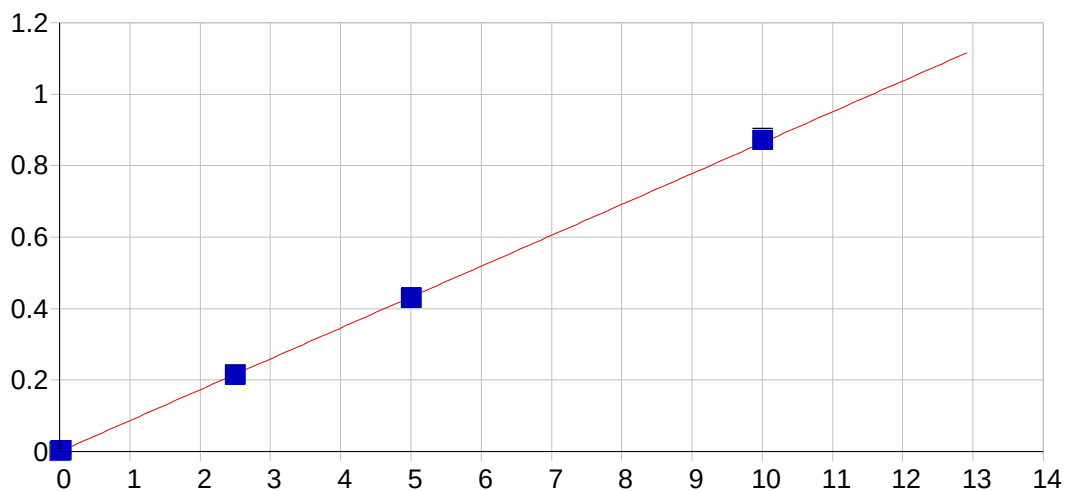


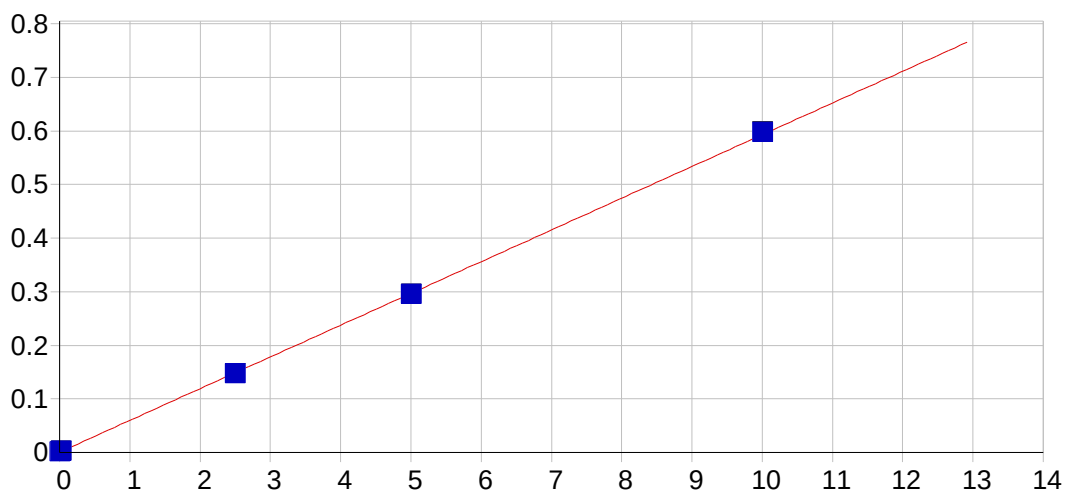


As 189.042 {478}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000145 Re-Slope: 1.000000  
 A1 (Gain): 0.086410 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999969 Status: OK.  
 Std Error of Est: 0.000016  
 Predicted MDL: 0.002767  
 Predicted MQL: 0.009223

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00014 | .000    | 1        |
| S1        | .02000       | .02051      | .001       | 2.56    | .00192 | .000    | 1        |
| S3        | 2.5000       | 2.4741      | -.026      | -1.04   | .21392 | .001    | 1        |
| S4        | 5.0000       | 4.9580      | -.042      | -.841   | .42853 | .001    | 1        |
| S5        | 10.000       | 10.067      | .067       | .674    | .87001 | .005    | 1        |



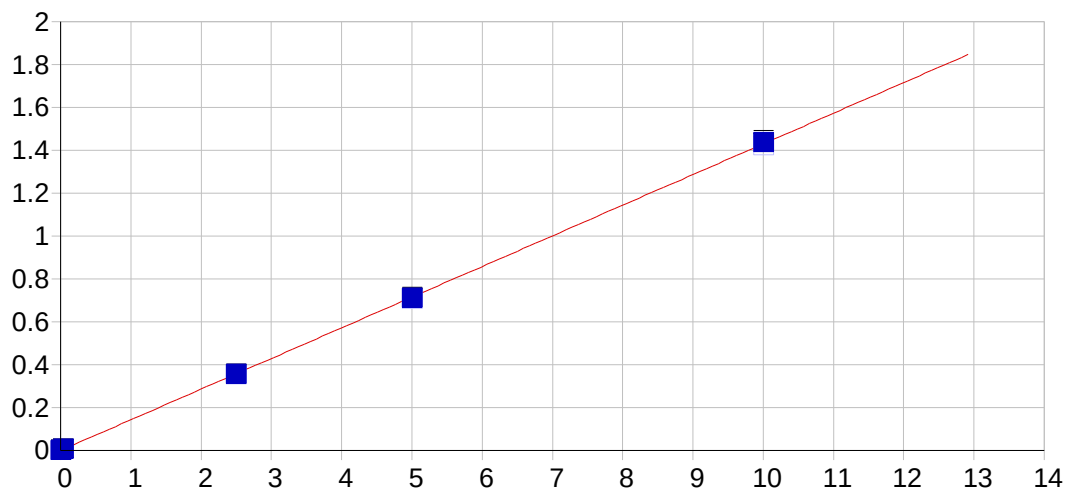
As 189.042 {479}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000715 Re-Slope: 1.000000

A1 (Gain): 0.059223 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999965 Status: OK.  
 Std Error of Est: 0.000012  
 Predicted MDL: 0.002584  
 Predicted MQL: 0.008613

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00071 | .000    | 1        |
| S1        | .02000       | .02072      | .001       | 3.62    | .00194 | .000    | 1        |
| S3        | 2.5000       | 2.4669      | -.033      | -1.32   | .14681 | .000    | 1        |
| S4        | 5.0000       | 4.9624      | -.038      | -.752   | .29460 | .001    | 1        |
| S5        | 10.000       | 10.070      | .070       | .700    | .59709 | .001    | 1        |

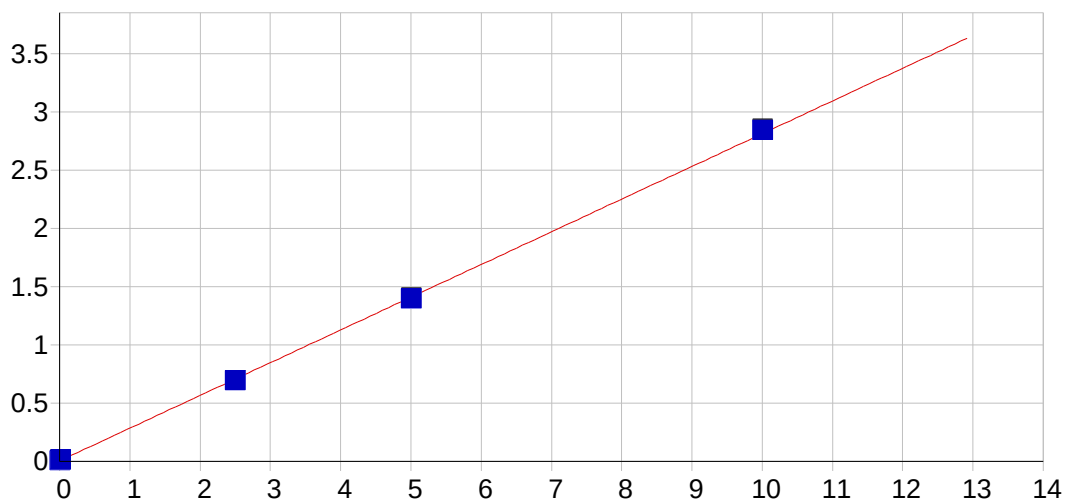


TI 190.856 {477}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000179 Re-Slope: 1.000000  
 A1 (Gain): 0.142975 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999975 Status: OK.  
 Std Error of Est: 0.000034  
 Predicted MDL: 0.001159  
 Predicted MQL: 0.003862

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00018 | .000    | 1        |
| S1        | .04000       | .04330      | .003       | 8.26    | .00622 | .000    | 1        |
| S3        | 2.5000       | 2.4778      | -.022      | -.887   | .35078 | .002    | 1        |
| S4        | 5.0000       | 4.9713      | -.029      | -.574   | .70362 | .003    | 1        |
| S5        | 10.000       | 10.048      | .048       | .476    | 1.4221 | .007    | 1        |

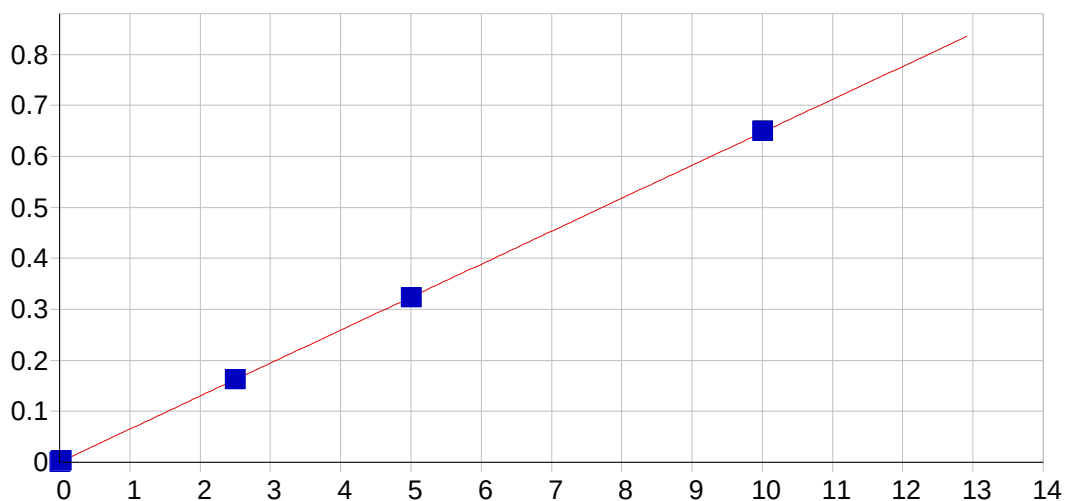


Pb 220.353 {453}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.004885 Re-Slope: 1.000000  
 A1 (Gain): 0.280731 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999925 Status: OK.  
 Std Error of Est: 0.000064  
 Predicted MDL: 0.000943  
 Predicted MQL: 0.003143

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00488 | .000    | 1        |
| S1        | .01200       | .01225      | .000       | 2.06    | .00826 | .000    | 1        |
| S3        | 2.5000       | 2.4510      | -.049      | -1.96   | .69209 | .001    | 1        |
| S4        | 5.0000       | 4.9459      | -.054      | -1.08   | 1.3916 | .005    | 1        |
| S5        | 10.000       | 10.103      | .103       | 1.03    | 2.8375 | .009    | 1        |



Se 196.090 {472}

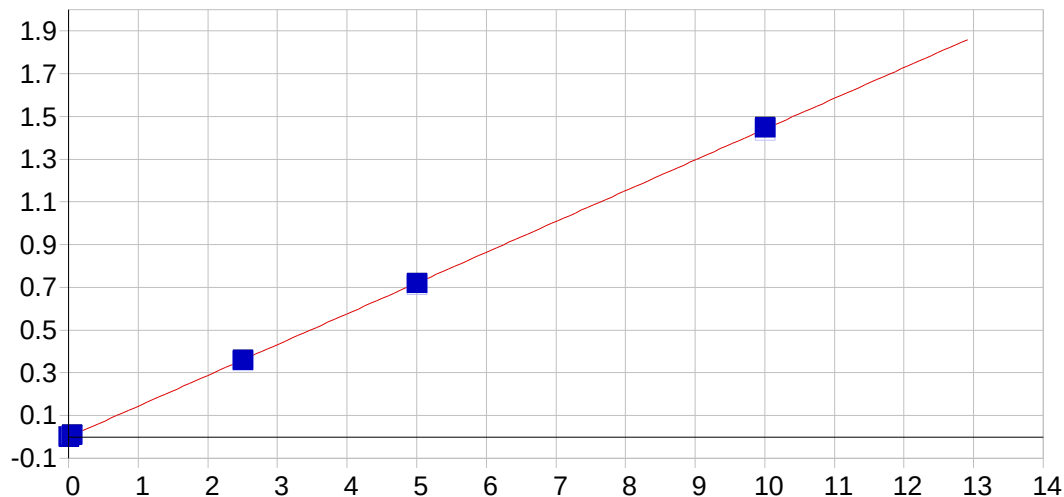
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000557 Re-Slope: 1.000000  
 A1 (Gain): 0.064658 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999984  
 Std Error of Est: 0.000009  
 Predicted MDL: 0.003454  
 Predicted MQL: 0.011512

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00056 | .000    | 1        |
| S1        | .02000       | .02263      | .003       | 13.2    | .00202 | .000    | 1        |
| S3        | 2.5000       | 2.4928      | -.007      | -.286   | .16166 | .000    | 1        |
| S4        | 5.0000       | 4.9761      | -.024      | -.478   | .32214 | .001    | 1        |
| S5        | 10.000       | 10.028      | .028       | .284    | .64864 | .001    | 1        |



Sb 206.833 {463}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

Weighting: 1/Conc

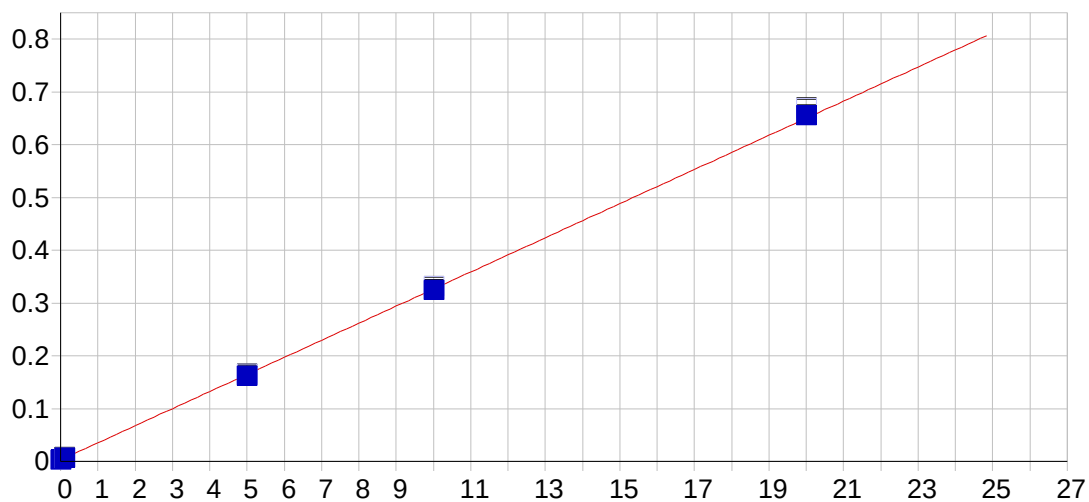
A0 (Offset): -0.000057  
 A1 (Gain): 0.144070  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999982  
 Std Error of Est: 0.000033  
 Predicted MDL: 0.001915  
 Predicted MQL: 0.006382

Re-Slope: 1.000000  
 Y-int: 0.000000

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00006 | .000    | 1        |
| S1        | .05000       | .05278      | .003       | 5.56    | .00737  | .000    | 1        |
| S3        | 2.5000       | 2.4808      | -.019      | -.768   | .35330  | .001    | 1        |
| S4        | 5.0000       | 4.9732      | -.027      | -.535   | .70834  | .001    | 1        |
| S5        | 10.000       | 10.043      | .043       | .432    | 1.4307  | .003    | 1        |



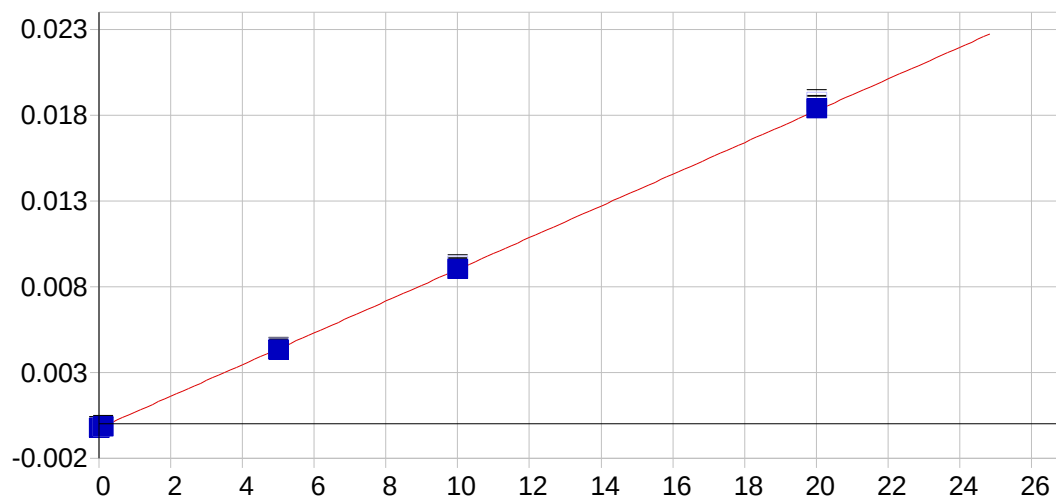


AI 308.215 {109}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.002840 Re-Slope: 1.000000  
 A1 (Gain): 0.032368 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999934 Status: OK.  
 Std Error of Est: 0.000029  
 Predicted MDL: 0.003231  
 Predicted MQL: 0.010769

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00284 | .000    | 1        |
| S1        | .10000       | .11092      | .011       | 10.9    | .00665 | .000    | 1        |
| S3        | 5.0000       | 4.9018      | -.098      | -1.96   | .16472 | .000    | 1        |
| S4        | 10.000       | 9.9316      | -.068      | -.684   | .33075 | .000    | 1        |
| S5        | 20.000       | 20.155      | .155       | .775    | .66811 | .001    | 1        |



AI 309.271 {109}

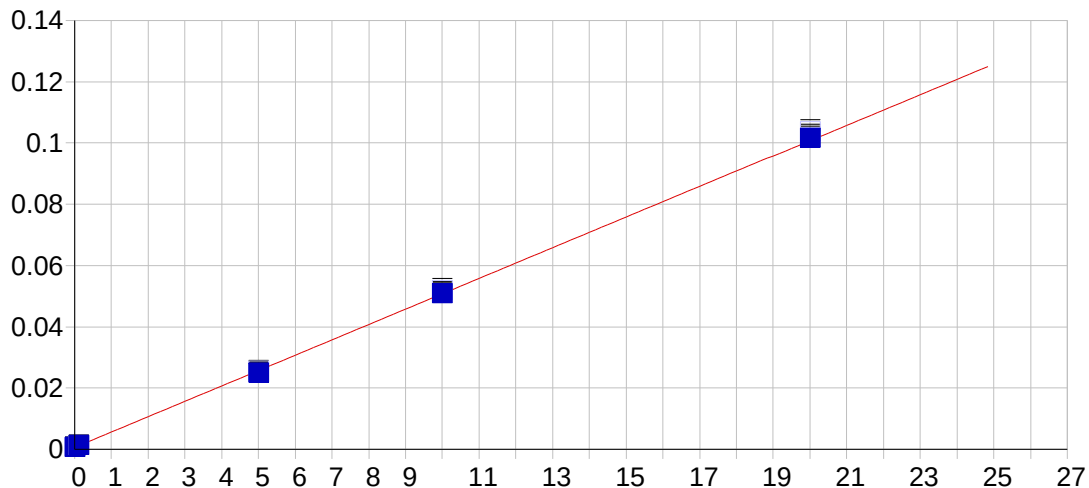
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000239 Re-Slope: 1.000000  
 A1 (Gain): 0.000925 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999944  
 Std Error of Est: 0.000001  
 Predicted MDL: 0.050871  
 Predicted MQL: 0.169569

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00002      | .000       | .000    | -.00024 | .000    | 1        |
| S1        | .10000       | .08560      | -.014      | -14.4   | -.00015 | .000    | 1        |
| S3        | 5.0000       | 4.9174      | -.083      | -1.65   | .00440  | .000    | 1        |
| S4        | 10.000       | 9.9877      | -.012      | -.123   | .00918  | .000    | 1        |
| S5        | 20.000       | 20.110      | .110       | .550    | .01872  | .000    | 1        |



AI 396.152 { 85}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

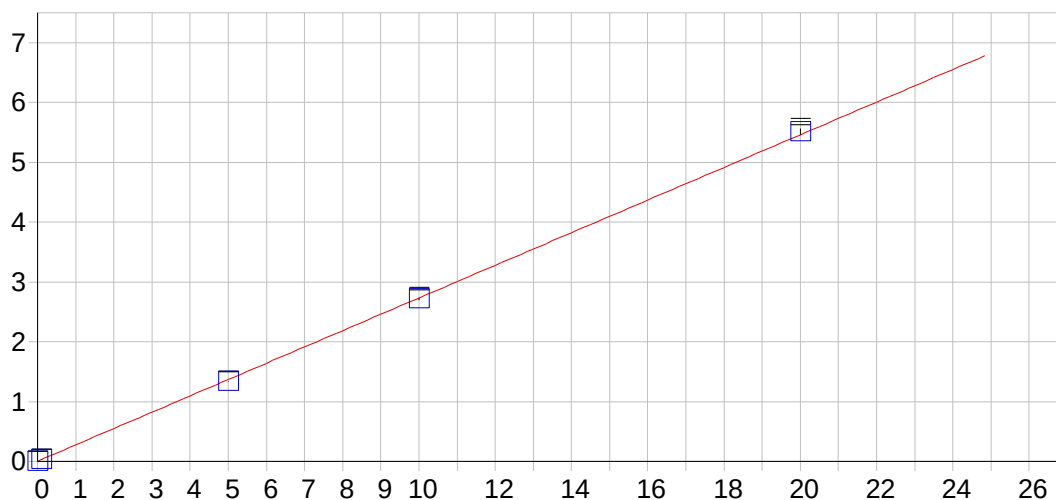
Weighting: 1/Conc

A0 (Offset): 0.000686  
 A1 (Gain): 0.005006  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999911  
 Std Error of Est: 0.000005  
 Predicted MDL: 0.017298  
 Predicted MQL: 0.057659

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    | .00069 | .000    | 1        |
| S1        | .10000       | .10780      | .008       | 7.80    | .00126 | .000    | 1        |
| S3        | 5.0000       | 4.8455      | -.155      | -3.09   | .02544 | .000    | 1        |
| S4        | 10.000       | 9.9991      | -.001      | -.009   | .05174 | .001    | 1        |
| S5        | 20.000       | 20.147      | .147       | .737    | .10354 | .001    | 1        |

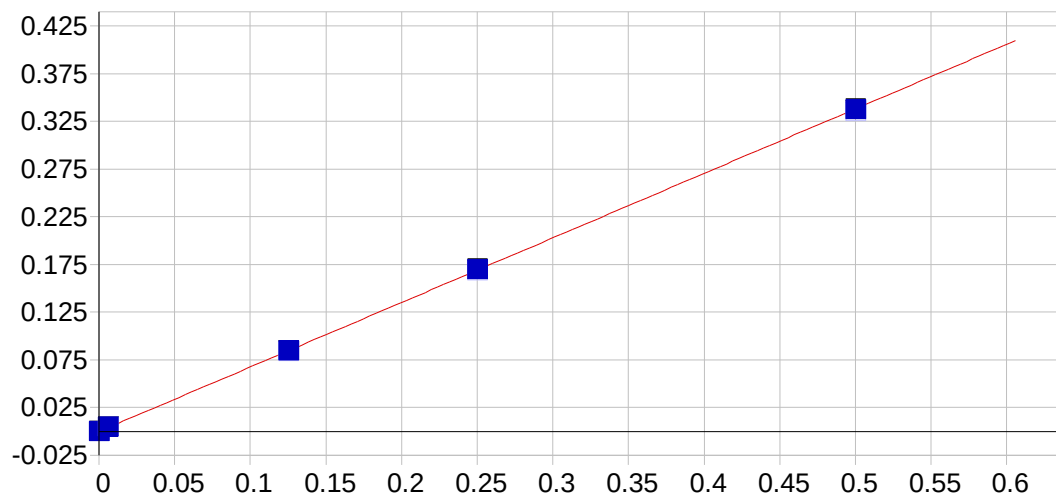


Ba 493.409 { 68}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003507 Re-Slope: 1.000000  
 A1 (Gain): 0.272833 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999917 Status: OK.  
 Std Error of Est: 0.000268  
 Predicted MDL: 0.001267  
 Predicted MQL: 0.004222

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00351 | .001    | 1        |
| S1        | .10000       | .10814      | .008       | 8.14    | .03301 | .000    | 1        |
| S3        | 5.0000       | 4.8702      | -.130      | -2.60   | 1.3323 | .007    | 1        |
| S5        | 20.000       | 20.174      | .174       | .869    | 5.5076 | .052    | 1        |
| S4        | 10.000       | 9.9480      | -.052      | -.520   | 2.7176 | .019    | 1        |



Be 234.861 {144}

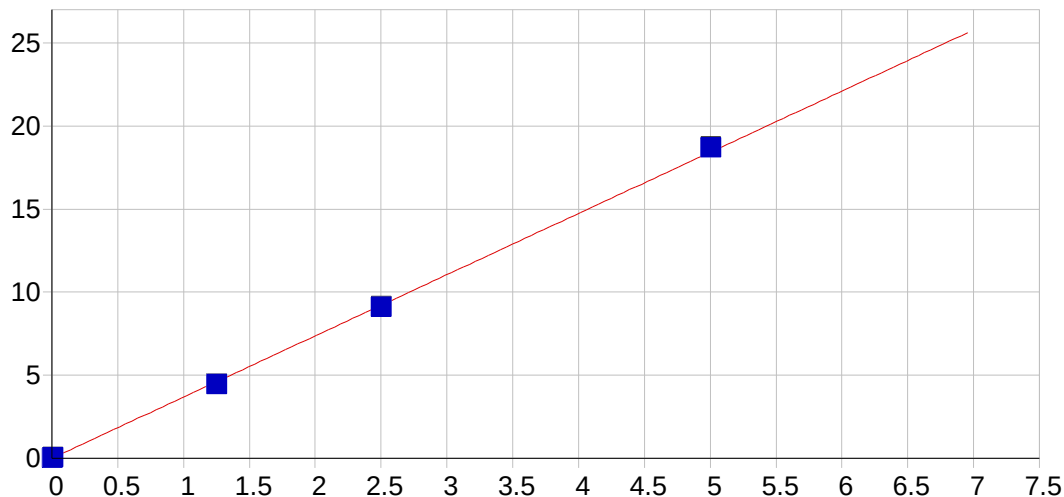
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000085 Re-Slope: 1.000000  
 A1 (Gain): 0.676703 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999952  
 Std Error of Est: 0.000020  
 Predicted MDL: 0.000081  
 Predicted MQL: 0.000271

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00009 | .000    | 1        |
| S1        | .00600       | .00668      | .001       | 11.3    | .00439  | .000    | 1        |
| S3        | .12500       | .12488      | -.000      | -.093   | .08389  | .000    | 1        |
| S4        | .25000       | .25079      | .001       | .314    | .16856  | .000    | 1        |
| S5        | .50000       | .49865      | -.001      | -.269   | .33523  | .001    | 1        |



Cd 226.502 {449}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

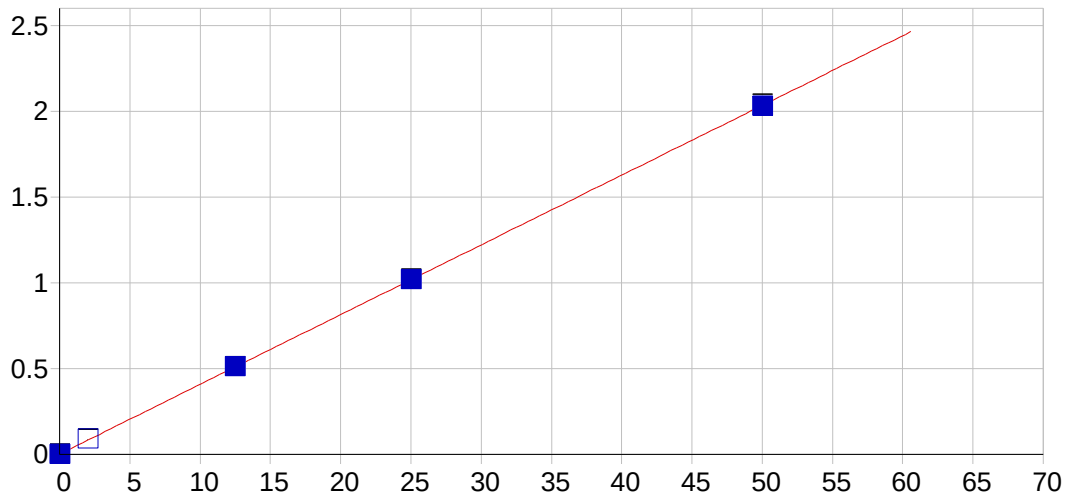
Weighting: 1/Conc

A0 (Offset): 0.002208  
 A1 (Gain): 3.682966  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999842  
 Std Error of Est: 0.000613  
 Predicted MDL: 0.000081  
 Predicted MQL: 0.000271

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    | .00221 | .000    | 1        |
| S1        | .00600       | .00618      | .000       | 2.97    | .02500 | .000    | 1        |
| S3        | 1.2500       | 1.2073      | -.043      | -3.42   | 4.4496 | .012    | 1        |
| S4        | 2.5000       | 2.4720      | -.028      | -1.12   | 9.1088 | .029    | 1        |
| S5        | 5.0000       | 5.0705      | .071       | 1.41    | 18.681 | .056    | 1        |

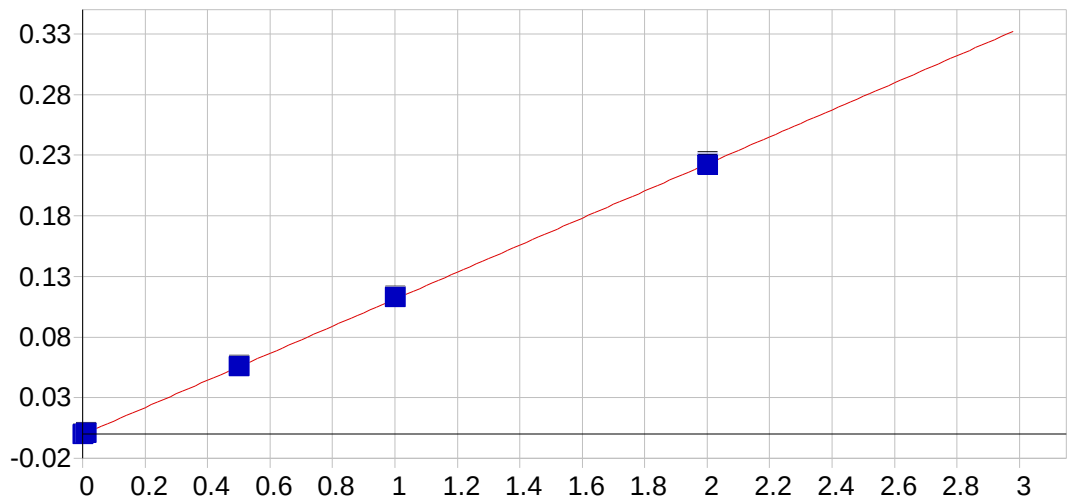


Ca 373.690 { 90}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001710 Re-Slope: 1.000000  
 A1 (Gain): 0.040645 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999948 Status: OK.  
 Std Error of Est: 0.000226  
 Predicted MDL: 0.026335  
 Predicted MQL: 0.087783

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.1347      | .135       | 6.74    | .08848 | .002    | 1        |
| S0        | .00000       | -.00013     | -.000      | .000    | .00170 | .000    | 1        |
| S3        | 12.500       | 12.493      | -.007      | -.055   | .50976 | .002    | 1        |
| S4        | 25.000       | 24.970      | -.030      | -.121   | 1.0171 | .003    | 1        |
| S5        | 50.000       | 49.902      | -.098      | -.195   | 2.0311 | .011    | 1        |



Cr 267.716 {126}

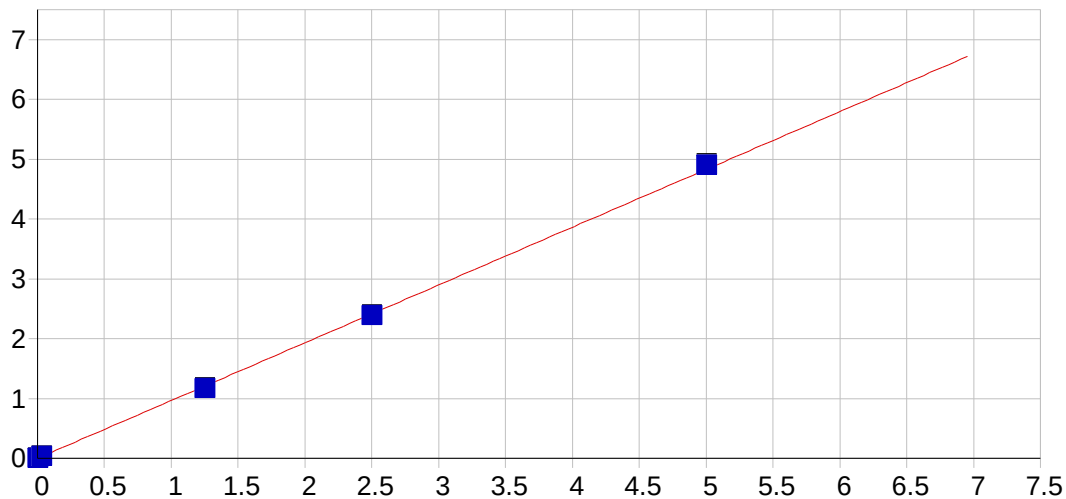
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000351 Re-Slope: 1.000000  
 A1 (Gain): 0.111552 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999974  
 Std Error of Est: 0.000006  
 Predicted MDL: 0.000615  
 Predicted MQL: 0.002051

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00035 | .000    | 1        |
| S1        | .01000       | .01052      | .001       | 5.18    | .00083  | .000    | 1        |
| S3        | .50000       | .50072      | .001       | .145    | .05594  | .000    | 1        |
| S4        | 1.0000       | 1.0098      | .010       | .980    | .11317  | .001    | 1        |
| S5        | 2.0000       | 1.9890      | -.011      | -.552   | .22328  | .001    | 1        |



Co 228.616 {447}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

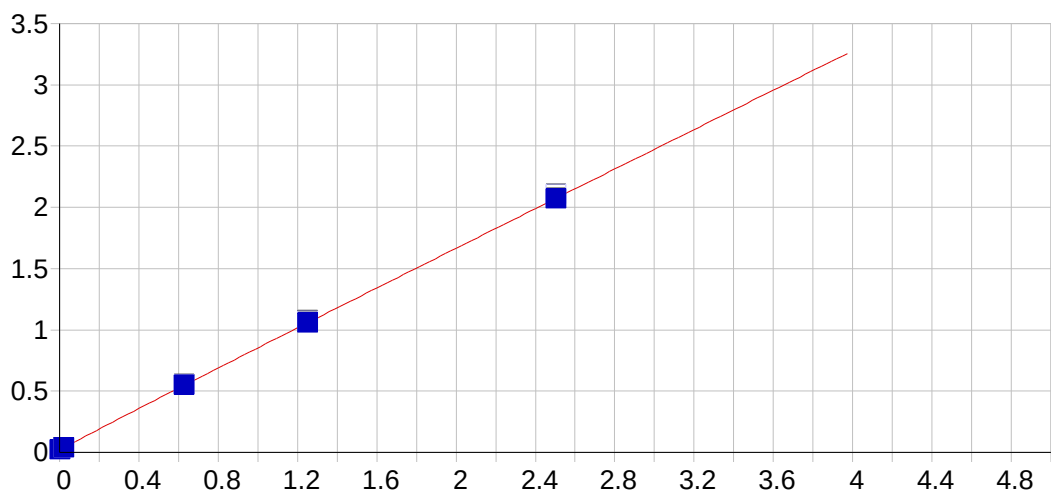
Weighting: 1/Conc

A0 (Offset): 0.000233  
 A1 (Gain): 0.965983  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999845  
 Std Error of Est: 0.000356  
 Predicted MDL: 0.000255  
 Predicted MQL: 0.000851

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    | .00023 | .000    | 1        |
| S1        | .03000       | .03004      | .000       | .126    | .02905 | .000    | 1        |
| S3        | 1.2500       | 1.2103      | -.040      | -3.17   | 1.1703 | .004    | 1        |
| S4        | 2.5000       | 2.4675      | -.032      | -1.30   | 2.3857 | .007    | 1        |
| S5        | 5.0000       | 5.0721      | .072       | 1.44    | 4.9036 | .014    | 1        |

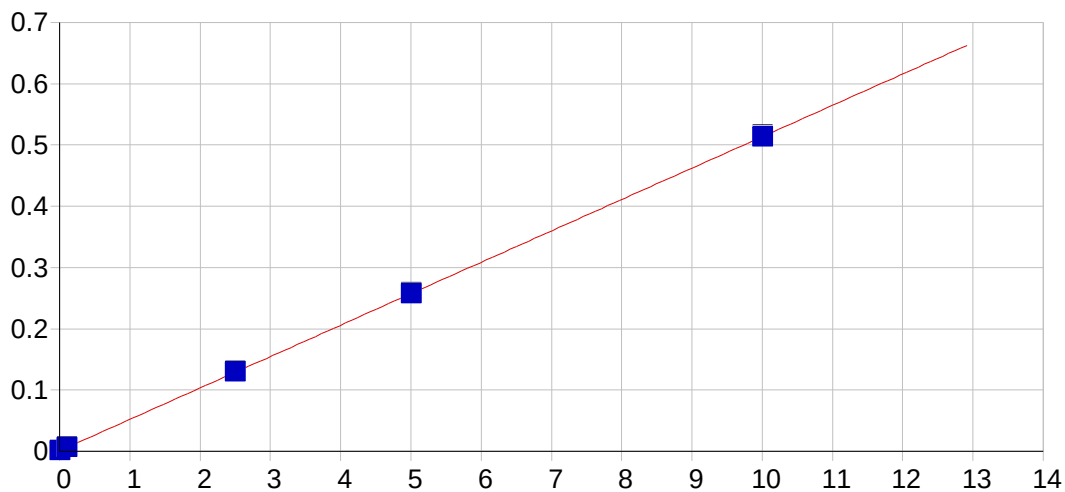


Cu 224.700 {450}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Full Fit Weighting: 1/Conc

A0 (Offset): 0.019152 Re-Slope: 1.000000  
 A1 (Gain): 0.832402 Y-int: 0.000000  
 A2 (Curvature): 0.001323  
 n (Exponent): 0.980000  
 Correlation: 0.999999 Status: Warning Positive Curvature  
 Std Error of Est: 0.000023  
 Predicted MDL: 0.000423  
 Predicted MQL: 0.001410

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .01915 | .001    | 1        |
| S1        | .02000       | .02011      | .000       | .533    | .03751 | .000    | 1        |
| S3        | .62500       | .62630      | .001       | .208    | .55432 | .001    | 1        |
| S4        | 1.2500       | 1.2477      | -.002      | -.181   | 1.0720 | .002    | 1        |
| S5        | 2.5000       | 2.5008      | .001       | .033    | 2.1046 | .001    | 1        |



Fe 240.488 {140}

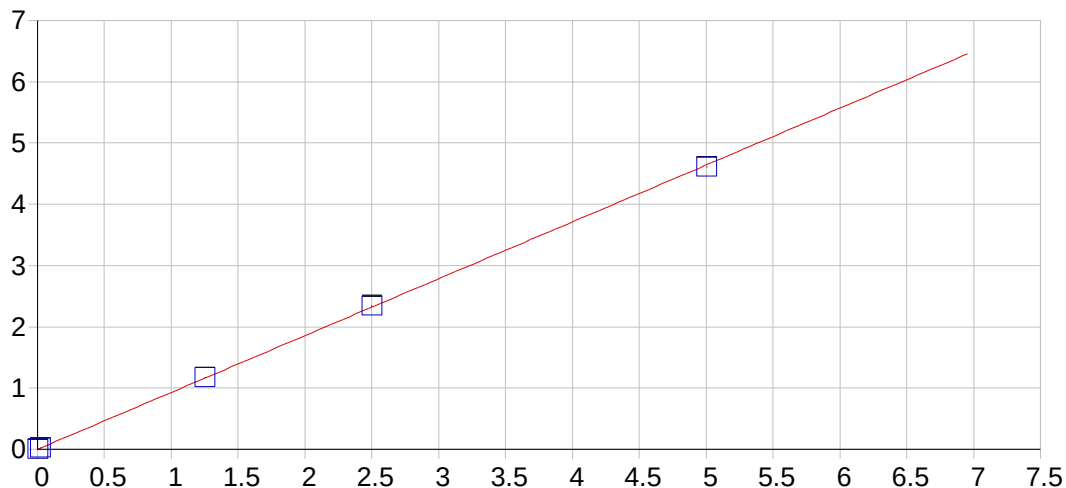
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000937 Re-Slope: 1.000000  
 A1 (Gain): 0.051260 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999980  
 Std Error of Est: 0.000018  
 Predicted MDL: 0.001065  
 Predicted MQL: 0.003551

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00001     | -.000      | .000    | .00094 | .000    | 1        |
| S1        | .10000       | .10814      | .008       | 8.14    | .00651 | .000    | 1        |
| S3        | 2.5000       | 2.5093      | .009       | .372    | .13004 | .000    | 1        |
| S4        | 5.0000       | 4.9909      | -.009      | -.182   | .25773 | .001    | 1        |
| S5        | 10.000       | 9.9917      | -.008      | -.083   | .51503 | .001    | 1        |



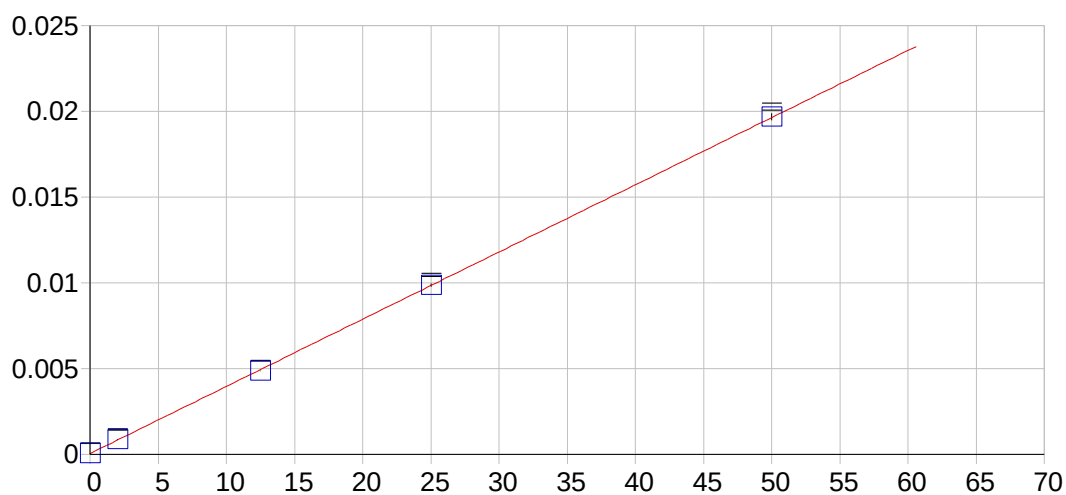
Mn 257.610 {131}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001121 Re-Slope: 1.000000  
 A1 (Gain): 0.928010 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999943 Status: OK.  
 Std Error of Est: 0.000169  
 Predicted MDL: 0.000075  
 Predicted MQL: 0.000249

