 44439. | 4386.9 | 58.770 | 3148.2 |
| #3 | 3183.0 | 44651. | 4350.5 | 57.477 | 3141.4 |

Sample Name: K3158-02A      Acquired: 6/7/2019 21:58:26      Type: Unk  
Method: P4-ICP2(v3186)      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    | .92776 | 2.1262 | 1.1139 | 2.2920 | .95215 | 2.3743 | .32357 |
| Stddev | .00480 | .0052  | .0016  | .0127  | .00461 | .0093  | .00161 |
| %RSD   | .51738 | .24437 | .14326 | .55322 | .48371 | .39098 | .49733 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .92465 | 2.1298 | 1.1129 | 2.2775 | .94685 | 2.3739 | .32522 |
| #2 | .93329 | 2.1285 | 1.1157 | 2.2975 | .95518 | 2.3651 | .32201 |
| #3 | .92535 | 2.1202 | 1.1131 | 2.3011 | .95443 | 2.3837 | .32350 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .22936 | .21227 | 33.542 | .43140 | .23727 | .35971 | 3.7828 |
| Stddev | .00116 | .00038 | .183   | .00125 | .00071 | .00111 | .0041  |
| %RSD   | .50397 | .18067 | .54625 | .29028 | .29873 | .30824 | .10956 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .22891 | .21183 | 33.397 | .43219 | .23664 | .35867 | 3.7783 |
| #2 | .22850 | .21256 | 33.748 | .42996 | .23712 | .35960 | 3.7834 |
| #3 | .23067 | .21242 | 33.481 | .43207 | .23804 | .36088 | 3.7865 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.1957 | 3.3383 | .54126 | .07617 | 286.74 | .31789 | .27424 |
| Stddev | .0018  | .0477  | .00076 | .00051 | .80    | .00093 | .00046 |
| %RSD   | .15000 | 1.4291 | .14012 | .66828 | .27882 | .29256 | .16829 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.1940 | 3.3805 | .54053 | .07559 | 286.11 | .31876 | .27396 |
| #2 | 1.1955 | 3.2865 | .54205 | .07655 | 286.48 | .31691 | .27477 |
| #3 | 1.1976 | 3.3478 | .54121 | .07636 | 287.64 | .31799 | .27398 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 12.784 | .50514 | .34263 | .35687 | 1.6460 | .76868 | .22288 |
| Stddev | .078   | .00222 | .02415 | .00338 | .0111  | .00195 | .00065 |
| %RSD   | .61141 | .43950 | 7.0482 | .94779 | .67363 | .25336 | .29056 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 12.710 | .50315 | .32309 | .36015 | 1.6580 | .76710 | .22217 |
| #2 | 12.777 | .50474 | .33517 | .35708 | 1.6437 | .77086 | .22303 |
| #3 | 12.865 | .50753 | .36963 | .35339 | 1.6362 | .76809 | .22344 |

Sample Name: K3158-02A      Acquired: 6/7/2019 21:58:26      Type: Unk  
Method: P4-ICP2(v3186)      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       | .21380 | 6.728  | .31185 | 8.8781 | F<.00000 |
| Stddev    | .00093 | .008   | .00110 | .0906  | .29617   |
| %RSD      | .43299 | .1238  | .35235 | 1.0207 | 15.491   |
| #1        | .21348 | 6.735  | .31269 | 8.7800 | -2.2400  |
| #2        | .21484 | 6.719  | .31060 | 8.8957 | -1.8316  |
| #3        | .21307 | 6.730  | .31225 | 8.9587 | -1.6642  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3205.8 | 44574. | 4344.5 | 55.696 | 3169.9   |
| Stddev    | 21.3   | 110.   | 18.1   | 1.167  | 6.1      |
| %RSD      | .66574 | .24770 | .41588 | 2.0955 | .19370   |
| #1        | 3230.0 | 44457. | 4344.3 | 56.752 | 3177.0   |
| #2        | 3198.0 | 44677. | 4326.6 | 55.893 | 3166.7   |
| #3        | 3189.5 | 44587. | 4362.7 | 54.443 | 3166.0   |