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00112 | .000    | 1        |
| S1        | .02000       | .02315      | .003       | 15.7    | .02260 | .000    | 1        |
| S3        | 1.2500       | 1.2611      | .011       | .890    | 1.1715 | .003    | 1        |
| S4        | 2.5000       | 2.5203      | .020       | .812    | 2.3400 | .007    | 1        |
| S5        | 5.0000       | 4.9654      | -.035      | -.691   | 4.6091 | .002    | 1        |



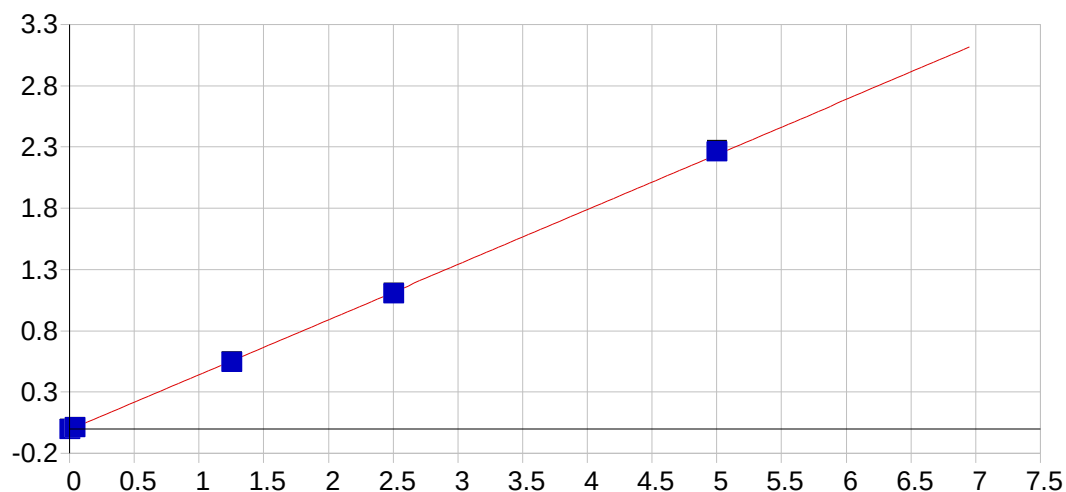


Mg 279.079 {121}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000049 Re-Slope: 1.000000  
 A1 (Gain): 0.000392 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999966 Status: OK.  
 Std Error of Est: 0.000002  
 Predicted MDL: 0.068201  
 Predicted MQL: 0.227336

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.0535      | .054       | 2.68    | .00085 | .000    | 1        |
| S0        | .00000       | -.00003     | -.000      | .000    | .00005 | .000    | 1        |
| S3        | 12.500       | 12.270      | -.230      | -1.84   | .00485 | .000    | 1        |
| S4        | 25.000       | 25.069      | .069       | .275    | .00987 | .000    | 1        |
| S5        | 50.000       | 50.108      | .108       | .216    | .01968 | .000    | 1        |



Ni 231.604 {445}

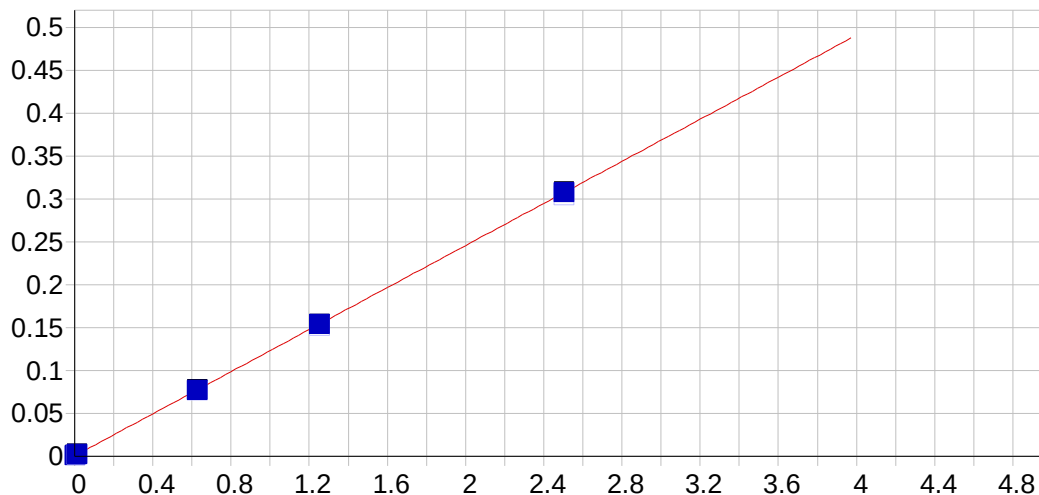
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.008370 Re-Slope: 1.000000  
 A1 (Gain): 0.449369 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999931  
 Std Error of Est: 0.000127  
 Predicted MDL: 0.000526  
 Predicted MQL: 0.001754

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | -.00837 | .000    | 1        |
| S1        | .04000       | .04170      | .002       | 4.26    | .01038  | .000    | 1        |
| S3        | 1.2500       | 1.2281      | -.022      | -1.75   | .54411  | .001    | 1        |
| S4        | 2.5000       | 2.4727      | -.027      | -1.09   | 1.1040  | .003    | 1        |
| S5        | 5.0000       | 5.0475      | .048       | .951    | 2.2623  | .008    | 1        |



Ag 328.068 {103}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

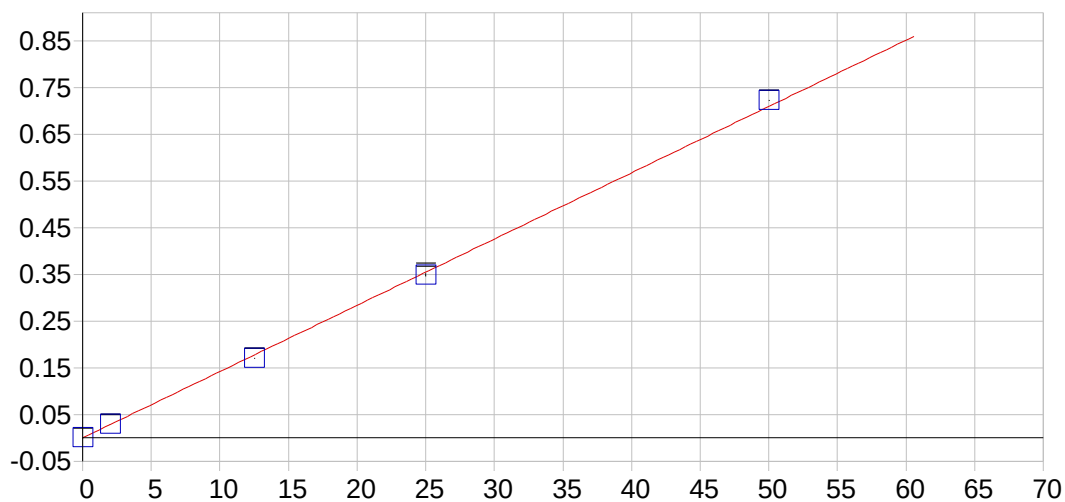
Weighting: 1/Conc

A0 (Offset): 0.000546  
 A1 (Gain): 0.122596  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999989  
 Std Error of Est: 0.000005  
 Predicted MDL: 0.000851  
 Predicted MQL: 0.002837

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    | .00055 | .000    | 1        |
| S1        | .01000       | .01088      | .001       | 8.84    | .00186 | .000    | 1        |
| S3        | .62500       | .62421      | -.001      | -.127   | .07620 | .000    | 1        |
| S4        | 1.2500       | 1.2464      | -.004      | -.291   | .15161 | .000    | 1        |
| S5        | 2.5000       | 2.5036      | .004       | .142    | .30400 | .001    | 1        |

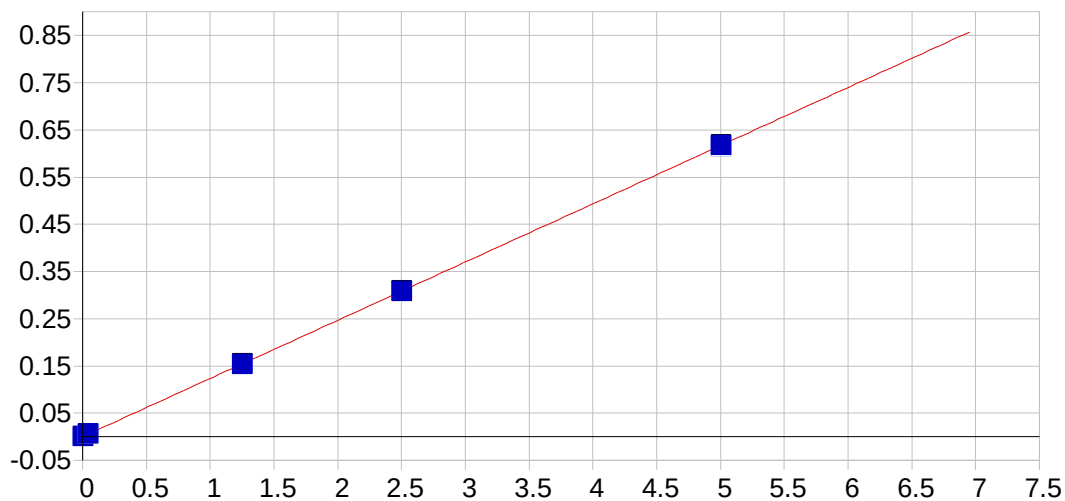


Na 589.592 { 57}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000294 Re-Slope: 1.000000  
 A1 (Gain): 0.014184 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999753 Status: OK.  
 Std Error of Est: 0.000172  
 Predicted MDL: 0.016418  
 Predicted MQL: 0.054728

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S2        | 2.0000       | 2.0186      | .019       | .931    | .02893 | .000    | 1        |
| S0        | .00000       | .00006      | .000       | .000    | .00030 | .000    | 1        |
| S3        | 12.500       | 11.991      | -.509      | -4.07   | .17037 | .000    | 1        |
| S4        | 25.000       | 24.586      | -.414      | -1.65   | .34902 | .003    | 1        |
| S5        | 50.000       | 50.904      | .904       | 1.81    | .72231 | .000    | 1        |



V 292.402 {115}

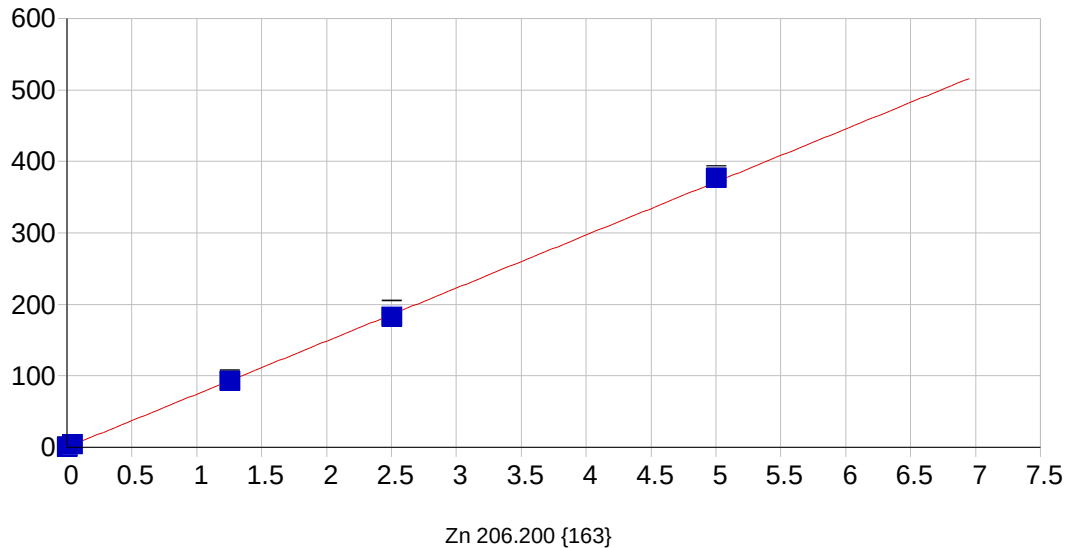
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000031 Re-Slope: 1.000000  
 A1 (Gain): 0.123355 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999991  
 Std Error of Est: 0.000013  
 Predicted MDL: 0.000615  
 Predicted MQL: 0.002049

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00003 | .000    | 1        |
| S1        | .04000       | .04226      | .002       | 5.65    | .00517 | .000    | 1        |
| S3        | 1.2500       | 1.2445      | -.005      | -.440   | .15254 | .001    | 1        |
| S4        | 2.5000       | 2.4978      | -.002      | -.087   | .30613 | .001    | 1        |
| S5        | 5.0000       | 5.0054      | .005       | .109    | .61345 | .001    | 1        |



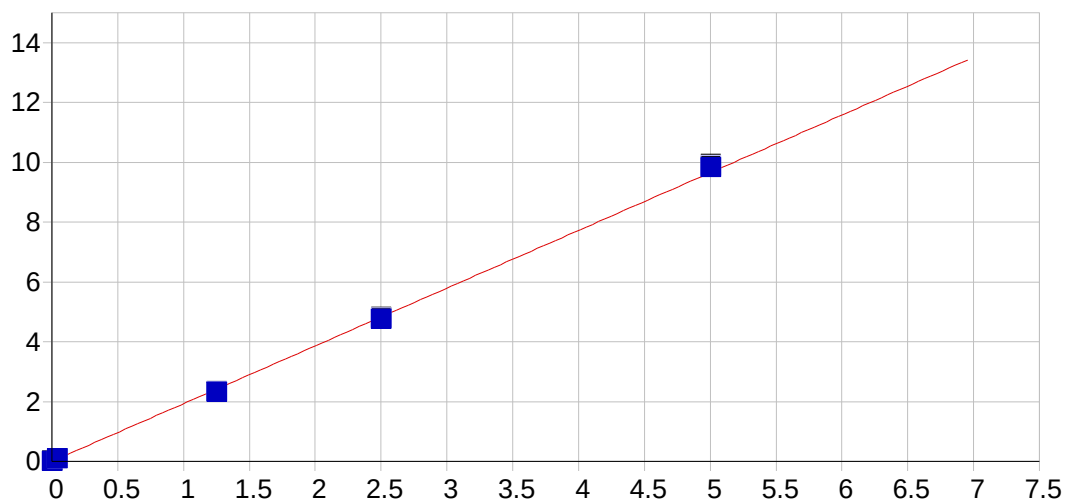
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.162321  
 A1 (Gain): 74.216689  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999889  
 Std Error of Est: 0.026905  
 Predicted MDL: 0.000415  
 Predicted MQL: 0.001384

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    | .16220 | .015    | 1        |
| S1        | .04000       | .04241      | .002       | 6.02    | 3.3291 | .110    | 1        |
| S3        | 1.2500       | 1.2368      | -.013      | -1.06   | 92.512 | 1.14    | 1        |
| S4        | 2.5000       | 2.4508      | -.049      | -1.97   | 183.18 | 8.53    | 1        |
| S5        | 5.0000       | 5.0600      | .060       | 1.20    | 377.94 | 2.13    | 1        |

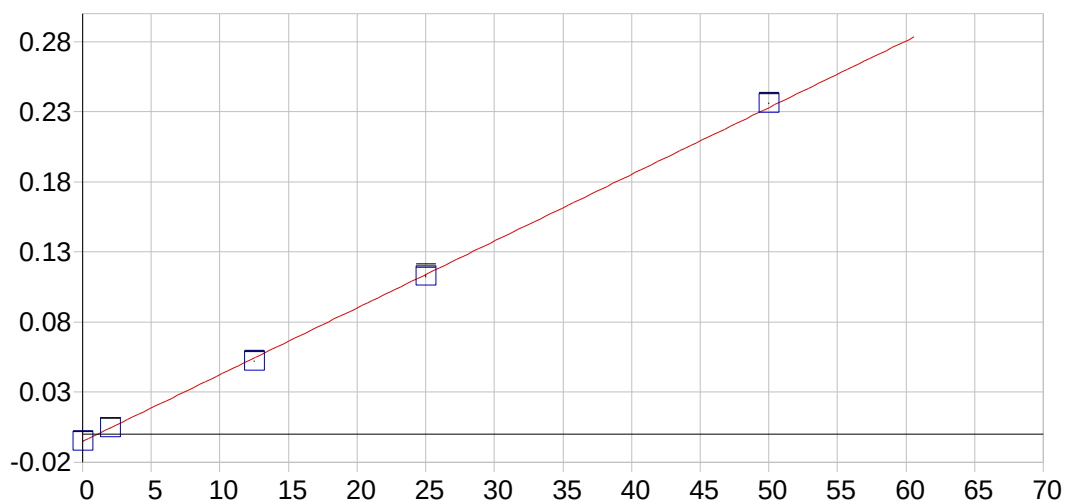


Zn 213.856 {458}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001375 Re-Slope: 1.000000  
 A1 (Gain): 1.930096 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999759 Status: OK.  
 Std Error of Est: 0.001032  
 Predicted MDL: 0.000109  
 Predicted MQL: 0.000364

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00138 | .000    | 1        |
| S1        | .04000       | .03996      | -.000      | -.094   | .07904 | .000    | 1        |
| S3        | 1.2500       | 1.1966      | -.053      | -4.27   | 2.3264 | .008    | 1        |
| S4        | 2.5000       | 2.4656      | -.034      | -1.38   | 4.7909 | .014    | 1        |
| S5        | 5.0000       | 5.0878      | .088       | 1.76    | 9.8830 | .039    | 1        |



K 766.490 {44}

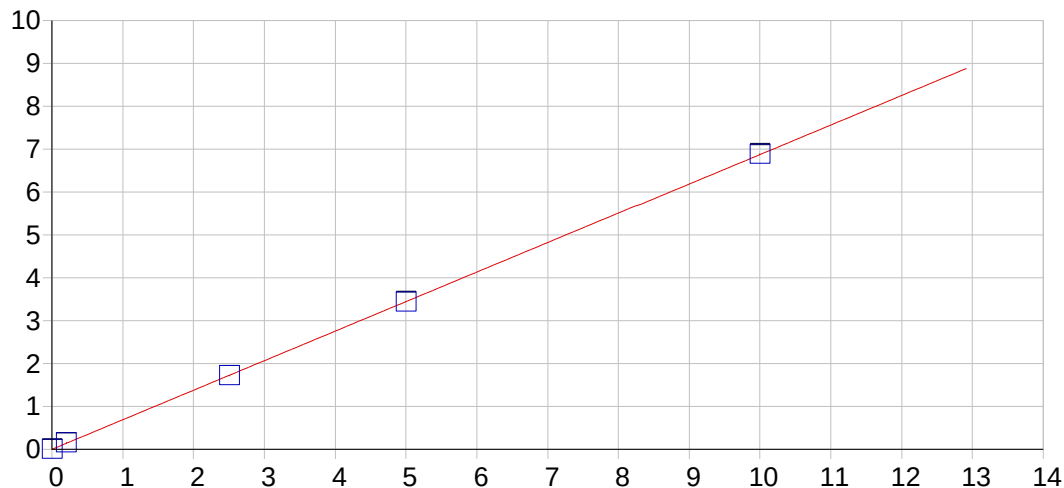
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.005108 Re-Slope: 1.000000  
 A1 (Gain): 0.004762 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999858  
 Std Error of Est: 0.000044  
 Predicted MDL: 0.052405  
 Predicted MQL: 0.174684

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S2        | 2.0000       | 2.0059      | .006       | .296    | .00444  | .000    | 1        |
| S0        | .00000       | .00006      | .000       | .000    | -.00511 | .000    | 1        |
| S3        | 12.500       | 12.060      | -.440      | -3.52   | .05232  | .000    | 1        |
| S4        | 25.000       | 24.794      | -.206      | -.825   | .11296  | .001    | 1        |
| S5        | 50.000       | 50.641      | .641       | 1.28    | .23604  | .000    | 1        |



Mo 202.030 {467}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

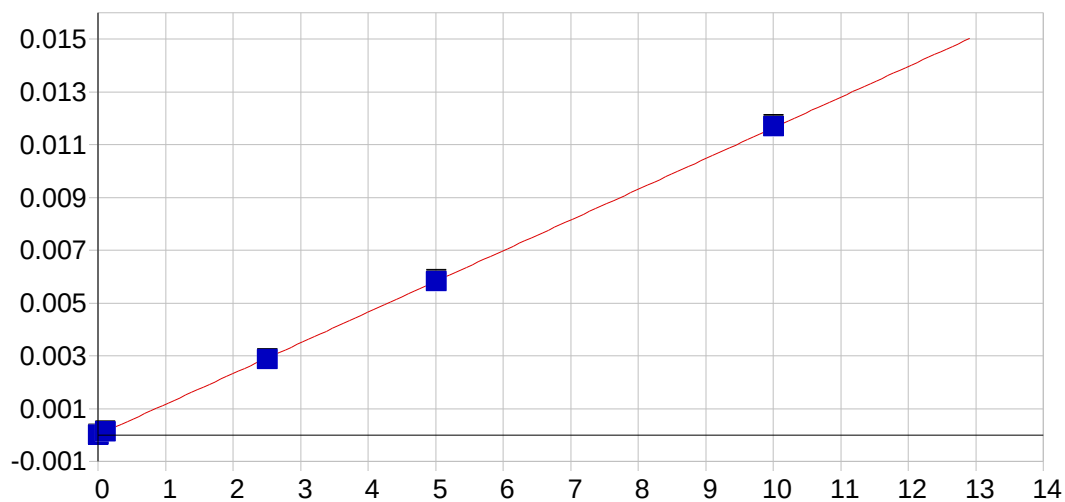
Weighting: 1/Conc

A0 (Offset): 0.000380  
 A1 (Gain): 0.687913  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999976  
 Std Error of Est: 0.000369  
 Predicted MDL: 0.000321  
 Predicted MQL: 0.001070

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    | .00037 | .000    | 1        |
| S1        | .20000       | .21304      | .013       | 6.52    | .14693 | .000    | 1        |
| S3        | 2.5000       | 2.4958      | -.004      | -.168   | 1.7173 | .002    | 1        |
| S4        | 5.0000       | 4.9966      | -.003      | -.067   | 3.4376 | .006    | 1        |
| S5        | 10.000       | 9.9945      | -.005      | -.055   | 6.8757 | .013    | 1        |

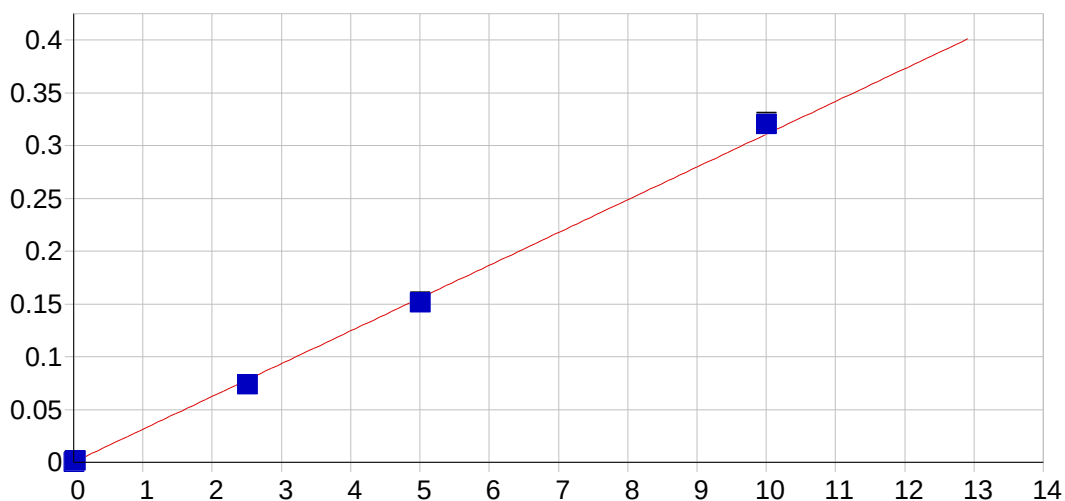


B 249.678 {135}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000001 Re-Slope: 1.000000  
 A1 (Gain): 0.001163 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999968 Status: OK.  
 Std Error of Est: 0.000000  
 Predicted MDL: 0.017536  
 Predicted MQL: 0.058453

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00000 | .000    | 1        |
| S1        | .10000       | .10530      | .005       | 5.30    | .00012 | .000    | 1        |
| S3        | 2.5000       | 2.4621      | -.038      | -1.52   | .00286 | .000    | 1        |
| S4        | 5.0000       | 4.9864      | -.014      | -.271   | .00579 | .000    | 1        |
| S5        | 10.000       | 10.046      | .046       | .462    | .01166 | .000    | 1        |



S 182.034 {485}

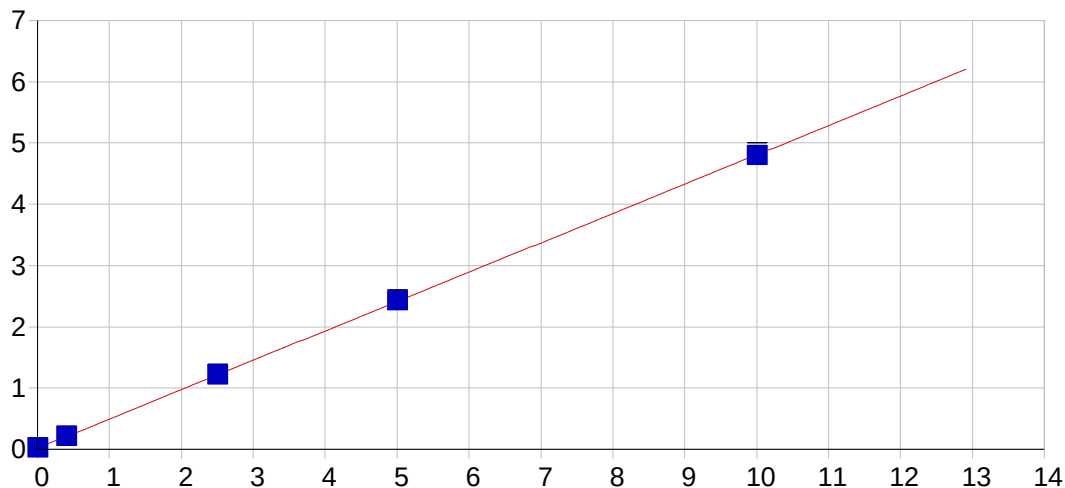
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000295 Re-Slope: 1.000000  
 A1 (Gain): 0.031049 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999357  
 Std Error of Est: 0.000027  
 Predicted MDL: 0.003648  
 Predicted MQL: 0.012161

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00030 | .000    | 1        |
| S1        | .02000       | .02305      | .003       | 15.3    | .00099 | .000    | 1        |
| S3        | 2.5000       | 2.3490      | -.151      | -6.04   | .07314 | .000    | 1        |
| S4        | 5.0000       | 4.8541      | -.146      | -2.92   | .15083 | .001    | 1        |
| S5        | 10.000       | 10.294      | .294       | 2.94    | .31956 | .002    | 1        |



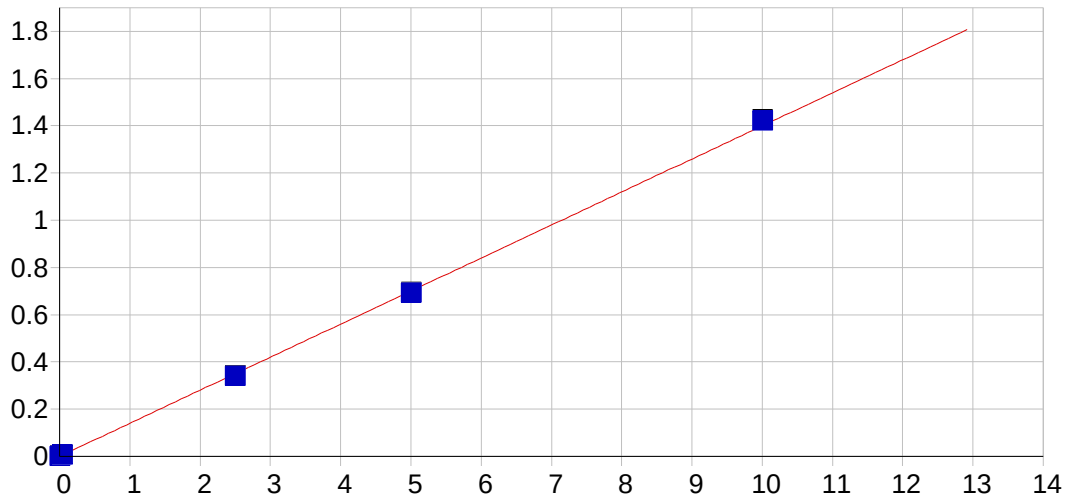
Si 288.158 {117}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.016847 Re-Slope: 1.000000  
 A1 (Gain): 0.479016 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999993 Status: OK.  
 Std Error of Est: 0.000200  
 Predicted MDL: 0.002945  
 Predicted MQL: 0.009817

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .01685 | .001    | 1        |
| S1        | .40000       | .39468      | -.005      | -1.33   | .20574 | .002    | 1        |
| S3        | 2.5000       | 2.5040      | .004       | .160    | 1.2157 | .009    | 1        |
| S4        | 5.0000       | 5.0252      | .025       | .504    | 2.4227 | .011    | 1        |
| S5        | 10.000       | 9.9761      | -.024      | -.239   | 4.7930 | .041    | 1        |



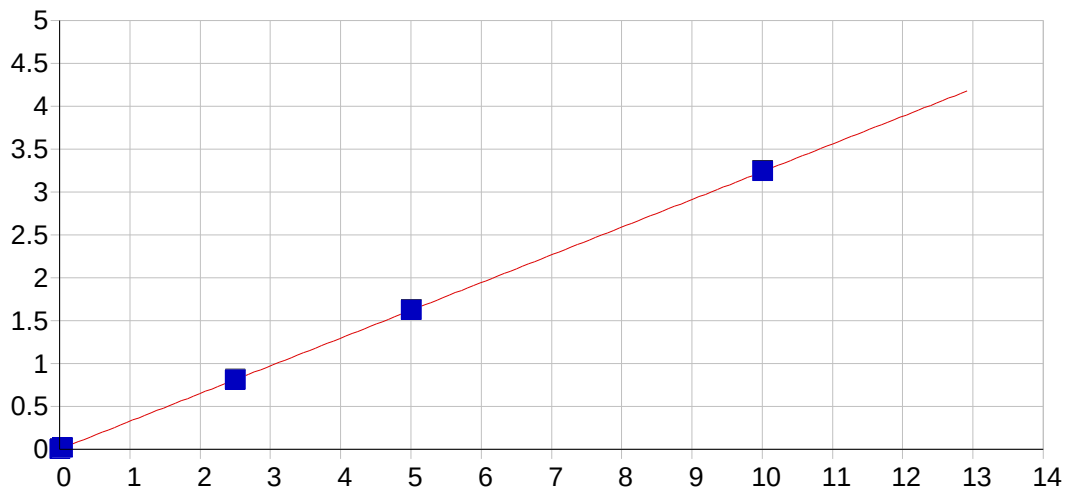


Sn 189.989 {477}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000396 Re-Slope: 1.000000  
 A1 (Gain): 0.139917 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999855 Status: OK.  
 Std Error of Est: 0.000081  
 Predicted MDL: 0.000830  
 Predicted MQL: 0.002766

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00040 | .000    | 1        |
| S1        | .04000       | .03903      | -.001      | -2.43   | .00586 | .000    | 1        |
| S3        | 2.5000       | 2.4255      | -.075      | -2.98   | .33982 | .001    | 1        |
| S4        | 5.0000       | 4.9345      | -.066      | -1.31   | .69093 | .002    | 1        |
| S5        | 10.000       | 10.141      | .141       | 1.41    | 1.4195 | .005    | 1        |



Ti 336.121 {100}

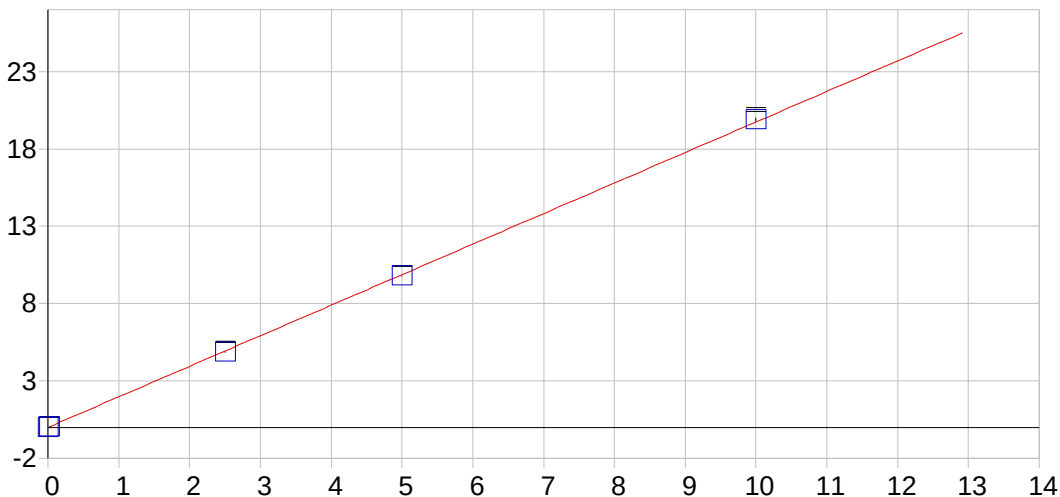
Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.003313 Re-Slope: 1.000000  
 A1 (Gain): 0.323324 Y-int: 0.000000

A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999995  
 Std Error of Est: 0.000036  
 Predicted MDL: 0.002439  
 Predicted MQL: 0.008132

Status: OK.

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | .00331 | .000    | 1        |
| S1        | .04000       | .03896      | -.001      | -2.59   | .01590 | .000    | 1        |
| S3        | 2.5000       | 2.4818      | -.018      | -.728   | .80563 | .005    | 1        |
| S4        | 5.0000       | 5.0037      | .004       | .075    | 1.6209 | .005    | 1        |
| S5        | 10.000       | 10.015      | .015       | .155    | 3.2411 | .005    | 1        |



Li 670.784 { 50}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

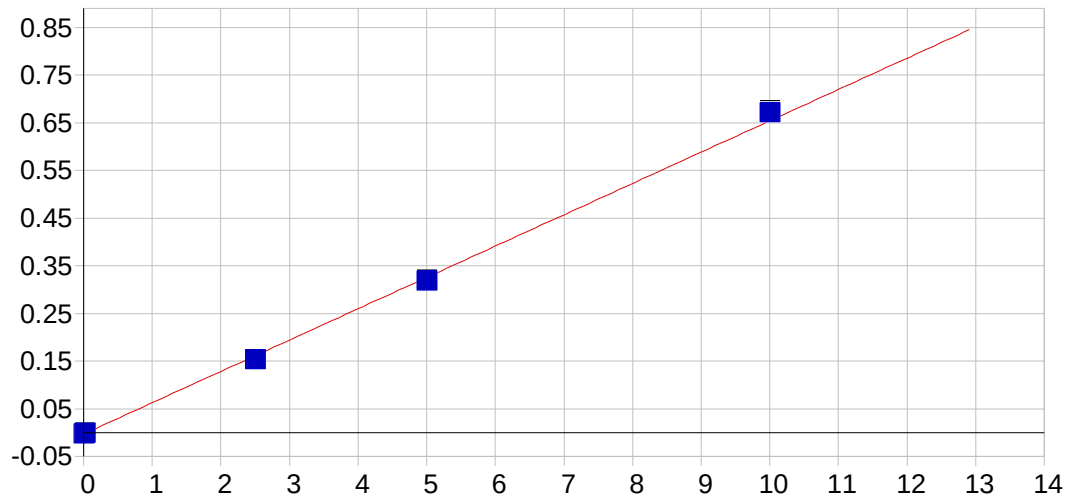
Weighting: 1/Conc

A0 (Offset): -0.001699  
 A1 (Gain): 1.974276  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999954  
 Std Error of Est: 0.000458  
 Predicted MDL: 0.002141  
 Predicted MQL: 0.007136

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    | -.00169 | .004    | 1        |
| S1        | .02000       | .01798      | -.002      | -10.1   | .03380  | .005    | 1        |
| S3        | 2.5000       | 2.4708      | -.029      | -1.17   | 4.8764  | .031    | 1        |
| S4        | 5.0000       | 4.9524      | -.048      | -.951   | 9.7758  | .025    | 1        |
| S5        | 10.000       | 10.079      | .079       | .787    | 19.897  | .127    | 1        |

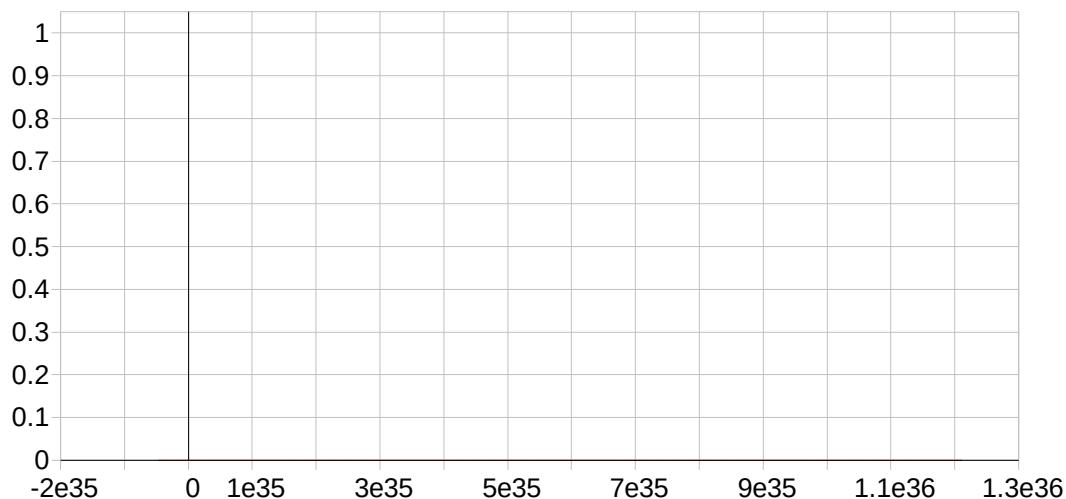


P 177.495 {490}

Date of Fit: 3/27/2019 15:28:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.003083 Re-Slope: 1.000000  
 A1 (Gain): 0.065715 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999543 Status: OK.  
 Std Error of Est: 0.000048  
 Predicted MDL: 0.001825  
 Predicted MQL: 0.006084

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00000      | .000       | .000    | -.00308 | .000    | 1        |
| S1        | .02000       | .01940      | -.001      | -3.01   | -.00181 | .000    | 1        |
| S3        | 2.5000       | 2.3683      | -.132      | -5.27   | .15231  | .001    | 1        |
| S4        | 5.0000       | 4.8821      | -.118      | -2.36   | .31727  | .001    | 1        |
| S5        | 10.000       | 10.250      | .250       | 2.50    | .66956  | .005    | 1        |



Y 224.306 {450}\*

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

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

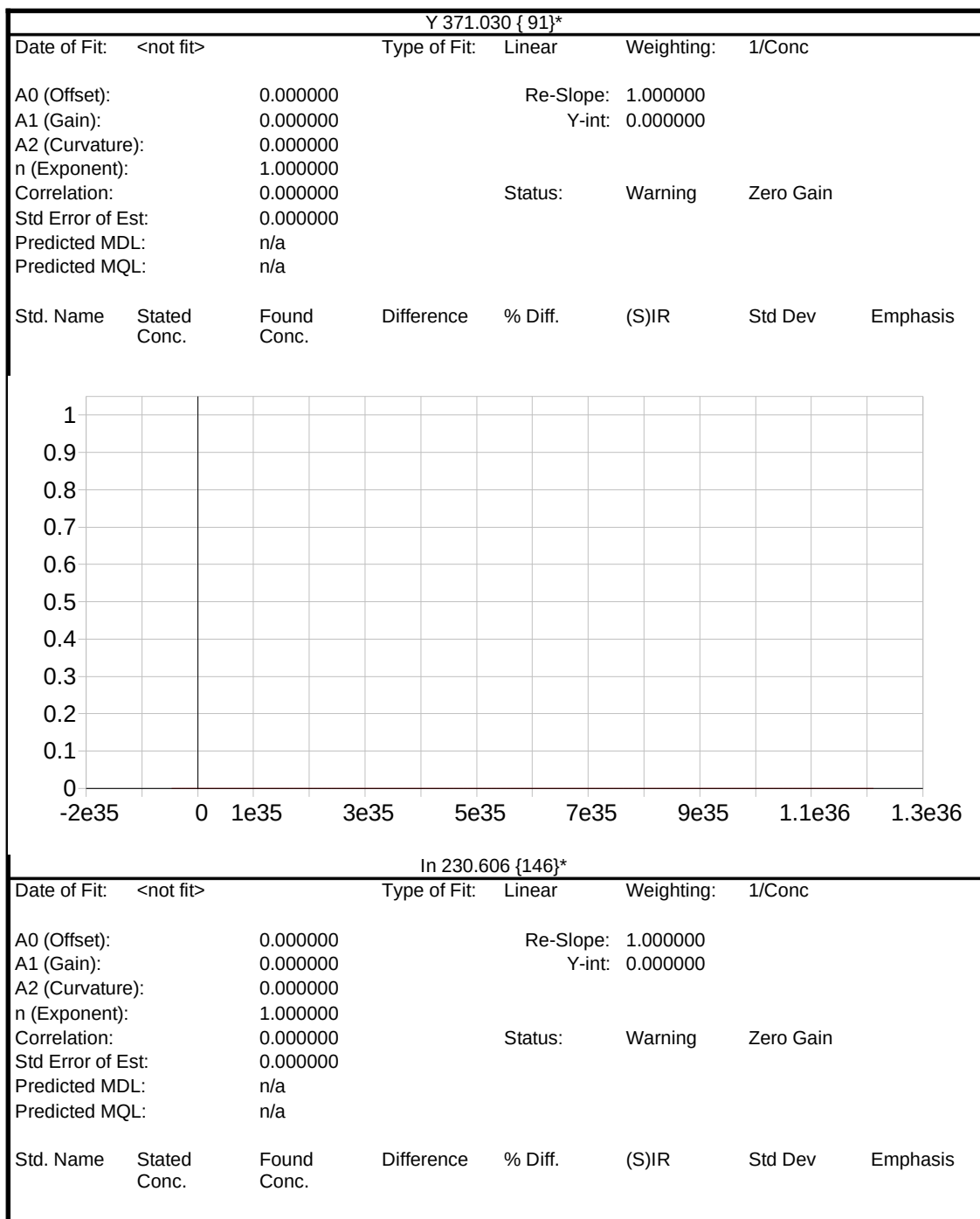
Status:      Warning      Zero Gain

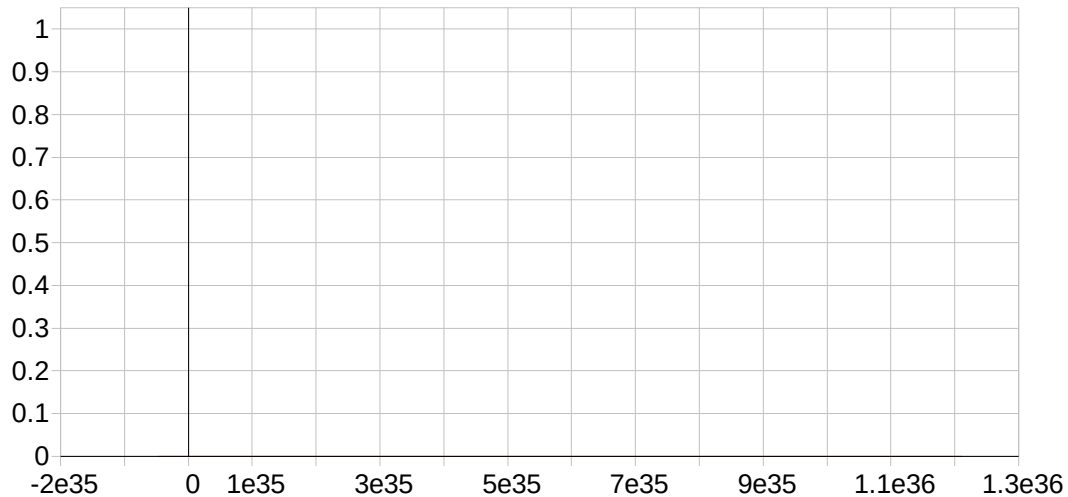
|              |           |              |        |            |        |
|--------------|-----------|--------------|--------|------------|--------|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |
|--------------|-----------|--------------|--------|------------|--------|

Re-Slope: 1.000000  
Y-int: 0.000000

Status:      Warning      Zero Gain

The figure shows a blank coordinate system. The vertical axis (y-axis) is labeled from 0 to 1 in increments of 0.1. The horizontal axis (x-axis) is labeled from -2e35 to 1.3e36 in increments of 1e35. A vertical line is drawn at x=0, and a horizontal line is drawn at y=0. The grid is composed of 10x10 major squares.





In 230.606 {446}\*

Date of Fit: <not fit>

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 0.000000

Re-Slope: 1.000000

A1 (Gain): 0.000000

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.000000

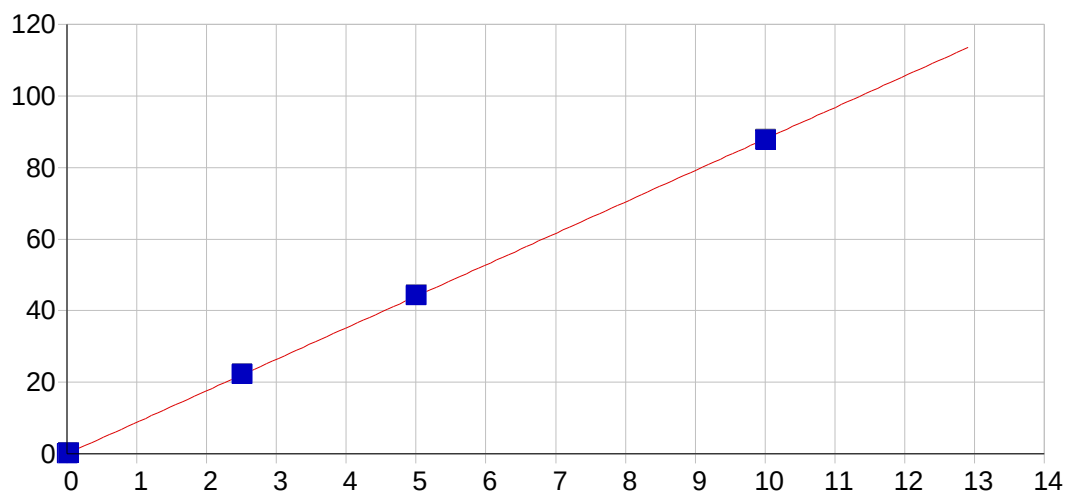
Status: Warning Zero Gain

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



Sr 407.771 { 83}

Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 0.005773

Re-Slope: 1.000000

A1 (Gain): 8.796358

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.999984

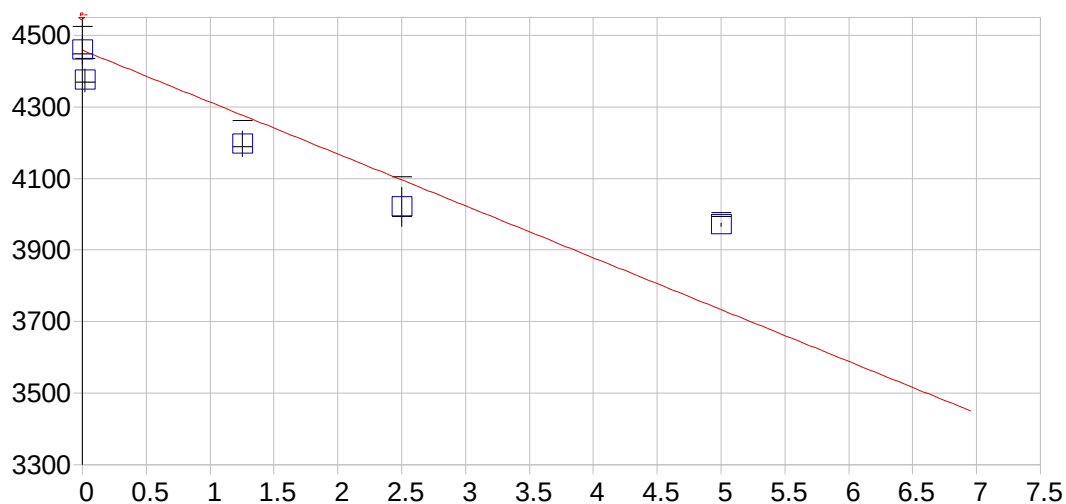
Status: OK.

Std Error of Est: 0.001193

Predicted MDL: 0.000171

Predicted MQL: 0.000571

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00000     | -.000      | .000    | .00576 | .001    | 1        |
| S1        | .02000       | .02140      | .001       | 6.98    | .19495 | .003    | 1        |
| S3        | 2.5000       | 2.5144      | .014       | .578    | 22.148 | .105    | 1        |
| S4        | 5.0000       | 5.0291      | .029       | .582    | 44.292 | .130    | 1        |
| S5        | 10.000       | 9.9551      | -.045      | -.449   | 87.671 | .096    | 1        |



Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 4458.448125

Re-Slope: 1.000000

A1 (Gain): -144.952736

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.585913

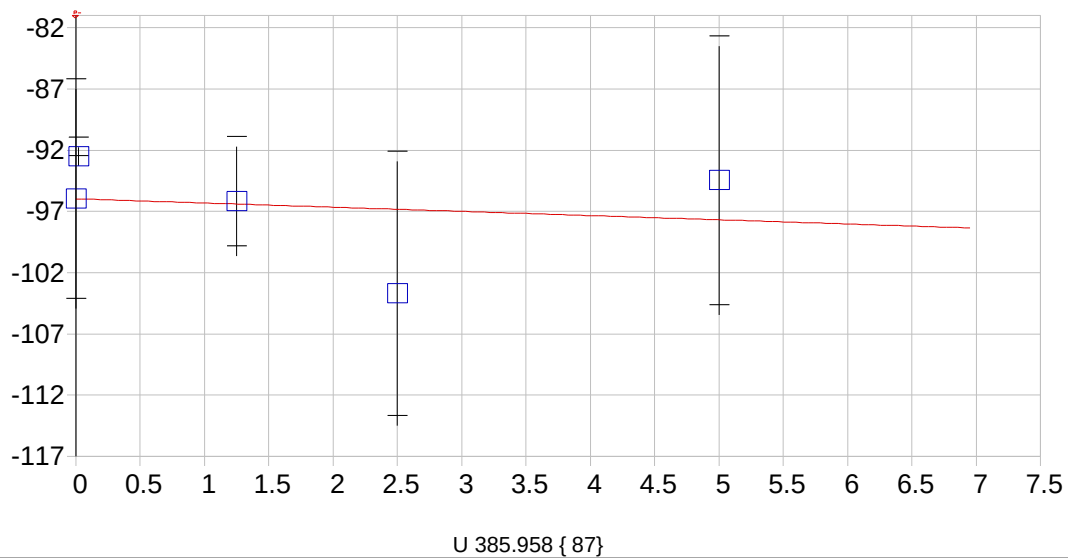
Status: Warning Negative Gain

Std Error of Est: 3.426000

Predicted MDL: n/a

Predicted MQL: n/a

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|--------|---------|----------|
| S0        | .00000       | -.00057     | -.001      | .000    | 4458.5 | 38.6    | 1        |
| S1        | .02000       | .58341      | .563       | 2820.   | 4373.9 | 33.1    | 1        |
| S3        | 1.2500       | 1.8053      | .555       | 44.4    | 4196.8 | 36.7    | 1        |
| S4        | 2.5000       | 3.0163      | .516       | 20.7    | 4021.2 | 55.1    | 1        |
| S5        | 5.0000       | 3.3650      | -1.64      | -32.7   | 3970.7 | 5.58    | 1        |



Date of Fit: 3/27/2019 15:28:03

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): -95.971633

Re-Slope: 1.000000

A1 (Gain): -0.342300

Y-int: 0.000000

A2 (Curvature): 0.000000

n (Exponent): 1.000000

Correlation: 0.040794

Status: Warning Negative Gain

Std Error of Est: 0.143272

Predicted MDL: n/a

Predicted MQL: n/a

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|-----------|--------------|-------------|------------|---------|---------|---------|----------|
| S0        | .00000       | .00996      | .010       | .000    | -95.975 | 8.96    | 1        |
| S1        | .02000       | -10.056     | -10.1      | -50400. | -92.529 | .747    | 1        |
| S3        | 1.2500       | .60688      | -.643      | -51.4   | -96.179 | 4.47    | 1        |
| S4        | 2.5000       | 22.610      | 20.1       | 804.    | -103.71 | 10.8    | 1        |
| S5        | 5.0000       | -4.3910     | -9.39      | -188.   | -94.469 | 11.0    | 1        |



Sample Name: S0      Acquired: 3/27/2019 12:02:36      Type: Cal  
Method: P4-ICP2(v2989)      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    | .00071  | .00018 | .00488  | .00056  | -.00006 | .00069  | .00351 | -.00009 |
| Stddev | .00010  | .00007 | .00015  | .00027  | .00030  | .00004  | .00063 | .00003  |
| %RSD   | 13.852  | 38.427 | 3.0665  | 48.016  | 525.10  | 6.4761  | 18.094 | 39.080  |
| #1     | .00067  | .00013 | .00488  | .00075  | .00023  | .00071  | .00411 | -.00005 |
| #2     | .00064  | .00026 | .00474  | .00067  | -.00003 | .00064  | .00285 | -.00011 |
| #3     | .00083  | .00015 | .00504  | .00025  | -.00037 | .00071  | .00356 | -.00010 |
| 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    | .00221  | .00170 | -.00035 | .00023  | .01915  | .00094  | .00112 | .00005  |
| Stddev | .00013  | .00022 | .00004  | .00013  | .00062  | .00003  | .00004 | .00003  |
| %RSD   | 6.0339  | 13.059 | 10.422  | 54.089  | 3.2378  | 2.9612  | 3.1941 | 56.890  |
| #1     | .00233  | .00190 | -.00035 | .00015  | .01970  | .00095  | .00115 | .00004  |
| #2     | .00206  | .00175 | -.00039 | .00017  | .01848  | .00091  | .00108 | .00003  |
| #3     | .00223  | .00146 | -.00032 | .00038  | .01927  | .00096  | .00113 | .00008  |
| 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    | -.00837 | .00055 | .00030  | .00003  | .00138  | -.00511 | .00037 | .00000  |
| Stddev | .00009  | .00006 | .00032  | .00006  | .00017  | .00010  | .00012 | .00001  |
| %RSD   | 1.1012  | 11.028 | 109.82  | 181.58  | 12.195  | 1.9642  | 32.643 | 1205.1  |
| #1     | -.00827 | .00052 | -.00008 | -.00003 | .00124  | -.00522 | .00026 | .00000  |
| #2     | -.00844 | .00062 | .00046  | .00006  | .00157  | -.00502 | .00050 | .00001  |
| #3     | -.00840 | .00050 | .00050  | .00006  | .00132  | -.00508 | .00035 | -.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    | .00030  | .01685 | .00040  | .00331  | -.00169 | -.0031  | .00576 | 4458.5  |
| Stddev | .00005  | .00106 | .00009  | .00028  | .00350  | .0001   | .00091 | 38.6    |
| %RSD   | 17.264  | 6.2913 | 23.391  | 8.4251  | 206.78  | 2.561   | 15.763 | .86606  |
| #1     | .00024  | .01722 | .00046  | .00363  | .00087  | -.0032  | .00668 | 4414.1  |
| #2     | .00034  | .01565 | .00029  | .00312  | -.00569 | -.0030  | .00572 | 4477.5  |
| #3     | .00031  | .01768 | .00044  | .00318  | -.00027 | -.0031  | .00487 | 4484.0  |

Sample Name: S0      Acquired: 3/27/2019 12:02:36      Type: Cal  
Method: P4-ICP2(v2989)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -95.975 |
| Stddev | 8.963   |
| %RSD   | 9.3392  |

|    |         |
|----|---------|
| #1 | -90.864 |
| #2 | -106.32 |
| #3 | -90.737 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2930.5 | 54334. | 3018.7 | 43.089 | 3986.4 |
| Stddev    | 4.3    | 329.   | 8.8    | 1.073  | 13.3   |
| %RSD      | .14711 | .60461 | .29027 | 2.4904 | .33259 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2930.1 | 53955. | 3023.6 | 42.833 | 3971.5 |
| #2 | 2926.4 | 54540. | 3023.9 | 44.267 | 3990.5 |
| #3 | 2935.0 | 54507. | 3008.6 | 42.167 | 3997.1 |

Sample Name: S1      Acquired: 3/27/2019 12:07:02      Type: Cal  
Method: P4-ICP2(v2989)      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    | .00194 | .00622 | .00826 | .00202 | .00737 | .00126 | .03301 | .00439 |
| Stddev | .00022 | .00014 | .00024 | .00011 | .00025 | .00006 | .00015 | .00004 |
| %RSD   | 11.205 | 2.2883 | 2.9531 | 5.2838 | 3.3738 | 5.1102 | .45573 | .83204 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00214 | .00613 | .00801 | .00197 | .00720 | .00133 | .03294 | .00439 |
| #2 | .00171 | .00615 | .00827 | .00194 | .00765 | .00125 | .03318 | .00435 |
| #3 | .00198 | .00639 | .00850 | .00214 | .00725 | .00120 | .03291 | .00443 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .02500 | .00083 | .02905 | .03751 | .00651 | .02260 | .01038 | .00186 |
| Stddev | .00016 | .00004 | .00009 | .00004 | .00002 | .00015 | .00021 | .00006 |
| %RSD   | .65424 | 4.2524 | .31482 | .10776 | .26066 | .67255 | 2.0182 | 3.2176 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02494 | .00083 | .02903 | .03749 | .00650 | .02247 | .01062 | .00192 |
| #2 | .02489 | .00079 | .02916 | .03755 | .00652 | .02257 | .01022 | .00185 |
| #3 | .02519 | .00086 | .02898 | .03748 | .00649 | .02277 | .01030 | .00180 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .00517 | .07904 | .14693 | .00012 | .00099 | .20574 | .00586 | .01590 |
| Stddev | .00003 | .00026 | .00035 | .00002 | .00007 | .00190 | .00013 | .00044 |
| %RSD   | .57546 | .33121 | .23753 | 14.775 | 6.7718 | .92177 | 2.2662 | 2.7920 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00514 | .07935 | .14719 | .00014 | .00093 | .20785 | .00589 | .01545 |
| #2 | .00517 | .07887 | .14653 | .00011 | .00107 | .20519 | .00597 | .01633 |
| #3 | .00520 | .07892 | .14707 | .00012 | .00098 | .20418 | .00571 | .01593 |

|        |        |        |        |        |         |
|--------|--------|--------|--------|--------|---------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859  |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S   |
| Avg    | .03380 | -.0018 | .19495 | 4373.9 | -92.529 |
| Stddev | .00477 | .0001  | .00311 | 33.1   | .747    |
| %RSD   | 14.121 | 7.720  | 1.5947 | .75759 | .80745  |

|    |        |        |        |        |         |
|----|--------|--------|--------|--------|---------|
| #1 | .02851 | -.0017 | .19809 | 4395.1 | -91.808 |
| #2 | .03779 | -.0018 | .19187 | 4335.7 | -93.300 |
| #3 | .03512 | -.0020 | .19489 | 4390.8 | -92.480 |

Sample Name: S1      Acquired: 3/27/2019 12:07:02      Type: Cal  
Method: P4-ICP2(v2989)      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       | 2934.7 | 54047. | 3050.4 | 44.861 | 3969.4 |
| Stddev    | 6.7    | 48.    | 27.6   | 1.797  | 8.5    |
| %RSD      | .22766 | .08831 | .90590 | 4.0062 | .21365 |
| #1        | 2930.1 | 54077. | 3021.9 | 42.858 | 3964.4 |
| #2        | 2942.4 | 54071. | 3077.1 | 45.392 | 3979.2 |
| #3        | 2931.7 | 53992. | 3052.3 | 46.333 | 3964.6 |

Sample Name: S2      Acquired: 3/27/2019 12:11:27      Type: Cal  
Method: P4-ICP2(v2989)      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    | .08848 | .00085 | .02893 | .00444 |
| Stddev | .00174 | .00003 | .00025 | .00016 |
| %RSD   | 1.9702 | 3.8523 | .86712 | 3.6394 |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | .08671 | .00085 | .02895 | .00428 |
| #2 | .09019 | .00089 | .02866 | .00444 |
| #3 | .08852 | .00082 | .02916 | .00461 |

|           |        |        |
|-----------|--------|--------|
| Int. Std. | Y_3600 | Y_3710 |
| Units     | Cts/S  | Cts/S  |
| Avg       | 54873. | 3099.3 |
| Stddev    | 227.   | 20.0   |
| %RSD      | .41333 | .64661 |

|    |        |        |
|----|--------|--------|
| #1 | 54697. | 3102.3 |
| #2 | 54792. | 3077.9 |
| #3 | 55129. | 3117.6 |

Sample Name: S3      Acquired: 3/27/2019 12:15:41      Type: Cal  
Method: P4-ICP2(v2989)      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    | .14681 | .35078 | .69209 | .16166 | .35330 | .02544 | 1.3323 | .08389 |
| Stddev | .00017 | .00158 | .00128 | .00040 | .00084 | .00031 | .0067  | .00022 |
| %RSD   | .11886 | .45132 | .18448 | .24771 | .23796 | 1.2287 | .50425 | .25820 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .14690 | .34896 | .69061 | .16203 | .35354 | .02534 | 1.3332 | .08377 |
| #2 | .14661 | .35153 | .69280 | .16171 | .35237 | .02519 | 1.3251 | .08377 |
| #3 | .14692 | .35185 | .69284 | .16123 | .35400 | .02579 | 1.3385 | .08414 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | 4.4496 | .50976 | .05594 | 1.1703 | .55432 | .13004 | 1.1715 | .00485 |
| Stddev | .0117  | .00161 | .00036 | .0040  | .00094 | .00024 | .0027  | .00002 |
| %RSD   | .26266 | .31508 | .64260 | .33989 | .17013 | .18157 | .22842 | .45068 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | 4.4369 | .51031 | .05622 | 1.1665 | .55338 | .13030 | 1.1723 | .00485 |
| #2 | 4.4599 | .51101 | .05554 | 1.1744 | .55432 | .12984 | 1.1685 | .00483 |
| #3 | 4.4520 | .50794 | .05608 | 1.1701 | .55527 | .12999 | 1.1736 | .00488 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .54411 | .07620 | .17037 | .15254 | 2.3264 | .05232 | 1.7173 | .00286 |
| Stddev | .00079 | .00029 | .00043 | .00057 | .0075  | .00047 | .0024  | .00002 |
| %RSD   | .14550 | .38136 | .24999 | .37333 | .32260 | .90367 | .14029 | .84740 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .54320 | .07594 | .17007 | .15243 | 2.3197 | .05189 | 1.7150 | .00287 |
| #2 | .54467 | .07652 | .17018 | .15203 | 2.3345 | .05224 | 1.7171 | .00283 |
| #3 | .54444 | .07615 | .17085 | .15315 | 2.3250 | .05283 | 1.7198 | .00288 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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    | .07314 | 1.2157 | .33982 | .80563 | 4.8764 | .1523  | 22.148 | 4196.8 |
| Stddev | .00020 | .0087  | .00094 | .00478 | .0306  | .0006  | .105   | 36.7   |
| %RSD   | .26780 | .71368 | .27762 | .59316 | .62692 | .3889  | .47399 | .87416 |

|    |        |        |        |        |        |       |        |        |
|----|--------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .07304 | 1.2254 | .33876 | .81103 | 4.9097 | .1517 | 22.266 | 4194.3 |
| #2 | .07337 | 1.2128 | .34057 | .80195 | 4.8700 | .1528 | 22.067 | 4234.6 |
| #3 | .07302 | 1.2088 | .34014 | .80391 | 4.8495 | .1524 | 22.111 | 4161.4 |

Sample Name: S3      Acquired: 3/27/2019 12:15:41      Type: Cal  
 Method: P4-ICP2(v2989)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -96.179 |
| Stddev | 4.471   |
| %RSD   | 4.6490  |

|    |         |
|----|---------|
| #1 | -91.363 |
| #2 | -96.975 |
| #3 | -100.20 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2878.7 | 53288. | 3022.3 | 42.961 | 3727.8 |
| Stddev    | 1.5    | 289.   | 26.5   | .248   | 8.4    |
| %RSD      | .05090 | .54186 | .87786 | .57734 | .22661 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2879.3 | 52998. | 2993.0 | 42.957 | 3736.7 |
| #2 | 2877.0 | 53576. | 3029.0 | 42.715 | 3719.9 |
| #3 | 2879.7 | 53288. | 3044.8 | 43.211 | 3726.9 |

Sample Name: S4      Acquired: 3/27/2019 12:19:43      Type: Cal  
Method: P4-ICP2(v2989)      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    | .29460 | .70362 | 1.3916 | .32214 | .70834 | .05174 | 2.7176 | .16856 |
| Stddev | .00078 | .00269 | .0051  | .00080 | .00137 | .00074 | .0195  | .00041 |
| %RSD   | .26607 | .38222 | .36760 | .24835 | .19410 | 1.4251 | .71600 | .24272 |
| #1     | .29498 | .70220 | 1.3887 | .32255 | .70986 | .05094 | 2.6997 | .16810 |
| #2     | .29370 | .70194 | 1.3886 | .32265 | .70797 | .05190 | 2.7149 | .16867 |
| #3     | .29513 | .70672 | 1.3975 | .32121 | .70719 | .05239 | 2.7383 | .16890 |
| 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    | 9.1088 | 1.0171 | .11317 | 2.3857 | 1.0720 | .25773 | 2.3400 | .00987 |
| Stddev | .0295  | .0031  | .00062 | .0073  | .0016  | .00087 | .0070  | .00010 |
| %RSD   | .32360 | .30773 | .54823 | .30469 | .15066 | .33623 | .29878 | 1.0369 |
| #1     | 9.0929 | 1.0137 | .11251 | 2.3822 | 1.0731 | .25673 | 2.3329 | .00977 |
| #2     | 9.0907 | 1.0178 | .11325 | 2.3808 | 1.0729 | .25815 | 2.3401 | .00987 |
| #3     | 9.1428 | 1.0199 | .11375 | 2.3941 | 1.0702 | .25831 | 2.3469 | .00997 |
| 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    | 1.1040 | .15161 | .34902 | .30613 | 4.7909 | .11296 | 3.4376 | .00579 |
| Stddev | .0033  | .00022 | .00300 | .00122 | .0138  | .00109 | .0058  | .00008 |
| %RSD   | .30264 | .14254 | .85827 | .39825 | .28739 | .96099 | .16948 | 1.3713 |
| #1     | 1.1023 | .15169 | .34633 | .30504 | 4.7849 | .11187 | 3.4427 | .00570 |
| #2     | 1.1019 | .15177 | .34849 | .30745 | 4.7812 | .11296 | 3.4313 | .00582 |
| #3     | 1.1079 | .15136 | .35225 | .30592 | 4.8067 | .11404 | 3.4389 | .00584 |
| 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    | .15083 | 2.4227 | .69093 | 1.6209 | 9.7758 | .3173  | 44.292 | 4021.2 |
| Stddev | .00081 | .0109  | .00224 | .0055  | .0247  | .0014  | .130   | 55.1   |
| %RSD   | .53674 | .45113 | .32489 | .33678 | .25228 | .4525  | .29446 | 1.3709 |
| #1     | .14992 | 2.4338 | .69050 | 1.6156 | 9.7954 | .3159  | 44.432 | 4069.2 |
| #2     | .15112 | 2.4224 | .68893 | 1.6265 | 9.7481 | .3172  | 44.174 | 4033.4 |
| #3     | .15146 | 2.4119 | .69336 | 1.6207 | 9.7839 | .3188  | 44.269 | 3961.0 |



Sample Name: S4      Acquired: 3/27/2019 12:19:43      Type: Cal  
Method: P4-ICP2(v2989)      Mode: IR      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -103.71 |
| Stddev | 10.77   |
| %RSD   | 10.387  |

|    |         |
|----|---------|
| #1 | -109.62 |
| #2 | -91.277 |
| #3 | -110.24 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2828.4 | 52436. | 3032.1 | 42.558 | 3567.5 |
| Stddev    | 6.9    | 277.   | 16.5   | 1.895  | 12.4   |
| %RSD      | .24313 | .52824 | .54303 | 4.4528 | .34791 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2820.4 | 52643. | 3013.5 | 44.100 | 3565.2 |
| #2 | 2832.4 | 52543. | 3044.9 | 40.442 | 3580.9 |
| #3 | 2832.3 | 52121. | 3038.0 | 43.132 | 3556.4 |

Sample Name: S5      Acquired: 3/27/2019 12:23:42      Type: Cal  
Method: P4-ICP2(v2989)      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    | .59709 | 1.4221 | 2.8375 | .64864 | 1.4307 | .10354 | 5.5076 | .33523 |
| Stddev | .00137 | .0068  | .0091  | .00059 | .0027  | .00065 | .0520  | .00057 |
| %RSD   | .23012 | .47678 | .31883 | .09051 | .19023 | .63157 | .94407 | .16879 |
| #1     | .59714 | 1.4252 | 2.8479 | .64819 | 1.4322 | .10295 | 5.4682 | .33587 |
| #2     | .59845 | 1.4267 | 2.8331 | .64930 | 1.4323 | .10424 | 5.4880 | .33498 |
| #3     | .59570 | 1.4143 | 2.8315 | .64844 | 1.4275 | .10343 | 5.5665 | .33483 |
| 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    | 18.681 | 2.0311 | .22328 | 4.9036 | 2.1046 | .51503 | 4.6091 | .01968 |
| Stddev | .056   | .0107  | .00097 | .0142  | .0007  | .00114 | .0016  | .00020 |
| %RSD   | .30216 | .52894 | .43374 | .28982 | .03379 | .22113 | .03502 | 1.0144 |
| #1     | 18.745 | 2.0339 | .22223 | 4.9186 | 2.1041 | .51625 | 4.6100 | .01951 |
| #2     | 18.657 | 2.0401 | .22345 | 4.9019 | 2.1054 | .51399 | 4.6072 | .01990 |
| #3     | 18.641 | 2.0192 | .22414 | 4.8903 | 2.1044 | .51484 | 4.6101 | .01962 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg    | 2.2623 | .30400 | .72231 | .61345 | 9.8830 | .23604 | 6.8757 | .01166 |
| Stddev | .0076  | .00081 | .00037 | .00113 | .0387  | .00029 | .0130  | .00007 |
| %RSD   | .33442 | .26712 | .05063 | .18418 | .39168 | .12284 | .18946 | .57925 |
| #1     | 2.2707 | .30484 | .72248 | .61412 | 9.9259 | .23595 | 6.8750 | .01167 |
| #2     | 2.2601 | .30392 | .72189 | .61214 | 9.8723 | .23636 | 6.8891 | .01173 |
| #3     | 2.2560 | .30323 | .72257 | .61408 | 9.8508 | .23581 | 6.8631 | .01159 |
| 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    | .31956 | 4.7930 | 1.4195 | 3.2411 | 19.897 | .6696  | 87.671 | 3970.7 |
| Stddev | .00194 | .0411  | .0049  | .0051  | .127   | .0053  | .096   | 5.6    |
| %RSD   | .60688 | .85652 | .34479 | .15755 | .63672 | .7864  | .10948 | .14051 |
| #1     | .32097 | 4.8232 | 1.4242 | 3.2451 | 20.033 | .6716  | 87.741 | 3975.4 |
| #2     | .32036 | 4.7463 | 1.4199 | 3.2429 | 19.783 | .6735  | 87.562 | 3972.2 |
| #3     | .31735 | 4.8096 | 1.4145 | 3.2354 | 19.874 | .6636  | 87.710 | 3964.5 |

Sample Name: S5      Acquired: 3/27/2019 12:23:42      Type: Cal  
 Method: P4-ICP2(v2989)      Mode: IR      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | Cts/S   |
| Avg    | -94.469 |
| Stddev | 10.983  |
| %RSD   | 11.626  |

|    |         |
|----|---------|
| #1 | -107.15 |
| #2 | -88.000 |
| #3 | -88.256 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2762.6 | 51693. | 3013.4 | 39.622 | 3365.3 |
| Stddev    | 1.5    | 52.    | 16.8   | .420   | 11.7   |
| %RSD      | .05437 | .10143 | .55616 | 1.0601 | .34678 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2761.1 | 51749. | 2996.3 | 39.667 | 3351.9 |
| #2 | 2762.5 | 51685. | 3029.8 | 40.017 | 3370.4 |
| #3 | 2764.1 | 51646. | 3014.1 | 39.181 | 3373.6 |

Sample Name: ICV01      Acquired: 3/27/2019 12:43:59      Type: Unk  
Method: P4-ICP2(v2989)      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    | 1.0199 | 1.0482 | 1.0097 | 1.0153 | 1.0094 | 2.5312 | .50099 |
| Stddev | .0021  | .0134  | .0030  | .0077  | .0019  | .0494  | .00330 |
| %RSD   | .20459 | 1.2744 | .29684 | .75866 | .18965 | 1.9525 | .65897 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0176 | 1.0344 | 1.0071 | 1.0065 | 1.0115 | 2.4934 | .49718 |
| #2 | 1.0218 | 1.0491 | 1.0090 | 1.0187 | 1.0089 | 2.5871 | .50286 |
| #3 | 1.0201 | 1.0611 | 1.0129 | 1.0207 | 1.0078 | 2.5131 | .50293 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .49621 | .48994 | 10.407 | .51034 | .50433 | .51018 | 5.1038 |
| Stddev | .00218 | .00122 | .029   | .00097 | .00269 | .00039 | .0140  |
| %RSD   | .43981 | .24947 | .27701 | .18984 | .53400 | .07634 | .27513 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .49370 | .48853 | 10.433 | .50928 | .50143 | .50974 | 5.0911 |
| #2 | .49761 | .49068 | 10.376 | .51056 | .50480 | .51048 | 5.1189 |
| #3 | .49733 | .49061 | 10.412 | .51118 | .50675 | .51032 | 5.1015 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .51690 | 5.9372 | .50917 | .50746 | 9.6925 | .50197 | .98767 |
| Stddev | .00108 | .0397  | .00243 | .00139 | .1374  | .00049 | .00199 |
| %RSD   | .20885 | .66851 | .47654 | .27328 | 1.4175 | .09802 | .20160 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .51566 | 5.9651 | .50660 | .50589 | 9.5352 | .50159 | .98564 |
| #2 | .51741 | 5.9547 | .50950 | .50853 | 9.7891 | .50252 | .98776 |
| #3 | .51764 | 5.8917 | .51142 | .50796 | 9.7531 | .50178 | .98962 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 9.9416 | 2.5693 | 2.4757 | F .01247 | 2.4309 | 2.4662 | 2.5736 |
| Stddev | .1946  | .0020  | .0073  | .00238   | .0341  | .0203  | .0029  |
| %RSD   | 1.9570 | .07831 | .29289 | 19.059   | 1.4015 | .82401 | .11187 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 9.7620 | 2.5671 | 2.4840 | .01003 | 2.4475 | 2.4436 | 2.5724 |
| #2 | 10.148 | 2.5697 | 2.4708 | .01259 | 2.3917 | 2.4722 | 2.5715 |
| #3 | 9.9145 | 2.5710 | 2.4723 | .01478 | 2.4536 | 2.4829 | 2.5769 |

Sample Name: ICV01      Acquired: 3/27/2019 12:43:59      Type: Unk  
Method: P4-ICP2(v2989)      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 .00140 | F -.0001 | 2.6030 | F 1.7879 | F<.00000 |
| Stddev    | .00187   | .0024    | .0166  | .1007    | 30.955   |
| %RSD      | 132.94   | 3195.    | .63866 | 5.6297   | 47.469   |
| #1        | .00234   | .0004    | 2.6017 | 1.7286   | -39.794  |
| #2        | -.00075  | .0021    | 2.5871 | 1.7310   | -99.683  |
| #3        | .00262   | -.0027   | 2.6203 | 1.9042   | -56.153  |
| Int. Std. | Y_2243   | Y_3600   | Y_3710 | In2306   | In2306   |
| Units     | Cts/S    | Cts/S    | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2877.4   | 53665.   | 3020.6 | 44.802   | 3789.7   |
| Stddev    | 12.8     | 110.     | 45.7   | 1.345    | 4.3      |
| %RSD      | .44332   | .20490   | 1.5144 | 3.0012   | .11260   |
| #1        | 2863.0   | 53790.   | 2989.9 | 45.260   | 3784.8   |
| #2        | 2881.7   | 53626.   | 3073.2 | 45.857   | 3792.2   |
| #3        | 2887.4   | 53581.   | 2998.7 | 43.288   | 3792.3   |

Sample Name: LLICV01      Acquired: 3/27/2019 12:56:06      Type: Unk  
Method: P4-ICP2(v2989)      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    | .02323 | .04353 | .01279 | .02126 | .05495 | .09675 | .10700 |
| Stddev | .00243 | .00058 | .00087 | .00143 | .00115 | .01383 | .00157 |
| %RSD   | 10.459 | 1.3437 | 6.7889 | 6.7039 | 2.0919 | 14.295 | 1.4634 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02431 | .04287 | .01377 | .02016 | .05625 | .09948 | .10872 |
| #2 | .02045 | .04376 | .01214 | .02287 | .05454 | .08176 | .10663 |
| #3 | .02493 | .04397 | .01245 | .02074 | .05406 | .10901 | .10565 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00663 | .00619 | 2.1649 | .01067 | .03044 | .02037 | .10408 |
| Stddev | .00009 | .00006 | .0211  | .00035 | .00032 | .00028 | .00038 |
| %RSD   | 1.4170 | .91950 | .97345 | 3.2659 | 1.0670 | 1.3658 | .36713 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00670 | .00617 | 2.1460 | .01051 | .03069 | .02061 | .10407 |
| #2 | .00666 | .00626 | 2.1611 | .01043 | .03007 | .02007 | .10446 |
| #3 | .00652 | .00615 | 2.1876 | .01107 | .03055 | .02043 | .10370 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02299 | 2.0786 | .04246 | .01193 | 2.0253 | .04267 | .04042 |
| Stddev | .00024 | .1542  | .00034 | .00081 | .0205  | .00023 | .00020 |
| %RSD   | 1.0419 | 7.4157 | .79595 | 6.8300 | 1.0131 | .53892 | .49230 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02320 | 2.0569 | .04269 | .01132 | 2.0467 | .04254 | .04056 |
| #2 | .02305 | 1.9365 | .04261 | .01161 | 2.0235 | .04293 | .04050 |
| #3 | .02273 | 2.2425 | .04207 | .01285 | 2.0058 | .04253 | .04019 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.1343 | .21369 | .11806 | .01904 | .40571 | .04222 | .04254 |
| Stddev | .0276  | .00133 | .01941 | .00140 | .00074 | .00114 | .00235 |
| %RSD   | 1.2938 | .62294 | 16.440 | 7.3793 | .18225 | 2.6951 | 5.5224 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.1623 | .21488 | .14038 | .02055 | .40649 | .04352 | .04066 |
| #2 | 2.1337 | .21395 | .10517 | .01778 | .40502 | .04173 | .04517 |
| #3 | 2.1071 | .21225 | .10862 | .01878 | .40563 | .04141 | .04179 |

Sample Name: LLICV01      Acquired: 3/27/2019 12:56:06      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .02195 | .0177  | .02142 | F 1.0626 | F<.00000 |
| Stddev    | .00258 | .0030  | .00030 | .3986    | 37.264   |
| %RSD      | 11.738 | 17.14  | 1.3969 | 37.515   | 1811.6   |
| #1        | .02192 | .0205  | .02134 | .68344   | -45.085  |
| #2        | .02453 | .0181  | .02175 | 1.0262   | 19.394   |
| #3        | .01938 | .0144  | .02117 | 1.4782   | 19.521   |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2908.5 | 54088. | 3042.4 | 44.097   | 3920.6   |
| Stddev    | 7.3    | 88.    | 18.6   | .540     | 10.7     |
| %RSD      | .25267 | .16286 | .61208 | 1.2236   | .27177   |
| #1        | 2900.7 | 54189. | 3059.0 | 44.583   | 3908.3   |
| #2        | 2915.3 | 54027. | 3022.3 | 44.192   | 3926.9   |
| #3        | 2909.6 | 54048. | 3046.0 | 43.517   | 3926.6   |

Sample Name: ICB01      Acquired: 3/27/2019 13:00:32      Type: Unk  
Method: P4-ICP2(v2989)      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  | Be2348  |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | -.00054 | .00013 | -.00045 | -.00208 | .00193 | -.02134 | -.00068 | -.00009 |
| Stddev | .00113  | .00060 | .00016  | .00177  | .00233 | .00134  | .00105  | .00003  |
| %RSD   | 208.18  | 447.85 | 35.032  | 84.967  | 120.92 | 6.2624  | 155.26  | 32.490  |

|    |         |         |         |         |        |         |         |         |
|----|---------|---------|---------|---------|--------|---------|---------|---------|
| #1 | .00005  | -.00046 | -.00051 | -.00341 | .00459 | -.01980 | .00053  | -.00006 |
| #2 | -.00184 | .00012  | -.00027 | -.00275 | .00098 | -.02222 | -.00116 | -.00012 |
| #3 | .00017  | .00074  | -.00058 | -.00008 | .00022 | -.02200 | -.00140 | -.00009 |

|        |        |         |         |         |         |         |         |         |
|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00006 | -.00218 | -.00026 | -.00035 | -.00187 | -.00529 | -.00024 | -.05896 |
| Stddev | .00003 | .02677  | .00008  | .00009  | .00025  | .00065  | .00002  | .09837  |
| %RSD   | 44.397 | 1227.1  | 30.742  | 26.958  | 13.150  | 12.336  | 7.6745  | 166.85  |

|    |        |         |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00009 | .02194  | -.00035 | -.00035 | -.00204 | -.00482 | -.00025 | -.15513 |
| #2 | .00004 | -.03098 | -.00022 | -.00044 | -.00199 | -.00502 | -.00022 | .04148  |
| #3 | .00006 | .00249  | -.00021 | -.00025 | -.00159 | -.00604 | -.00025 | -.06323 |

|        |        |        |         |         |         |        |         |         |
|--------|--------|--------|---------|---------|---------|--------|---------|---------|
| Elem   | Ni2316 | Ag3280 | Na5895  | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     | ppm     |
| Avg    | .00070 | .00072 | -.05194 | -.00004 | -.00010 | .02297 | -.00016 | -.01254 |
| Stddev | .00026 | .00026 | .00564  | .00037  | .00001  | .05606 | .00009  | .01820  |
| %RSD   | 36.595 | 36.706 | 10.856  | 934.28  | 14.259  | 244.09 | 58.996  | 145.13  |

|    |        |        |         |         |         |         |         |         |
|----|--------|--------|---------|---------|---------|---------|---------|---------|
| #1 | .00070 | .00042 | -.05291 | -.00047 | -.00011 | -.03800 | -.00012 | -.03221 |
| #2 | .00096 | .00080 | -.04588 | .00019  | -.00011 | .07228  | -.00027 | -.00908 |
| #3 | .00044 | .00093 | -.05704 | .00015  | -.00009 | .03462  | -.00010 | .00368  |

|        |        |        |        |         |         |        |         |          |
|--------|--------|--------|--------|---------|---------|--------|---------|----------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077  | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm      |
| Avg    | .00350 | .00222 | .00120 | -.00100 | -.00036 | -.0007 | -.00012 | F 1.1590 |
| Stddev | .00077 | .00238 | .00038 | .00207  | .00113  | .0014  | .00010  | .3197    |
| %RSD   | 21.956 | 107.28 | 32.000 | 206.47  | 317.50  | 211.6  | 84.764  | 27.587   |

|    |        |         |        |         |         |        |         |        |
|----|--------|---------|--------|---------|---------|--------|---------|--------|
| #1 | .00438 | -.00015 | .00076 | -.00304 | -.00098 | -.0009 | -.00005 | 1.3964 |
| #2 | .00295 | .00219  | .00147 | .00110  | .00095  | .0008  | -.00007 | 1.2852 |
| #3 | .00318 | .00460  | .00137 | -.00108 | -.00104 | -.0019 | -.00023 | .79544 |



Sample Name: ICB01      Acquired: 3/27/2019 13:00:32      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICB01      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 10.381  
Stddev      48.658  
%RSD      468.71

#1      49.182  
#2      -44.211  
#3      26.172

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2917.4 | 54397. | 3039.8 | 43.533 | 3957.7 |
| Stddev    | .7     | 163.   | 20.3   | .945   | 1.4    |
| %RSD      | .02233 | .29962 | .66839 | 2.1709 | .03527 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2918.0 | 54213. | 3038.8 | 44.233 | 3957.5 |
| #2 | 2916.7 | 54456. | 3020.0 | 43.908 | 3959.2 |
| #3 | 2917.4 | 54523. | 3060.6 | 42.458 | 3956.4 |