Sample Name: K3160-02      Acquired: 6/7/2019 22:02:41      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00115 | .00036 | .01725 | -.00085 | .00123 | .14388 | .15381 |
| Stddev | .00225  | .00088 | .00069 | .00293  | .00089 | .00684 | .00130 |
| %RSD   | 196.16  | 247.62 | 3.9826 | 343.76  | 72.184 | 4.7536 | .84613 |

|    |         |         |        |         |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|
| #1 | -.00337 | -.00006 | .01707 | .00225  | .00036 | .15028 | .15243 |
| #2 | -.00121 | .00137  | .01801 | -.00357 | .00119 | .13668 | .15399 |
| #3 | .00114  | -.00024 | .01667 | -.00123 | .00213 | .14469 | .15502 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00022 | -.00018 | 28.748 | .00025 | .00561 | .01131 | .91291 |
| Stddev | .00006 | .00001  | .156   | .00029 | .00028 | .00033 | .00093 |
| %RSD   | 24.665 | 4.2308  | .54424 | 116.07 | 5.0394 | 2.8875 | .10207 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00019 | -.00017 | 28.929 | .00052  | .00546 | .01158 | .91354 |
| #2 | .00019 | -.00018 | 28.670 | -.00006 | .00545 | .01095 | .91184 |
| #3 | .00029 | -.00018 | 28.647 | .00029  | .00594 | .01140 | .91335 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.1107 | 1.4317 | .00266 | -.00154 | 294.16 | -.00439 | .03097 |
| Stddev | .0009  | .0213  | .00010 | .00053  | .26    | .00043  | .00006 |
| %RSD   | .07995 | 1.4868 | 3.7248 | 34.549  | .08958 | 9.8018  | .20937 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 1.1109 | 1.4137 | .00277 | -.00179 | 293.88 | -.00461 | .03094 |
| #2 | 1.1098 | 1.4261 | .00257 | -.00189 | 294.20 | -.00390 | .03093 |
| #3 | 1.1115 | 1.4552 | .00265 | -.00093 | 294.40 | -.00467 | .03105 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.2948 | -.00006 | .01894 | .55946 | 1.8392 | -.00030 | -.00565 |
| Stddev | .0412  | .00056  | .00945 | .00326 | .0319  | .00096  | .00246  |
| %RSD   | 3.1790 | 1020.4  | 49.900 | .58317 | 1.7350 | 318.50  | 43.579  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 1.2473 | -.00027 | .00954 | .55578 | 1.8743 | .00048  | -.00379 |
| #2 | 1.3164 | .00058  | .01882 | .56200 | 1.8118 | -.00137 | -.00471 |
| #3 | 1.3206 | -.00048 | .02844 | .56060 | 1.8316 | -.00002 | -.00844 |

Sample Name: K3160-02      Acquired: 6/7/2019 22:02:41      Type: Unk  
Method: P4-ICP2(v3186)      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       | -.00253 | -.0040 | .16125 | 9.1844 | F<.00000 |
| Stddev    | .00059  | .0013  | .00057 | .0909  | .52990   |
| %RSD      | 23.229  | 33.21  | .35187 | .98989 | 8.5457   |
| #1        | -.00283 | -.0035 | .16060 | 9.1902 | -6.5911  |
| #2        | -.00291 | -.0030 | .16161 | 9.2724 | -5.5975  |
| #3        | -.00185 | -.0055 | .16155 | 9.0908 | -6.4138  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3212.9  | 44729. | 4397.1 | 56.358 | 3174.0   |
| Stddev    | 21.1    | 39.    | 24.7   | .565   | 10.7     |
| %RSD      | .65533  | .08642 | .56227 | 1.0023 | .33721   |
| #1        | 3190.0  | 44750. | 4368.9 | 56.134 | 3169.7   |
| #2        | 3231.5  | 44684. | 4407.6 | 57.000 | 3186.1   |
| #3        | 3217.1  | 44753. | 4414.9 | 55.939 | 3166.0   |