Sample Name: CRI01      Acquired: 3/27/2019 13:05:00      Type: Unk  
Method: P4-ICP2(v2989)      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 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02153 | .04295 | .01310 | .02233 | .05397 | .10254 | .10572 | .00655   |
| Stddev | .00182 | .00092 | .00053 | .00109 | .00142 | .00995 | .00059 | .00008   |
| %RSD   | 8.4677 | 2.1481 | 4.0831 | 4.8858 | 2.6223 | 9.7043 | .55942 | 1.1650   |
| #1     | .02090 | .04254 | .01289 | .02109 | .05559 | .09873 | .10528 | .00649   |
| #2     | .02358 | .04230 | .01371 | .02275 | .05301 | .11383 | .10639 | .00664   |
| #3     | .02011 | .04400 | .01270 | .02314 | .05329 | .09506 | .10548 | .00653   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00612 | 2.1394 | .01014 | .02974 | .02068 | .10200 | .02259 | 2.0205   |
| Stddev | .00006 | .0261  | .00055 | .00019 | .00006 | .00145 | .00013 | .0296    |
| %RSD   | .91323 | 1.2184 | 5.4552 | .64557 | .27591 | 1.4251 | .55342 | 1.4644   |
| #1     | .00605 | 2.1356 | .00960 | .02952 | .02061 | .10084 | .02261 | 2.0451   |
| #2     | .00615 | 2.1672 | .01071 | .02983 | .02071 | .10363 | .02270 | 2.0288   |
| #3     | .00615 | 2.1155 | .01010 | .02988 | .02071 | .10153 | .02246 | 1.9877   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .04152 | .01175 | 1.9765 | .04229 | .03963 | 2.0290 | .21057 | .11263   |
| Stddev | .00025 | .00057 | .0190  | .00050 | .00012 | .0153  | .00026 | .01716   |
| %RSD   | .59043 | 4.8550 | .96103 | 1.1863 | .31456 | .75520 | .12320 | 15.241   |
| #1     | .04180 | .01160 | 1.9767 | .04208 | .03952 | 2.0145 | .21051 | .09289   |
| #2     | .04134 | .01239 | 1.9574 | .04287 | .03977 | 2.0274 | .21035 | .12411   |
| #3     | .04141 | .01128 | 1.9954 | .04194 | .03962 | 2.0450 | .21085 | .12088   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01915 | .40020 | .03935 | .04248 | .02104 | .0174  | .02128 | F .82510 |
| Stddev | .00276 | .00945 | .00085 | .00245 | .00201 | .0006  | .00030 | .50647   |
| %RSD   | 14.437 | 2.3620 | 2.1723 | 5.7636 | 9.5327 | 3.639  | 1.4275 | 61.383   |
| #1     | .01606 | .40332 | .04029 | .04379 | .02029 | .0170  | .02125 | .96500   |
| #2     | .01997 | .40771 | .03913 | .04399 | .02331 | .0170  | .02160 | .26339   |
| #3     | .02140 | .38959 | .03863 | .03965 | .01952 | .0181  | .02100 | 1.2469   |

Sample Name: CRI01      Acquired: 3/27/2019 13:05:00      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CRI01      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 6.6198  
Stddev      46.780  
%RSD      706.67

#1      -21.983  
#2      60.605  
#3      -18.762

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2942.8 | 54722. | 3055.3 | 44.558 | 3968.2 |
| Stddev    | 5.5    | 177.   | 29.3   | 1.337  | 6.3    |
| %RSD      | .18663 | .32263 | .95759 | 3.0013 | .15767 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2943.9 | 54591. | 3039.3 | 43.467 | 3965.9 |
| #2 | 2947.6 | 54923. | 3037.6 | 44.158 | 3975.3 |
| #3 | 2936.8 | 54652. | 3089.1 | 46.050 | 3963.4 |

Sample Name: ICSA01      Acquired: 3/27/2019 13:09:27      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .01519  | .00926  | .00141  | .00491  | -.00352 | 285.81  | .00286  | -.00053 |
| Stddev | .00169  | .00182  | .00036  | .00370  | .00158  | 1.87    | .00099  | .00013  |
| %RSD   | 11.143  | 19.694  | 25.538  | 75.458  | 45.000  | .65556  | 34.492  | 25.381  |
| #1     | .01421  | .01001  | .00101  | .00135  | -.00514 | 287.76  | .00382  | -.00067 |
| #2     | .01421  | .00718  | .00152  | .00875  | -.00198 | 285.65  | .00291  | -.00042 |
| #3     | .01714  | .01058  | .00170  | .00463  | -.00343 | 284.02  | .00185  | -.00048 |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00013  | 260.61  | .04946  | -.00071 | .00568  | 99.711  | .01525  | 283.93  |
| Stddev | .00018  | 1.30    | .00083  | .00020  | .00087  | .403    | .00010  | 2.41    |
| %RSD   | 143.59  | .49914  | 1.6759  | 27.712  | 15.339  | .40448  | .63896  | .84812  |
| #1     | .00004  | 259.12  | .04999  | -.00050 | .00550  | 100.17  | .01520  | 286.49  |
| #2     | .00034  | 261.23  | .04851  | -.00089 | .00491  | 99.441  | .01536  | 283.60  |
| #3     | .00000  | 261.50  | .04989  | -.00075 | .00662  | 99.517  | .01519  | 281.70  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.02881 | -.00981 | -.01268 | .00068  | -.01443 | -.07311 | -.00179 | .02606  |
| Stddev | .00029  | .00029  | .02172  | .00073  | .00034  | .01910  | .00074  | .01276  |
| %RSD   | 1.0116  | 3.0035  | 171.24  | 108.00  | 2.3466  | 26.127  | 41.194  | 48.947  |
| #1     | -.02910 | -.00998 | -.01444 | .00075  | -.01480 | -.08987 | -.00094 | .03048  |
| #2     | -.02852 | -.00998 | .00986  | .00138  | -.01433 | -.05231 | -.00221 | .01168  |
| #3     | -.02881 | -.00947 | -.03347 | -.00009 | -.01415 | -.07715 | -.00223 | .03602  |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .01331  | .08690  | .00793  | -.00199 | .01961  | .0175   | -.00457 | 3.7347  |
| Stddev | .00633  | .00136  | .00080  | .00295  | .00118  | .0044   | .00032  | .2727   |
| %RSD   | 47.577  | 1.5614  | 10.070  | 148.38  | 6.0364  | 24.86   | 6.9070  | 7.3018  |
| #1     | .02060  | .08737  | .00703  | -.00035 | .02077  | .0136   | -.00421 | 4.0481  |
| #2     | .00909  | .08537  | .00821  | -.00540 | .01840  | .0222   | -.00470 | 3.5515  |
| #3     | .01026  | .08796  | .00855  | -.00023 | .01966  | .0168   | -.00479 | 3.6046  |

Sample Name: ICSA01      Acquired: 3/27/2019 13:09:27      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA01      Custom ID2:      Custom ID3:  
 Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | 35.446  |
| %RSD   | 1.1039  |

|    |         |
|----|---------|
| #1 | -3227.5 |
| #2 | -3235.2 |
| #3 | -3170.3 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2623.8 | 49136. | 2933.9 | 38.874 | 3176.3 |
| Stddev    | 4.0    | 293.   | 19.0   | .408   | 2.6    |
| %RSD      | .15178 | .59559 | .64811 | 1.0484 | .08210 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2623.5 | 48807. | 2952.9 | 39.284 | 3179.1 |
| #2 | 2619.9 | 49237. | 2933.9 | 38.868 | 3173.9 |
| #3 | 2627.9 | 49366. | 2914.8 | 38.469 | 3175.9 |

Sample Name: ICSAB01      Acquired: 3/27/2019 13:14:05      Type: Unk  
Method: P4-ICP2(v2989)      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    | .12187   | .11754 | .05639  | .05358 | .63317   | 280.75  | .55526 | .55336 |
| Stddev | .00228   | .00082 | .00084  | .00780 | .00610   | 1.20    | .00320 | .00189 |
| %RSD   | 1.8684   | .69837 | 1.4816  | 14.565 | .96382   | .42656  | .57574 | .34160 |
| #1     | .12052   | .11803 | .05565  | .05342 | .63754   | 281.86  | .55869 | .55132 |
| #2     | .12059   | .11799 | .05730  | .04586 | .62619   | 279.48  | .55237 | .55370 |
| #3     | .12450   | .11659 | .05622  | .06147 | .63577   | 280.91  | .55472 | .55505 |
| Elem   | Cd2265   | Ca3736 | Cr2677  | Co2286 | Cu2247   | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm    | ppm    |
| Avg    | 1.0353   | 254.05 | .57295  | .51945 | .51863   | 98.501  | .53939 | 280.49 |
| Stddev | .0025    | .67    | .00250  | .00273 | .00230   | .879    | .00177 | .72    |
| %RSD   | .24335   | .26484 | .43596  | .52597 | .44392   | .89234  | .32826 | .25663 |
| #1     | 1.0327   | 253.97 | .57007  | .51769 | .51609   | 99.513  | .53738 | 281.12 |
| #2     | 1.0355   | 254.76 | .57444  | .51807 | .51919   | 97.923  | .54072 | 279.70 |
| #3     | 1.0377   | 253.42 | .57434  | .52260 | .52059   | 98.069  | .54009 | 280.64 |
| Elem   | Ni2316   | Ag3280 | Na5895  | V_2924 | Zn2138   | K_7664  | Mo2020 | B_2496 |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm    | ppm    |
| Avg    | 1.0081   | .17430 | -.01208 | .52923 | 1.1021   | -.06995 | .87496 | .89615 |
| Stddev | .0007    | .00047 | .01291  | .00351 | .0027    | .04973  | .01679 | .02546 |
| %RSD   | .06581   | .27129 | 106.93  | .66301 | .24619   | 71.085  | 1.9185 | 2.8416 |
| #1     | 1.0074   | .17475 | -.01865 | .52539 | 1.1003   | -.08541 | .85594 | .92394 |
| #2     | 1.0081   | .17435 | .00280  | .53226 | 1.1008   | -.11011 | .88770 | .89060 |
| #3     | 1.0088   | .17381 | -.02039 | .53003 | 1.1052   | -.01433 | .88123 | .87392 |
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361 | Li6707   | P_1774  | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm     | ppm    | ppm      | ppm     | ppm    | ppm    |
| Avg    | F .01378 | .86267 | .89452  | .83776 | F .01622 | F .0183 | 1.1012 | 3.7829 |
| Stddev | .00437   | .00568 | .01776  | .00730 | .00054   | .0037   | .0027  | .1645  |
| %RSD   | 31.708   | .65882 | 1.9849  | .87077 | 3.3230   | 20.14   | .24087 | 4.3493 |
| #1     | .01260   | .85696 | .87407  | .83421 | .01565   | .0159   | 1.1007 | 3.9575 |
| #2     | .01012   | .86833 | .90606  | .84615 | .01672   | .0164   | 1.1041 | 3.6307 |
| #3     | .01862   | .86271 | .90343  | .83293 | .01630   | .0225   | 1.0989 | 3.7605 |

Sample Name: ICSAB01      Acquired: 3/27/2019 13:14:05      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB01      Custom ID2:      Custom ID3:  
Comment:

|        |         |
|--------|---------|
| Elem   | U_3859  |
| Units  | ppm     |
| Avg    | <.00000 |
| Stddev | 14.042  |
| %RSD   | .45256  |

|    |         |
|----|---------|
| #1 | -3116.7 |
| #2 | -3103.1 |
| #3 | -3088.6 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2640.1 | 49388. | 2979.9 | 40.185 | 3181.0 |
| Stddev    | 4.9    | 255.   | 13.6   | .782   | 1.3    |
| %RSD      | .18686 | .51719 | .45581 | 1.9468 | .04178 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2635.0 | 49096. | 2981.7 | 40.942 | 3179.7 |
| #2 | 2640.5 | 49569. | 2965.6 | 39.380 | 3180.8 |
| #3 | 2644.9 | 49498. | 2992.6 | 40.233 | 3182.4 |

Sample Name: CCV01      Acquired: 3/27/2019 13:18:31      Type: Unk  
Method: P4-ICP2(v2989)      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 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 4.9847 | 5.0073 | 4.9730 | 4.9390 | 5.0005 | 9.9542 | 10.034 |
| Stddev | .0075  | .0058  | .0058  | .0174  | .0102  | .0183  | .019   |
| %RSD   | .15034 | .11515 | .11750 | .35254 | .20337 | .18391 | .19199 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 4.9886 | 5.0059 | 4.9663 | 4.9558 | 5.0057 | 9.9727 | 10.015 |
| #2 | 4.9894 | 5.0023 | 4.9771 | 4.9400 | 5.0071 | 9.9361 | 10.053 |
| #3 | 4.9760 | 5.0136 | 4.9757 | 4.9210 | 4.9888 | 9.9536 | 10.033 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .24968 | 2.4815 | 24.945 | 1.0023 | 2.4813 | 1.2698 | 4.9050 |
| Stddev | .00037 | .0016  | .024   | .0022  | .0010  | .0034  | .0103  |
| %RSD   | .14768 | .06611 | .09616 | .21510 | .03899 | .26413 | .20979 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .24939 | 2.4805 | 24.917 | 1.0012 | 2.4818 | 1.2737 | 4.8932 |
| #2 | .25009 | 2.4834 | 24.958 | 1.0048 | 2.4802 | 1.2681 | 4.9092 |
| #3 | .24955 | 2.4805 | 24.959 | 1.0009 | 2.4819 | 1.2677 | 4.9125 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.4998 | 24.753 | 2.4955 | 1.2481 | 24.418 | 2.4872 | 2.4860 |
| Stddev | .0036  | .253   | .0025  | .0029  | .032   | .0040  | .0004  |
| %RSD   | .14183 | 1.0231 | .10182 | .23251 | .13281 | .15948 | .01694 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.4966 | 24.679 | 2.4960 | 1.2510 | 24.382 | 2.4839 | 2.4864 |
| #2 | 2.5036 | 25.035 | 2.4977 | 1.2452 | 24.446 | 2.4916 | 2.4859 |
| #3 | 2.4992 | 24.545 | 2.4927 | 1.2482 | 24.425 | 2.4860 | 2.4856 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 24.790 | 5.0239 | 5.0172 | 4.9378 | 5.0017 | 4.9432 | 5.0556 |
| Stddev | .162   | .0128  | .0379  | .0198  | .0133  | .0092  | .0106  |
| %RSD   | .65231 | .25404 | .75434 | .40065 | .26588 | .18530 | .20939 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 24.624 | 5.0386 | 5.0608 | 4.9601 | 4.9937 | 4.9535 | 5.0676 |
| #2 | 24.799 | 5.0163 | 4.9959 | 4.9223 | 4.9945 | 4.9399 | 5.0476 |
| #3 | 24.947 | 5.0167 | 4.9947 | 4.9310 | 5.0171 | 4.9361 | 5.0516 |



Sample Name: CCV01      Acquired: 3/27/2019 13:18:31      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV01      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |          |          |
|--------|--------|--------|--------|----------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg    | 4.9795 | 4.981  | 5.1011 | F 3.0298 | F<.00000 |
| Stddev | .0152  | .015   | .0071  | .2205    | 16.125   |
| %RSD   | .30420 | .2949  | .13955 | 7.2778   | 85.583   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | 4.9640 | 4.997 | 5.0948 | 2.7831 | -37.456 |
| #2 | 4.9803 | 4.969 | 5.0998 | 3.2077 | -9.1487 |
| #3 | 4.9943 | 4.978 | 5.1088 | 3.0986 | -9.9202 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2799.3 | 52572. | 3020.5 | 42.588 | 3518.8 |
| Stddev    | 1.9    | 159.   | 5.0    | 1.704  | 1.5    |
| %RSD      | .06863 | .30211 | .16513 | 4.0017 | .04310 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2797.1 | 52736. | 3026.0 | 44.520 | 3520.2 |
| #2 | 2800.5 | 52419. | 3019.5 | 41.301 | 3519.0 |
| #3 | 2800.4 | 52562. | 3016.2 | 41.942 | 3517.2 |

Sample Name: LLCCV01      Acquired: 3/27/2019 13:26:35      Type: Unk  
Method: P4-ICP2(v2989)      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 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01989 | .04338 | .01272 | .02310 | .05266 | .09994 | .10839 | .00659   |
| Stddev | .00524 | .00108 | .00087 | .00106 | .00225 | .00630 | .00120 | .00010   |
| %RSD   | 26.317 | 2.4897 | 6.8610 | 4.5711 | 4.2759 | 6.3059 | 1.1072 | 1.5460   |
| #1     | .01392 | .04460 | .01336 | .02415 | .05508 | .10701 | .10976 | .00664   |
| #2     | .02369 | .04299 | .01308 | .02204 | .05226 | .09791 | .10750 | .00667   |
| #3     | .02207 | .04255 | .01173 | .02310 | .05063 | .09491 | .10793 | .00648   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00624 | 2.1652 | .01047 | .03034 | .02241 | .10535 | .02288 | 2.1073   |
| Stddev | .00003 | .0186  | .00041 | .00039 | .00019 | .00040 | .00018 | .0878    |
| %RSD   | .43891 | .85882 | 3.9470 | 1.2826 | .84909 | .38192 | .77052 | 4.1646   |
| #1     | .00625 | 2.1818 | .01020 | .03042 | .02259 | .10554 | .02268 | 2.0354   |
| #2     | .00621 | 2.1451 | .01027 | .02992 | .02221 | .10488 | .02303 | 2.0814   |
| #3     | .00627 | 2.1686 | .01095 | .03069 | .02244 | .10561 | .02293 | 2.2051   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .04252 | .01161 | 2.0094 | .04269 | .04063 | 2.0786 | .21534 | .11192   |
| Stddev | .00024 | .00053 | .0235  | .00055 | .00022 | .0299  | .00048 | .01905   |
| %RSD   | .56756 | 4.5606 | 1.1681 | 1.2913 | .53861 | 1.4364 | .22362 | 17.022   |
| #1     | .04230 | .01187 | 1.9844 | .04207 | .04041 | 2.0449 | .21512 | .09007   |
| #2     | .04247 | .01195 | 2.0129 | .04312 | .04064 | 2.0887 | .21589 | .12503   |
| #3     | .04278 | .01100 | 2.0309 | .04288 | .04084 | 2.1020 | .21500 | .12065   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01897 | .40531 | .04250 | .04013 | .02098 | .0182  | .02181 | F 1.6943 |
| Stddev | .00159 | .00403 | .00061 | .00057 | .00109 | .0007  | .00013 | .4832    |
| %RSD   | 8.3825 | .99346 | 1.4434 | 1.4205 | 5.1981 | 3.843  | .59136 | 28.519   |
| #1     | .01915 | .40288 | .04297 | .04058 | .01990 | .0183  | .02182 | 2.1572   |
| #2     | .02046 | .40995 | .04181 | .04033 | .02097 | .0175  | .02168 | 1.1931   |
| #3     | .01730 | .40308 | .04273 | .03949 | .02208 | .0189  | .02194 | 1.7327   |

Sample Name: LLCCV01      Acquired: 3/27/2019 13:26:35      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: LLCCV01      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 12.406  
 Stddev      45.976  
 %RSD      370.60

#1      19.304  
 #2      -36.630  
 #3      54.542

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2886.7 | 53497. | 3008.2 | 43.864 | 3887.1 |
| Stddev    | 9.3    | 225.   | 12.0   | .190   | 7.2    |
| %RSD      | .32206 | .42134 | .40033 | .43336 | .18507 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2883.6 | 53257. | 3001.8 | 44.033 | 3893.4 |
| #2 | 2879.4 | 53704. | 3000.6 | 43.658 | 3879.3 |
| #3 | 2897.1 | 53532. | 3022.0 | 43.900 | 3888.7 |

Sample Name: CCB01      Acquired: 3/27/2019 13:31:07      Type: Unk  
Method: P4-ICP2(v2989)      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  | Be2348   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00006  | -.00003 | -.00048 | .00103  | .00038  | -.01113 | .00016  | -.00004  |
| Stddev | .00040  | .00073  | .00118  | .00446  | .00112  | .01327  | .00090  | .00005   |
| %RSD   | 633.96  | 2315.1  | 245.99  | 434.72  | 291.23  | 119.20  | 572.02  | 136.01   |
| #1     | -.00040 | -.00060 | -.00151 | .00260  | -.00083 | -.00101 | -.00088 | -.00009  |
| #2     | .00032  | -.00028 | .00080  | .00449  | .00138  | -.02615 | .00075  | .00001   |
| #3     | .00026  | .00079  | -.00072 | -.00401 | .00060  | -.00623 | .00060  | -.00003  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00006  | -.01216 | .00006  | -.00016 | -.00032 | -.00393 | -.00019 | -.02820  |
| Stddev | .00006  | .02007  | .00012  | .00008  | .00040  | .00034  | .00004  | .14002   |
| %RSD   | 102.49  | 165.13  | 190.22  | 51.515  | 126.39  | 8.5220  | 18.641  | 496.58   |
| #1     | .00011  | -.01425 | -.00005 | -.00020 | -.00016 | -.00406 | -.00022 | .02057   |
| #2     | .00006  | .00888  | .00004  | -.00006 | -.00002 | -.00419 | -.00015 | .08092   |
| #3     | -.00000 | -.03110 | .00019  | -.00020 | -.00077 | -.00355 | -.00021 | -.18608  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00043  | -.00008 | -.06270 | -.00034 | -.00010 | .01439  | -.00006 | .01060   |
| Stddev | .00037  | .00042  | .01771  | .00056  | .00003  | .02708  | .00015  | .01691   |
| %RSD   | 87.133  | 541.83  | 28.250  | 164.80  | 26.188  | 188.23  | 255.11  | 159.46   |
| #1     | .00003  | -.00039 | -.07961 | -.00055 | -.00007 | -.00164 | -.00011 | -.00286  |
| #2     | .00050  | -.00025 | -.04428 | -.00077 | -.00011 | -.00086 | -.00018 | .02958   |
| #3     | .00076  | .00041  | -.06421 | .00030  | -.00011 | .04566  | .00011  | .00510   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00168  | .00275  | .00183  | .00069  | -.00119 | .0006   | .00009  | F 1.9178 |
| Stddev | .00329  | .00120  | .00092  | .00250  | .00107  | .0002   | .00016  | .0128    |
| %RSD   | 195.33  | 43.769  | 50.070  | 363.86  | 90.261  | 28.69   | 175.22  | .66809   |
| #1     | -.00137 | .00284  | .00287  | -.00070 | -.00185 | .0005   | .00025  | 1.9133   |
| #2     | .00126  | .00150  | .00116  | -.00081 | .00005  | .0007   | -.00007 | 1.9322   |
| #3     | .00516  | .00390  | .00145  | .00357  | -.00177 | .0004   | .00010  | 1.9078   |

Sample Name: CCB01      Acquired: 3/27/2019 13:31:07      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCB01      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 39.954 |
| Stddev | 21.490   |
| %RSD   | 53.787   |

|    |        |
|----|--------|
| #1 | 56.321 |
| #2 | 47.922 |
| #3 | 15.618 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2898.3 | 53539. | 3026.1 | 44.014 | 3938.1 |
| Stddev    | 10.4   | 118.   | 15.6   | 1.398  | 9.8    |
| %RSD      | .35878 | .22047 | .51493 | 3.1762 | .24958 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2888.3 | 53423. | 3012.0 | 44.850 | 3929.6 |
| #2 | 2897.7 | 53659. | 3023.3 | 42.400 | 3935.9 |
| #3 | 2909.1 | 53536. | 3042.8 | 44.792 | 3948.9 |

Sample Name: K1831-01      Acquired: 3/27/2019 13:40:11      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .53565  | .45837  | 1.4792  | .32632  | .18287  | 1.5327  | .76041 | .49005  |
| Stddev | .00111  | .00411  | .0045   | .00476  | .00270  | .0198   | .00869 | .00104  |
| %RSD   | .20806  | .89699  | .30068  | 1.4581  | 1.4750  | 1.2930  | 1.1424 | .21287  |
| #1     | .53499  | .45648  | 1.4772  | .32094  | .18594  | 1.5556  | .75058 | .48912  |
| #2     | .53502  | .45555  | 1.4843  | .32999  | .18178  | 1.5209  | .76359 | .48984  |
| #3     | .53693  | .46309  | 1.4761  | .32803  | .18089  | 1.5216  | .76705 | .49118  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .26950  | -.00340 | .57649  | .27595  | 1.0087  | 1.8144  | 1.1695 | -.06830 |
| Stddev | .00019  | .01508  | .00223  | .00020  | .0012   | .0024   | .0019  | .07987  |
| %RSD   | .06894  | 443.82  | .38716  | .07349  | .12222  | .13310  | .16142 | 116.93  |
| #1     | .26966  | -.01467 | .57413  | .27575  | 1.0080  | 1.8143  | 1.1674 | .02377  |
| #2     | .26954  | .01373  | .57679  | .27615  | 1.0079  | 1.8120  | 1.1700 | -.11890 |
| #3     | .26930  | -.00926 | .57857  | .27596  | 1.0101  | 1.8169  | 1.1711 | -.10978 |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .27725  | .49391  | -.01306 | 1.3648  | .90818  | .03071  | .25371 | .95658  |
| Stddev | .00142  | .00080  | .01384  | .0018   | .00145  | .03003  | .00121 | .00930  |
| %RSD   | .51387  | .16114  | 105.99  | .13162  | .15970  | 97.812  | .47836 | .97209  |
| #1     | .27607  | .49438  | -.00508 | 1.3629  | .90873  | .04033  | .25245 | .96234  |
| #2     | .27884  | .49437  | -.02904 | 1.3649  | .90929  | .05474  | .25380 | .96154  |
| #3     | .27686  | .49299  | -.00505 | 1.3665  | .90654  | -.00296 | .25487 | .94585  |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | -.00006 | .14561  | .00133  | .00083  | -.00241 | .0016   | .50147 | 2.5287  |
| Stddev | .00521  | .00378  | .00014  | .00218  | .00194  | .0007   | .00563 | .2307   |
| %RSD   | 9016.9  | 2.5994  | 10.872  | 264.17  | 80.350  | 43.15   | 1.1227 | 9.1234  |
| #1     | .00541  | .14228  | .00138  | .00252  | -.00395 | .0008   | .49621 | 2.3340  |
| #2     | -.00496 | .14481  | .00145  | -.00164 | -.00305 | .0019   | .50079 | 2.4685  |
| #3     | -.00062 | .14973  | .00117  | .00160  | -.00024 | .0020   | .50741 | 2.7835  |

Sample Name: K1831-01      Acquired: 3/27/2019 13:40:11      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      63.104  
 Stddev      24.408  
 %RSD      38.678

#1      42.155  
 #2      89.906  
 #3      57.252

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2891.7 | 53602. | 3001.6 | 44.925 | 3896.3 |
| Stddev    | 2.2    | 198.   | 9.5    | 1.353  | 9.3    |
| %RSD      | .07463 | .37020 | .31602 | 3.0121 | .23807 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2889.5 | 53831. | 3006.6 | 46.486 | 3891.0 |
| #2 | 2891.9 | 53486. | 3007.4 | 44.216 | 3890.8 |
| #3 | 2893.8 | 53488. | 2990.6 | 44.074 | 3907.0 |

Sample Name: K1831-03      Acquired: 3/27/2019 13:44:25      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00004 | -.00141 | .00201 | .00063 | -.00033 | .03907 | -.00004 | -.00003 |
| Stddev | .00278 | .00130  | .00095 | .00035 | .00078  | .01151 | .00146  | .00005  |
| %RSD   | 7734.2 | 91.839  | 47.131 | 54.664 | 237.53  | 29.444 | 3784.0  | 141.22  |

|    |         |         |        |        |         |        |         |         |
|----|---------|---------|--------|--------|---------|--------|---------|---------|
| #1 | -.00088 | -.00006 | .00253 | .00036 | -.00114 | .02755 | .00055  | .00002  |
| #2 | -.00217 | -.00154 | .00259 | .00102 | -.00028 | .03911 | .00103  | -.00007 |
| #3 | .00316  | -.00264 | .00092 | .00051 | .00043  | .05056 | -.00170 | -.00004 |

|        |        |         |         |        |         |         |         |         |
|--------|--------|---------|---------|--------|---------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00013 | -.00315 | -.00110 | .00002 | -.00086 | -.00647 | -.00020 | -.02111 |
| Stddev | .00005 | .02132  | .00029  | .00020 | .00030  | .00090  | .00004  | .03402  |
| %RSD   | 37.870 | 676.70  | 25.897  | 1061.4 | 35.396  | 13.970  | 18.814  | 161.15  |

|    |        |         |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00019 | .00779  | -.00081 | -.00008 | -.00051 | -.00542 | -.00018 | -.03593 |
| #2 | .00011 | .01048  | -.00112 | -.00012 | -.00096 | -.00701 | -.00025 | .01780  |
| #3 | .00009 | -.02772 | -.00138 | .00025  | -.00109 | -.00696 | -.00019 | -.04520 |

|        |        |         |        |        |        |         |        |        |
|--------|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00080 | -.00025 | .06142 | .00013 | .00001 | -.01498 | .00004 | .17598 |
| Stddev | .00047 | .00096  | .00857 | .00101 | .00013 | .02604  | .00027 | .00104 |
| %RSD   | 58.685 | 390.09  | 13.955 | 799.62 | 1435.1 | 173.82  | 701.77 | .59133 |

|    |        |         |        |         |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|---------|--------|
| #1 | .00037 | -.00089 | .05897 | -.00031 | .00016  | .00375  | -.00005 | .17574 |
| #2 | .00130 | -.00071 | .05434 | -.00059 | -.00008 | -.00397 | -.00017 | .17508 |
| #3 | .00074 | .00086  | .07095 | .00128  | -.00005 | -.04472 | .00034  | .17712 |

|        |        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00392 | 1.3570 | 1.8016 | .29059 | -.00227 | -.0010 | .00006 | 2.5191 |
| Stddev | .00234 | .0076  | .0054  | .00152 | .00078  | .0019  | .00007 | .2368  |
| %RSD   | 59.678 | .56041 | .29895 | .52478 | 34.479  | 181.2  | 108.71 | 9.4015 |

|    |        |        |        |        |         |        |         |        |
|----|--------|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00124 | 1.3550 | 1.7987 | .28887 | -.00154 | .0011  | .00011  | 2.2498 |
| #2 | .00554 | 1.3654 | 1.7983 | .29176 | -.00217 | -.0017 | .00010  | 2.6949 |
| #3 | .00500 | 1.3506 | 1.8078 | .29115 | -.00309 | -.0025 | -.00002 | 2.6126 |



Sample Name: K1831-03      Acquired: 3/27/2019 13:44:25      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      23.121  
 Stddev      34.575  
 %RSD      149.54

#1      49.553  
 #2      -16.007  
 #3      35.818

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2927.1 | 53509. | 3002.8 | 43.103 | 3947.6 |
| Stddev    | 10.1   | 100.   | 24.7   | 2.490  | 8.4    |
| %RSD      | .34476 | .18598 | .82295 | 5.7770 | .21231 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2920.5 | 53567. | 3001.4 | 41.250 | 3938.8 |
| #2 | 2922.1 | 53565. | 2978.7 | 42.125 | 3948.4 |
| #3 | 2938.7 | 53394. | 3028.1 | 45.933 | 3955.5 |

Sample Name: K1831-05      Acquired: 3/27/2019 13:48:51      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00073 | .00149 | .00171 | .00035 | -.00197 | -.05618 | .00086 | -.00002 |
| Stddev | .00171 | .00087 | .00077 | .00074 | .00109  | .01049  | .00124 | .00007  |
| %RSD   | 234.45 | 58.778 | 44.979 | 210.23 | 55.619  | 18.680  | 143.52 | 373.82  |

|    |         |        |        |         |         |         |         |         |
|----|---------|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00053  | .00197 | .00260 | .00076  | -.00317 | -.04406 | .00226  | .00003  |
| #2 | -.00087 | .00201 | .00125 | .00079  | -.00104 | -.06225 | -.00012 | .00001  |
| #3 | .00252  | .00048 | .00129 | -.00050 | -.00169 | -.06223 | .00045  | -.00009 |

|        |        |        |         |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00017 | 54.874 | -.00084 | -.00016 | -.00490 | -.01647 | -.00106 | 11.150 |
| Stddev | .00008 | .494   | .00032  | .00026  | .00056  | .00132  | .00005  | .106   |
| %RSD   | 50.167 | .89943 | 38.468  | 158.79  | 11.496  | 7.9976  | 4.4011  | .95010 |

|    |        |        |         |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00016 | 55.443 | -.00047 | -.00030 | -.00432 | -.01525 | -.00102 | 11.262 |
| #2 | .00026 | 54.559 | -.00100 | .00014  | -.00544 | -.01628 | -.00104 | 11.051 |
| #3 | .00009 | 54.620 | -.00104 | -.00033 | -.00494 | -.01787 | -.00111 | 11.138 |

|        |         |         |        |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00070 | -.00205 | 56.382 | .00009 | .00009 | 29.071 | .00027 | .01314 |
| Stddev | .00028  | .00078  | .189   | .00063 | .00020 | .158   | .00029 | .01943 |
| %RSD   | 39.496  | 37.994  | .33604 | 701.93 | 216.16 | .54399 | 107.37 | 147.95 |

|    |         |         |        |         |         |        |        |         |
|----|---------|---------|--------|---------|---------|--------|--------|---------|
| #1 | -.00077 | -.00122 | 56.521 | .00031  | .00030  | 29.250 | .00020 | -.00234 |
| #2 | -.00093 | -.00215 | 56.459 | -.00062 | .00008  | 28.950 | .00002 | .00680  |
| #3 | -.00039 | -.00277 | 56.166 | .00058  | -.00010 | 29.012 | .00058 | .03495  |

|        |         |         |        |        |         |        |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00561 | -.00255 | .00258 | .00079 | -.00438 | -.0063 | .00496 | 1.4118 |
| Stddev | .00097  | .00108  | .00075 | .00160 | .00079  | .0023  | .00012 | .0294  |
| %RSD   | 17.374  | 42.404  | 29.276 | 203.37 | 17.995  | 36.55  | 2.4828 | 2.0832 |

|    |         |         |        |         |         |        |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|--------|
| #1 | -.00532 | -.00202 | .00181 | .00263  | -.00425 | -.0059 | .00482 | 1.3974 |
| #2 | -.00670 | -.00184 | .00260 | -.00022 | -.00522 | -.0088 | .00505 | 1.4457 |
| #3 | -.00482 | -.00380 | .00332 | -.00005 | -.00366 | -.0042 | .00501 | 1.3924 |

Sample Name: K1831-05      Acquired: 3/27/2019 13:48:51      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      63.596  
 Stddev      26.323  
 %RSD      41.391

#1      91.724  
 #2      39.557  
 #3      59.506

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2970.7 | 54905. | 3133.3 | 45.733 | 3831.4 |
| Stddev    | 4.0    | 171.   | 15.5   | .602   | 1.5    |
| %RSD      | .13629 | .31079 | .49378 | 1.3171 | .03853 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2969.9 | 54883. | 3120.8 | 45.097 | 3829.6 |
| #2 | 2975.0 | 54747. | 3128.3 | 46.295 | 3832.2 |
| #3 | 2967.0 | 55086. | 3150.6 | 45.805 | 3832.2 |

Sample Name: K1831-07      Acquired: 3/27/2019 13:53:17      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.02294 | .00220   | .05535  | .00137  | -.00165 | -.00273 | .00109  | .00002  |
| Stddev | .00283  | .00072   | .00037  | .00526  | .00153  | .00548  | .00080  | .00004  |
| %RSD   | 12.339  | 32.900   | .66388  | 382.85  | 93.115  | 200.86  | 73.494  | 161.16  |
| #1     | -.02253 | .00303   | .05574  | -.00467 | -.00336 | .00129  | .00059  | .00006  |
| #2     | -.02034 | .00174   | .05530  | .00384  | -.00117 | -.00897 | .00201  | .00001  |
| #3     | -.02596 | .00183   | .05502  | .00496  | -.00041 | -.00051 | .00066  | -.00000 |
| Elem   | Cd2265  | Ca3736   | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00048  | .00495   | -.00032 | -.00033 | -.00572 | -.12938 | -.00113 | -.04998 |
| Stddev | .00010  | .02175   | .00054  | .00006  | .00027  | .00270  | .00005  | .02637  |
| %RSD   | 20.222  | 439.80   | 171.45  | 19.766  | 4.7237  | 2.0899  | 4.0148  | 52.755  |
| #1     | .00037  | -.00066  | -.00093 | -.00028 | -.00597 | -.12636 | -.00109 | -.02702 |
| #2     | .00053  | .02895   | -.00012 | -.00040 | -.00576 | -.13020 | -.00118 | -.07878 |
| #3     | .00054  | -.01345  | .00010  | -.00030 | -.00544 | -.13158 | -.00112 | -.04413 |
| Elem   | Ni2316  | Ag3280   | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00292 | .00006   | 176.24  | .00050  | -.00025 | .00729  | .00156  | -.00325 |
| Stddev | .00019  | .00027   | 2.51    | .00069  | .00007  | .00980  | .00031  | .02467  |
| %RSD   | 6.4428  | 473.46   | 1.4231  | 137.26  | 26.910  | 134.55  | 19.564  | 759.20  |
| #1     | -.00274 | .00010   | 179.09  | .00024  | -.00019 | .00416  | .00183  | .02027  |
| #2     | -.00291 | .00031   | 174.39  | .00129  | -.00032 | -.00057 | .00162  | -.00108 |
| #3     | -.00312 | -.00023  | 175.24  | -.00002 | -.00024 | .01827  | .00123  | -.02893 |
| Elem   | S_1820  | Si2881   | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00022 | F 96.548 | .00543  | .01159  | -.00550 | -.0013  | .00021  | 3.8777  |
| Stddev | .00150  | 1.183    | .00054  | .00299  | .00160  | .0009   | .00011  | .0964   |
| %RSD   | 692.72  | 1.2249   | 9.8937  | 25.773  | 29.072  | 69.56   | 54.100  | 2.4872  |
| #1     | -.00094 | 95.238   | .00583  | .01362  | -.00500 | -.0022  | .00008  | 3.9407  |
| #2     | -.00121 | 96.868   | .00563  | .00816  | -.00729 | -.0009  | .00026  | 3.7667  |
| #3     | .00151  | 97.537   | .00482  | .01300  | -.00421 | -.0006  | .00029  | 3.9257  |

Sample Name: K1831-07      Acquired: 3/27/2019 13:53:17      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 53.832 |
| Stddev | 4.613  |
| %RSD   | 8.5692 |

|    |        |
|----|--------|
| #1 | 51.261 |
| #2 | 59.157 |
| #3 | 51.076 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2851.5 | 51961. | 2990.1 | 42.572 | 3633.7 |
| Stddev    | 11.6   | 33.    | 33.9   | 1.988  | 12.7   |
| %RSD      | .40627 | .06410 | 1.1350 | 4.6687 | .35048 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2857.1 | 51995. | 3027.6 | 44.474 | 3639.8 |
| #2 | 2859.1 | 51959. | 2981.2 | 42.733 | 3642.2 |
| #3 | 2838.1 | 51929. | 2961.5 | 40.509 | 3619.0 |

Sample Name: K1832-01      Acquired: 3/27/2019 13:57:43      Type: Unk  
Method: P4-ICP2(v2989)      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    | .53138 | .45894 | 1.4669 | .32141 | .17841 | 1.5390 | .76015 | .48795 |
| Stddev | .00141 | .00077 | .0021  | .00399 | .00154 | .0181  | .00281 | .00071 |
| %RSD   | .26587 | .16874 | .14193 | 1.2402 | .86259 | 1.1736 | .36922 | .14643 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .53206 | .45881 | 1.4653 | .31826 | .17787 | 1.5258 | .75916 | .48724 |
| #2 | .52976 | .45825 | 1.4662 | .32589 | .17722 | 1.5315 | .76332 | .48867 |
| #3 | .53233 | .45978 | 1.4693 | .32007 | .18015 | 1.5596 | .75798 | .48796 |

|        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .26786 | .03889 | .57152 | .27469 | 1.0014 | 1.8101 | 1.1605 | -.03863 |
| Stddev | .00074 | .01178 | .00197 | .00038 | .0022  | .0048  | .0021  | .06314  |
| %RSD   | .27669 | 30.291 | .34469 | .13914 | .22200 | .26472 | .17693 | 163.45  |

|    |        |        |        |        |        |        |        |         |
|----|--------|--------|--------|--------|--------|--------|--------|---------|
| #1 | .26709 | .03476 | .56998 | .27445 | 1.0039 | 1.8065 | 1.1582 | -.09235 |
| #2 | .26858 | .02974 | .57374 | .27448 | .99960 | 1.8156 | 1.1616 | -.05445 |
| #3 | .26790 | .05219 | .57084 | .27513 | 1.0008 | 1.8083 | 1.1618 | .03092  |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .27614 | .49088 | .27567 | 1.3561 | .90033 | .13391 | .25182 | .94958 |
| Stddev | .00130 | .00204 | .03781 | .0052  | .00135 | .04376 | .00087 | .03204 |
| %RSD   | .46969 | .41473 | 13.715 | .38469 | .14976 | 32.678 | .34583 | 3.3744 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .27475 | .48938 | .31794 | 1.3507 | .89973 | .17179 | .25192 | .91896 |
| #2 | .27636 | .49006 | .26402 | 1.3563 | .90188 | .08601 | .25090 | .94690 |
| #3 | .27731 | .49320 | .24506 | 1.3611 | .89939 | .14392 | .25264 | .98288 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00145 | .14684 | .00247 | .00247 | .00859 | .0006  | .49456 | 2.1625 |
| Stddev | .00268 | .00391 | .00114 | .00189 | .00132 | .0009  | .00427 | .2223  |
| %RSD   | 184.60 | 2.6608 | 45.967 | 76.555 | 15.370 | 166.8  | .86363 | 10.278 |

|    |         |        |        |        |        |       |        |        |
|----|---------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .00410  | .14898 | .00349 | .00464 | .00712 | .0000 | .49776 | 1.9351 |
| #2 | -.00126 | .14920 | .00267 | .00152 | .00898 | .0017 | .49621 | 2.1732 |
| #3 | .00152  | .14233 | .00125 | .00123 | .00968 | .0000 | .48971 | 2.3793 |

Sample Name: K1832-01      Acquired: 3/27/2019 13:57:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 52.062 |
| Stddev | 32.948 |
| %RSD   | 63.287 |

|    |        |
|----|--------|
| #1 | 56.298 |
| #2 | 17.200 |
| #3 | 82.686 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2931.3 | 53839. | 3058.6 | 43.400 | 3938.9 |
| Stddev    | 1.6    | 69.    | 29.3   | 1.103  | 10.1   |
| %RSD      | .05386 | .12740 | .95782 | 2.5424 | .25582 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2931.7 | 53904. | 3040.8 | 42.522 | 3939.9 |
| #2 | 2929.6 | 53767. | 3042.6 | 43.040 | 3928.4 |
| #3 | 2932.7 | 53844. | 3092.4 | 44.639 | 3948.5 |

Sample Name: K1832-03      Acquired: 3/27/2019 14:01:53      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00218 | -.00157 | .00032 | .00074 | .00024 | .04007 | -.00019 | -.00005 |
| Stddev | .00116 | .00078  | .00088 | .00042 | .00140 | .00861 | .00133  | .00008  |
| %RSD   | 53.443 | 49.846  | 270.61 | 56.575 | 593.00 | 21.490 | 718.47  | 150.29  |

|    |        |         |         |        |         |        |         |         |
|----|--------|---------|---------|--------|---------|--------|---------|---------|
| #1 | .00307 | -.00113 | -.00017 | .00099 | -.00131 | .03013 | -.00148 | -.00014 |
| #2 | .00086 | -.00247 | .00134  | .00098 | .00063  | .04474 | -.00025 | -.00000 |
| #3 | .00261 | -.00110 | -.00020 | .00026 | .00140  | .04533 | .00118  | -.00001 |

|        |        |        |         |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00009 | .00102 | -.00037 | -.00003 | -.00017 | -.00768 | -.00034 | .03802 |
| Stddev | .00006 | .02766 | .00037  | .00014  | .00025  | .00107  | .00004  | .03770 |
| %RSD   | 61.699 | 2723.3 | 99.096  | 428.00  | 149.38  | 13.966  | 12.400  | 99.159 |

|    |        |         |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|---------|--------|
| #1 | .00006 | -.00656 | .00005  | -.00004 | -.00029 | -.00776 | -.00037 | .00618 |
| #2 | .00016 | .03167  | -.00056 | -.00017 | -.00033 | -.00872 | -.00030 | .07966 |
| #3 | .00006 | -.02207 | -.00060 | .00011  | .00012  | -.00658 | -.00037 | .02824 |

|        |        |         |        |         |        |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00059 | -.00047 | .18332 | -.00045 | .00020 | .04763 | .00002 | .18434 |
| Stddev | .00070 | .00021  | .01201 | .00083  | .00005 | .06731 | .00007 | .01725 |
| %RSD   | 120.26 | 44.777  | 6.5538 | 182.81  | 24.948 | 141.32 | 293.19 | 9.3596 |

|    |         |         |        |         |        |         |         |        |
|----|---------|---------|--------|---------|--------|---------|---------|--------|
| #1 | -.00022 | -.00048 | .17013 | -.00013 | .00022 | -.01437 | .00007  | .18995 |
| #2 | .00106  | -.00068 | .19363 | .00017  | .00015 | .11922  | .00006  | .19809 |
| #3 | .00092  | -.00026 | .18620 | -.00139 | .00025 | .03803  | -.00006 | .16498 |

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00496 | 1.3153 | 1.7740 | .28136 | .00177 | -.0006 | -.00007 | 1.5575 |
| Stddev | .00167 | .0078  | .0020  | .00200 | .00168 | .0010  | .00004  | .0964  |
| %RSD   | 33.753 | .59709 | .11444 | .71051 | 95.294 | 174.9  | 61.266  | 6.1908 |

|    |        |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00320 | 1.3244 | 1.7763 | .27906 | .00370 | -.0011 | -.00012 | 1.5500 |
| #2 | .00653 | 1.3113 | 1.7732 | .28261 | .00061 | .0006  | -.00005 | 1.6575 |
| #3 | .00515 | 1.3103 | 1.7725 | .28242 | .00099 | -.0012 | -.00004 | 1.4651 |



Sample Name: K1832-03      Acquired: 3/27/2019 14:01:53      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      1.9675  
Stddev      19.115  
%RSD      971.51

#1      23.905  
#2      -6.8906  
#3      -11.111

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2950.8 | 54160. | 3065.7 | 45.508 | 3974.0 |
| Stddev    | 2.6    | 228.   | 20.0   | 1.439  | 7.5    |
| %RSD      | .08882 | .42047 | .65354 | 3.1630 | .18783 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2948.5 | 54157. | 3044.1 | 46.058 | 3965.6 |
| #2 | 2950.4 | 54389. | 3069.2 | 43.875 | 3979.8 |
| #3 | 2953.6 | 53933. | 3083.7 | 46.592 | 3976.5 |

Sample Name: K1832-05      Acquired: 3/27/2019 14:06:18      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00145 | .00129 | .00150 | -.00018 | -.00228 | -.04668 | .00031 | -.00005 |
| Stddev | .00221 | .00131 | .00145 | .00133  | .00046  | .00810  | .00091 | .00008  |
| %RSD   | 152.33 | 101.81 | 96.673 | 729.02  | 20.377  | 17.345  | 290.98 | 161.25  |

|    |         |         |        |         |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.00091 | .00169  | .00008 | -.00169 | -.00187 | -.04561 | .00043  | .00002  |
| #2 | .00346  | -.00018 | .00298 | .00085  | -.00278 | -.03917 | -.00065 | -.00013 |
| #3 | .00179  | .00235  | .00143 | .00029  | -.00217 | -.05526 | .00116  | -.00003 |

|        |        |        |         |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00011 | 55.584 | -.00072 | -.00002 | -.00474 | -.01712 | -.00106 | 11.384 |
| Stddev | .00006 | .356   | .00005  | .00030  | .00029  | .00133  | .00003  | .151   |
| %RSD   | 49.066 | .63960 | 7.4032  | 1309.9  | 6.0859  | 7.7438  | 3.1891  | 1.3282 |

|    |        |        |         |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00013 | 55.867 | -.00071 | .00032  | -.00499 | -.01564 | -.00105 | 11.245 |
| #2 | .00016 | 55.701 | -.00066 | -.00017 | -.00443 | -.01821 | -.00103 | 11.363 |
| #3 | .00005 | 55.185 | -.00077 | -.00022 | -.00479 | -.01751 | -.00110 | 11.545 |

|        |         |         |        |        |         |        |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00069 | -.00153 | 57.531 | .00032 | -.00013 | 29.376 | .00003 | .01163 |
| Stddev | .00039  | .00015  | .478   | .00074 | .00011  | .239   | .00017 | .01346 |
| %RSD   | 56.680  | 10.048  | .83074 | 233.28 | 88.249  | .81284 | 603.54 | 115.71 |

|    |         |         |        |         |         |        |         |         |
|----|---------|---------|--------|---------|---------|--------|---------|---------|
| #1 | -.00082 | -.00170 | 58.043 | .00010  | -.00023 | 29.562 | -.00016 | .01573  |
| #2 | -.00100 | -.00140 | 57.455 | -.00029 | -.00014 | 29.460 | .00015  | -.00340 |
| #3 | -.00025 | -.00149 | 57.096 | .00114  | -.00001 | 29.107 | .00010  | .02256  |

|        |         |         |        |         |         |        |        |        |
|--------|---------|---------|--------|---------|---------|--------|--------|--------|
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00505 | -.00376 | .00079 | -.00018 | -.00385 | -.0041 | .00492 | .81343 |
| Stddev | .00136  | .00347  | .00092 | .00214  | .00097  | .0012  | .00006 | .03571 |
| %RSD   | 26.892  | 92.284  | 115.73 | 1174.1  | 25.258  | 29.37  | 1.3176 | 4.3895 |

|    |         |         |         |         |         |        |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|--------|
| #1 | -.00601 | .00023  | .00116  | -.00004 | -.00393 | -.0049 | .00500 | .77829 |
| #2 | -.00350 | -.00544 | -.00025 | .00188  | -.00284 | -.0046 | .00487 | .84968 |
| #3 | -.00565 | -.00607 | .00147  | -.00239 | -.00477 | -.0027 | .00491 | .81231 |

Sample Name: K1832-05      Acquired: 3/27/2019 14:06:18      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 63.988 |
| Stddev | 13.174 |
| %RSD   | 20.589 |

|    |        |
|----|--------|
| #1 | 50.279 |
| #2 | 65.132 |
| #3 | 76.553 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2947.7 | 54730. | 3160.9 | 44.779 | 3803.7 |
| Stddev    | 2.5    | 119.   | 24.2   | .335   | .9     |
| %RSD      | .08445 | .21651 | .76619 | .74747 | .02240 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2950.5 | 54634. | 3139.0 | 44.723 | 3804.3 |
| #2 | 2946.8 | 54694. | 3156.6 | 44.475 | 3804.1 |
| #3 | 2945.8 | 54863. | 3186.9 | 45.138 | 3802.7 |

Sample Name: K1832-07      Acquired: 3/27/2019 14:10:46      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.02238 | -.00015  | .05408  | -.00049 | -.00093 | .00332  | .00025  | -.00000 |
| Stddev | .00144  | .00167   | .00016  | .00168  | .00134  | .01326  | .00114  | .00005  |
| %RSD   | 6.4371  | 1113.7   | .29428  | 344.06  | 145.01  | 399.59  | 451.20  | 6689.7  |
| #1     | -.02390 | .00031   | .05390  | .00053  | -.00050 | -.00563 | -.00068 | .00003  |
| #2     | -.02103 | .00124   | .05413  | .00044  | -.00243 | -.00297 | .00153  | -.00005 |
| #3     | -.02219 | -.00200  | .05420  | -.00243 | .00016  | .01856  | -.00009 | .00002  |
| Elem   | Cd2265  | Ca3736   | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00033  | -.00869  | .00013  | -.00021 | -.00604 | -.12491 | -.00106 | -.01481 |
| Stddev | .00006  | .01662   | .00054  | .00016  | .00044  | .00107  | .00006  | .12387  |
| %RSD   | 17.643  | 191.34   | 421.15  | 79.199  | 7.2615  | .85540  | 6.0148  | 836.61  |
| #1     | .00034  | -.02647  | .00066  | -.00004 | -.00577 | -.12615 | -.00106 | -.13505 |
| #2     | .00027  | .00646   | .00014  | -.00022 | -.00581 | -.12435 | -.00100 | .11239  |
| #3     | .00039  | -.00606  | -.00042 | -.00037 | -.00655 | -.12424 | -.00112 | -.02176 |
| Elem   | Ni2316  | Ag3280   | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00239 | .00009   | 174.62  | .00034  | -.00007 | .05371  | .00106  | -.01173 |
| Stddev | .00039  | .00076   | .61     | .00026  | .00007  | .02905  | .00019  | .01232  |
| %RSD   | 16.128  | 893.43   | .34674  | 78.236  | 98.691  | 54.086  | 18.206  | 105.03  |
| #1     | -.00235 | .00051   | 175.28  | .00061  | -.00015 | .06827  | .00110  | -.02588 |
| #2     | -.00203 | -.00079  | 174.08  | .00008  | -.00005 | .07260  | .00123  | -.00333 |
| #3     | -.00279 | .00054   | 174.52  | .00032  | -.00002 | .02026  | .00085  | -.00599 |
| Elem   | S_1820  | Si2881   | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00315 | F 91.813 | .00226  | .00786  | -.00748 | -.0008  | .00015  | 2.2553  |
| Stddev | .00045  | .664     | .00025  | .00137  | .00184  | .0008   | .00026  | .0261   |
| %RSD   | 14.422  | .72352   | 11.088  | 17.440  | 24.663  | 99.24   | 177.52  | 1.1586  |
| #1     | -.00263 | 92.496   | .00248  | .00719  | -.00961 | .0000   | -.00011 | 2.2253  |
| #2     | -.00334 | 91.169   | .00232  | .00943  | -.00647 | -.0016  | .00015  | 2.2726  |
| #3     | -.00348 | 91.773   | .00199  | .00694  | -.00636 | -.0009  | .00040  | 2.2681  |

Sample Name: K1832-07      Acquired: 3/27/2019 14:10:46      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 67.466 |
| Stddev | 11.034 |
| %RSD   | 16.355 |

|    |        |
|----|--------|
| #1 | 65.124 |
| #2 | 79.484 |
| #3 | 57.792 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2933.5 | 53956. | 3143.7 | 44.512 | 3747.0 |
| Stddev    | 6.0    | 24.    | 22.2   | .952   | 5.9    |
| %RSD      | .20303 | .04521 | .70580 | 2.1388 | .15778 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2932.8 | 53984. | 3120.9 | 43.433 | 3752.0 |
| #2 | 2939.8 | 53943. | 3165.2 | 44.873 | 3748.6 |
| #3 | 2927.9 | 53941. | 3145.1 | 45.231 | 3740.5 |

Sample Name: PB117934BL      Acquired: 3/27/2019 14:15:13      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00038  | -.00005 | .00053  | .00197  | .00093   | -.00643 | -.00053 | -.00009  |
| Stddev | .00209  | .00060  | .00036  | .00180  | .00066   | .00890  | .00166  | .00012   |
| %RSD   | 557.13  | 1303.7  | 67.991  | 91.231  | 70.667   | 138.35  | 313.59  | 127.54   |
| #1     | .00250  | .00039  | .00047  | .00300  | .00168   | -.00651 | -.00241 | -.00022  |
| #2     | .00030  | -.00073 | .00020  | .00303  | .00045   | .00251  | .00074  | .00001   |
| #3     | -.00168 | .00020  | .00092  | -.00011 | .00065   | -.01529 | .00008  | -.00007  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247   | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00013  | .00734  | -.00009 | -.00010 | .00089   | -.00587 | -.00048 | -.02071  |
| Stddev | .00008  | .02058  | .00024  | .00017  | .00025   | .00129  | .00005  | .01726   |
| %RSD   | 58.666  | 280.57  | 264.92  | 175.08  | 28.394   | 21.935  | 9.5371  | 83.336   |
| #1     | .00012  | -.01515 | .00010  | .00006  | .00062   | -.00534 | -.00053 | -.01545  |
| #2     | .00006  | .01190  | -.00036 | -.00007 | .00094   | -.00493 | -.00047 | -.03998  |
| #3     | .00021  | .02525  | -.00001 | -.00028 | .00111   | -.00734 | -.00044 | -.00669  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138   | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00061  | .00008  | .38353  | -.00018 | -.00003  | .10910  | -.00001 | .00614   |
| Stddev | .00063  | .00022  | .04029  | .00063  | .00003   | .03333  | .00018  | .00120   |
| %RSD   | 102.66  | 277.95  | 10.506  | 345.76  | 123.90   | 30.555  | 1601.6  | 19.549   |
| #1     | .00084  | -.00013 | .42154  | .00036  | -.00005  | .08661  | .00013  | .00519   |
| #2     | -.00010 | .00005  | .38776  | -.00087 | .00001   | .09329  | -.00021 | .00573   |
| #3     | .00109  | .00031  | .34128  | -.00004 | -.00003  | .14740  | .00005  | .00749   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707   | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00391  | .00350  | .00156  | .00067  | F .01166 | -.0017  | .00010  | F 2.0236 |
| Stddev | .00073  | .00288  | .00060  | .00081  | .00195   | .0009   | .00018  | .1969    |
| %RSD   | 18.683  | 82.184  | 38.495  | 121.77  | 16.688   | 53.24   | 173.70  | 9.7284   |
| #1     | .00396  | .00165  | .00170  | .00119  | .01271   | -.0015  | -.00008 | 2.2476   |
| #2     | .00315  | .00682  | .00090  | -.00027 | .01286   | -.0009  | .00011  | 1.8783   |
| #3     | .00460  | .00204  | .00207  | .00107  | .00942   | -.0027  | .00028  | 1.9449   |

Sample Name: PB117934BL      Acquired: 3/27/2019 14:15:13      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 23.375 |
| Stddev | 15.876   |
| %RSD   | 67.917   |

|    |        |
|----|--------|
| #1 | 7.5143 |
| #2 | 39.266 |
| #3 | 23.346 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2869.8 | 52979. | 3000.1 | 43.314 | 3887.8 |
| Stddev    | 8.3    | 2.     | 42.6   | .824   | .8     |
| %RSD      | .29027 | .00413 | 1.4196 | 1.9019 | .02031 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2863.6 | 52977. | 2980.2 | 44.175 | 3887.9 |
| #2 | 2866.5 | 52979. | 3049.0 | 42.533 | 3886.9 |
| #3 | 2879.2 | 52981. | 2971.1 | 43.233 | 3888.5 |

Sample Name: PB117932BL      Acquired: 3/27/2019 14:19:41      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00085 | -.00034 | -.00041 | -.00046 | .00056  | -.00905 | .00010  | -.00008  |
| Stddev | .00083  | .00080  | .00002  | .00138  | .00164  | .01255  | .00155  | .00010   |
| %RSD   | 96.976  | 235.87  | 5.2090  | 298.41  | 293.94  | 138.76  | 1496.2  | 132.87   |
| #1     | -.00030 | -.00114 | -.00042 | -.00204 | -.00120 | -.01669 | -.00073 | -.00019  |
| #2     | -.00045 | .00045  | -.00041 | .00019  | .00083  | .00544  | -.00085 | .00000   |
| #3     | -.00180 | -.00032 | -.00038 | .00047  | .00204  | -.01589 | .00189  | -.00004  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00006  | -.03052 | -.00029 | -.00008 | .00043  | -.00583 | -.00036 | .00474   |
| Stddev | .00003  | .02964  | .00067  | .00014  | .00011  | .00085  | .00004  | .04395   |
| %RSD   | 47.103  | 97.119  | 235.17  | 185.93  | 25.067  | 14.569  | 10.704  | 928.07   |
| #1     | .00003  | -.06084 | .00049  | -.00012 | .00043  | -.00664 | -.00038 | .04605   |
| #2     | .00006  | -.02913 | -.00066 | .00008  | .00033  | -.00495 | -.00039 | -.04144  |
| #3     | .00009  | -.00160 | -.00069 | -.00019 | .00054  | -.00589 | -.00032 | .00959   |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00068  | -.00012 | .06223  | -.00046 | -.00028 | .06516  | -.00011 | .02454   |
| Stddev | .00034  | .00037  | .01175  | .00097  | .00006  | .01315  | .00015  | .01740   |
| %RSD   | 50.292  | 300.29  | 18.889  | 212.09  | 22.396  | 20.185  | 137.38  | 70.926   |
| #1     | .00044  | -.00046 | .05697  | -.00083 | -.00027 | .05725  | -.00002 | .03510   |
| #2     | .00107  | .00028  | .05402  | .00064  | -.00022 | .05789  | -.00003 | .00445   |
| #3     | .00053  | -.00019 | .07569  | -.00120 | -.00034 | .08034  | -.00029 | .03407   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00313  | .00184  | .00023  | -.00044 | .00279  | -.0021  | .00011  | F 1.6076 |
| Stddev | .00276  | .00136  | .00062  | .00345  | .00157  | .0014   | .00005  | .1584    |
| %RSD   | 88.340  | 73.922  | 264.14  | 789.42  | 56.403  | 70.00   | 48.630  | 9.8521   |
| #1     | .00349  | .00142  | .00080  | .00145  | .00290  | -.0007  | .00005  | 1.4530   |
| #2     | .00569  | .00074  | .00033  | .00165  | .00430  | -.0019  | .00016  | 1.7696   |
| #3     | .00020  | .00335  | -.00042 | -.00441 | .00116  | -.0036  | .00012  | 1.6003   |



Sample Name: PB117932BL      Acquired: 3/27/2019 14:19:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 28.909 |
| Stddev | 44.336   |
| %RSD   | 153.36   |

|    |         |
|----|---------|
| #1 | -12.591 |
| #2 | 75.620  |
| #3 | 23.699  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2896.9 | 53478. | 3027.4 | 42.736 | 3934.4 |
| Stddev    | 3.2    | 148.   | 39.7   | 1.011  | 11.0   |
| %RSD      | .10994 | .27672 | 1.3124 | 2.3661 | .27889 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2899.9 | 53334. | 2981.8 | 41.842 | 3922.5 |
| #2 | 2893.5 | 53630. | 3045.1 | 43.833 | 3936.5 |
| #3 | 2897.2 | 53470. | 3055.1 | 42.533 | 3944.1 |

Sample Name: CCV02      Acquired: 3/27/2019 14:24:09      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9507 | 4.9400 | 4.9381 | 4.8810 | 4.9509 | 9.9801 | 10.017 | .24945   |
| Stddev | .0117  | .0144  | .0086  | .0076  | .0084  | .1447  | .030   | .00008   |
| %RSD   | .23642 | .29039 | .17521 | .15574 | .17034 | 1.4498 | .29783 | .03252   |
| #1     | 4.9376 | 4.9244 | 4.9332 | 4.8859 | 4.9415 | 9.8242 | 9.9823 | .24949   |
| #2     | 4.9601 | 4.9430 | 4.9481 | 4.8722 | 4.9578 | 10.110 | 10.037 | .24935   |
| #3     | 4.9544 | 4.9526 | 4.9330 | 4.8848 | 4.9534 | 10.006 | 10.030 | .24949   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4676 | 24.649 | 1.0026 | 2.4597 | 1.2603 | 4.8948 | 2.4979 | 24.860   |
| Stddev | .0034  | .102   | .0046  | .0024  | .0020  | .0153  | .0036  | .275     |
| %RSD   | .13801 | .41438 | .45830 | .09845 | .15835 | .31198 | .14395 | 1.1079   |
| #1     | 2.4655 | 24.535 | .99761 | 2.4595 | 1.2601 | 4.8882 | 2.4945 | 24.542   |
| #2     | 2.4716 | 24.683 | 1.0036 | 2.4622 | 1.2625 | 4.9123 | 2.5017 | 25.022   |
| #3     | 2.4658 | 24.730 | 1.0066 | 2.4574 | 1.2585 | 4.8840 | 2.4975 | 25.016   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4813 | 1.2402 | 24.412 | 2.4787 | 2.4683 | 24.815 | 4.9797 | 5.0137   |
| Stddev | .0015  | .0006  | .060   | .0032  | .0029  | .160   | .0058  | .0596    |
| %RSD   | .06223 | .04932 | .24410 | .13034 | .11761 | .64509 | .11704 | 1.1887   |
| #1     | 2.4797 | 1.2404 | 24.345 | 2.4758 | 2.4671 | 24.651 | 4.9735 | 4.9451   |
| #2     | 2.4828 | 1.2408 | 24.430 | 2.4822 | 2.4716 | 24.823 | 4.9850 | 5.0523   |
| #3     | 2.4814 | 1.2396 | 24.460 | 2.4781 | 2.4662 | 24.970 | 4.9806 | 5.0438   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.8653 | 4.9334 | 4.9233 | 4.9983 | 4.9115 | 4.905  | 5.0357 | F 3.0831 |
| Stddev | .0204  | .0462  | .0170  | .0078  | .0326  | .018   | .0424  | .2297    |
| %RSD   | .41896 | .93685 | .34440 | .15614 | .66466 | .3652  | .84143 | 7.4508   |
| #1     | 4.8440 | 4.9703 | 4.9091 | 5.0059 | 4.9373 | 4.886  | 5.0640 | 2.8258   |
| #2     | 4.8674 | 4.8816 | 4.9187 | 4.9903 | 4.8748 | 4.907  | 4.9870 | 3.1562   |
| #3     | 4.8846 | 4.9485 | 4.9420 | 4.9987 | 4.9226 | 4.921  | 5.0561 | 3.2675   |

Sample Name: CCV02      Acquired: 3/27/2019 14:24:09      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 10.728 |
| Stddev | 43.799   |
| %RSD   | 408.27   |

|    |         |
|----|---------|
| #1 | -23.321 |
| #2 | -4.6331 |
| #3 | 60.138  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2827.1 | 52419. | 3048.7 | 42.581 | 3550.4 |
| Stddev    | 3.5    | 60.    | 31.4   | .706   | 5.9    |
| %RSD      | .12511 | .11461 | 1.0294 | 1.6573 | .16607 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2829.4 | 52403. | 3017.4 | 41.766 | 3554.1 |
| #2 | 2823.0 | 52369. | 3080.1 | 42.972 | 3543.6 |
| #3 | 2828.9 | 52486. | 3048.7 | 43.005 | 3553.6 |

Sample Name: CCB02      Acquired: 3/27/2019 14:28:08      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00115  | .00030  | -.00024 | -.00118 | .00074  | -.00372 | -.00093 | -.00003  |
| Stddev | .00246  | .00068  | .00055  | .00372  | .00306  | .01164  | .00130  | .00006   |
| %RSD   | 213.70  | 227.39  | 225.84  | 314.18  | 416.00  | 313.06  | 139.19  | 183.38   |
| #1     | -.00015 | .00107  | .00020  | -.00511 | -.00245 | -.00713 | -.00139 | .00000   |
| #2     | -.00039 | -.00017 | -.00086 | .00230  | .00099  | -.01327 | .00053  | -.00010  |
| #3     | .00399  | -.00001 | -.00007 | -.00074 | .00367  | .00925  | -.00194 | -.00000  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00012  | .00180  | -.00018 | -.00014 | -.00069 | -.00611 | -.00024 | -.08049  |
| Stddev | .00003  | .01191  | .00031  | .00010  | .00013  | .00063  | .00004  | .08733   |
| %RSD   | 25.283  | 660.63  | 171.40  | 68.638  | 18.968  | 10.308  | 16.434  | 108.49   |
| #1     | .00014  | -.00635 | -.00005 | -.00025 | -.00055 | -.00539 | -.00020 | -.17834  |
| #2     | .00012  | .01548  | .00004  | -.00013 | -.00080 | -.00655 | -.00025 | -.05265  |
| #3     | .00009  | -.00371 | -.00053 | -.00005 | -.00071 | -.00638 | -.00027 | -.01048  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00099  | .00058  | -.00357 | .00001  | -.00009 | .08084  | .00020  | .01537   |
| Stddev | .00074  | .00079  | .00807  | .00041  | .00002  | .04496  | .00025  | .00907   |
| %RSD   | 74.475  | 135.98  | 225.75  | 4305.3  | 22.726  | 55.615  | 126.41  | 59.047   |
| #1     | .00055  | .00148  | -.01032 | -.00017 | -.00009 | .07426  | .00049  | .02558   |
| #2     | .00184  | .00004  | -.00576 | -.00028 | -.00007 | .12872  | .00005  | .00822   |
| #3     | .00058  | .00021  | .00536  | .00048  | -.00011 | .03953  | .00006  | .01231   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00147  | .00233  | .00352  | .00025  | .00233  | .0001   | .00004  | F 2.1339 |
| Stddev | .00151  | .00200  | .00148  | .00101  | .00024  | .0008   | .00007  | .1883    |
| %RSD   | 102.93  | 85.765  | 42.200  | 409.36  | 10.360  | 610.2   | 168.92  | 8.8252   |
| #1     | -.00020 | .00164  | .00483  | .00013  | .00224  | .0003   | .00004  | 2.2784   |
| #2     | .00274  | .00459  | .00190  | -.00070 | .00260  | -.0007  | .00011  | 2.2023   |
| #3     | .00187  | .00078  | .00382  | .00131  | .00215  | .0008   | -.00003 | 1.9209   |

Sample Name: CCB02      Acquired: 3/27/2019 14:28:08      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 44.734 |
| Stddev | 18.704   |
| %RSD   | 41.813   |

|    |        |
|----|--------|
| #1 | 34.322 |
| #2 | 66.327 |
| #3 | 33.552 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2913.6 | 53402. | 3035.8 | 42.836 | 3949.3 |
| Stddev    | 7.4    | 342.   | 16.5   | .525   | 2.7    |
| %RSD      | .25538 | .63953 | .54298 | 1.2257 | .06903 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2917.2 | 53042. | 3041.8 | 43.358 | 3949.1 |
| #2 | 2918.5 | 53442. | 3017.2 | 42.308 | 3952.1 |
| #3 | 2905.0 | 53722. | 3048.4 | 42.842 | 3946.7 |

Sample Name: PB117934BS      Acquired: 3/27/2019 14:32:36      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79549 | 2.0327 | .99382 | 2.0014    | .78931 | 1.9768 | .20569 |
| Stddev | .00204 | .0157  | .00484 | .0148     | .00447 | .0242  | .00271 |
| %RSD   | .25666 | .77159 | .48678 | .74135    | .56674 | 1.2240 | 1.3163 |
| #1     | .79342 | 2.0316 | .98823 | 1.9928    | .78440 | 1.9634 | .20322 |
| #2     | .79750 | 2.0489 | .99652 | 2.0186    | .79314 | 2.0047 | .20858 |
| #3     | .79553 | 2.0176 | .99670 | 1.9929    | .79040 | 1.9622 | .20527 |
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677    | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | .20674 | .19699 | 1.0579 | .42550    | .20147 | .32937 | 3.1360 |
| Stddev | .00061 | .00127 | .0285  | .00052    | .00150 | .00170 | .0065  |
| %RSD   | .29668 | .64244 | 2.6926 | .12220    | .74618 | .51537 | .20766 |
| #1     | .20744 | .19552 | 1.0314 | .42599    | .19975 | .32772 | 3.1401 |
| #2     | .20645 | .19769 | 1.0542 | .42556    | .20212 | .32927 | 3.1393 |
| #3     | .20633 | .19774 | 1.0880 | .42495    | .20253 | .33111 | 3.1285 |
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280    | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | .21260 | 1.9917 | .51223 | .07488    | 2.9423 | .31351 | .19748 |
| Stddev | .00071 | .0757  | .00239 | .00109    | .0363  | .00139 | .00094 |
| %RSD   | .33344 | 3.8013 | .46644 | 1.4581    | 1.2330 | .44477 | .47428 |
| #1     | .21198 | 1.9627 | .50982 | .07554    | 2.9050 | .31461 | .19644 |
| #2     | .21338 | 2.0776 | .51227 | .07362    | 2.9774 | .31399 | .19774 |
| #3     | .21245 | 1.9347 | .51460 | .07548    | 2.9445 | .31194 | .19826 |
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.062 | .39524 | .28607 | F -.00480 | .90846 | .65819 | .19428 |
| Stddev | .066   | .00159 | .01406 | .00486    | .01808 | .00304 | .00819 |
| %RSD   | .65208 | .40329 | 4.9146 | 101.14    | 1.9904 | .46155 | 4.2167 |
| #1     | 10.013 | .39467 | .28276 | -.00992   | .89328 | .65475 | .18536 |
| #2     | 10.137 | .39704 | .30148 | -.00025   | .90364 | .65933 | .19601 |
| #3     | 10.037 | .39401 | .27396 | -.00424   | .92847 | .66050 | .20147 |

Sample Name: PB117934BS      Acquired: 3/27/2019 14:32:36      Type: Unk  
Method: P4-ICP2(v2989)      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       | .20787 | F 5.447 | .19957 | F 2.1661 | F<.00000 |
| Stddev    | .00573 | .038    | .00406 | .2048    | 13.640   |
| %RSD      | 2.7556 | .7021   | 2.0335 | 9.4543   | 5.3635   |
| #1        | .20126 | 5.453   | .19488 | 1.9309   | -248.54  |
| #2        | .21142 | 5.483   | .20197 | 2.3047   | -269.90  |
| #3        | .21092 | 5.407   | .20185 | 2.2628   | -244.52  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2919.0 | 53806.  | 3040.9 | 44.678   | 3902.0   |
| Stddev    | 6.0    | 274.    | 48.0   | 1.901    | 2.3      |
| %RSD      | .20430 | .50885  | 1.5790 | 4.2543   | .05953   |
| #1        | 2912.7 | 53794.  | 3096.2 | 45.808   | 3900.5   |
| #2        | 2919.7 | 53538.  | 3017.0 | 42.483   | 3900.8   |
| #3        | 2924.6 | 54085.  | 3009.6 | 45.742   | 3904.7   |

Sample Name: PB117932BS      Acquired: 3/27/2019 14:36:44      Type: Unk  
Method: P4-ICP2(v2989)      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    | .80718 | 2.0748 | 1.0155 | 2.0342 | .80999 | 2.0624 | .21494 |
| Stddev | .00468 | .0032  | .0007  | .0088  | .00286 | .0201  | .00188 |
| %RSD   | .57941 | .15613 | .06585 | .43100 | .35318 | .97643 | .87495 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .80731 | 2.0716 | 1.0150 | 2.0241 | .80958 | 2.0440 | .21583 |
| #2 | .81179 | 2.0747 | 1.0162 | 2.0399 | .81303 | 2.0593 | .21621 |
| #3 | .80244 | 2.0781 | 1.0152 | 2.0385 | .80735 | 2.0839 | .21278 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21033 | .20138 | 1.0798 | .43197 | .20572 | .33712 | 3.1962 |
| Stddev | .00021 | .00018 | .0340  | .00246 | .00030 | .00081 | .0102  |
| %RSD   | .10133 | .08990 | 3.1479 | .56962 | .14689 | .24052 | .31924 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21048 | .20137 | 1.1013 | .43442 | .20540 | .33621 | 3.2077 |
| #2 | .21009 | .20120 | 1.0975 | .42950 | .20576 | .33778 | 3.1881 |
| #3 | .21042 | .20156 | 1.0406 | .43200 | .20600 | .33737 | 3.1928 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21633 | 2.1086 | .52315 | .07576 | 3.0387 | .31802 | .20202 |
| Stddev | .00078 | .0547  | .00157 | .00034 | .0026  | .00168 | .00015 |
| %RSD   | .36161 | 2.5935 | .30002 | .44440 | .08624 | .52829 | .07652 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21661 | 2.1656 | .52346 | .07610 | 3.0380 | .31823 | .20217 |
| #2 | .21545 | 2.0566 | .52145 | .07574 | 3.0415 | .31959 | .20203 |
| #3 | .21694 | 2.1034 | .52455 | .07543 | 3.0364 | .31625 | .20186 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.365 | .40593 | .31975 | F -.00315 | .91773 | .68198 | .19885 |
| Stddev | .028   | .00025 | .01952 | .00180    | .00869 | .00216 | .00363 |
| %RSD   | .26646 | .06081 | 6.1042 | 57.021    | .94741 | .31606 | 1.8257 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.343 | .40617 | .31899 | -.00393 | .91627 | .68154 | .20303 |
| #2 | 10.396 | .40567 | .30062 | -.00443 | .90986 | .68008 | .19705 |
| #3 | 10.357 | .40596 | .33964 | -.00110 | .92707 | .68433 | .19648 |



Sample Name: PB117932BS      Acquired: 3/27/2019 14:36:44      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .20778 | F 5.569 | .20567 | F 2.5742 | F<.00000 |
| Stddev    | .00095 | .012    | .00038 | .2530    | 16.875   |
| %RSD      | .45643 | .2119   | .18298 | 9.8286   | 6.2439   |
| #1        | .20855 | 5.570   | .20594 | 2.8588   | -279.93  |
| #2        | .20807 | 5.580   | .20524 | 2.4891   | -280.08  |
| #3        | .20672 | 5.556   | .20583 | 2.3748   | -250.78  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2885.9 | 53194.  | 3035.8 | 43.231   | 3842.2   |
| Stddev    | 5.4    | 156.    | 9.5    | .923     | 7.8      |
| %RSD      | .18750 | .29289  | .31375 | 2.1342   | .20358   |
| #1        | 2879.7 | 53015.  | 3033.1 | 43.883   | 3834.0   |
| #2        | 2889.8 | 53297.  | 3046.4 | 43.633   | 3849.6   |
| #3        | 2888.3 | 53270.  | 3027.9 | 42.175   | 3843.0   |

Sample Name: PB118138BL      Acquired: 3/27/2019 14:49:55      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00059   | -.00015 | -.00072  | .00267  | -.00077  | -.02139  | -.00060 | -.00004  |
| Stddev | .00104   | .00141  | .00130   | .00370  | .00176   | .01429   | .00140  | .00011   |
| %RSD   | 177.77   | 946.19  | 181.07   | 138.38  | 229.37   | 66.800   | 234.13  | 286.32   |
| #1     | .00076   | .00147  | -.00180  | .00092  | -.00279  | -.03562  | -.00147 | -.00007  |
| #2     | .00153   | -.00100 | .00072   | .00693  | .00012   | -.02151  | .00102  | -.00013  |
| #3     | -.00053  | -.00092 | -.00108  | .00018  | .00037   | -.00704  | -.00134 | .00009   |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286  | Cu2247   | Fe2404   | Mn2576  | Mg2790   |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm      | ppm      | ppm     | ppm      |
| Avg    | .00008   | .00138  | -.00019  | .00003  | .00332   | -.00395  | -.00025 | -.04106  |
| Stddev | .00004   | .00649  | .00055   | .00016  | .00005   | .00108   | .00007  | .03566   |
| %RSD   | 43.097   | 471.08  | 291.56   | 474.22  | 1.6015   | 27.464   | 27.628  | 86.846   |
| #1     | .00008   | -.00173 | -.00049  | -.00011 | .00326   | -.00366  | -.00017 | -.02002  |
| #2     | .00012   | .00884  | .00045   | .00021  | .00335   | -.00515  | -.00026 | -.02093  |
| #3     | .00005   | -.00297 | -.00053  | .00001  | .00335   | -.00304  | -.00031 | -.08224  |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924  | Zn2138   | K_7664   | Mo2020  | B_2496   |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm      | ppm      | ppm     | ppm      |
| Avg    | .00092   | .00066  | F 2.5621 | .00018  | -.00007  | F .53099 | .00009  | .01160   |
| Stddev | .00061   | .00016  | .2288    | .00014  | .00006   | .09551   | .00014  | .01739   |
| %RSD   | 65.632   | 24.616  | 8.9308   | 80.011  | 81.682   | 17.988   | 153.79  | 149.98   |
| #1     | .00159   | .00080  | 2.8046   | .00002  | -.00012  | .59355   | .00006  | .01909   |
| #2     | .00042   | .00048  | 2.5318   | .00028  | -.00001  | .57836   | -.00003 | .02399   |
| #3     | .00075   | .00070  | 2.3500   | .00024  | -.00009  | .42105   | .00024  | -.00829  |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361  | Li6707   | P_1774   | Sr4077  | U_3670   |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm      | ppm      | ppm     | ppm      |
| Avg    | F .02660 | .00155  | .00084   | -.00041 | F .05038 | .0007    | .00006  | F 1.9409 |
| Stddev | .00690   | .00233  | .00079   | .00324  | .00574   | .0004    | .00006  | .3233    |
| %RSD   | 25.931   | 149.83  | 93.964   | 792.17  | 11.391   | 51.53    | 99.485  | 16.659   |
| #1     | .03321   | .00260  | .00159   | .00314  | .05699   | .0009    | .00008  | 2.1480   |
| #2     | .02716   | .00318  | .00093   | -.00319 | .04747   | .0003    | -.00001 | 1.5683   |
| #3     | .01945   | -.00111 | .00001   | -.00118 | .04668   | .0009    | .00010  | 2.1064   |

Sample Name: PB118138BL      Acquired: 3/27/2019 14:49:55      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 29.896  
 Stddev      50.705  
 %RSD      169.60

#1      67.860  
 #2      49.516  
 #3      -27.687

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2900.9 | 53397. | 3046.8 | 44.269 | 3908.5 |
| Stddev    | 9.9    | 152.   | 20.6   | 2.808  | 11.1   |
| %RSD      | .34254 | .28524 | .67689 | 6.3421 | .28350 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2889.6 | 53410. | 3023.0 | 43.300 | 3898.1 |
| #2 | 2904.9 | 53542. | 3058.9 | 47.433 | 3907.2 |
| #3 | 2908.3 | 53238. | 3058.6 | 42.075 | 3920.1 |

Sample Name: PB118138BS      Acquired: 3/27/2019 14:54:22      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79382 | 2.0339 | 1.0012 | 1.9868 | .78774 | 2.0091 | .20607 |
| Stddev | .00462 | .0079  | .0033  | .0065  | .00147 | .0283  | .00039 |
| %RSD   | .58234 | .39039 | .32961 | .32654 | .18711 | 1.4104 | .18881 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78865 | 2.0254 | 1.0040 | 1.9795 | .78884 | 1.9798 | .20652 |
| #2 | .79755 | 2.0352 | .99756 | 1.9891 | .78606 | 2.0112 | .20583 |
| #3 | .79525 | 2.0412 | 1.0019 | 1.9919 | .78831 | 2.0363 | .20587 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20664 | .19857 | 1.0580 | .42596 | .20302 | .33322 | 3.1069 |
| Stddev | .00060 | .00061 | .0166  | .00069 | .00055 | .00044 | .0079  |
| %RSD   | .29056 | .30503 | 1.5667 | .16108 | .26959 | .13199 | .25474 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20644 | .19926 | 1.0507 | .42570 | .20362 | .33364 | 3.1161 |
| #2 | .20617 | .19825 | 1.0463 | .42545 | .20287 | .33326 | 3.1025 |
| #3 | .20732 | .19818 | 1.0769 | .42674 | .20255 | .33276 | 3.1022 |

|        |        |        |        |        |          |        |        |
|--------|--------|--------|--------|--------|----------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895   | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    |
| Avg    | .21208 | 2.0133 | .51700 | .07418 | F 3.7796 | .31240 | .19962 |
| Stddev | .00026 | .0737  | .00209 | .00124 | .0114    | .00068 | .00065 |
| %RSD   | .12232 | 3.6600 | .40361 | 1.6655 | .30192   | .21846 | .32499 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21189 | 2.0525 | .51938 | .07282 | 3.7888 | .31266 | .20037 |
| #2 | .21198 | 1.9283 | .51613 | .07448 | 3.7830 | .31163 | .19932 |
| #3 | .21238 | 2.0590 | .51549 | .07524 | 3.7668 | .31292 | .19918 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 10.286 | .39555 | .29450 | F .00302 | .92192 | .66477 | .19766 |
| Stddev | .057   | .00063 | .01796 | .00158   | .00867 | .00122 | .00215 |
| %RSD   | .55074 | .15986 | 6.0991 | 52.426   | .94067 | .18385 | 1.0856 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.221 | .39540 | .31487 | .00126 | .92318 | .66341 | .19521 |
| #2 | 10.318 | .39500 | .28096 | .00433 | .92989 | .66514 | .19921 |
| #3 | 10.320 | .39624 | .28767 | .00346 | .91268 | .66577 | .19856 |

Sample Name: PB118138BS      Acquired: 3/27/2019 14:54:22      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .22311 | F 5.496 | .20330 | F 2.4946 | F<.00000 |
| Stddev | .00120 | .026    | .00070 | .1147    | 27.421   |
| %RSD   | .54005 | .4718   | .34327 | 4.5981   | 10.315   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .22436 | 5.467 | .20262 | 2.6068 | -235.49 |
| #2 | .22301 | 5.514 | .20401 | 2.3775 | -273.22 |
| #3 | .22196 | 5.509 | .20327 | 2.4994 | -288.83 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2918.0 | 53788. | 3027.4 | 43.633 | 3859.3 |
| Stddev    | 7.3    | 88.    | 19.6   | .386   | 14.7   |
| %RSD      | .24860 | .16409 | .64739 | .88536 | .38160 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2914.2 | 53759. | 3025.3 | 44.067 | 3846.2 |
| #2 | 2913.4 | 53718. | 3008.8 | 43.508 | 3856.6 |
| #3 | 2926.3 | 53887. | 3047.9 | 43.325 | 3875.3 |