Sample Name: K3160-04      Acquired: 6/7/2019 22:07:15      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00192 | -.00187 | .01718 | -.00144 | -.00013 | .09055 | .14581 |
| Stddev | .00180  | .00021  | .00075 | .00237  | .00093  | .01508 | .00008 |
| %RSD   | 93.589  | 11.306  | 4.3787 | 164.95  | 707.22  | 16.654 | .05353 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00282 | -.00190 | .01660 | -.00066 | .00093  | .09169 | .14590 |
| #2 | .00015  | -.00207 | .01692 | -.00411 | -.00052 | .07493 | .14575 |
| #3 | -.00309 | -.00165 | .01803 | .00045  | -.00081 | .10502 | .14580 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00022 | -.00016 | 35.846 | -.00121 | .00903 | .00932 | .74596 |
| Stddev | .00002 | .00011  | .150   | .00016  | .00008 | .00057 | .00765 |
| %RSD   | 9.6284 | 67.690  | .41933 | 12.962  | .90860 | 6.1245 | 1.0261 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00021 | -.00029 | 35.980 | -.00125 | .00900 | .00892 | .73998 |
| #2 | .00025 | -.00008 | 35.684 | -.00104 | .00896 | .00907 | .75459 |
| #3 | .00021 | -.00012 | 35.874 | -.00134 | .00912 | .00998 | .74331 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.4750 | 2.0305 | .00150 | -.00152 | 301.81 | -.00576 | .04026 |
| Stddev | .0030  | .0227  | .00028 | .00022  | .47    | .00005  | .00005 |
| %RSD   | .20327 | 1.1195 | 18.394 | 14.318  | .15528 | .92911  | .13612 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 1.4771 | 2.0535 | .00135 | -.00153 | 301.46 | -.00573 | .04025 |
| #2 | 1.4764 | 2.0080 | .00133 | -.00129 | 301.63 | -.00582 | .04032 |
| #3 | 1.4716 | 2.0298 | .00182 | -.00173 | 302.34 | -.00572 | .04021 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.4322 | -.00018 | .03074 | .55363 | 1.4868 | -.00009 | -.00502 |
| Stddev | .0293  | .00026  | .01210 | .00308 | .0054  | .00067  | .00181  |
| %RSD   | 2.0439 | 147.39  | 39.365 | .55621 | .36427 | 763.64  | 36.071  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 1.3986 | -.00009 | .04466 | .55071 | 1.4874 | -.00059 | -.00504 |
| #2 | 1.4520 | -.00048 | .02488 | .55334 | 1.4919 | -.00034 | -.00681 |
| #3 | 1.4460 | .00003  | .02269 | .55685 | 1.4811 | .00067  | -.00320 |



Sample Name: K3160-04      Acquired: 6/7/2019 22:07:15      Type: Unk  
 Method: P4-ICP2(v3186)      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    | -.00169 | -.0032 | .21449 | 8.9716 | F<.00000 |
| Stddev | .00106  | .0007  | .00048 | .0503  | .30954   |
| %RSD   | 62.508  | 21.20  | .22530 | .56045 | 4.9278   |

|    |         |        |        |        |         |
|----|---------|--------|--------|--------|---------|
| #1 | -.00061 | -.0034 | .21458 | 8.9806 | -5.9796 |
| #2 | -.00175 | -.0038 | .21397 | 9.0168 | -6.2665 |
| #3 | -.00273 | -.0024 | .21493 | 8.9174 | -6.5981 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3192.3 | 44568. | 4420.3 | 56.287 | 3162.8 |
| Stddev    | 5.8    | 26.    | 21.6   | 1.189  | 11.5   |
| %RSD      | .18023 | .05879 | .48789 | 2.1121 | .36369 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3187.1 | 44598. | 4409.6 | 55.086 | 3151.2 |
| #2 | 3198.5 | 44561. | 4445.1 | 57.464 | 3163.1 |
| #3 | 3191.4 | 44547. | 4406.1 | 56.311 | 3174.2 |