Sample Name: PB118237BL      Acquired: 3/27/2019 14:58:29      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00004   | .00008  | -.00018 | .00193  | .00071   | -.02402 | -.00041 | -.00004  |
| Stddev | .00177   | .00122  | .00122  | .00207  | .00131   | .01109  | .00084  | .00004   |
| %RSD   | 4975.6   | 1547.4  | 693.05  | 106.84  | 183.74   | 46.171  | 206.26  | 86.650   |
| #1     | .00011   | .00147  | -.00083 | .00334  | .00124   | -.03682 | -.00104 | -.00008  |
| #2     | .00176   | -.00081 | .00124  | .00290  | -.00078  | -.01743 | .00055  | -.00005  |
| #3     | -.00177  | -.00042 | -.00094 | -.00044 | .00168   | -.01780 | -.00073 | -.00000  |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247   | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00005   | .00192  | .00028  | -.00031 | .00077   | -.00602 | -.00040 | .06207   |
| Stddev | .00015   | .02821  | .00048  | .00020  | .00027   | .00103  | .00008  | .03262   |
| %RSD   | 288.33   | 1467.6  | 173.91  | 65.145  | 35.055   | 17.085  | 20.929  | 52.554   |
| #1     | .00017   | -.01974 | .00082  | -.00009 | .00053   | -.00586 | -.00030 | .05435   |
| #2     | -.00011  | -.00831 | .00008  | -.00034 | .00106   | -.00508 | -.00046 | .03401   |
| #3     | .00010   | .03382  | -.00008 | -.00049 | .00072   | -.00712 | -.00042 | .09786   |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138   | K_7664  | Mo2020  | B_2496   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00120   | -.00006 | .49597  | .00004  | -.00023  | .14605  | -.00026 | .00600   |
| Stddev | .00068   | .00053  | .02772  | .00067  | .00001   | .04450  | .00014  | .01312   |
| %RSD   | 56.347   | 946.20  | 5.5884  | 1729.8  | 5.0755   | 30.469  | 52.941  | 218.79   |
| #1     | .00046   | -.00067 | .51408  | -.00011 | -.00023  | .18235  | -.00023 | .02071   |
| #2     | .00178   | .00030  | .50977  | .00077  | -.00025  | .09640  | -.00041 | .00176   |
| #3     | .00137   | .00020  | .46406  | -.00054 | -.00023  | .15940  | -.00014 | -.00448  |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707   | P_1774  | Sr4077  | U_3670   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | F .00762 | .00076  | .00000  | .00016  | F .00807 | -.0020  | .00001  | F 2.0651 |
| Stddev | .00271   | .00260  | .00049  | .00265  | .00063   | .0019   | .00006  | .1615    |
| %RSD   | 35.600   | 342.07  | 10727.  | 1610.6  | 7.8012   | 96.55   | 732.41  | 7.8189   |
| #1     | .00696   | -.00182 | -.00022 | .00219  | .00737   | -.0035  | .00005  | 2.1265   |
| #2     | .01060   | .00337  | -.00033 | .00115  | .00857   | .0002   | -.00005 | 1.8819   |
| #3     | .00530   | .00073  | .00056  | -.00284 | .00828   | -.0027  | .00002  | 2.1869   |

Sample Name: PB118237BL      Acquired: 3/27/2019 14:58:29      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 31.712  
Stddev      51.842  
%RSD      163.48

#1      58.219  
#2      64.941  
#3      -28.024

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2923.6 | 53920. | 3027.5 | 43.956 | 3927.1 |
| Stddev    | 5.2    | 191.   | 8.2    | 1.750  | 6.7    |
| %RSD      | .17658 | .35453 | .27041 | 3.9807 | .17094 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2921.9 | 53715. | 3018.1 | 43.000 | 3924.5 |
| #2 | 2919.5 | 54093. | 3032.3 | 42.892 | 3922.2 |
| #3 | 2929.4 | 53953. | 3032.2 | 45.975 | 3934.8 |

Sample Name: PB118237BS      Acquired: 3/27/2019 15:07:03      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79975 | 2.0520 | 1.0075 | 2.0092 | .80542 | 2.0360 | .20885 |
| Stddev | .00299 | .0087  | .0012  | .0080  | .00283 | .0166  | .00137 |
| %RSD   | .37331 | .42218 | .11498 | .39616 | .35098 | .81426 | .65632 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .79709 | 2.0431 | 1.0068 | 2.0021 | .80230 | 2.0338 | .20763 |
| #2 | .80298 | 2.0523 | 1.0089 | 2.0076 | .80781 | 2.0535 | .21034 |
| #3 | .79917 | 2.0605 | 1.0069 | 2.0178 | .80615 | 2.0205 | .20859 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20834 | .19979 | 1.0612 | .43050 | .20390 | .33573 | 3.1494 |
| Stddev | .00018 | .00022 | .0134  | .00069 | .00104 | .00153 | .0030  |
| %RSD   | .08759 | .11011 | 1.2597 | .16102 | .51020 | .45512 | .09394 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20846 | .19961 | 1.0462 | .42970 | .20271 | .33548 | 3.1485 |
| #2 | .20842 | .20003 | 1.0657 | .43080 | .20460 | .33736 | 3.1470 |
| #3 | .20813 | .19972 | 1.0719 | .43099 | .20440 | .33434 | 3.1527 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21446 | 2.0723 | .51995 | .07445 | 3.2766 | .31473 | .20084 |
| Stddev | .00027 | .1554  | .00072 | .00048 | .0202  | .00116 | .00082 |
| %RSD   | .12492 | 7.4977 | .13872 | .65083 | .61742 | .36742 | .40594 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21477 | 1.9723 | .51919 | .07403 | 3.2533 | .31354 | .20005 |
| #2 | .21428 | 2.2513 | .52063 | .07498 | 3.2898 | .31585 | .20168 |
| #3 | .21434 | 1.9932 | .52003 | .07435 | 3.2868 | .31479 | .20078 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.349 | .40225 | .32763 | F -.00027 | .92537 | .67192 | .20025 |
| Stddev | .099   | .00075 | .00738 | .00070    | .00218 | .00186 | .00310 |
| %RSD   | .95793 | .18557 | 2.2514 | 262.22    | .23538 | .27738 | 1.5474 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.276 | .40151 | .33373 | -.00083 | .92288 | .67336 | .19724 |
| #2 | 10.462 | .40300 | .32974 | -.00049 | .92695 | .66982 | .20343 |
| #3 | 10.309 | .40223 | .31943 | .00052  | .92627 | .67259 | .20007 |



Sample Name: PB118237BS      Acquired: 3/27/2019 15:07:03      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .21272 | F 5.516 | .20372 | F 2.4913 | F<.00000 |
| Stddev    | .00050 | .028    | .00111 | .1892    | 17.023   |
| %RSD      | .23656 | .5117   | .54276 | 7.5934   | 5.9154   |
| #1        | .21263 | 5.501   | .20426 | 2.6015   | -301.40  |
| #2        | .21326 | 5.499   | .20445 | 2.5994   | -268.69  |
| #3        | .21227 | 5.549   | .20245 | 2.2728   | -293.22  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2906.2 | 53598.  | 3049.5 | 44.314   | 3866.7   |
| Stddev    | 4.8    | 207.    | 17.2   | .364     | 4.4      |
| %RSD      | .16663 | .38557  | .56373 | .82107   | .11376   |
| #1        | 2911.4 | 53736.  | 3030.9 | 44.125   | 3871.8   |
| #2        | 2901.8 | 53360.  | 3052.8 | 44.083   | 3863.8   |
| #3        | 2905.4 | 53697.  | 3064.8 | 44.733   | 3864.6   |

Sample Name: K2026-01      Acquired: 3/27/2019 15:24:47      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00360 | -.00067 | .01053 | .00036 | -.00106 | .00170 | -.00147 | .00002 |
| Stddev | .00063  | .00070  | .00026 | .00062 | .00091  | .00850 | .00037  | .00004 |
| %RSD   | 17.614  | 103.75  | 2.4768 | 170.56 | 86.539  | 499.05 | 25.284  | 211.75 |

|    |         |         |        |         |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.00289 | -.00013 | .01027 | -.00035 | -.00015 | .00421  | -.00190 | -.00002 |
| #2 | -.00378 | -.00043 | .01054 | .00079  | -.00198 | -.00777 | -.00126 | .00007  |
| #3 | -.00412 | -.00147 | .01079 | .00065  | -.00104 | .00867  | -.00125 | .00002  |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00020 | .21140 | .00049 | .00002 | .07188 | .01226 | .00017 | .00823 |
| Stddev | .00003 | .00821 | .00079 | .00005 | .00014 | .00098 | .00006 | .05566 |
| %RSD   | 16.535 | 3.8849 | 159.38 | 320.63 | .19074 | 7.9558 | 33.133 | 676.31 |

|    |        |        |         |         |        |        |        |         |
|----|--------|--------|---------|---------|--------|--------|--------|---------|
| #1 | .00017 | .20879 | .00114  | -.00004 | .07192 | .01277 | .00016 | .02226  |
| #2 | .00020 | .20481 | .00072  | .00006  | .07199 | .01114 | .00024 | .05553  |
| #3 | .00023 | .22060 | -.00038 | .00002  | .07173 | .01289 | .00012 | -.05310 |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .02024 | -.00047 | .51676 | -.00027 | .13552 | .37274 | -.00013 | .01535 |
| Stddev | .00065 | .00073  | .01277 | .00015  | .00032 | .01704 | .00048  | .01169 |
| %RSD   | 3.1923 | 155.56  | 2.4718 | 55.307  | .23791 | 4.5706 | 378.74  | 76.152 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .02018 | .00037  | .53020 | -.00011 | .13529 | .36947 | -.00052 | .02042 |
| #2 | .02092 | -.00080 | .50477 | -.00040 | .13589 | .35758 | .00041  | .00198 |
| #3 | .01963 | -.00098 | .51530 | -.00032 | .13539 | .39118 | -.00028 | .02364 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01365 | 2.6715 | -.00030 | -.00061 | -.00336 | .0046  | .00041 | 1.2126 |
| Stddev | .00241 | .0440  | .00058  | .00163  | .00210  | .0024  | .00004 | .3010  |
| %RSD   | 17.688 | 1.6485 | 191.19  | 267.64  | 62.576  | 52.00  | 9.6283 | 24.826 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | .01103 | 2.7020 | -.00096 | .00028  | -.00205 | .0060 | .00045 | .99310 |
| #2 | .01412 | 2.6915 | -.00004 | .00038  | -.00578 | .0059 | .00041 | 1.0888 |
| #3 | .01579 | 2.6210 | .00009  | -.00249 | -.00224 | .0018 | .00037 | 1.5557 |

Sample Name: K2026-01      Acquired: 3/27/2019 15:24:47      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 32.726 |
| Stddev | 14.941 |
| %RSD   | 45.655 |

|    |        |
|----|--------|
| #1 | 49.661 |
| #2 | 21.409 |
| #3 | 27.106 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3012.9 | 55262. | 3165.0 | 44.719 | 4089.3 |
| Stddev    | 4.7    | 92.    | 48.0   | .248   | 5.4    |
| %RSD      | .15434 | .16709 | 1.5167 | .55478 | .13221 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3013.8 | 55182. | 3143.4 | 44.850 | 4086.8 |
| #2 | 3017.0 | 55363. | 3131.6 | 44.875 | 4095.5 |
| #3 | 3007.8 | 55242. | 3220.0 | 44.433 | 4085.7 |

Sample Name: K2026-02      Acquired: 3/27/2019 15:29:13      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00044 | -.00026 | .00712 | -.00425 | -.00196 | .00356 | .00136 | -.00006 |
| Stddev | .00124  | .00050  | .00023 | .00308  | .00108  | .01266 | .00015 | .00012  |
| %RSD   | 283.34  | 187.44  | 3.2001 | 72.439  | 55.027  | 355.49 | 10.721 | 189.41  |

|    |         |         |        |         |         |         |        |         |
|----|---------|---------|--------|---------|---------|---------|--------|---------|
| #1 | -.00175 | -.00072 | .00730 | -.00133 | -.00123 | .01807  | .00129 | .00004  |
| #2 | -.00030 | .00026  | .00686 | -.00396 | -.00145 | -.00206 | .00125 | -.00019 |
| #3 | .00073  | -.00033 | .00719 | -.00746 | -.00319 | -.00532 | .00152 | -.00004 |

|        |        |        |        |         |        |        |        |         |
|--------|--------|--------|--------|---------|--------|--------|--------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00004 | .13109 | .00119 | -.00038 | .05038 | .01424 | .00109 | -.01879 |
| Stddev | .00008 | .03380 | .00013 | .00016  | .00025 | .00102 | .00002 | .05864  |
| %RSD   | 183.72 | 25.780 | 10.929 | 40.817  | .49790 | 7.1654 | 1.7769 | 312.05  |

|    |         |        |        |         |        |        |        |         |
|----|---------|--------|--------|---------|--------|--------|--------|---------|
| #1 | .00009  | .13664 | .00108 | -.00021 | .05009 | .01307 | .00112 | .01871  |
| #2 | .00008  | .09487 | .00115 | -.00043 | .05055 | .01472 | .00108 | -.08637 |
| #3 | -.00005 | .16177 | .00133 | -.00051 | .05049 | .01493 | .00108 | .01128  |

|        |        |         |        |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .01195 | -.00025 | .22766 | .00011 | .10071 | .10310 | -.00006 | .02455 |
| Stddev | .00030 | .00089  | .01511 | .00069 | .00027 | .01960 | .00020  | .00330 |
| %RSD   | 2.5149 | 358.14  | 6.6353 | 621.73 | .26824 | 19.007 | 330.92  | 13.429 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .01204 | -.00082 | .21207 | .00069  | .10099 | .12535 | .00013  | .02644 |
| #2 | .01161 | .00078  | .22867 | .00029  | .10070 | .09554 | -.00026 | .02075 |
| #3 | .01220 | -.00071 | .24223 | -.00065 | .10045 | .08841 | -.00004 | .02648 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01697 | 1.9632 | -.00035 | -.00200 | -.00513 | .0032  | .00143 | .75973 |
| Stddev | .00270 | .0323  | .00096  | .00147  | .00116  | .0011  | .00006 | .26332 |
| %RSD   | 15.897 | 1.6477 | 271.28  | 73.335  | 22.552  | 35.13  | 4.2867 | 34.660 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | .01696 | 1.9579 | -.00053 | -.00033 | -.00394 | .0040 | .00136 | .76676 |
| #2 | .01968 | 1.9978 | .00068  | -.00261 | -.00625 | .0019 | .00148 | .49297 |
| #3 | .01428 | 1.9338 | -.00121 | -.00306 | -.00521 | .0036 | .00146 | 1.0195 |

Sample Name: K2026-02      Acquired: 3/27/2019 15:29:13      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      27.804  
 Stddev      30.316  
 %RSD      109.04

#1      51.036  
 #2      -6.4903  
 #3      38.865

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2998.3 | 55245. | 3160.1 | 45.147 | 4077.6 |
| Stddev    | 5.5    | 138.   | 23.3   | .963   | 5.9    |
| %RSD      | .18180 | .24919 | .73691 | 2.1338 | .14513 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3004.4 | 55092. | 3157.1 | 44.208 | 4077.6 |
| #2 | 2996.6 | 55358. | 3138.5 | 45.100 | 4071.6 |
| #3 | 2993.9 | 55285. | 3184.8 | 46.133 | 4083.5 |

Sample Name: K2032-10      Acquired: 3/27/2019 15:33:39      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00066   | .00034  | .00251  | .00211  | -.00081 | -.03482 | .00344  | -.00002 |
| Stddev | .00207   | .00079  | .00063  | .00061  | .00079  | .01092  | .00077  | .00008  |
| %RSD   | 316.52   | 232.10  | 25.045  | 28.960  | 97.424  | 31.358  | 22.308  | 351.96  |
| #1     | -.00098  | .00095  | .00230  | .00177  | -.00099 | -.04738 | .00362  | -.00005 |
| #2     | .00299   | .00063  | .00202  | .00282  | -.00149 | -.02957 | .00260  | .00007  |
| #3     | -.00004  | -.00055 | .00322  | .00175  | .00005  | -.02752 | .00410  | -.00009 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00020   | 11.723  | -.00073 | -.00016 | .00084  | -.00830 | .00170  | 27.698  |
| Stddev | .00017   | .033    | .00006  | .00026  | .00026  | .00128  | .00005  | .230    |
| %RSD   | 84.027   | .28000  | 7.7052  | 166.05  | 30.684  | 15.480  | 2.6945  | .82879  |
| #1     | .00018   | 11.751  | -.00079 | -.00041 | .00058  | -.00713 | .00175  | 27.594  |
| #2     | .00037   | 11.687  | -.00070 | .00011  | .00086  | -.00967 | .00165  | 27.539  |
| #3     | .00004   | 11.731  | -.00069 | -.00016 | .00109  | -.00809 | .00171  | 27.961  |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00196  | .00001  | 226.37  | -.00055 | .00074  | 8.9690  | -.00005 | .08766  |
| Stddev | .00008   | .00030  | .64     | .00013  | .00009  | .0853   | .00016  | .01276  |
| %RSD   | 4.1076   | 2372.4  | .28265  | 23.687  | 11.957  | .95148  | 338.53  | 14.560  |
| #1     | -.00195  | -.00014 | 227.02  | -.00042 | .00064  | 8.9568  | -.00022 | .09662  |
| #2     | -.00204  | .00036  | 225.74  | -.00068 | .00078  | 8.8904  | -.00001 | .09332  |
| #3     | -.00188  | -.00018 | 226.36  | -.00055 | .00081  | 9.0597  | .00009  | .07305  |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | F 19.497 | .30567  | -.00672 | .00095  | .01049  | .0038   | .16985  | 4.0051  |
| Stddev | .199     | .00292  | .00084  | .00240  | .00158  | .0032   | .00061  | .1988   |
| %RSD   | 1.0186   | .95403  | 12.476  | 253.00  | 15.107  | 82.86   | .36029  | 4.9647  |
| #1     | 19.324   | .30744  | -.00579 | .00051  | .00989  | .0012   | .16958  | 3.9258  |
| #2     | 19.454   | .30726  | -.00743 | .00354  | .00929  | .0074   | .16943  | 4.2313  |
| #3     | 19.714   | .30230  | -.00693 | -.00120 | .01229  | .0030   | .17056  | 3.8581  |

Sample Name: K2032-10      Acquired: 3/27/2019 15:33:39      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 85.728 |
| Stddev | 29.413 |
| %RSD   | 34.310 |

|    |        |
|----|--------|
| #1 | 94.201 |
| #2 | 109.97 |
| #3 | 53.008 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2781.0 | 51154. | 3039.2 | 42.631 | 3521.2 |
| Stddev    | 4.1    | 128.   | 24.4   | 1.244  | 16.4   |
| %RSD      | .14633 | .24977 | .80381 | 2.9183 | .46552 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2778.3 | 51050. | 3033.4 | 41.208 | 3527.4 |
| #2 | 2785.7 | 51116. | 3018.2 | 43.169 | 3533.5 |
| #3 | 2779.1 | 51297. | 3066.0 | 43.515 | 3502.6 |

Sample Name: K2035-16      Acquired: 3/27/2019 15:38:03      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00241 | .00050 | .00151 | .00193 | -.00144 | -.03036 | .00274 | .00006 |
| Stddev | .00091 | .00073 | .00001 | .00520 | .00164  | .00697  | .00120 | .00004 |
| %RSD   | 37.642 | 143.83 | .47559 | 269.64 | 113.61  | 22.962  | 43.581 | 61.363 |

|    |        |         |        |         |         |         |        |        |
|----|--------|---------|--------|---------|---------|---------|--------|--------|
| #1 | .00277 | .00092  | .00152 | .00791  | -.00333 | -.03757 | .00331 | .00011 |
| #2 | .00308 | -.00033 | .00150 | -.00149 | -.00039 | -.02983 | .00137 | .00005 |
| #3 | .00138 | .00092  | .00151 | -.00063 | -.00061 | -.02366 | .00355 | .00003 |

|        |        |        |         |         |        |         |        |        |
|--------|--------|--------|---------|---------|--------|---------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00025 | 9.3217 | -.00015 | -.00015 | .00055 | -.00784 | .00171 | 19.676 |
| Stddev | .00003 | .1080  | .00052  | .00013  | .00005 | .00125  | .00004 | .182   |
| %RSD   | 13.598 | 1.1591 | 346.44  | 86.579  | 9.5415 | 15.945  | 2.1171 | .92388 |

|    |        |        |         |         |        |         |        |        |
|----|--------|--------|---------|---------|--------|---------|--------|--------|
| #1 | .00024 | 9.1976 | .00037  | -.00026 | .00053 | -.00911 | .00175 | 19.613 |
| #2 | .00022 | 9.3727 | -.00067 | -.00019 | .00051 | -.00661 | .00170 | 19.534 |
| #3 | .00028 | 9.3948 | -.00015 | -.00001 | .00061 | -.00781 | .00169 | 19.881 |

|        |         |        |        |         |        |        |        |        |
|--------|---------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00123 | .00021 | 161.27 | -.00048 | .00020 | 6.3159 | .00020 | .06847 |
| Stddev | .00026  | .00073 | .66    | .00071  | .00009 | .0644  | .00017 | .02518 |
| %RSD   | 20.977  | 353.26 | .40816 | 146.48  | 45.590 | 1.0195 | 84.868 | 36.772 |

|    |         |         |        |         |        |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00094 | .00088  | 161.47 | -.00112 | .00030 | 6.2420 | .00002 | .06711 |
| #2 | -.00138 | -.00057 | 160.53 | -.00061 | .00013 | 6.3596 | .00024 | .04400 |
| #3 | -.00139 | .00030  | 161.80 | .00028  | .00016 | 6.3461 | .00035 | .09430 |

|        |          |        |         |         |        |        |        |        |
|--------|----------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 14.051 | .32219 | -.00493 | -.00068 | .00942 | .0029  | .12587 | 3.2604 |
| Stddev | .214     | .00434 | .00046  | .00246  | .00265 | .0003  | .00111 | .2288  |
| %RSD   | 1.5244   | 1.3474 | 9.3610  | 360.27  | 28.160 | 11.87  | .87886 | 7.0176 |

|    |        |        |         |         |        |       |        |        |
|----|--------|--------|---------|---------|--------|-------|--------|--------|
| #1 | 13.892 | .31743 | -.00444 | .00213  | .01201 | .0031 | .12473 | 3.2376 |
| #2 | 13.967 | .32323 | -.00536 | -.00177 | .00954 | .0030 | .12694 | 3.4997 |
| #3 | 14.294 | .32593 | -.00499 | -.00241 | .00671 | .0025 | .12594 | 3.0438 |



Sample Name: K2035-16      Acquired: 3/27/2019 15:38:03      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 89.630 |
| Stddev | 42.967 |
| %RSD   | 47.938 |

|    |        |
|----|--------|
| #1 | 81.451 |
| #2 | 136.10 |
| #3 | 51.341 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2815.7 | 52006. | 3039.3 | 43.411 | 3597.8 |
| Stddev    | 5.5    | 154.   | 34.1   | .646   | 27.0   |
| %RSD      | .19391 | .29661 | 1.1220 | 1.4882 | .75055 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2821.9 | 51873. | 3032.7 | 43.187 | 3613.0 |
| #2 | 2813.2 | 51970. | 3009.0 | 44.140 | 3613.8 |
| #3 | 2811.9 | 52175. | 3076.2 | 42.907 | 3566.6 |

Sample Name: CCV03      Acquired: 3/27/2019 15:42:28      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.0556 | 5.0958 | 5.0368 | 4.9666 | 5.0244 | 10.176 | 10.258 | .25287   |
| Stddev | .0080  | .0204  | .0145  | .0079  | .0048  | .027   | .066   | .00058   |
| %RSD   | .15823 | .40056 | .28750 | .15887 | .09643 | .26198 | .64333 | .23066   |
| #1     | 5.0643 | 5.1169 | 5.0410 | 4.9757 | 5.0290 | 10.147 | 10.289 | .25300   |
| #2     | 5.0541 | 5.0761 | 5.0207 | 4.9624 | 5.0249 | 10.200 | 10.302 | .25337   |
| #3     | 5.0485 | 5.0944 | 5.0488 | 4.9618 | 5.0193 | 10.180 | 10.182 | .25223   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.5166 | 24.916 | 1.0245 | 2.5059 | 1.2891 | 4.9063 | 2.5276 | 25.197   |
| Stddev | .0083  | .165   | .0071  | .0073  | .0015  | .0315  | .0078  | .105     |
| %RSD   | .32861 | .66323 | .69399 | .29351 | .11649 | .64251 | .30888 | .41621   |
| #1     | 2.5195 | 24.899 | 1.0290 | 2.5084 | 1.2887 | 4.9365 | 2.5350 | 25.090   |
| #2     | 2.5073 | 24.760 | 1.0283 | 2.4976 | 1.2878 | 4.9088 | 2.5283 | 25.202   |
| #3     | 2.5230 | 25.089 | 1.0164 | 2.5116 | 1.2907 | 4.8736 | 2.5194 | 25.300   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.5375 | 1.2573 | 24.861 | 2.5090 | 2.5229 | 25.350 | 5.0800 | 5.0882   |
| Stddev | .0093  | .0042  | .140   | .0075  | .0063  | .154   | .0015  | .0080    |
| %RSD   | .36822 | .33469 | .56224 | .29796 | .24827 | .60789 | .02976 | .15740   |
| #1     | 2.5367 | 1.2580 | 24.961 | 2.5153 | 2.5273 | 25.361 | 5.0811 | 5.0802   |
| #2     | 2.5286 | 1.2527 | 24.920 | 2.5111 | 2.5157 | 25.498 | 5.0783 | 5.0883   |
| #3     | 2.5473 | 1.2610 | 24.701 | 2.5007 | 2.5255 | 25.190 | 5.0807 | 5.0962   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0776 | 4.9843 | 5.0406 | 5.1118 | 4.9783 | 5.103  | 5.1341 | F 3.9980 |
| Stddev | .0230  | .0246  | .0190  | .0355  | .0086  | .021   | .0095  | .4619    |
| %RSD   | .45363 | .49464 | .37645 | .69542 | .17293 | .4187  | .18598 | 11.552   |
| #1     | 5.1038 | 5.0060 | 5.0375 | 5.0789 | 4.9876 | 5.127  | 5.1444 | 4.3184   |
| #2     | 5.0687 | 4.9575 | 5.0234 | 5.1071 | 4.9767 | 5.093  | 5.1323 | 4.2071   |
| #3     | 5.0604 | 4.9894 | 5.0610 | 5.1495 | 4.9706 | 5.088  | 5.1256 | 3.4686   |

Sample Name: CCV03      Acquired: 3/27/2019 15:42:28      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 55.637  
Stddev      24.782  
%RSD      44.541

#1      67.831  
#2      27.121  
#3      71.960

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2793.7 | 51928. | 3034.5 | 41.428 | 3490.3 |
| Stddev    | 4.3    | 268.   | 14.5   | .157   | 13.7   |
| %RSD      | .15413 | .51704 | .47733 | .37936 | .39281 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2791.7 | 51673. | 3019.4 | 41.550 | 3484.3 |
| #2 | 2798.6 | 51902. | 3048.3 | 41.251 | 3506.0 |
| #3 | 2790.8 | 52208. | 3035.7 | 41.484 | 3480.7 |

Sample Name: CCB03      Acquired: 3/27/2019 15:46:27      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00018 | -.00077 | -.00021 | -.00234 | -.00010 | -.01022 | -.00061 | -.00006 |
| Stddev | .00209  | .00027  | .00066  | .00328  | .00162  | .01294  | .00089  | .00001  |
| %RSD   | 1130.3  | 35.588  | 311.35  | 139.98  | 1652.1  | 126.53  | 145.41  | 20.461  |

|    |         |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.00038 | -.00085 | -.00051 | -.00200 | -.00102 | .00227  | .00037  | -.00008 |
| #2 | -.00217 | -.00046 | -.00067 | -.00578 | .00177  | -.00938 | -.00137 | -.00005 |
| #3 | .00199  | -.00099 | .00055  | .00075  | -.00104 | -.02356 | -.00083 | -.00006 |

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00006 | -.00938 | .00027 | -.00016 | -.00065 | -.00621 | -.00036 | -.02493 |
| Stddev | .00003 | .00863  | .00038 | .00005  | .00025  | .00115  | .00007  | .05104  |
| %RSD   | 45.496 | 92.037  | 139.13 | 34.877  | 38.249  | 18.501  | 19.886  | 204.74  |

|    |        |         |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00004 | -.00640 | -.00016 | -.00011 | -.00037 | -.00594 | -.00041 | .03370  |
| #2 | .00005 | -.00263 | .00045  | -.00022 | -.00085 | -.00748 | -.00028 | -.05942 |
| #3 | .00009 | -.01910 | .00053  | -.00015 | -.00073 | -.00523 | -.00039 | -.04906 |

|        |        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00095 | .00085 | .22014 | .00000 | -.00027 | .09828 | .00009 | .01134 |
| Stddev | .00066 | .00020 | .00406 | .00035 | .00004  | .04364 | .00013 | .01932 |
| %RSD   | 69.220 | 23.474 | 1.8456 | 19038. | 14.956  | 44.406 | 148.59 | 170.31 |

|    |        |        |        |         |         |        |         |         |
|----|--------|--------|--------|---------|---------|--------|---------|---------|
| #1 | .00019 | .00065 | .21633 | .00017  | -.00032 | .04916 | .00003  | -.00929 |
| #2 | .00129 | .00105 | .21966 | -.00040 | -.00027 | .13260 | .00024  | .01431  |
| #3 | .00138 | .00084 | .22442 | .00024  | -.00024 | .11307 | -.00000 | .02901  |

|        |        |        |        |         |        |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00036 | .00525 | .00207 | -.00002 | .00462 | -.0002 | .00011 | 1.4415 |
| Stddev | .00210 | .00127 | .00061 | .00128  | .00068 | .0002  | .00020 | .2193  |
| %RSD   | 577.53 | 24.132 | 29.521 | 5244.9  | 14.812 | 76.42  | 177.97 | 15.216 |

|    |         |        |        |         |        |        |         |        |
|----|---------|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00250  | .00669 | .00197 | .00094  | .00491 | -.0002 | -.00012 | 1.6454 |
| #2 | .00031  | .00477 | .00152 | .00047  | .00384 | -.0001 | .00027  | 1.4698 |
| #3 | -.00171 | .00429 | .00273 | -.00148 | .00511 | -.0004 | .00019  | 1.2094 |

Sample Name: CCB03      Acquired: 3/27/2019 15:46:27      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 35.727 |
| Stddev | 16.168 |
| %RSD   | 45.253 |

|    |        |
|----|--------|
| #1 | 41.606 |
| #2 | 17.443 |
| #3 | 48.133 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2928.5 | 54025. | 3040.2 | 44.158 | 3946.8 |
| Stddev    | 1.2    | 233.   | 15.6   | .391   | 11.7   |
| %RSD      | .04074 | .43150 | .51259 | .88575 | .29581 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2928.2 | 53757. | 3024.1 | 44.608 | 3939.8 |
| #2 | 2929.9 | 54185. | 3041.4 | 43.900 | 3960.3 |
| #3 | 2927.5 | 54131. | 3055.3 | 43.967 | 3940.3 |

Sample Name: K2026-03      Acquired: 3/27/2019 15:50:55      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00193 | .00018 | .00659 | -.00176 | -.00192 | -.00581 | .00076 | -.00009 |
| Stddev | .00183  | .00157 | .00031 | .00479  | .00021  | .02119  | .00028 | .00006  |
| %RSD   | 94.557  | 872.91 | 4.7099 | 271.25  | 10.850  | 364.71  | 36.376 | 63.440  |

|    |         |         |        |         |         |         |        |         |
|----|---------|---------|--------|---------|---------|---------|--------|---------|
| #1 | -.00244 | -.00057 | .00638 | .00331  | -.00215 | .01795  | .00097 | -.00013 |
| #2 | -.00346 | .00198  | .00645 | -.00240 | -.00184 | -.01262 | .00086 | -.00002 |
| #3 | .00010  | -.00088 | .00695 | -.00620 | -.00176 | -.02275 | .00045 | -.00011 |

|        |        |        |        |         |        |        |         |         |
|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00017 | .07326 | .00061 | -.00035 | .05375 | .01083 | -.00017 | -.01422 |
| Stddev | .00005 | .00624 | .00024 | .00008  | .00007 | .00071 | .00003  | .10824  |
| %RSD   | 27.825 | 8.5142 | 39.619 | 23.647  | .12290 | 6.5303 | 18.668  | 761.04  |

|    |        |        |        |         |        |        |         |         |
|----|--------|--------|--------|---------|--------|--------|---------|---------|
| #1 | .00023 | .07817 | .00082 | -.00042 | .05379 | .01097 | -.00015 | .10429  |
| #2 | .00013 | .07538 | .00035 | -.00037 | .05378 | .01146 | -.00015 | -.10784 |
| #3 | .00017 | .06624 | .00066 | -.00026 | .05367 | .01006 | -.00020 | -.03912 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02487 | -.00044 | .04180 | .00011 | .08106 | .07358 | .00010 | .01823 |
| Stddev | .00037 | .00070  | .00788 | .00030 | .00023 | .01200 | .00014 | .02723 |
| %RSD   | 1.4815 | 157.84  | 18.842 | 276.50 | .28231 | 16.306 | 146.40 | 149.35 |

|    |        |         |        |         |        |        |         |         |
|----|--------|---------|--------|---------|--------|--------|---------|---------|
| #1 | .02452 | .00035  | .03956 | .00036  | .08093 | .08087 | .00015  | .03155  |
| #2 | .02485 | -.00096 | .03528 | .00018  | .08092 | .05974 | -.00006 | .03623  |
| #3 | .02525 | -.00072 | .05055 | -.00022 | .08132 | .08015 | .00020  | -.01309 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00653 | .06434 | -.00060 | -.00029 | -.00576 | .0018  | .00022 | 1.7254 |
| Stddev | .00147 | .00163 | .00069  | .00316  | .00253  | .0017  | .00004 | .2585  |
| %RSD   | 22.536 | 2.5302 | 114.82  | 1103.5  | 43.950  | 92.96  | 18.862 | 14.983 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | .00549 | .06621 | -.00025 | .00233  | -.00867 | .0021 | .00019 | 1.6339 |
| #2 | .00821 | .06331 | -.00015 | .00060  | -.00414 | .0034 | .00027 | 2.0172 |
| #3 | .00589 | .06349 | -.00139 | -.00379 | -.00446 | .0000 | .00021 | 1.5251 |

Sample Name: K2026-03      Acquired: 3/27/2019 15:50:55      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      7.7758  
 Stddev      26.807  
 %RSD      344.74

#1      27.651  
 #2      -22.712  
 #3      18.388

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2952.5 | 54369. | 3083.6 | 43.453 | 4000.4 |
| Stddev    | 4.3    | 118.   | 14.4   | .721   | 6.6    |
| %RSD      | .14484 | .21705 | .46643 | 1.6600 | .16378 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2952.8 | 54364. | 3067.7 | 42.658 | 3997.4 |
| #2 | 2948.1 | 54253. | 3087.2 | 44.067 | 4007.9 |
| #3 | 2956.7 | 54489. | 3095.8 | 43.633 | 3995.9 |

Sample Name: K1981-02      Acquired: 3/27/2019 15:55:23      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00133 | -.00055 | .00787 | .00094 | -.00044 | .15419 | .03505 | -.00007 |
| Stddev | .00093 | .00037  | .00036 | .00117 | .00295  | .01293 | .00051 | .00005  |
| %RSD   | 70.024 | 66.674  | 4.5877 | 125.07 | 675.37  | 8.3870 | 1.4532 | 73.632  |

|    |        |         |        |         |         |        |        |         |
|----|--------|---------|--------|---------|---------|--------|--------|---------|
| #1 | .00218 | -.00094 | .00827 | .00087  | -.00126 | .14307 | .03463 | -.00011 |
| #2 | .00033 | -.00051 | .00778 | -.00020 | -.00289 | .16838 | .03562 | -.00001 |
| #3 | .00149 | -.00021 | .00756 | .00214  | .00284  | .15111 | .03490 | -.00011 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00073 | 51.872 | .03944 | .00201 | .75511 | .79830 | .08212 | 4.0103 |
| Stddev | .00006 | .197   | .00211 | .00019 | .00069 | .00568 | .00043 | .0817  |
| %RSD   | 8.6181 | .37904 | 5.3483 | 9.4192 | .09128 | .71213 | .51938 | 2.0368 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00075 | 52.090 | .04174 | .00188 | .75586 | .80418 | .08260 | 3.9495 |
| #2 | .00078 | 51.708 | .03900 | .00222 | .75451 | .79283 | .08177 | 3.9784 |
| #3 | .00066 | 51.819 | .03759 | .00192 | .75496 | .79788 | .08200 | 4.1032 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .04095 | .11334 | 73.730 | .00039 | .26130 | 13.641 | .00069 | .19221 |
| Stddev | .00045 | .00088 | .550   | .00040 | .00089 | .097   | .00044 | .02566 |
| %RSD   | 1.0924 | .77461 | .74570 | 101.08 | .33983 | .70774 | 64.713 | 13.349 |

|    |        |        |        |         |        |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|--------|
| #1 | .04146 | .11433 | 73.143 | .00040  | .26224 | 13.562 | .00112 | .20139 |
| #2 | .04075 | .11303 | 73.813 | -.00001 | .26117 | 13.612 | .00023 | .21201 |
| #3 | .04064 | .11266 | 74.233 | .00079  | .26048 | 13.749 | .00071 | .16322 |

|        |        |        |         |        |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.4327 | 2.8477 | -.00014 | .00232 | .00022 | 4.720  | .06515 | 2.2842 |
| Stddev | .0076  | .0365  | .00084  | .00076 | .00121 | .013   | .00045 | .4212  |
| %RSD   | .14031 | 1.2808 | 616.90  | 32.750 | 540.21 | .2647  | .69356 | 18.441 |

|    |        |        |         |        |         |       |        |        |
|----|--------|--------|---------|--------|---------|-------|--------|--------|
| #1 | 5.4407 | 2.8882 | -.00068 | .00258 | .00112  | 4.732 | .06525 | 1.7978 |
| #2 | 5.4320 | 2.8174 | -.00056 | .00147 | .00070  | 4.719 | .06554 | 2.5295 |
| #3 | 5.4255 | 2.8374 | .00083  | .00292 | -.00115 | 4.707 | .06465 | 2.5252 |



Sample Name: K1981-02      Acquired: 3/27/2019 15:55:23      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 50.761 |
| Stddev | 29.254 |
| %RSD   | 57.631 |

|    |        |
|----|--------|
| #1 | 75.108 |
| #2 | 18.309 |
| #3 | 58.866 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2855.7 | 53331. | 3198.3 | 44.481 | 3741.4 |
| Stddev    | 3.1    | 300.   | 12.5   | 1.080  | 9.6    |
| %RSD      | .10909 | .56163 | .39233 | 2.4283 | .25557 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2857.7 | 53671. | 3184.6 | 44.813 | 3734.3 |
| #2 | 2857.2 | 53212. | 3201.1 | 43.274 | 3752.2 |
| #3 | 2852.1 | 53109. | 3209.2 | 45.357 | 3737.5 |

Sample Name: K2072-01      Acquired: 3/27/2019 15:59:41      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00101 | .00026 | .00116 | -.00224 | -.00202 | .00238 | .00036 | -.00005 |
| Stddev | .00186  | .00109 | .00054 | .00336  | .00139  | .00962 | .00062 | .00005  |
| %RSD   | 185.29  | 426.29 | 46.952 | 150.10  | 68.709  | 404.64 | 171.70 | 108.22  |

|    |         |         |        |         |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.00038 | .00128  | .00148 | -.00600 | -.00362 | -.00380 | .00105  | -.00010 |
| #2 | .00046  | -.00090 | .00146 | .00048  | -.00134 | .01346  | .00019  | -.00002 |
| #3 | -.00310 | .00039  | .00053 | -.00120 | -.00111 | -.00252 | -.00016 | -.00002 |

|        |        |        |        |         |        |        |         |         |
|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00005 | .08369 | .00043 | -.00009 | .02265 | .01456 | -.00010 | -.01981 |
| Stddev | .00001 | .01099 | .00038 | .00014  | .00068 | .00090 | .00004  | .03666  |
| %RSD   | 14.677 | 13.129 | 87.633 | 161.49  | 3.0128 | 6.2127 | 41.170  | 185.07  |

|    |        |        |        |         |        |        |         |         |
|----|--------|--------|--------|---------|--------|--------|---------|---------|
| #1 | .00005 | .09551 | .00038 | .00006  | .02221 | .01442 | -.00008 | -.06206 |
| #2 | .00004 | .07379 | .00008 | -.00022 | .02343 | .01553 | -.00015 | -.00089 |
| #3 | .00005 | .08176 | .00084 | -.00010 | .02229 | .01374 | -.00008 | .00353  |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .03161 | -.00020 | .02638 | -.00041 | .06403 | .09970 | -.00011 | .01363 |
| Stddev | .00034 | .00023  | .01151 | .00005  | .00023 | .03544 | .00004  | .01271 |
| %RSD   | 1.0787 | 115.89  | 43.636 | 11.281  | .35386 | 35.542 | 36.558  | 93.290 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .03191 | -.00004 | .02567 | -.00044 | .06429 | .10632 | -.00013 | .00989 |
| #2 | .03167 | -.00047 | .01524 | -.00044 | .06386 | .06142 | -.00007 | .02779 |
| #3 | .03124 | -.00009 | .03822 | -.00036 | .06395 | .13136 | -.00015 | .00320 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01456 | .01006 | -.00137 | -.00027 | -.00498 | -.0007 | .00019 | 1.6829 |
| Stddev | .00515 | .00143 | .00058  | .00259  | .00147  | .0008  | .00008 | .1881  |
| %RSD   | 35.342 | 14.213 | 42.175  | 953.63  | 29.470  | 124.4  | 40.091 | 11.175 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | .02019 | .01134 | -.00132 | -.00081 | -.00587 | -.0016 | .00025 | 1.4835 |
| #2 | .01009 | .01033 | -.00198 | -.00255 | -.00578 | -.0004 | .00010 | 1.8570 |
| #3 | .01340 | .00852 | -.00082 | .00254  | -.00329 | -.0000 | .00022 | 1.7083 |

Sample Name: K2072-01      Acquired: 3/27/2019 15:59:41      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 25.868 |
| Stddev | 6.309  |
| %RSD   | 24.390 |

|    |        |
|----|--------|
| #1 | 30.825 |
| #2 | 18.766 |
| #3 | 28.012 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2974.4 | 54505. | 3102.9 | 44.664 | 4037.4 |
| Stddev    | 4.8    | 221.   | 3.4    | .605   | 7.9    |
| %RSD      | .16070 | .40619 | .10978 | 1.3544 | .19668 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2979.2 | 54619. | 3103.5 | 44.108 | 4032.9 |
| #2 | 2969.7 | 54250. | 3099.3 | 45.308 | 4032.8 |
| #3 | 2974.4 | 54646. | 3106.0 | 44.575 | 4046.6 |