Sample Name: K3160-06      Acquired: 6/7/2019 22:11:50      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00188 | -.00256 | .01133 | .00124 | -.00164 | .08350 | .13728 |
| Stddev | .00240  | .00008  | .00137 | .00197 | .00036  | .03091 | .00140 |
| %RSD   | 127.46  | 3.0812  | 12.119 | 158.63 | 22.284  | 37.019 | 1.0191 |

|    |         |         |        |         |         |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|
| #1 | -.00459 | -.00263 | .01216 | .00335  | -.00152 | .05928 | .13578 |
| #2 | -.00005 | -.00247 | .01210 | -.00054 | -.00134 | .11831 | .13753 |
| #3 | -.00100 | -.00256 | .00975 | .00091  | -.00204 | .07290 | .13854 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00017 | -.00030 | 37.274 | -.00073 | .00985 | .00688 | .84032 |
| Stddev | .00007 | .00010  | .273   | .00040  | .00019 | .00064 | .00177 |
| %RSD   | 40.094 | 32.981  | .73243 | 54.148  | 1.9370 | 9.3441 | .21111 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00016 | -.00027 | 37.567 | -.00055 | .00988 | .00642 | .83845 |
| #2 | .00025 | -.00041 | 37.229 | -.00119 | .01003 | .00762 | .84053 |
| #3 | .00011 | -.00022 | 37.027 | -.00046 | .00965 | .00661 | .84198 |

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | 1.2059 | 2.6593 | .00213 | -.00162 | 290.73 | -.00482 | .04519 |
| Stddev | .0007  | .0336  | .00018 | .00034  | .88    | .00024  | .00005 |
| %RSD   | .05592 | 1.2623 | 8.5011 | 20.922  | .30284 | 5.0400  | .12070 |

|    |        |        |        |         |        |         |        |
|----|--------|--------|--------|---------|--------|---------|--------|
| #1 | 1.2052 | 2.6551 | .00215 | -.00159 | 289.72 | -.00488 | .04517 |
| #2 | 1.2061 | 2.6947 | .00230 | -.00130 | 291.33 | -.00455 | .04526 |
| #3 | 1.2065 | 2.6280 | .00194 | -.00197 | 291.13 | -.00502 | .04515 |

|        |        |         |        |        |        |         |         |
|--------|--------|---------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.5941 | -.00021 | .02331 | .54143 | 1.3543 | -.00002 | -.00352 |
| Stddev | .0635  | .00029  | .01186 | .01029 | .0074  | .00073  | .00077  |
| %RSD   | 3.9857 | 139.37  | 50.877 | 1.9011 | .54966 | 3090.2  | 21.914  |

|    |        |         |        |        |        |         |         |
|----|--------|---------|--------|--------|--------|---------|---------|
| #1 | 1.5229 | .00006  | .03328 | .55093 | 1.3628 | -.00068 | -.00285 |
| #2 | 1.6451 | -.00017 | .01020 | .54287 | 1.3509 | .00076  | -.00436 |
| #3 | 1.6144 | -.00052 | .02644 | .53049 | 1.3491 | -.00015 | -.00334 |

Sample Name: K3160-06      Acquired: 6/7/2019 22:11:50      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00143 | -.0058 | .17627 | 9.0305 | F<.00000 |
| Stddev    | .00066  | .0003  | .00012 | .1069  | .29279   |
| %RSD      | 46.157  | 5.521  | .06854 | 1.1832 | 4.8492   |
| #1        | -.00076 | -.0056 | .17613 | 9.1481 | -5.9331  |
| #2        | -.00145 | -.0061 | .17637 | 8.9394 | -6.3687  |
| #3        | -.00208 | -.0056 | .17630 | 9.0041 | -5.8120  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 3200.3  | 44610. | 4374.7 | 55.536 | 3174.2   |
| Stddev    | 16.7    | 61.    | 43.9   | 1.695  | 8.7      |
| %RSD      | .52141  | .13649 | 1.0033 | 3.0521 | .27550   |
| #1        | 3182.1  | 44541. | 4326.3 | 53.625 | 3164.8   |
| #2        | 3204.1  | 44632. | 4385.8 | 56.857 | 3175.5   |
| #3        | 3214.9  | 44656. | 4412.0 | 56.127 | 3182.2   |