Sample Name: K2072-01DUP      Acquired: 3/27/2019 16:04:07      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00017 | -.00007 | .00171 | .00087 | .00025 | -.00696 | .00047 | -.00007 |
| Stddev | .00130  | .00075  | .00054 | .00198 | .00017 | .01109  | .00032 | .00007  |
| %RSD   | 766.08  | 1102.1  | 31.749 | 227.19 | 69.622 | 159.18  | 67.917 | 104.55  |

|    |         |         |        |         |        |         |        |         |
|----|---------|---------|--------|---------|--------|---------|--------|---------|
| #1 | -.00066 | -.00018 | .00130 | .00234  | .00038 | -.00341 | .00041 | -.00015 |
| #2 | -.00116 | .00073  | .00150 | .00165  | .00005 | -.01939 | .00019 | -.00000 |
| #3 | .00131  | -.00075 | .00233 | -.00138 | .00031 | .00191  | .00081 | -.00006 |

|        |        |        |        |         |        |        |         |        |
|--------|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00003 | .08347 | .00068 | -.00015 | .02187 | .01504 | -.00015 | .02707 |
| Stddev | .00005 | .00580 | .00011 | .00024  | .00024 | .00129 | .00007  | .04388 |
| %RSD   | 147.55 | 6.9486 | 15.898 | 161.06  | 1.0769 | 8.5841 | 47.718  | 162.05 |

|    |        |        |        |         |        |        |         |        |
|----|--------|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00001 | .07734 | .00057 | -.00038 | .02181 | .01647 | -.00007 | .00241 |
| #2 | .00000 | .08420 | .00078 | -.00017 | .02213 | .01466 | -.00020 | .00108 |
| #3 | .00009 | .08887 | .00071 | .00010  | .02168 | .01398 | -.00018 | .07773 |

|        |        |         |         |         |        |        |         |         |
|--------|--------|---------|---------|---------|--------|--------|---------|---------|
| Elem   | Ni2316 | Ag3280  | Na5895  | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .03136 | -.00035 | -.01194 | -.00009 | .06474 | .08323 | -.00009 | -.00742 |
| Stddev | .00050 | .00029  | .00730  | .00034  | .00011 | .01273 | .00009  | .01733  |
| %RSD   | 1.5997 | 83.841  | 61.168  | 386.85  | .16766 | 15.297 | 101.07  | 233.42  |

|    |        |         |         |         |        |        |         |         |
|----|--------|---------|---------|---------|--------|--------|---------|---------|
| #1 | .03110 | -.00004 | -.01344 | -.00048 | .06463 | .09147 | -.00001 | -.02159 |
| #2 | .03104 | -.00039 | -.00400 | .00007  | .06474 | .08965 | -.00007 | -.01258 |
| #3 | .03194 | -.00061 | -.01837 | .00015  | .06484 | .06856 | -.00020 | .01190  |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00896 | .00592 | -.00043 | -.00081 | -.00637 | -.0003 | .00014 | 1.2149 |
| Stddev | .00215 | .00340 | .00059  | .00283  | .00170  | .0006  | .00012 | .7464  |
| %RSD   | 23.984 | 57.450 | 135.12  | 348.26  | 26.664  | 202.6  | 88.882 | 61.436 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | .00928 | .00958 | .00010  | -.00287 | -.00508 | .0004  | .00002 | 1.5444 |
| #2 | .01093 | .00531 | -.00033 | .00241  | -.00573 | -.0007 | .00027 | .36047 |
| #3 | .00667 | .00287 | -.00107 | -.00197 | -.00830 | -.0006 | .00013 | 1.7399 |

Sample Name: K2072-01DUP      Acquired: 3/27/2019 16:04:07      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 66.566 |
| Stddev | 37.550 |
| %RSD   | 56.410 |

|    |        |
|----|--------|
| #1 | 35.531 |
| #2 | 108.31 |
| #3 | 55.861 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2996.9 | 54881. | 3190.6 | 46.439 | 4073.0 |
| Stddev    | 4.8    | 641.   | 34.1   | .757   | 2.4    |
| %RSD      | .15976 | 1.1677 | 1.0685 | 1.6311 | .05914 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2991.4 | 54579. | 3151.4 | 45.617 | 4075.8 |
| #2 | 3000.1 | 55617. | 3213.3 | 47.108 | 4071.6 |
| #3 | 2999.3 | 54447. | 3207.1 | 46.592 | 4071.5 |

Sample Name: K2072-01LX5      Acquired: 3/27/2019 16:08:33      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00052 | .00016 | .00029 | -.00193 | .00099 | -.02885 | -.00109 | -.00005 |
| Stddev | .00024 | .00073 | .00034 | .00031  | .00117 | .00929  | .00195  | .00008  |
| %RSD   | 45.761 | 456.75 | 115.75 | 16.236  | 118.28 | 32.196  | 179.27  | 174.02  |

|    |        |         |        |         |         |         |         |         |
|----|--------|---------|--------|---------|---------|---------|---------|---------|
| #1 | .00077 | .00045  | .00067 | -.00222 | .00114  | -.03893 | -.00288 | -.00007 |
| #2 | .00049 | .00070  | .00018 | -.00159 | -.00025 | -.02064 | .00099  | .00004  |
| #3 | .00030 | -.00067 | .00002 | -.00197 | .00209  | -.02696 | -.00138 | -.00012 |

|        |        |        |         |         |        |         |         |         |
|--------|--------|--------|---------|---------|--------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00009 | .02307 | -.00016 | .00000  | .00423 | -.00435 | -.00056 | -.01070 |
| Stddev | .00004 | .02984 | .00024  | .00024  | .00042 | .00069  | .00006  | .06486  |
| %RSD   | 41.109 | 129.34 | 144.92  | 221520. | 9.9098 | 15.955  | 10.924  | 606.21  |

|    |        |         |         |         |        |         |         |         |
|----|--------|---------|---------|---------|--------|---------|---------|---------|
| #1 | .00005 | .01739  | -.00005 | -.00016 | .00389 | -.00367 | -.00051 | -.03287 |
| #2 | .00009 | .05533  | -.00001 | -.00012 | .00411 | -.00506 | -.00063 | .06234  |
| #3 | .00013 | -.00352 | -.00044 | .00027  | .00470 | -.00434 | -.00055 | -.06158 |

|        |        |         |        |         |        |        |        |         |
|--------|--------|---------|--------|---------|--------|--------|--------|---------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00703 | -.00037 | .13168 | -.00015 | .01349 | .12102 | .00020 | -.00767 |
| Stddev | .00071 | .00008  | .01688 | .00043  | .00015 | .02048 | .00041 | .01598  |
| %RSD   | 10.063 | 21.133  | 12.823 | 285.35  | 1.1447 | 16.925 | 205.90 | 208.36  |

|    |        |         |        |         |        |        |         |         |
|----|--------|---------|--------|---------|--------|--------|---------|---------|
| #1 | .00756 | -.00028 | .13219 | -.00046 | .01362 | .11051 | -.00021 | -.00855 |
| #2 | .00730 | -.00044 | .14830 | -.00032 | .01332 | .10792 | .00020  | .00873  |
| #3 | .00623 | -.00038 | .11455 | .00034  | .01352 | .14462 | .00062  | -.02319 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00195 | .00432 | .00064 | .00194 | .00026 | -.0014 | .00016 | 2.0690 |
| Stddev | .00073 | .00022 | .00083 | .00256 | .00093 | .0023  | .00011 | .1683  |
| %RSD   | 37.689 | 5.0540 | 129.59 | 132.29 | 358.36 | 169.3  | 71.392 | 8.1325 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | .00221 | .00438 | .00156  | -.00087 | -.00079 | -.0029 | .00020 | 2.0939 |
| #2 | .00112 | .00451 | .00044  | .00416  | .00057  | -.0025 | .00024 | 2.2235 |
| #3 | .00251 | .00408 | -.00007 | .00252  | .00100  | .0013  | .00003 | 1.8897 |

Sample Name: K2072-01LX5      Acquired: 3/27/2019 16:08:33      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      43.180  
Stddev      45.099  
%RSD      104.44

#1      92.468  
#2      33.094  
#3      3.9777

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2903.4 | 53510. | 3039.5 | 43.853 | 3925.0 |
| Stddev    | 5.5    | 186.   | 10.1   | .277   | 4.1    |
| %RSD      | .18778 | .34695 | .33145 | .63264 | .10443 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2898.4 | 53298. | 3030.6 | 43.783 | 3920.5 |
| #2 | 2902.4 | 53590. | 3037.4 | 44.158 | 3926.0 |
| #3 | 2909.2 | 53643. | 3050.4 | 43.617 | 3928.5 |

Sample Name: K2072-01MS      Acquired: 3/27/2019 16:13:01      Type: Unk  
Method: P4-ICP2(v2989)      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    | .76083 | 1.9155 | .94393 | 1.8785 | .79095 | 1.9653 | .20134 |
| Stddev | .00600 | .0144  | .00267 | .0051  | .00355 | .0005  | .00200 |
| %RSD   | .78812 | .75088 | .28240 | .27042 | .44868 | .02717 | .99367 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .76446 | 1.9320 | .94668 | 1.8838 | .79490 | 1.9651 | .20353 |
| #2 | .75391 | 1.9059 | .94375 | 1.8782 | .78993 | 1.9659 | .19962 |
| #3 | .76412 | 1.9084 | .94136 | 1.8736 | .78803 | 1.9649 | .20087 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19609 | .18541 | 1.0920 | .40731 | .19120 | .34419 | 2.9641 |
| Stddev | .00045 | .00099 | .0236  | .00216 | .00118 | .00155 | .0079  |
| %RSD   | .22827 | .53465 | 2.1642 | .53019 | .61941 | .44946 | .26697 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19633 | .18655 | 1.0760 | .40934 | .19252 | .34578 | 2.9550 |
| #2 | .19638 | .18493 | 1.1191 | .40504 | .19083 | .34269 | 2.9677 |
| #3 | .19558 | .18475 | 1.0808 | .40756 | .19024 | .34411 | 2.9695 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20224 | 2.0480 | .51822 | .06985 | 2.8425 | .29704 | .24951 |
| Stddev | .00011 | .0485  | .00251 | .00120 | .0300  | .00121 | .00147 |
| %RSD   | .05663 | 2.3687 | .48473 | 1.7121 | 1.0536 | .40775 | .58763 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20211 | 2.0667 | .52112 | .06914 | 2.8741 | .29713 | .25120 |
| #2 | .20229 | 2.0844 | .51679 | .06919 | 2.8146 | .29578 | .24874 |
| #3 | .20233 | 1.9930 | .51674 | .07123 | 2.8387 | .29820 | .24859 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.8719 | .39445 | .27518 | .01132 | .91624 | .64776 | .19410 |
| Stddev | .0239  | .00090 | .01571 | .00167 | .00487 | .00414 | .00174 |
| %RSD   | .24248 | .22919 | 5.7079 | 14.726 | .53199 | .63925 | .89619 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 9.8740 | .39485 | .29091 | .01261 | .91995 | .65224 | .19224 |
| #2 | 9.8470 | .39342 | .27515 | .00944 | .91804 | .64697 | .19438 |
| #3 | 9.8948 | .39508 | .25949 | .01191 | .91072 | .64407 | .19569 |



Sample Name: K2072-01MS      Acquired: 3/27/2019 16:13:01      Type: Unk  
Method: P4-ICP2(v2989)      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       | .18912 | 5.158  | .19316 | 1.9993 | F<.00000 |
| Stddev    | .00170 | .040   | .00097 | .1595  | 16.801   |
| %RSD      | .89764 | .7762  | .50017 | 7.9766 | 6.7405   |
| #1        | .18749 | 5.204  | .19236 | 1.9358 | -245.69  |
| #2        | .19088 | 5.139  | .19423 | 1.8813 | -267.55  |
| #3        | .18900 | 5.131  | .19288 | 2.1808 | -234.52  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2958.1 | 54676. | 3109.8 | 45.722 | 3979.4   |
| Stddev    | 5.7    | 259.   | 14.6   | .350   | 5.2      |
| %RSD      | .19288 | .47318 | .46868 | .76470 | .13001   |
| #1        | 2964.6 | 54461. | 3113.6 | 45.325 | 3973.4   |
| #2        | 2956.0 | 54963. | 3093.7 | 45.858 | 3982.4   |
| #3        | 2953.7 | 54603. | 3122.1 | 45.983 | 3982.3   |

Sample Name: K2072-01MSD      Acquired: 3/27/2019 16:17:07      Type: Unk  
Method: P4-ICP2(v2989)      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    | .76214 | 1.9173 | .94722 | 1.8755 | .78605 | 2.0008 | .20213 |
| Stddev | .00275 | .0050  | .00208 | .0067  | .00066 | .0160  | .00084 |
| %RSD   | .36052 | .26273 | .21912 | .35676 | .08398 | .79781 | .41353 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .76146 | 1.9117 | .94868 | 1.8681 | .78667 | 1.9865 | .20122 |
| #2 | .75980 | 1.9214 | .94813 | 1.8772 | .78536 | 2.0180 | .20287 |
| #3 | .76517 | 1.9188 | .94484 | 1.8812 | .78613 | 1.9979 | .20230 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19501 | .18568 | 1.1019 | .40412 | .19132 | .34448 | 2.9633 |
| Stddev | .00212 | .00018 | .0077  | .00370 | .00034 | .00048 | .0294  |
| %RSD   | 1.0874 | .09501 | .70354 | .91466 | .17685 | .14021 | .99360 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19262 | .18561 | 1.0967 | .40012 | .19145 | .34496 | 2.9302 |
| #2 | .19666 | .18554 | 1.1109 | .40740 | .19094 | .34400 | 2.9866 |
| #3 | .19576 | .18588 | 1.0982 | .40483 | .19157 | .34449 | 2.9730 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20169 | 1.9832 | .51928 | .07080 | 2.8650 | .29817 | .24984 |
| Stddev | .00179 | .0583  | .00141 | .00099 | .0056  | .00114 | .00053 |
| %RSD   | .88984 | 2.9410 | .27233 | 1.3914 | .19541 | .38299 | .21298 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19977 | 1.9374 | .52068 | .07028 | 2.8600 | .29688 | .25044 |
| #2 | .20334 | 2.0489 | .51785 | .07194 | 2.8711 | .29905 | .24943 |
| #3 | .20195 | 1.9634 | .51931 | .07019 | 2.8639 | .29857 | .24965 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.039 | .39267 | .27187 | .00941 | .91194 | .64620 | .19467 |
| Stddev | .125   | .00120 | .01780 | .00135 | .01296 | .00330 | .00254 |
| %RSD   | 1.2426 | .30479 | 6.5465 | 14.324 | 1.4207 | .51026 | 1.3072 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.001 | .39390 | .27902 | .00835 | .91426 | .64940 | .19294 |
| #2 | 10.179 | .39151 | .25161 | .00895 | .89797 | .64282 | .19349 |
| #3 | 9.9382 | .39261 | .28499 | .01093 | .92357 | .64637 | .19760 |

Sample Name: K2072-01MSD      Acquired: 3/27/2019 16:17:07      Type: Unk  
Method: P4-ICP2(v2989)      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       | .18775 | 5.145  | .19411 | 1.9140 | F<.00000 |
| Stddev    | .00151 | .016   | .00101 | .3635  | 18.919   |
| %RSD      | .80579 | .3122  | .51868 | 18.990 | 7.5600   |
| #1        | .18669 | 5.156  | .19385 | 1.6199 | -253.85  |
| #2        | .18948 | 5.152  | .19325 | 2.3204 | -267.11  |
| #3        | .18708 | 5.127  | .19522 | 1.8016 | -229.79  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2955.6 | 54840. | 3133.7 | 44.714 | 3972.5   |
| Stddev    | 5.0    | 282.   | 34.7   | 2.141  | 2.3      |
| %RSD      | .16809 | .51429 | 1.1070 | 4.7885 | .05904   |
| #1        | 2960.6 | 55141. | 3126.4 | 43.583 | 3974.4   |
| #2        | 2955.5 | 54581. | 3171.5 | 47.183 | 3973.3   |
| #3        | 2950.7 | 54799. | 3103.3 | 43.375 | 3969.9   |

Sample Name: K2072-01A      Acquired: 3/27/2019 16:21:14      Type: Unk  
Method: P4-ICP2(v2989)      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    | .78092 | 1.9629 | .97204 | 1.9299 | .80804 | 2.0578 | .20911 |
| Stddev | .00304 | .0076  | .00321 | .0098  | .00282 | .0250  | .00235 |
| %RSD   | .38991 | .38464 | .32981 | .50632 | .34846 | 1.2148 | 1.1221 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78024 | 1.9641 | .97251 | 1.9299 | .80830 | 2.0290 | .20838 |
| #2 | .78425 | 1.9698 | .97499 | 1.9397 | .81072 | 2.0699 | .20721 |
| #3 | .77828 | 1.9549 | .96863 | 1.9202 | .80511 | 2.0744 | .21173 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20092 | .19072 | 1.1204 | .41890 | .19636 | .35302 | 3.0494 |
| Stddev | .00056 | .00086 | .0119  | .00172 | .00088 | .00134 | .0081  |
| %RSD   | .28037 | .44933 | 1.0612 | .40969 | .44572 | .38052 | .26456 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20038 | .19086 | 1.1218 | .42010 | .19639 | .35351 | 3.0409 |
| #2 | .20087 | .19150 | 1.1079 | .41693 | .19723 | .35406 | 3.0502 |
| #3 | .20150 | .18980 | 1.1316 | .41966 | .19548 | .35151 | 3.0570 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20777 | 2.0773 | .53285 | .07332 | 2.9634 | .30734 | .25670 |
| Stddev | .00023 | .0200  | .00301 | .00148 | .0269  | .00258 | .00080 |
| %RSD   | .10936 | .96416 | .56566 | 2.0191 | .90789 | .83989 | .31305 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20793 | 2.0622 | .53217 | .07161 | 2.9469 | .30472 | .25677 |
| #2 | .20787 | 2.1000 | .53615 | .07417 | 2.9489 | .30743 | .25746 |
| #3 | .20751 | 2.0698 | .53024 | .07417 | 2.9945 | .30988 | .25586 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.340 | .40148 | .29259 | .00813 | .93312 | .66380 | .20387 |
| Stddev | .113   | .00009 | .00624 | .00496 | .00412 | .00137 | .00257 |
| %RSD   | 1.0933 | .02129 | 2.1333 | 61.026 | .44111 | .20578 | 1.2593 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.247 | .40142 | .28933 | .00344 | .92870 | .66531 | .20569 |
| #2 | 10.307 | .40157 | .28866 | .00762 | .93685 | .66266 | .20498 |
| #3 | 10.466 | .40144 | .29979 | .01332 | .93382 | .66342 | .20093 |

Sample Name: K2072-01A      Acquired: 3/27/2019 16:21:14      Type: Unk  
Method: P4-ICP2(v2989)      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       | .19351 | 5.280  | .19779 | 2.8070 | F<.00000 |
| Stddev    | .00123 | .021   | .00051 | .3393  | 18.813   |
| %RSD      | .63666 | .3972  | .25951 | 12.088 | 6.8560   |
| #1        | .19225 | 5.272  | .19832 | 3.0390 | -292.20  |
| #2        | .19358 | 5.304  | .19730 | 2.4176 | -254.72  |
| #3        | .19471 | 5.265  | .19775 | 2.9645 | -276.28  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2891.7 | 53397. | 3089.2 | 45.319 | 3878.9   |
| Stddev    | 2.9    | 227.   | 32.2   | .645   | 2.8      |
| %RSD      | .09967 | .42417 | 1.0424 | 1.4226 | .07169   |
| #1        | 2893.5 | 53459. | 3054.1 | 45.392 | 3881.6   |
| #2        | 2893.1 | 53587. | 3096.2 | 44.642 | 3879.2   |
| #3        | 2888.3 | 53146. | 3117.3 | 45.925 | 3876.0   |

Sample Name: LR CHECK 1      Acquired: 3/27/2019 16:26:43      Type: Unk  
Method: P4-ICP2(v2989)      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    | .06369 | .07906 | -.10239 | .44023 | -.01462 | 2180.4 | -.00499 | -.05520 |
| Stddev | .00460 | .00518 | .00284  | .00431 | .00520  | 8.5    | .00054  | .00098  |
| %RSD   | 7.2215 | 6.5506 | 2.7733  | .97792 | 35.599  | .38835 | 10.893  | 1.7685  |

|    |        |        |         |        |         |        |         |         |
|----|--------|--------|---------|--------|---------|--------|---------|---------|
| #1 | .06236 | .07452 | -.10121 | .44014 | -.02041 | 2176.1 | -.00562 | -.05621 |
| #2 | .06881 | .07797 | -.10563 | .43597 | -.01032 | 2190.1 | -.00467 | -.05512 |
| #3 | .05991 | .08470 | -.10034 | .44458 | -.01313 | 2174.9 | -.00469 | -.05426 |

|        |         |        |         |        |        |        |        |        |
|--------|---------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Cd2265  | Ca3736 | Cr2677  | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00635 | 1938.9 | -.10932 | .03576 | .26190 | 989.13 | .00801 | 1885.0 |
| Stddev | .00063  | 7.6    | .00076  | .00058 | .00359 | 3.30   | .00016 | 6.6    |
| %RSD   | 9.9461  | .39240 | .69865  | 1.6085 | 1.3711 | .33350 | 1.9635 | .34977 |

|    |         |        |         |        |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|--------|
| #1 | -.00564 | 1947.1 | -.10962 | .03533 | .25804 | 990.09 | .00795 | 1889.0 |
| #2 | -.00685 | 1937.5 | -.10988 | .03555 | .26253 | 991.85 | .00819 | 1888.6 |
| #3 | -.00655 | 1932.0 | -.10845 | .03642 | .26514 | 985.46 | .00789 | 1877.4 |

|        |         |         |        |        |         |        |         |        |
|--------|---------|---------|--------|--------|---------|--------|---------|--------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | -.14194 | -.04232 | 1642.4 | .00558 | -.08199 | 903.61 | -.01303 | .13214 |
| Stddev | .00122  | .00141  | 32.7   | .00113 | .00109  | 3.86   | .00016  | .01632 |
| %RSD   | .85799  | 3.3204  | 1.9894 | 20.158 | 1.3273  | .42756 | 1.2219  | 12.353 |

|    |         |         |        |        |         |        |         |        |
|----|---------|---------|--------|--------|---------|--------|---------|--------|
| #1 | -.14318 | -.04351 | 1664.0 | .00482 | -.08144 | 906.12 | -.01300 | .11847 |
| #2 | -.14189 | -.04269 | 1658.3 | .00687 | -.08324 | 905.55 | -.01289 | .15021 |
| #3 | -.14074 | -.04077 | 1604.8 | .00506 | -.08128 | 899.16 | -.01320 | .12775 |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .32352 | -.02226 | .04994 | -.04829 | .13184 | .1423  | -1.0814 | 4.0806 |
| Stddev | .00805 | .00350  | .00511 | .00306  | .00400 | .0052  | .0033   | .1257  |
| %RSD   | 2.4882 | 15.726  | 10.239 | 6.3448  | 3.0357 | 3.640  | .30876  | 3.0792 |

|    |        |         |        |         |        |       |         |        |
|----|--------|---------|--------|---------|--------|-------|---------|--------|
| #1 | .31912 | -.01828 | .05030 | -.04493 | .12800 | .1459 | -1.0826 | 4.1381 |
| #2 | .33281 | -.02366 | .05487 | -.04903 | .13154 | .1446 | -1.0840 | 3.9365 |
| #3 | .31863 | -.02485 | .04466 | -.05092 | .13599 | .1364 | -1.0777 | 4.1672 |

Sample Name: LR CHECK 1      Acquired: 3/27/2019 16:26:43      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      ^ \*\*\*\*\*  
 Stddev      -----  
 %RSD      -----

#1      -37525.  
 #2      ^ -----  
 #3      ^ -----

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2109.1 | 39449. | 2694.0 | 32.593 | 2186.7 |
| Stddev    | 3.7    | 69.    | 4.5    | .495   | 4.5    |
| %RSD      | .17553 | .17438 | .16818 | 1.5175 | .20628 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2112.9 | 39428. | 2688.9 | 32.972 | 2186.4 |
| #2 | 2109.0 | 39393. | 2697.3 | 32.033 | 2191.3 |
| #3 | 2105.5 | 39526. | 2695.9 | 32.773 | 2182.3 |

Sample Name: LR CHECK 2      Acquired: 3/27/2019 16:40:10      Type: Unk  
Method: P4-ICP2(v2989)      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    | .05092 | -.03085 | 266.54 | .05446 | -.09542 | -.05839 | 106.95 | -.00011 |
| Stddev | .00050 | .00080  | .39    | .00146 | .00311  | .01568  | .30    | .00004  |
| %RSD   | .98119 | 2.5958  | .14534 | 2.6894 | 3.2541  | 26.860  | .28043 | 36.040  |

|    |        |         |        |        |         |         |        |         |
|----|--------|---------|--------|--------|---------|---------|--------|---------|
| #1 | .05089 | -.03161 | 266.95 | .05285 | -.09198 | -.06889 | 106.64 | -.00012 |
| #2 | .05143 | -.03002 | 266.47 | .05485 | -.09801 | -.04036 | 106.98 | -.00015 |
| #3 | .05043 | -.03092 | 266.18 | .05570 | -.09628 | -.06593 | 107.23 | -.00007 |

|        |         |        |         |         |        |         |        |         |
|--------|---------|--------|---------|---------|--------|---------|--------|---------|
| Elem   | Cd2265  | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | -.01178 | .23604 | -.13564 | -.03263 | 257.04 | -.73026 | 45.962 | -.04838 |
| Stddev | .00005  | .01395 | .00052  | .00064  | .16    | .00376  | .357   | .04779  |
| %RSD   | .39829  | 5.9101 | .38609  | 1.9529  | .06236 | .51462  | .77776 | 98.790  |

|    |         |        |         |         |        |         |        |         |
|----|---------|--------|---------|---------|--------|---------|--------|---------|
| #1 | -.01184 | .22031 | -.13524 | -.03322 | 256.89 | -.73460 | 46.226 | -.09794 |
| #2 | -.01176 | .24091 | -.13623 | -.03195 | 257.21 | -.72812 | 46.106 | -.00258 |
| #3 | -.01175 | .24691 | -.13545 | -.03272 | 257.03 | -.72807 | 45.555 | -.04460 |

|        |        |        |        |         |        |        |        |         |
|--------|--------|--------|--------|---------|--------|--------|--------|---------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | 54.842 | .01113 | .56495 | -.14242 | 37.833 | .81606 | .00897 | -.00143 |
| Stddev | .066   | .00025 | .01740 | .00193  | .100   | .03365 | .00014 | .02910  |
| %RSD   | .12072 | 2.2351 | 3.0791 | 1.3563  | .26551 | 4.1237 | 1.5569 | 2033.9  |

|    |        |        |        |         |        |        |        |         |
|----|--------|--------|--------|---------|--------|--------|--------|---------|
| #1 | 54.899 | .01142 | .57040 | -.14213 | 37.917 | .85015 | .00913 | .01688  |
| #2 | 54.769 | .01105 | .57898 | -.14448 | 37.860 | .78286 | .00888 | -.03499 |
| #3 | 54.858 | .01094 | .54549 | -.14065 | 37.722 | .81517 | .00889 | .01381  |

|        |        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .11665 | .02220 | .00373 | .02949 | -.00193 | .0938  | .00733 | 4.8093 |
| Stddev | .00369 | .00207 | .00111 | .00335 | .00183  | .0104  | .00012 | .1925  |
| %RSD   | 3.1655 | 9.3363 | 29.790 | 11.357 | 94.520  | 11.13  | 1.5996 | 4.0017 |

|    |        |        |        |        |         |       |        |        |
|----|--------|--------|--------|--------|---------|-------|--------|--------|
| #1 | .11536 | .01981 | .00253 | .02728 | -.00190 | .0987 | .00734 | 5.0195 |
| #2 | .12081 | .02353 | .00395 | .02784 | -.00012 | .1009 | .00744 | 4.6418 |
| #3 | .11377 | .02325 | .00472 | .03334 | -.00377 | .0818 | .00721 | 4.7664 |



Sample Name: LR CHECK 2      Acquired: 3/27/2019 16:40:10      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 58.491 |
| Stddev | 11.956 |
| %RSD   | 20.441 |

|    |        |
|----|--------|
| #1 | 70.354 |
| #2 | 58.673 |
| #3 | 46.445 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 1818.7 | 52953. | 3089.0 | 42.703 | 3468.4 |
| Stddev    | 3.2    | 167.   | 16.5   | 1.113  | 2.0    |
| %RSD      | .17703 | .31576 | .53539 | 2.6054 | .05828 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 1822.4 | 52812. | 3097.2 | 43.508 | 3470.2 |
| #2 | 1817.0 | 52908. | 3099.9 | 43.167 | 3466.2 |
| #3 | 1816.6 | 53138. | 3070.0 | 41.433 | 3468.8 |

Sample Name: K1831-01      Acquired: 3/27/2019 13:40:11      Type: Unk  
Method: P4-ICP2(v2989)      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    | .53565 | .45837 | 1.4792 | .32632 | .18287 | 1.5327 | .76041 | .49005 |
| Stddev | .00111 | .00411 | .0045  | .00476 | .00270 | .0198  | .00869 | .00104 |
| %RSD   | .20806 | .89699 | .30068 | 1.4581 | 1.4750 | 1.2930 | 1.1424 | .21287 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .53499 | .45648 | 1.4772 | .32094 | .18594 | 1.5556 | .75058 | .48912 |
| #2 | .53502 | .45555 | 1.4843 | .32999 | .18178 | 1.5209 | .76359 | .48984 |
| #3 | .53693 | .46309 | 1.4761 | .32803 | .18089 | 1.5216 | .76705 | .49118 |

|        |        |         |        |        |        |        |        |         |
|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .26950 | -.00340 | .57649 | .27595 | 1.0087 | 1.8144 | 1.1695 | -.06830 |
| Stddev | .00019 | .01508  | .00223 | .00020 | .0012  | .0024  | .0019  | .07987  |
| %RSD   | .06894 | 443.82  | .38716 | .07349 | .12222 | .13310 | .16142 | 116.93  |

|    |        |         |        |        |        |        |        |         |
|----|--------|---------|--------|--------|--------|--------|--------|---------|
| #1 | .26966 | -.01467 | .57413 | .27575 | 1.0080 | 1.8143 | 1.1674 | .02377  |
| #2 | .26954 | .01373  | .57679 | .27615 | 1.0079 | 1.8120 | 1.1700 | -.11890 |
| #3 | .26930 | -.00926 | .57857 | .27596 | 1.0101 | 1.8169 | 1.1711 | -.10978 |

|        |        |        |         |        |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895  | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .27725 | .49391 | -.01306 | 1.3648 | .90818 | .03071 | .25371 | .95658 |
| Stddev | .00142 | .00080 | .01384  | .0018  | .00145 | .03003 | .00121 | .00930 |
| %RSD   | .51387 | .16114 | 105.99  | .13162 | .15970 | 97.812 | .47836 | .97209 |

|    |        |        |         |        |        |         |        |        |
|----|--------|--------|---------|--------|--------|---------|--------|--------|
| #1 | .27607 | .49438 | -.00508 | 1.3629 | .90873 | .04033  | .25245 | .96234 |
| #2 | .27884 | .49437 | -.02904 | 1.3649 | .90929 | .05474  | .25380 | .96154 |
| #3 | .27686 | .49299 | -.00505 | 1.3665 | .90654 | -.00296 | .25487 | .94585 |

|        |         |        |        |        |         |        |        |        |
|--------|---------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820  | Si2881 | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00006 | .14561 | .00133 | .00083 | -.00241 | .0016  | .50147 | 2.5287 |
| Stddev | .00521  | .00378 | .00014 | .00218 | .00194  | .0007  | .00563 | .2307  |
| %RSD   | 9016.9  | 2.5994 | 10.872 | 264.17 | 80.350  | 43.15  | 1.1227 | 9.1234 |

|    |         |        |        |         |         |       |        |        |
|----|---------|--------|--------|---------|---------|-------|--------|--------|
| #1 | .00541  | .14228 | .00138 | .00252  | -.00395 | .0008 | .49621 | 2.3340 |
| #2 | -.00496 | .14481 | .00145 | -.00164 | -.00305 | .0019 | .50079 | 2.4685 |
| #3 | -.00062 | .14973 | .00117 | .00160  | -.00024 | .0020 | .50741 | 2.7835 |

Sample Name: K1831-01      Acquired: 3/27/2019 13:40:11      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 63.104 |
| Stddev | 24.408 |
| %RSD   | 38.678 |

|    |        |
|----|--------|
| #1 | 42.155 |
| #2 | 89.906 |
| #3 | 57.252 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2891.7 | 53602. | 3001.6 | 44.925 | 3896.3 |
| Stddev    | 2.2    | 198.   | 9.5    | 1.353  | 9.3    |
| %RSD      | .07463 | .37020 | .31602 | 3.0121 | .23807 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2889.5 | 53831. | 3006.6 | 46.486 | 3891.0 |
| #2 | 2891.9 | 53486. | 3007.4 | 44.216 | 3890.8 |
| #3 | 2893.8 | 53488. | 2990.6 | 44.074 | 3907.0 |

Sample Name: K1831-03      Acquired: 3/27/2019 13:44:25      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00004 | -.00141 | .00201 | .00063 | -.00033 | .03907 | -.00004 | -.00003 |
| Stddev | .00278 | .00130  | .00095 | .00035 | .00078  | .01151 | .00146  | .00005  |
| %RSD   | 7734.2 | 91.839  | 47.131 | 54.664 | 237.53  | 29.444 | 3784.0  | 141.22  |

|    |         |         |        |        |         |        |         |         |
|----|---------|---------|--------|--------|---------|--------|---------|---------|
| #1 | -.00088 | -.00006 | .00253 | .00036 | -.00114 | .02755 | .00055  | .00002  |
| #2 | -.00217 | -.00154 | .00259 | .00102 | -.00028 | .03911 | .00103  | -.00007 |
| #3 | .00316  | -.00264 | .00092 | .00051 | .00043  | .05056 | -.00170 | -.00004 |

|        |        |         |         |        |         |         |         |         |
|--------|--------|---------|---------|--------|---------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286 | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00013 | -.00315 | -.00110 | .00002 | -.00086 | -.00647 | -.00020 | -.02111 |
| Stddev | .00005 | .02132  | .00029  | .00020 | .00030  | .00090  | .00004  | .03402  |
| %RSD   | 37.870 | 676.70  | 25.897  | 1061.4 | 35.396  | 13.970  | 18.814  | 161.15  |

|    |        |         |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00019 | .00779  | -.00081 | -.00008 | -.00051 | -.00542 | -.00018 | -.03593 |
| #2 | .00011 | .01048  | -.00112 | -.00012 | -.00096 | -.00701 | -.00025 | .01780  |
| #3 | .00009 | -.02772 | -.00138 | .00025  | -.00109 | -.00696 | -.00019 | -.04520 |

|        |        |         |        |        |        |         |        |        |
|--------|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664  | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00080 | -.00025 | .06142 | .00013 | .00001 | -.01498 | .00004 | .17598 |
| Stddev | .00047 | .00096  | .00857 | .00101 | .00013 | .02604  | .00027 | .00104 |
| %RSD   | 58.685 | 390.09  | 13.955 | 799.62 | 1435.1 | 173.82  | 701.77 | .59133 |

|    |        |         |        |         |         |         |         |        |
|----|--------|---------|--------|---------|---------|---------|---------|--------|
| #1 | .00037 | -.00089 | .05897 | -.00031 | .00016  | .00375  | -.00005 | .17574 |
| #2 | .00130 | -.00071 | .05434 | -.00059 | -.00008 | -.00397 | -.00017 | .17508 |
| #3 | .00074 | .00086  | .07095 | .00128  | -.00005 | -.04472 | .00034  | .17712 |

|        |        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00392 | 1.3570 | 1.8016 | .29059 | -.00227 | -.0010 | .00006 | 2.5191 |
| Stddev | .00234 | .0076  | .0054  | .00152 | .00078  | .0019  | .00007 | .2368  |
| %RSD   | 59.678 | .56041 | .29895 | .52478 | 34.479  | 181.2  | 108.71 | 9.4015 |

|    |        |        |        |        |         |        |         |        |
|----|--------|--------|--------|--------|---------|--------|---------|--------|
| #1 | .00124 | 1.3550 | 1.7987 | .28887 | -.00154 | .0011  | .00011  | 2.2498 |
| #2 | .00554 | 1.3654 | 1.7983 | .29176 | -.00217 | -.0017 | .00010  | 2.6949 |
| #3 | .00500 | 1.3506 | 1.8078 | .29115 | -.00309 | -.0025 | -.00002 | 2.6126 |

Sample Name: K1831-03      Acquired: 3/27/2019 13:44:25      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      23.121  
 Stddev      34.575  
 %RSD      149.54

#1      49.553  
 #2      -16.007  
 #3      35.818

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2927.1 | 53509. | 3002.8 | 43.103 | 3947.6 |
| Stddev    | 10.1   | 100.   | 24.7   | 2.490  | 8.4    |
| %RSD      | .34476 | .18598 | .82295 | 5.7770 | .21231 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2920.5 | 53567. | 3001.4 | 41.250 | 3938.8 |
| #2 | 2922.1 | 53565. | 2978.7 | 42.125 | 3948.4 |
| #3 | 2938.7 | 53394. | 3028.1 | 45.933 | 3955.5 |

Sample Name: K1831-05      Acquired: 3/27/2019 13:48:51      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00073 | .00149 | .00171 | .00035 | -.00197 | -.05618 | .00086 | -.00002 |
| Stddev | .00171 | .00087 | .00077 | .00074 | .00109  | .01049  | .00124 | .00007  |
| %RSD   | 234.45 | 58.778 | 44.979 | 210.23 | 55.619  | 18.680  | 143.52 | 373.82  |

|    |         |        |        |         |         |         |         |         |
|----|---------|--------|--------|---------|---------|---------|---------|---------|
| #1 | .00053  | .00197 | .00260 | .00076  | -.00317 | -.04406 | .00226  | .00003  |
| #2 | -.00087 | .00201 | .00125 | .00079  | -.00104 | -.06225 | -.00012 | .00001  |
| #3 | .00252  | .00048 | .00129 | -.00050 | -.00169 | -.06223 | .00045  | -.00009 |

|        |        |        |         |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00017 | 54.874 | -.00084 | -.00016 | -.00490 | -.01647 | -.00106 | 11.150 |
| Stddev | .00008 | .494   | .00032  | .00026  | .00056  | .00132  | .00005  | .106   |
| %RSD   | 50.167 | .89943 | 38.468  | 158.79  | 11.496  | 7.9976  | 4.4011  | .95010 |

|    |        |        |         |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00016 | 55.443 | -.00047 | -.00030 | -.00432 | -.01525 | -.00102 | 11.262 |
| #2 | .00026 | 54.559 | -.00100 | .00014  | -.00544 | -.01628 | -.00104 | 11.051 |
| #3 | .00009 | 54.620 | -.00104 | -.00033 | -.00494 | -.01787 | -.00111 | 11.138 |

|        |         |         |        |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00070 | -.00205 | 56.382 | .00009 | .00009 | 29.071 | .00027 | .01314 |
| Stddev | .00028  | .00078  | .189   | .00063 | .00020 | .158   | .00029 | .01943 |
| %RSD   | 39.496  | 37.994  | .33604 | 701.93 | 216.16 | .54399 | 107.37 | 147.95 |

|    |         |         |        |         |         |        |        |         |
|----|---------|---------|--------|---------|---------|--------|--------|---------|
| #1 | -.00077 | -.00122 | 56.521 | .00031  | .00030  | 29.250 | .00020 | -.00234 |
| #2 | -.00093 | -.00215 | 56.459 | -.00062 | .00008  | 28.950 | .00002 | .00680  |
| #3 | -.00039 | -.00277 | 56.166 | .00058  | -.00010 | 29.012 | .00058 | .03495  |

|        |         |         |        |        |         |        |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|--------|
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00561 | -.00255 | .00258 | .00079 | -.00438 | -.0063 | .00496 | 1.4118 |
| Stddev | .00097  | .00108  | .00075 | .00160 | .00079  | .0023  | .00012 | .0294  |
| %RSD   | 17.374  | 42.404  | 29.276 | 203.37 | 17.995  | 36.55  | 2.4828 | 2.0832 |

|    |         |         |        |         |         |        |        |        |
|----|---------|---------|--------|---------|---------|--------|--------|--------|
| #1 | -.00532 | -.00202 | .00181 | .00263  | -.00425 | -.0059 | .00482 | 1.3974 |
| #2 | -.00670 | -.00184 | .00260 | -.00022 | -.00522 | -.0088 | .00505 | 1.4457 |
| #3 | -.00482 | -.00380 | .00332 | -.00005 | -.00366 | -.0042 | .00501 | 1.3924 |

Sample Name: K1831-05      Acquired: 3/27/2019 13:48:51      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      63.596  
 Stddev      26.323  
 %RSD      41.391

#1      91.724  
 #2      39.557  
 #3      59.506

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2970.7 | 54905. | 3133.3 | 45.733 | 3831.4 |
| Stddev    | 4.0    | 171.   | 15.5   | .602   | 1.5    |
| %RSD      | .13629 | .31079 | .49378 | 1.3171 | .03853 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2969.9 | 54883. | 3120.8 | 45.097 | 3829.6 |
| #2 | 2975.0 | 54747. | 3128.3 | 46.295 | 3832.2 |
| #3 | 2967.0 | 55086. | 3150.6 | 45.805 | 3832.2 |

Sample Name: K1831-07      Acquired: 3/27/2019 13:53:17      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.02294 | .00220   | .05535  | .00137  | -.00165 | -.00273 | .00109  | .00002  |
| Stddev | .00283  | .00072   | .00037  | .00526  | .00153  | .00548  | .00080  | .00004  |
| %RSD   | 12.339  | 32.900   | .66388  | 382.85  | 93.115  | 200.86  | 73.494  | 161.16  |
| #1     | -.02253 | .00303   | .05574  | -.00467 | -.00336 | .00129  | .00059  | .00006  |
| #2     | -.02034 | .00174   | .05530  | .00384  | -.00117 | -.00897 | .00201  | .00001  |
| #3     | -.02596 | .00183   | .05502  | .00496  | -.00041 | -.00051 | .00066  | -.00000 |
| Elem   | Cd2265  | Ca3736   | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00048  | .00495   | -.00032 | -.00033 | -.00572 | -.12938 | -.00113 | -.04998 |
| Stddev | .00010  | .02175   | .00054  | .00006  | .00027  | .00270  | .00005  | .02637  |
| %RSD   | 20.222  | 439.80   | 171.45  | 19.766  | 4.7237  | 2.0899  | 4.0148  | 52.755  |
| #1     | .00037  | -.00066  | -.00093 | -.00028 | -.00597 | -.12636 | -.00109 | -.02702 |
| #2     | .00053  | .02895   | -.00012 | -.00040 | -.00576 | -.13020 | -.00118 | -.07878 |
| #3     | .00054  | -.01345  | .00010  | -.00030 | -.00544 | -.13158 | -.00112 | -.04413 |
| Elem   | Ni2316  | Ag3280   | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00292 | .00006   | 176.24  | .00050  | -.00025 | .00729  | .00156  | -.00325 |
| Stddev | .00019  | .00027   | 2.51    | .00069  | .00007  | .00980  | .00031  | .02467  |
| %RSD   | 6.4428  | 473.46   | 1.4231  | 137.26  | 26.910  | 134.55  | 19.564  | 759.20  |
| #1     | -.00274 | .00010   | 179.09  | .00024  | -.00019 | .00416  | .00183  | .02027  |
| #2     | -.00291 | .00031   | 174.39  | .00129  | -.00032 | -.00057 | .00162  | -.00108 |
| #3     | -.00312 | -.00023  | 175.24  | -.00002 | -.00024 | .01827  | .00123  | -.02893 |
| Elem   | S_1820  | Si2881   | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00022 | F 96.548 | .00543  | .01159  | -.00550 | -.0013  | .00021  | 3.8777  |
| Stddev | .00150  | 1.183    | .00054  | .00299  | .00160  | .0009   | .00011  | .0964   |
| %RSD   | 692.72  | 1.2249   | 9.8937  | 25.773  | 29.072  | 69.56   | 54.100  | 2.4872  |
| #1     | -.00094 | 95.238   | .00583  | .01362  | -.00500 | -.0022  | .00008  | 3.9407  |
| #2     | -.00121 | 96.868   | .00563  | .00816  | -.00729 | -.0009  | .00026  | 3.7667  |
| #3     | .00151  | 97.537   | .00482  | .01300  | -.00421 | -.0006  | .00029  | 3.9257  |