Sample Name: CCV11      Acquired: 6/7/2019 22:16:25      Type: Unk  
Method: P4-ICP2(v3186)      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    | 5.1427 | 4.9479 | 4.9739 | 4.9520 | 5.2649 | 9.8604 | 9.7341 | .25336   |
| Stddev | .0179  | .0040  | .0078  | .0037  | .0082  | .0798  | .0259  | .00024   |
| %RSD   | .34758 | .08158 | .15673 | .07575 | .15658 | .80920 | .26604 | .09387   |
| #1     | 5.1602 | 4.9466 | 4.9795 | 4.9510 | 5.2588 | 9.7737 | 9.7048 | .25309   |
| #2     | 5.1433 | 4.9524 | 4.9773 | 4.9562 | 5.2743 | 9.9308 | 9.7440 | .25350   |
| #3     | 5.1245 | 4.9447 | 4.9650 | 4.9489 | 5.2616 | 9.8767 | 9.7537 | .25350   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3538 | 26.343 | .92011 | 2.4936 | 1.2745 | 4.7945 | 2.4689 | 24.970   |
| Stddev | .0025  | .024   | .00245 | .0037  | .0027  | .0075  | .0035  | .319     |
| %RSD   | .10433 | .08967 | .26583 | .14898 | .20943 | .15544 | .14053 | 1.2763   |
| #1     | 2.3515 | 26.345 | .91733 | 2.4899 | 1.2768 | 4.7958 | 2.4707 | 24.638   |
| #2     | 2.3535 | 26.319 | .92108 | 2.4938 | 1.2716 | 4.7865 | 2.4649 | 24.999   |
| #3     | 2.3563 | 26.366 | .92193 | 2.4973 | 1.2751 | 4.8012 | 2.4711 | 25.273   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3540 | 1.1835 | 22.765 | 2.5450 | 2.5585 | 24.095 | 5.3590 | 4.6300   |
| Stddev | .0029  | .0018  | .059   | .0027  | .0028  | .032   | .0029  | .0483    |
| %RSD   | .12289 | .14857 | .25935 | .10620 | .10914 | .13099 | .05324 | 1.0421   |
| #1     | 2.3510 | 1.1817 | 22.716 | 2.5430 | 2.5563 | 24.082 | 5.3566 | 4.5831   |
| #2     | 2.3568 | 1.1852 | 22.748 | 2.5440 | 2.5616 | 24.072 | 5.3622 | 4.6795   |
| #3     | 2.3543 | 1.1836 | 22.831 | 2.5481 | 2.5576 | 24.131 | 5.3583 | 4.6276   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.1405 | 5.1075 | 4.8084 | 4.8403 | 4.5053 | 4.822  | 4.9558 | F 8.3211 |
| Stddev | .0015  | .0273  | .0123  | .0052  | .0102  | .003   | .0112  | .1630    |
| %RSD   | .02977 | .53380 | .25540 | .10755 | .22605 | .0513  | .22491 | 1.9583   |
| #1     | 5.1396 | 5.0968 | 4.7942 | 4.8351 | 4.4972 | 4.824  | 4.9430 | 8.4323   |
| #2     | 5.1423 | 5.0873 | 4.8157 | 4.8455 | 4.5167 | 4.819  | 4.9637 | 8.1341   |
| #3     | 5.1397 | 5.1385 | 4.8151 | 4.8402 | 4.5019 | 4.822  | 4.9606 | 8.3969   |

Sample Name: CCV11      Acquired: 6/7/2019 22:16:25      Type: Unk  
Method: P4-ICP2(v3186)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F .30305 |
| Stddev | .77588   |
| %RSD   | 256.03   |

|    |         |
|----|---------|
| #1 | -.31932 |
| #2 | 1.1723  |
| #3 | .05612  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3326.3 | 46424. | 4427.1 | 55.322 | 3272.5 |
| Stddev    | 3.6    | 14.    | 8.6    | 1.110  | 5.0    |
| %RSD      | .10739 | .03119 | .19446 | 2.0058 | .15262 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3329.1 | 46417. | 4420.8 | 54.214 | 3277.9 |
| #2 | 3322.3 | 46414. | 4423.6 | 55.318 | 3268.0 |
| #3 | 3327.5 | 46440. | 4436.9 | 56.433 | 3271.6 |

Sample Name: CCB11      Acquired: 6/7/2019 22:20:24      Type: Unk  
Method: P4-ICP2(v3186)      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    | -.00087 | .00136 | -.00069 | -.00019 | -.00084 | -.01149 | .00288 |
| Stddev | .00029  | .00067 | .00045  | .00390  | .00152  | .02346  | .00030 |
| %RSD   | 33.432  | 49.640 | 65.778  | 2099.5  | 182.59  | 204.19  | 10.366 |

|    |         |        |         |         |         |         |        |
|----|---------|--------|---------|---------|---------|---------|--------|
| #1 | -.00104 | .00170 | -.00022 | -.00404 | .00034  | -.03842 | .00264 |
| #2 | -.00103 | .00058 | -.00112 | -.00029 | -.00029 | .00452  | .00321 |
| #3 | -.00053 | .00179 | -.00073 | .00376  | -.00256 | -.00057 | .00278 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Be2348 | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00010 | -.00015 | .00229 | -.00081 | .00012 | .00019 | .00109 |
| Stddev | .00006 | .00005  | .00090 | .00011  | .00010 | .00040 | .00037 |
| %RSD   | 59.690 | 35.144  | 39.532 | 13.371  | 82.736 | 204.11 | 33.729 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .00017 | -.00015 | .00267 | -.00071 | .00005 | .00016  | .00136 |
| #2 | .00005 | -.00010 | .00125 | -.00092 | .00024 | -.00019 | .00124 |
| #3 | .00009 | -.00020 | .00294 | -.00079 | .00008 | .00061  | .00067 |

|        |        |         |         |         |        |        |         |
|--------|--------|---------|---------|---------|--------|--------|---------|
| Elem   | Mn2576 | Mg2790  | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00003 | -.03610 | -.00064 | -.00109 | .19090 | .00001 | -.00013 |
| Stddev | .00005 | .04986  | .00047  | .00051  | .00913 | .00035 | .00009  |
| %RSD   | 187.64 | 138.11  | 73.087  | 46.424  | 4.7814 | 3210.0 | 67.891  |

|    |         |         |         |         |        |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|
| #1 | .00008  | .01816  | -.00022 | -.00136 | .18037 | -.00019 | -.00009 |
| #2 | .00003  | -.04657 | -.00114 | -.00051 | .19665 | .00042  | -.00007 |
| #3 | -.00003 | -.07989 | -.00055 | -.00140 | .19566 | -.00019 | -.00023 |

|        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .10981 | .00043 | .00588 | .00227 | .01026 | -.00138 | -.00302 |
| Stddev | .03619 | .00030 | .00345 | .00375 | .00258 | .00049  | .00202  |
| %RSD   | 32.953 | 69.202 | 58.650 | 165.28 | 25.165 | 35.813  | 66.920  |

|    |        |        |        |         |        |         |         |
|----|--------|--------|--------|---------|--------|---------|---------|
| #1 | .14086 | .00045 | .00969 | .00221  | .01306 | -.00104 | -.00517 |
| #2 | .07007 | .00012 | .00297 | -.00145 | .00975 | -.00194 | -.00117 |
| #3 | .11850 | .00072 | .00498 | .00605  | .00798 | -.00116 | -.00270 |

Sample Name: CCB11      Acquired: 6/7/2019 22:20:24      Type: Unk  
 Method: P4-ICP2(v3186)      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       | -.00528 | -.0077 | .00034 | F 6.8957 | F<.00000 |
| Stddev    | .00176  | .0016  | .00005 | .1220    | .33626   |
| %RSD      | 33.301  | 20.23  | 13.771 | 1.7693   | 13.111   |
| #1        | -.00710 | -.0061 | .00029 | 7.0297   | -2.4607  |
| #2        | -.00514 | -.0079 | .00034 | 6.8662   | -2.2928  |
| #3        | -.00360 | -.0092 | .00038 | 6.7911   | -2.9408  |
| Int. Std. | Y_2243  | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S   | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 3456.4  | 48605. | 4491.0 | 57.984   | 3628.3   |
| Stddev    | 1.5     | 102.   | 29.4   | 1.193    | 3.3      |
| %RSD      | .04251  | .21020 | .65495 | 2.0582   | .09019   |
| #1        | 3455.0  | 48495. | 4459.2 | 58.050   | 3628.0   |
| #2        | 3456.3  | 48698. | 4496.7 | 56.759   | 3631.7   |
| #3        | 3458.0  | 48621. | 4517.2 | 59.143   | 3625.2   |