Sample Name: K1831-07      Acquired: 3/27/2019 13:53:17      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 53.832 |
| Stddev | 4.613  |
| %RSD   | 8.5692 |

|    |        |
|----|--------|
| #1 | 51.261 |
| #2 | 59.157 |
| #3 | 51.076 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2851.5 | 51961. | 2990.1 | 42.572 | 3633.7 |
| Stddev    | 11.6   | 33.    | 33.9   | 1.988  | 12.7   |
| %RSD      | .40627 | .06410 | 1.1350 | 4.6687 | .35048 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2857.1 | 51995. | 3027.6 | 44.474 | 3639.8 |
| #2 | 2859.1 | 51959. | 2981.2 | 42.733 | 3642.2 |
| #3 | 2838.1 | 51929. | 2961.5 | 40.509 | 3619.0 |

Sample Name: K1832-01      Acquired: 3/27/2019 13:57:43      Type: Unk  
Method: P4-ICP2(v2989)      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    | .53138 | .45894 | 1.4669 | .32141 | .17841 | 1.5390 | .76015 | .48795 |
| Stddev | .00141 | .00077 | .0021  | .00399 | .00154 | .0181  | .00281 | .00071 |
| %RSD   | .26587 | .16874 | .14193 | 1.2402 | .86259 | 1.1736 | .36922 | .14643 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .53206 | .45881 | 1.4653 | .31826 | .17787 | 1.5258 | .75916 | .48724 |
| #2 | .52976 | .45825 | 1.4662 | .32589 | .17722 | 1.5315 | .76332 | .48867 |
| #3 | .53233 | .45978 | 1.4693 | .32007 | .18015 | 1.5596 | .75798 | .48796 |

|        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .26786 | .03889 | .57152 | .27469 | 1.0014 | 1.8101 | 1.1605 | -.03863 |
| Stddev | .00074 | .01178 | .00197 | .00038 | .0022  | .0048  | .0021  | .06314  |
| %RSD   | .27669 | 30.291 | .34469 | .13914 | .22200 | .26472 | .17693 | 163.45  |

|    |        |        |        |        |        |        |        |         |
|----|--------|--------|--------|--------|--------|--------|--------|---------|
| #1 | .26709 | .03476 | .56998 | .27445 | 1.0039 | 1.8065 | 1.1582 | -.09235 |
| #2 | .26858 | .02974 | .57374 | .27448 | .99960 | 1.8156 | 1.1616 | -.05445 |
| #3 | .26790 | .05219 | .57084 | .27513 | 1.0008 | 1.8083 | 1.1618 | .03092  |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .27614 | .49088 | .27567 | 1.3561 | .90033 | .13391 | .25182 | .94958 |
| Stddev | .00130 | .00204 | .03781 | .0052  | .00135 | .04376 | .00087 | .03204 |
| %RSD   | .46969 | .41473 | 13.715 | .38469 | .14976 | 32.678 | .34583 | 3.3744 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .27475 | .48938 | .31794 | 1.3507 | .89973 | .17179 | .25192 | .91896 |
| #2 | .27636 | .49006 | .26402 | 1.3563 | .90188 | .08601 | .25090 | .94690 |
| #3 | .27731 | .49320 | .24506 | 1.3611 | .89939 | .14392 | .25264 | .98288 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00145 | .14684 | .00247 | .00247 | .00859 | .0006  | .49456 | 2.1625 |
| Stddev | .00268 | .00391 | .00114 | .00189 | .00132 | .0009  | .00427 | .2223  |
| %RSD   | 184.60 | 2.6608 | 45.967 | 76.555 | 15.370 | 166.8  | .86363 | 10.278 |

|    |         |        |        |        |        |       |        |        |
|----|---------|--------|--------|--------|--------|-------|--------|--------|
| #1 | .00410  | .14898 | .00349 | .00464 | .00712 | .0000 | .49776 | 1.9351 |
| #2 | -.00126 | .14920 | .00267 | .00152 | .00898 | .0017 | .49621 | 2.1732 |
| #3 | .00152  | .14233 | .00125 | .00123 | .00968 | .0000 | .48971 | 2.3793 |

Sample Name: K1832-01      Acquired: 3/27/2019 13:57:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 52.062 |
| Stddev | 32.948 |
| %RSD   | 63.287 |

|    |        |
|----|--------|
| #1 | 56.298 |
| #2 | 17.200 |
| #3 | 82.686 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2931.3 | 53839. | 3058.6 | 43.400 | 3938.9 |
| Stddev    | 1.6    | 69.    | 29.3   | 1.103  | 10.1   |
| %RSD      | .05386 | .12740 | .95782 | 2.5424 | .25582 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2931.7 | 53904. | 3040.8 | 42.522 | 3939.9 |
| #2 | 2929.6 | 53767. | 3042.6 | 43.040 | 3928.4 |
| #3 | 2932.7 | 53844. | 3092.4 | 44.639 | 3948.5 |

Sample Name: K1832-03      Acquired: 3/27/2019 14:01:53      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00218 | -.00157 | .00032 | .00074 | .00024 | .04007 | -.00019 | -.00005 |
| Stddev | .00116 | .00078  | .00088 | .00042 | .00140 | .00861 | .00133  | .00008  |
| %RSD   | 53.443 | 49.846  | 270.61 | 56.575 | 593.00 | 21.490 | 718.47  | 150.29  |

|    |        |         |         |        |         |        |         |         |
|----|--------|---------|---------|--------|---------|--------|---------|---------|
| #1 | .00307 | -.00113 | -.00017 | .00099 | -.00131 | .03013 | -.00148 | -.00014 |
| #2 | .00086 | -.00247 | .00134  | .00098 | .00063  | .04474 | -.00025 | -.00000 |
| #3 | .00261 | -.00110 | -.00020 | .00026 | .00140  | .04533 | .00118  | -.00001 |

|        |        |        |         |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00009 | .00102 | -.00037 | -.00003 | -.00017 | -.00768 | -.00034 | .03802 |
| Stddev | .00006 | .02766 | .00037  | .00014  | .00025  | .00107  | .00004  | .03770 |
| %RSD   | 61.699 | 2723.3 | 99.096  | 428.00  | 149.38  | 13.966  | 12.400  | 99.159 |

|    |        |         |         |         |         |         |         |        |
|----|--------|---------|---------|---------|---------|---------|---------|--------|
| #1 | .00006 | -.00656 | .00005  | -.00004 | -.00029 | -.00776 | -.00037 | .00618 |
| #2 | .00016 | .03167  | -.00056 | -.00017 | -.00033 | -.00872 | -.00030 | .07966 |
| #3 | .00006 | -.02207 | -.00060 | .00011  | .00012  | -.00658 | -.00037 | .02824 |

|        |        |         |        |         |        |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00059 | -.00047 | .18332 | -.00045 | .00020 | .04763 | .00002 | .18434 |
| Stddev | .00070 | .00021  | .01201 | .00083  | .00005 | .06731 | .00007 | .01725 |
| %RSD   | 120.26 | 44.777  | 6.5538 | 182.81  | 24.948 | 141.32 | 293.19 | 9.3596 |

|    |         |         |        |         |        |         |         |        |
|----|---------|---------|--------|---------|--------|---------|---------|--------|
| #1 | -.00022 | -.00048 | .17013 | -.00013 | .00022 | -.01437 | .00007  | .18995 |
| #2 | .00106  | -.00068 | .19363 | .00017  | .00015 | .11922  | .00006  | .19809 |
| #3 | .00092  | -.00026 | .18620 | -.00139 | .00025 | .03803  | -.00006 | .16498 |

|        |        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00496 | 1.3153 | 1.7740 | .28136 | .00177 | -.0006 | -.00007 | 1.5575 |
| Stddev | .00167 | .0078  | .0020  | .00200 | .00168 | .0010  | .00004  | .0964  |
| %RSD   | 33.753 | .59709 | .11444 | .71051 | 95.294 | 174.9  | 61.266  | 6.1908 |

|    |        |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|--------|---------|--------|
| #1 | .00320 | 1.3244 | 1.7763 | .27906 | .00370 | -.0011 | -.00012 | 1.5500 |
| #2 | .00653 | 1.3113 | 1.7732 | .28261 | .00061 | .0006  | -.00005 | 1.6575 |
| #3 | .00515 | 1.3103 | 1.7725 | .28242 | .00099 | -.0012 | -.00004 | 1.4651 |

Sample Name: K1832-03      Acquired: 3/27/2019 14:01:53      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      1.9675  
Stddev      19.115  
%RSD      971.51

#1      23.905  
#2      -6.8906  
#3      -11.111

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2950.8 | 54160. | 3065.7 | 45.508 | 3974.0 |
| Stddev    | 2.6    | 228.   | 20.0   | 1.439  | 7.5    |
| %RSD      | .08882 | .42047 | .65354 | 3.1630 | .18783 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2948.5 | 54157. | 3044.1 | 46.058 | 3965.6 |
| #2 | 2950.4 | 54389. | 3069.2 | 43.875 | 3979.8 |
| #3 | 2953.6 | 53933. | 3083.7 | 46.592 | 3976.5 |

Sample Name: K1832-05      Acquired: 3/27/2019 14:06:18      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00145 | .00129 | .00150 | -.00018 | -.00228 | -.04668 | .00031 | -.00005 |
| Stddev | .00221 | .00131 | .00145 | .00133  | .00046  | .00810  | .00091 | .00008  |
| %RSD   | 152.33 | 101.81 | 96.673 | 729.02  | 20.377  | 17.345  | 290.98 | 161.25  |

|    |         |         |        |         |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.00091 | .00169  | .00008 | -.00169 | -.00187 | -.04561 | .00043  | .00002  |
| #2 | .00346  | -.00018 | .00298 | .00085  | -.00278 | -.03917 | -.00065 | -.00013 |
| #3 | .00179  | .00235  | .00143 | .00029  | -.00217 | -.05526 | .00116  | -.00003 |

|        |        |        |         |         |         |         |         |        |
|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00011 | 55.584 | -.00072 | -.00002 | -.00474 | -.01712 | -.00106 | 11.384 |
| Stddev | .00006 | .356   | .00005  | .00030  | .00029  | .00133  | .00003  | .151   |
| %RSD   | 49.066 | .63960 | 7.4032  | 1309.9  | 6.0859  | 7.7438  | 3.1891  | 1.3282 |

|    |        |        |         |         |         |         |         |        |
|----|--------|--------|---------|---------|---------|---------|---------|--------|
| #1 | .00013 | 55.867 | -.00071 | .00032  | -.00499 | -.01564 | -.00105 | 11.245 |
| #2 | .00016 | 55.701 | -.00066 | -.00017 | -.00443 | -.01821 | -.00103 | 11.363 |
| #3 | .00005 | 55.185 | -.00077 | -.00022 | -.00479 | -.01751 | -.00110 | 11.545 |

|        |         |         |        |        |         |        |        |        |
|--------|---------|---------|--------|--------|---------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924 | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00069 | -.00153 | 57.531 | .00032 | -.00013 | 29.376 | .00003 | .01163 |
| Stddev | .00039  | .00015  | .478   | .00074 | .00011  | .239   | .00017 | .01346 |
| %RSD   | 56.680  | 10.048  | .83074 | 233.28 | 88.249  | .81284 | 603.54 | 115.71 |

|    |         |         |        |         |         |        |         |         |
|----|---------|---------|--------|---------|---------|--------|---------|---------|
| #1 | -.00082 | -.00170 | 58.043 | .00010  | -.00023 | 29.562 | -.00016 | .01573  |
| #2 | -.00100 | -.00140 | 57.455 | -.00029 | -.00014 | 29.460 | .00015  | -.00340 |
| #3 | -.00025 | -.00149 | 57.096 | .00114  | -.00001 | 29.107 | .00010  | .02256  |

|        |         |         |        |         |         |        |        |        |
|--------|---------|---------|--------|---------|---------|--------|--------|--------|
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | -.00505 | -.00376 | .00079 | -.00018 | -.00385 | -.0041 | .00492 | .81343 |
| Stddev | .00136  | .00347  | .00092 | .00214  | .00097  | .0012  | .00006 | .03571 |
| %RSD   | 26.892  | 92.284  | 115.73 | 1174.1  | 25.258  | 29.37  | 1.3176 | 4.3895 |

|    |         |         |         |         |         |        |        |        |
|----|---------|---------|---------|---------|---------|--------|--------|--------|
| #1 | -.00601 | .00023  | .00116  | -.00004 | -.00393 | -.0049 | .00500 | .77829 |
| #2 | -.00350 | -.00544 | -.00025 | .00188  | -.00284 | -.0046 | .00487 | .84968 |
| #3 | -.00565 | -.00607 | .00147  | -.00239 | -.00477 | -.0027 | .00491 | .81231 |

Sample Name: K1832-05      Acquired: 3/27/2019 14:06:18      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      63.988  
 Stddev      13.174  
 %RSD      20.589

#1      50.279  
 #2      65.132  
 #3      76.553

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2947.7 | 54730. | 3160.9 | 44.779 | 3803.7 |
| Stddev    | 2.5    | 119.   | 24.2   | .335   | .9     |
| %RSD      | .08445 | .21651 | .76619 | .74747 | .02240 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2950.5 | 54634. | 3139.0 | 44.723 | 3804.3 |
| #2 | 2946.8 | 54694. | 3156.6 | 44.475 | 3804.1 |
| #3 | 2945.8 | 54863. | 3186.9 | 45.138 | 3802.7 |

Sample Name: K1832-07      Acquired: 3/27/2019 14:10:46      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.02238 | -.00015  | .05408  | -.00049 | -.00093 | .00332  | .00025  | -.00000 |
| Stddev | .00144  | .00167   | .00016  | .00168  | .00134  | .01326  | .00114  | .00005  |
| %RSD   | 6.4371  | 1113.7   | .29428  | 344.06  | 145.01  | 399.59  | 451.20  | 6689.7  |
| #1     | -.02390 | .00031   | .05390  | .00053  | -.00050 | -.00563 | -.00068 | .00003  |
| #2     | -.02103 | .00124   | .05413  | .00044  | -.00243 | -.00297 | .00153  | -.00005 |
| #3     | -.02219 | -.00200  | .05420  | -.00243 | .00016  | .01856  | -.00009 | .00002  |
| Elem   | Cd2265  | Ca3736   | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00033  | -.00869  | .00013  | -.00021 | -.00604 | -.12491 | -.00106 | -.01481 |
| Stddev | .00006  | .01662   | .00054  | .00016  | .00044  | .00107  | .00006  | .12387  |
| %RSD   | 17.643  | 191.34   | 421.15  | 79.199  | 7.2615  | .85540  | 6.0148  | 836.61  |
| #1     | .00034  | -.02647  | .00066  | -.00004 | -.00577 | -.12615 | -.00106 | -.13505 |
| #2     | .00027  | .00646   | .00014  | -.00022 | -.00581 | -.12435 | -.00100 | .11239  |
| #3     | .00039  | -.00606  | -.00042 | -.00037 | -.00655 | -.12424 | -.00112 | -.02176 |
| Elem   | Ni2316  | Ag3280   | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00239 | .00009   | 174.62  | .00034  | -.00007 | .05371  | .00106  | -.01173 |
| Stddev | .00039  | .00076   | .61     | .00026  | .00007  | .02905  | .00019  | .01232  |
| %RSD   | 16.128  | 893.43   | .34674  | 78.236  | 98.691  | 54.086  | 18.206  | 105.03  |
| #1     | -.00235 | .00051   | 175.28  | .00061  | -.00015 | .06827  | .00110  | -.02588 |
| #2     | -.00203 | -.00079  | 174.08  | .00008  | -.00005 | .07260  | .00123  | -.00333 |
| #3     | -.00279 | .00054   | 174.52  | .00032  | -.00002 | .02026  | .00085  | -.00599 |
| Elem   | S_1820  | Si2881   | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00315 | F 91.813 | .00226  | .00786  | -.00748 | -.0008  | .00015  | 2.2553  |
| Stddev | .00045  | .664     | .00025  | .00137  | .00184  | .0008   | .00026  | .0261   |
| %RSD   | 14.422  | .72352   | 11.088  | 17.440  | 24.663  | 99.24   | 177.52  | 1.1586  |
| #1     | -.00263 | 92.496   | .00248  | .00719  | -.00961 | .0000   | -.00011 | 2.2253  |
| #2     | -.00334 | 91.169   | .00232  | .00943  | -.00647 | -.0016  | .00015  | 2.2726  |
| #3     | -.00348 | 91.773   | .00199  | .00694  | -.00636 | -.0009  | .00040  | 2.2681  |



Sample Name: K1832-07      Acquired: 3/27/2019 14:10:46      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 67.466 |
| Stddev | 11.034 |
| %RSD   | 16.355 |

|    |        |
|----|--------|
| #1 | 65.124 |
| #2 | 79.484 |
| #3 | 57.792 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2933.5 | 53956. | 3143.7 | 44.512 | 3747.0 |
| Stddev    | 6.0    | 24.    | 22.2   | .952   | 5.9    |
| %RSD      | .20303 | .04521 | .70580 | 2.1388 | .15778 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2932.8 | 53984. | 3120.9 | 43.433 | 3752.0 |
| #2 | 2939.8 | 53943. | 3165.2 | 44.873 | 3748.6 |
| #3 | 2927.9 | 53941. | 3145.1 | 45.231 | 3740.5 |

Sample Name: PB117934BL      Acquired: 3/27/2019 14:15:13      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00038  | -.00005 | .00053  | .00197  | .00093   | -.00643 | -.00053 | -.00009  |
| Stddev | .00209  | .00060  | .00036  | .00180  | .00066   | .00890  | .00166  | .00012   |
| %RSD   | 557.13  | 1303.7  | 67.991  | 91.231  | 70.667   | 138.35  | 313.59  | 127.54   |
| #1     | .00250  | .00039  | .00047  | .00300  | .00168   | -.00651 | -.00241 | -.00022  |
| #2     | .00030  | -.00073 | .00020  | .00303  | .00045   | .00251  | .00074  | .00001   |
| #3     | -.00168 | .00020  | .00092  | -.00011 | .00065   | -.01529 | .00008  | -.00007  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247   | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00013  | .00734  | -.00009 | -.00010 | .00089   | -.00587 | -.00048 | -.02071  |
| Stddev | .00008  | .02058  | .00024  | .00017  | .00025   | .00129  | .00005  | .01726   |
| %RSD   | 58.666  | 280.57  | 264.92  | 175.08  | 28.394   | 21.935  | 9.5371  | 83.336   |
| #1     | .00012  | -.01515 | .00010  | .00006  | .00062   | -.00534 | -.00053 | -.01545  |
| #2     | .00006  | .01190  | -.00036 | -.00007 | .00094   | -.00493 | -.00047 | -.03998  |
| #3     | .00021  | .02525  | -.00001 | -.00028 | .00111   | -.00734 | -.00044 | -.00669  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138   | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00061  | .00008  | .38353  | -.00018 | -.00003  | .10910  | -.00001 | .00614   |
| Stddev | .00063  | .00022  | .04029  | .00063  | .00003   | .03333  | .00018  | .00120   |
| %RSD   | 102.66  | 277.95  | 10.506  | 345.76  | 123.90   | 30.555  | 1601.6  | 19.549   |
| #1     | .00084  | -.00013 | .42154  | .00036  | -.00005  | .08661  | .00013  | .00519   |
| #2     | -.00010 | .00005  | .38776  | -.00087 | .00001   | .09329  | -.00021 | .00573   |
| #3     | .00109  | .00031  | .34128  | -.00004 | -.00003  | .14740  | .00005  | .00749   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707   | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00391  | .00350  | .00156  | .00067  | F .01166 | -.0017  | .00010  | F 2.0236 |
| Stddev | .00073  | .00288  | .00060  | .00081  | .00195   | .0009   | .00018  | .1969    |
| %RSD   | 18.683  | 82.184  | 38.495  | 121.77  | 16.688   | 53.24   | 173.70  | 9.7284   |
| #1     | .00396  | .00165  | .00170  | .00119  | .01271   | -.0015  | -.00008 | 2.2476   |
| #2     | .00315  | .00682  | .00090  | -.00027 | .01286   | -.0009  | .00011  | 1.8783   |
| #3     | .00460  | .00204  | .00207  | .00107  | .00942   | -.0027  | .00028  | 1.9449   |

Sample Name: PB117934BL      Acquired: 3/27/2019 14:15:13      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 23.375 |
| Stddev | 15.876   |
| %RSD   | 67.917   |

|    |        |
|----|--------|
| #1 | 7.5143 |
| #2 | 39.266 |
| #3 | 23.346 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2869.8 | 52979. | 3000.1 | 43.314 | 3887.8 |
| Stddev    | 8.3    | 2.     | 42.6   | .824   | .8     |
| %RSD      | .29027 | .00413 | 1.4196 | 1.9019 | .02031 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2863.6 | 52977. | 2980.2 | 44.175 | 3887.9 |
| #2 | 2866.5 | 52979. | 3049.0 | 42.533 | 3886.9 |
| #3 | 2879.2 | 52981. | 2971.1 | 43.233 | 3888.5 |

Sample Name: PB117932BL      Acquired: 3/27/2019 14:19:41      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00085 | -.00034 | -.00041 | -.00046 | .00056 | -.00905 | .00010 | -.00008 |
| Stddev | .00083  | .00080  | .00002  | .00138  | .00164 | .01255  | .00155 | .00010  |
| %RSD   | 96.976  | 235.87  | 5.2090  | 298.41  | 293.94 | 138.76  | 1496.2 | 132.87  |

|    |         |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.00030 | -.00114 | -.00042 | -.00204 | -.00120 | -.01669 | -.00073 | -.00019 |
| #2 | -.00045 | .00045  | -.00041 | .00019  | .00083  | .00544  | -.00085 | .00000  |
| #3 | -.00180 | -.00032 | -.00038 | .00047  | .00204  | -.01589 | .00189  | -.00004 |

|        |        |         |         |         |        |         |         |        |
|--------|--------|---------|---------|---------|--------|---------|---------|--------|
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    |
| Avg    | .00006 | -.03052 | -.00029 | -.00008 | .00043 | -.00583 | -.00036 | .00474 |
| Stddev | .00003 | .02964  | .00067  | .00014  | .00011 | .00085  | .00004  | .04395 |
| %RSD   | 47.103 | 97.119  | 235.17  | 185.93  | 25.067 | 14.569  | 10.704  | 928.07 |

|    |        |         |         |         |        |         |         |         |
|----|--------|---------|---------|---------|--------|---------|---------|---------|
| #1 | .00003 | -.06084 | .00049  | -.00012 | .00043 | -.00664 | -.00038 | .04605  |
| #2 | .00006 | -.02913 | -.00066 | .00008  | .00033 | -.00495 | -.00039 | -.04144 |
| #3 | .00009 | -.00160 | -.00069 | -.00019 | .00054 | -.00589 | -.00032 | .00959  |

|        |        |         |        |         |         |        |         |        |
|--------|--------|---------|--------|---------|---------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00068 | -.00012 | .06223 | -.00046 | -.00028 | .06516 | -.00011 | .02454 |
| Stddev | .00034 | .00037  | .01175 | .00097  | .00006  | .01315 | .00015  | .01740 |
| %RSD   | 50.292 | 300.29  | 18.889 | 212.09  | 22.396  | 20.185 | 137.38  | 70.926 |

|    |        |         |        |         |         |        |         |        |
|----|--------|---------|--------|---------|---------|--------|---------|--------|
| #1 | .00044 | -.00046 | .05697 | -.00083 | -.00027 | .05725 | -.00002 | .03510 |
| #2 | .00107 | .00028  | .05402 | .00064  | -.00022 | .05789 | -.00003 | .00445 |
| #3 | .00053 | -.00019 | .07569 | -.00120 | -.00034 | .08034 | -.00029 | .03407 |

|        |        |        |        |         |        |        |        |          |
|--------|--------|--------|--------|---------|--------|--------|--------|----------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm      |
| Avg    | .00313 | .00184 | .00023 | -.00044 | .00279 | -.0021 | .00011 | F 1.6076 |
| Stddev | .00276 | .00136 | .00062 | .00345  | .00157 | .0014  | .00005 | .1584    |
| %RSD   | 88.340 | 73.922 | 264.14 | 789.42  | 56.403 | 70.00  | 48.630 | 9.8521   |

|    |        |        |         |         |        |        |        |        |
|----|--------|--------|---------|---------|--------|--------|--------|--------|
| #1 | .00349 | .00142 | .00080  | .00145  | .00290 | -.0007 | .00005 | 1.4530 |
| #2 | .00569 | .00074 | .00033  | .00165  | .00430 | -.0019 | .00016 | 1.7696 |
| #3 | .00020 | .00335 | -.00042 | -.00441 | .00116 | -.0036 | .00012 | 1.6003 |

Sample Name: PB117932BL      Acquired: 3/27/2019 14:19:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 28.909  
Stddev      44.336  
%RSD      153.36

#1      -12.591  
#2      75.620  
#3      23.699

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2896.9 | 53478. | 3027.4 | 42.736 | 3934.4 |
| Stddev    | 3.2    | 148.   | 39.7   | 1.011  | 11.0   |
| %RSD      | .10994 | .27672 | 1.3124 | 2.3661 | .27889 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2899.9 | 53334. | 2981.8 | 41.842 | 3922.5 |
| #2 | 2893.5 | 53630. | 3045.1 | 43.833 | 3936.5 |
| #3 | 2897.2 | 53470. | 3055.1 | 42.533 | 3944.1 |

Sample Name: CCV02      Acquired: 3/27/2019 14:24:09      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9507 | 4.9400 | 4.9381 | 4.8810 | 4.9509 | 9.9801 | 10.017 | .24945   |
| Stddev | .0117  | .0144  | .0086  | .0076  | .0084  | .1447  | .030   | .00008   |
| %RSD   | .23642 | .29039 | .17521 | .15574 | .17034 | 1.4498 | .29783 | .03252   |
| #1     | 4.9376 | 4.9244 | 4.9332 | 4.8859 | 4.9415 | 9.8242 | 9.9823 | .24949   |
| #2     | 4.9601 | 4.9430 | 4.9481 | 4.8722 | 4.9578 | 10.110 | 10.037 | .24935   |
| #3     | 4.9544 | 4.9526 | 4.9330 | 4.8848 | 4.9534 | 10.006 | 10.030 | .24949   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4676 | 24.649 | 1.0026 | 2.4597 | 1.2603 | 4.8948 | 2.4979 | 24.860   |
| Stddev | .0034  | .102   | .0046  | .0024  | .0020  | .0153  | .0036  | .275     |
| %RSD   | .13801 | .41438 | .45830 | .09845 | .15835 | .31198 | .14395 | 1.1079   |
| #1     | 2.4655 | 24.535 | .99761 | 2.4595 | 1.2601 | 4.8882 | 2.4945 | 24.542   |
| #2     | 2.4716 | 24.683 | 1.0036 | 2.4622 | 1.2625 | 4.9123 | 2.5017 | 25.022   |
| #3     | 2.4658 | 24.730 | 1.0066 | 2.4574 | 1.2585 | 4.8840 | 2.4975 | 25.016   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4813 | 1.2402 | 24.412 | 2.4787 | 2.4683 | 24.815 | 4.9797 | 5.0137   |
| Stddev | .0015  | .0006  | .060   | .0032  | .0029  | .160   | .0058  | .0596    |
| %RSD   | .06223 | .04932 | .24410 | .13034 | .11761 | .64509 | .11704 | 1.1887   |
| #1     | 2.4797 | 1.2404 | 24.345 | 2.4758 | 2.4671 | 24.651 | 4.9735 | 4.9451   |
| #2     | 2.4828 | 1.2408 | 24.430 | 2.4822 | 2.4716 | 24.823 | 4.9850 | 5.0523   |
| #3     | 2.4814 | 1.2396 | 24.460 | 2.4781 | 2.4662 | 24.970 | 4.9806 | 5.0438   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.8653 | 4.9334 | 4.9233 | 4.9983 | 4.9115 | 4.905  | 5.0357 | F 3.0831 |
| Stddev | .0204  | .0462  | .0170  | .0078  | .0326  | .018   | .0424  | .2297    |
| %RSD   | .41896 | .93685 | .34440 | .15614 | .66466 | .3652  | .84143 | 7.4508   |
| #1     | 4.8440 | 4.9703 | 4.9091 | 5.0059 | 4.9373 | 4.886  | 5.0640 | 2.8258   |
| #2     | 4.8674 | 4.8816 | 4.9187 | 4.9903 | 4.8748 | 4.907  | 4.9870 | 3.1562   |
| #3     | 4.8846 | 4.9485 | 4.9420 | 4.9987 | 4.9226 | 4.921  | 5.0561 | 3.2675   |

Sample Name: CCV02      Acquired: 3/27/2019 14:24:09      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 10.728 |
| Stddev | 43.799   |
| %RSD   | 408.27   |

|    |         |
|----|---------|
| #1 | -23.321 |
| #2 | -4.6331 |
| #3 | 60.138  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2827.1 | 52419. | 3048.7 | 42.581 | 3550.4 |
| Stddev    | 3.5    | 60.    | 31.4   | .706   | 5.9    |
| %RSD      | .12511 | .11461 | 1.0294 | 1.6573 | .16607 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2829.4 | 52403. | 3017.4 | 41.766 | 3554.1 |
| #2 | 2823.0 | 52369. | 3080.1 | 42.972 | 3543.6 |
| #3 | 2828.9 | 52486. | 3048.7 | 43.005 | 3553.6 |

Sample Name: CCB02      Acquired: 3/27/2019 14:28:08      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00115  | .00030  | -.00024 | -.00118 | .00074  | -.00372 | -.00093 | -.00003  |
| Stddev | .00246  | .00068  | .00055  | .00372  | .00306  | .01164  | .00130  | .00006   |
| %RSD   | 213.70  | 227.39  | 225.84  | 314.18  | 416.00  | 313.06  | 139.19  | 183.38   |
| #1     | -.00015 | .00107  | .00020  | -.00511 | -.00245 | -.00713 | -.00139 | .00000   |
| #2     | -.00039 | -.00017 | -.00086 | .00230  | .00099  | -.01327 | .00053  | -.00010  |
| #3     | .00399  | -.00001 | -.00007 | -.00074 | .00367  | .00925  | -.00194 | -.00000  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00012  | .00180  | -.00018 | -.00014 | -.00069 | -.00611 | -.00024 | -.08049  |
| Stddev | .00003  | .01191  | .00031  | .00010  | .00013  | .00063  | .00004  | .08733   |
| %RSD   | 25.283  | 660.63  | 171.40  | 68.638  | 18.968  | 10.308  | 16.434  | 108.49   |
| #1     | .00014  | -.00635 | -.00005 | -.00025 | -.00055 | -.00539 | -.00020 | -.17834  |
| #2     | .00012  | .01548  | .00004  | -.00013 | -.00080 | -.00655 | -.00025 | -.05265  |
| #3     | .00009  | -.00371 | -.00053 | -.00005 | -.00071 | -.00638 | -.00027 | -.01048  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00099  | .00058  | -.00357 | .00001  | -.00009 | .08084  | .00020  | .01537   |
| Stddev | .00074  | .00079  | .00807  | .00041  | .00002  | .04496  | .00025  | .00907   |
| %RSD   | 74.475  | 135.98  | 225.75  | 4305.3  | 22.726  | 55.615  | 126.41  | 59.047   |
| #1     | .00055  | .00148  | -.01032 | -.00017 | -.00009 | .07426  | .00049  | .02558   |
| #2     | .00184  | .00004  | -.00576 | -.00028 | -.00007 | .12872  | .00005  | .00822   |
| #3     | .00058  | .00021  | .00536  | .00048  | -.00011 | .03953  | .00006  | .01231   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00147  | .00233  | .00352  | .00025  | .00233  | .0001   | .00004  | F 2.1339 |
| Stddev | .00151  | .00200  | .00148  | .00101  | .00024  | .0008   | .00007  | .1883    |
| %RSD   | 102.93  | 85.765  | 42.200  | 409.36  | 10.360  | 610.2   | 168.92  | 8.8252   |
| #1     | -.00020 | .00164  | .00483  | .00013  | .00224  | .0003   | .00004  | 2.2784   |
| #2     | .00274  | .00459  | .00190  | -.00070 | .00260  | -.0007  | .00011  | 2.2023   |
| #3     | .00187  | .00078  | .00382  | .00131  | .00215  | .0008   | -.00003 | 1.9209   |



Sample Name: CCB02      Acquired: 3/27/2019 14:28:08      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 44.734 |
| Stddev | 18.704   |
| %RSD   | 41.813   |

|    |        |
|----|--------|
| #1 | 34.322 |
| #2 | 66.327 |
| #3 | 33.552 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2913.6 | 53402. | 3035.8 | 42.836 | 3949.3 |
| Stddev    | 7.4    | 342.   | 16.5   | .525   | 2.7    |
| %RSD      | .25538 | .63953 | .54298 | 1.2257 | .06903 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2917.2 | 53042. | 3041.8 | 43.358 | 3949.1 |
| #2 | 2918.5 | 53442. | 3017.2 | 42.308 | 3952.1 |
| #3 | 2905.0 | 53722. | 3048.4 | 42.842 | 3946.7 |

Sample Name: PB117934BS      Acquired: 3/27/2019 14:32:36      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79549 | 2.0327 | .99382 | 2.0014    | .78931 | 1.9768 | .20569 |
| Stddev | .00204 | .0157  | .00484 | .0148     | .00447 | .0242  | .00271 |
| %RSD   | .25666 | .77159 | .48678 | .74135    | .56674 | 1.2240 | 1.3163 |
| #1     | .79342 | 2.0316 | .98823 | 1.9928    | .78440 | 1.9634 | .20322 |
| #2     | .79750 | 2.0489 | .99652 | 2.0186    | .79314 | 2.0047 | .20858 |
| #3     | .79553 | 2.0176 | .99670 | 1.9929    | .79040 | 1.9622 | .20527 |
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677    | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | .20674 | .19699 | 1.0579 | .42550    | .20147 | .32937 | 3.1360 |
| Stddev | .00061 | .00127 | .0285  | .00052    | .00150 | .00170 | .0065  |
| %RSD   | .29668 | .64244 | 2.6926 | .12220    | .74618 | .51537 | .20766 |
| #1     | .20744 | .19552 | 1.0314 | .42599    | .19975 | .32772 | 3.1401 |
| #2     | .20645 | .19769 | 1.0542 | .42556    | .20212 | .32927 | 3.1393 |
| #3     | .20633 | .19774 | 1.0880 | .42495    | .20253 | .33111 | 3.1285 |
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280    | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | .21260 | 1.9917 | .51223 | .07488    | 2.9423 | .31351 | .19748 |
| Stddev | .00071 | .0757  | .00239 | .00109    | .0363  | .00139 | .00094 |
| %RSD   | .33344 | 3.8013 | .46644 | 1.4581    | 1.2330 | .44477 | .47428 |
| #1     | .21198 | 1.9627 | .50982 | .07554    | 2.9050 | .31461 | .19644 |
| #2     | .21338 | 2.0776 | .51227 | .07362    | 2.9774 | .31399 | .19774 |
| #3     | .21245 | 1.9347 | .51460 | .07548    | 2.9445 | .31194 | .19826 |
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.062 | .39524 | .28607 | F -.00480 | .90846 | .65819 | .19428 |
| Stddev | .066   | .00159 | .01406 | .00486    | .01808 | .00304 | .00819 |
| %RSD   | .65208 | .40329 | 4.9146 | 101.14    | 1.9904 | .46155 | 4.2167 |
| #1     | 10.013 | .39467 | .28276 | -.00992   | .89328 | .65475 | .18536 |
| #2     | 10.137 | .39704 | .30148 | -.00025   | .90364 | .65933 | .19601 |
| #3     | 10.037 | .39401 | .27396 | -.00424   | .92847 | .66050 | .20147 |

Sample Name: PB117934BS      Acquired: 3/27/2019 14:32:36      Type: Unk  
Method: P4-ICP2(v2989)      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       | .20787 | F 5.447 | .19957 | F 2.1661 | F<.00000 |
| Stddev    | .00573 | .038    | .00406 | .2048    | 13.640   |
| %RSD      | 2.7556 | .7021   | 2.0335 | 9.4543   | 5.3635   |
| #1        | .20126 | 5.453   | .19488 | 1.9309   | -248.54  |
| #2        | .21142 | 5.483   | .20197 | 2.3047   | -269.90  |
| #3        | .21092 | 5.407   | .20185 | 2.2628   | -244.52  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2919.0 | 53806.  | 3040.9 | 44.678   | 3902.0   |
| Stddev    | 6.0    | 274.    | 48.0   | 1.901    | 2.3      |
| %RSD      | .20430 | .50885  | 1.5790 | 4.2543   | .05953   |
| #1        | 2912.7 | 53794.  | 3096.2 | 45.808   | 3900.5   |
| #2        | 2919.7 | 53538.  | 3017.0 | 42.483   | 3900.8   |
| #3        | 2924.6 | 54085.  | 3009.6 | 45.742   | 3904.7   |

Sample Name: PB117932BS      Acquired: 3/27/2019 14:36:44      Type: Unk  
Method: P4-ICP2(v2989)      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    | .80718 | 2.0748 | 1.0155 | 2.0342 | .80999 | 2.0624 | .21494 |
| Stddev | .00468 | .0032  | .0007  | .0088  | .00286 | .0201  | .00188 |
| %RSD   | .57941 | .15613 | .06585 | .43100 | .35318 | .97643 | .87495 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .80731 | 2.0716 | 1.0150 | 2.0241 | .80958 | 2.0440 | .21583 |
| #2 | .81179 | 2.0747 | 1.0162 | 2.0399 | .81303 | 2.0593 | .21621 |
| #3 | .80244 | 2.0781 | 1.0152 | 2.0385 | .80735 | 2.0839 | .21278 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21033 | .20138 | 1.0798 | .43197 | .20572 | .33712 | 3.1962 |
| Stddev | .00021 | .00018 | .0340  | .00246 | .00030 | .00081 | .0102  |
| %RSD   | .10133 | .08990 | 3.1479 | .56962 | .14689 | .24052 | .31924 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21048 | .20137 | 1.1013 | .43442 | .20540 | .33621 | 3.2077 |
| #2 | .21009 | .20120 | 1.0975 | .42950 | .20576 | .33778 | 3.1881 |
| #3 | .21042 | .20156 | 1.0406 | .43200 | .20600 | .33737 | 3.1928 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21633 | 2.1086 | .52315 | .07576 | 3.0387 | .31802 | .20202 |
| Stddev | .00078 | .0547  | .00157 | .00034 | .0026  | .00168 | .00015 |
| %RSD   | .36161 | 2.5935 | .30002 | .44440 | .08624 | .52829 | .07652 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21661 | 2.1656 | .52346 | .07610 | 3.0380 | .31823 | .20217 |
| #2 | .21545 | 2.0566 | .52145 | .07574 | 3.0415 | .31959 | .20203 |
| #3 | .21694 | 2.1034 | .52455 | .07543 | 3.0364 | .31625 | .20186 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.365 | .40593 | .31975 | F -.00315 | .91773 | .68198 | .19885 |
| Stddev | .028   | .00025 | .01952 | .00180    | .00869 | .00216 | .00363 |
| %RSD   | .26646 | .06081 | 6.1042 | 57.021    | .94741 | .31606 | 1.8257 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.343 | .40617 | .31899 | -.00393 | .91627 | .68154 | .20303 |
| #2 | 10.396 | .40567 | .30062 | -.00443 | .90986 | .68008 | .19705 |
| #3 | 10.357 | .40596 | .33964 | -.00110 | .92707 | .68433 | .19648 |

Sample Name: PB117932BS      Acquired: 3/27/2019 14:36:44      Type: Unk  
Method: P4-ICP2(v2989)      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       | .20778 | F 5.569 | .20567 | F 2.5742 | F<.00000 |
| Stddev    | .00095 | .012    | .00038 | .2530    | 16.875   |
| %RSD      | .45643 | .2119   | .18298 | 9.8286   | 6.2439   |
| #1        | .20855 | 5.570   | .20594 | 2.8588   | -279.93  |
| #2        | .20807 | 5.580   | .20524 | 2.4891   | -280.08  |
| #3        | .20672 | 5.556   | .20583 | 2.3748   | -250.78  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2885.9 | 53194.  | 3035.8 | 43.231   | 3842.2   |
| Stddev    | 5.4    | 156.    | 9.5    | .923     | 7.8      |
| %RSD      | .18750 | .29289  | .31375 | 2.1342   | .20358   |
| #1        | 2879.7 | 53015.  | 3033.1 | 43.883   | 3834.0   |
| #2        | 2889.8 | 53297.  | 3046.4 | 43.633   | 3849.6   |
| #3        | 2888.3 | 53270.  | 3027.9 | 42.175   | 3843.0   |

Sample Name: PB118138BL      Acquired: 3/27/2019 14:49:55      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00059   | -.00015 | -.00072  | .00267  | -.00077  | -.02139  | -.00060 | -.00004  |
| Stddev | .00104   | .00141  | .00130   | .00370  | .00176   | .01429   | .00140  | .00011   |
| %RSD   | 177.77   | 946.19  | 181.07   | 138.38  | 229.37   | 66.800   | 234.13  | 286.32   |
| #1     | .00076   | .00147  | -.00180  | .00092  | -.00279  | -.03562  | -.00147 | -.00007  |
| #2     | .00153   | -.00100 | .00072   | .00693  | .00012   | -.02151  | .00102  | -.00013  |
| #3     | -.00053  | -.00092 | -.00108  | .00018  | .00037   | -.00704  | -.00134 | .00009   |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286  | Cu2247   | Fe2404   | Mn2576  | Mg2790   |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm      | ppm      | ppm     | ppm      |
| Avg    | .00008   | .00138  | -.00019  | .00003  | .00332   | -.00395  | -.00025 | -.04106  |
| Stddev | .00004   | .00649  | .00055   | .00016  | .00005   | .00108   | .00007  | .03566   |
| %RSD   | 43.097   | 471.08  | 291.56   | 474.22  | 1.6015   | 27.464   | 27.628  | 86.846   |
| #1     | .00008   | -.00173 | -.00049  | -.00011 | .00326   | -.00366  | -.00017 | -.02002  |
| #2     | .00012   | .00884  | .00045   | .00021  | .00335   | -.00515  | -.00026 | -.02093  |
| #3     | .00005   | -.00297 | -.00053  | .00001  | .00335   | -.00304  | -.00031 | -.08224  |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924  | Zn2138   | K_7664   | Mo2020  | B_2496   |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm      | ppm      | ppm     | ppm      |
| Avg    | .00092   | .00066  | F 2.5621 | .00018  | -.00007  | F .53099 | .00009  | .01160   |
| Stddev | .00061   | .00016  | .2288    | .00014  | .00006   | .09551   | .00014  | .01739   |
| %RSD   | 65.632   | 24.616  | 8.9308   | 80.011  | 81.682   | 17.988   | 153.79  | 149.98   |
| #1     | .00159   | .00080  | 2.8046   | .00002  | -.00012  | .59355   | .00006  | .01909   |
| #2     | .00042   | .00048  | 2.5318   | .00028  | -.00001  | .57836   | -.00003 | .02399   |
| #3     | .00075   | .00070  | 2.3500   | .00024  | -.00009  | .42105   | .00024  | -.00829  |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361  | Li6707   | P_1774   | Sr4077  | U_3670   |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm      | ppm      | ppm     | ppm      |
| Avg    | F .02660 | .00155  | .00084   | -.00041 | F .05038 | .0007    | .00006  | F 1.9409 |
| Stddev | .00690   | .00233  | .00079   | .00324  | .00574   | .0004    | .00006  | .3233    |
| %RSD   | 25.931   | 149.83  | 93.964   | 792.17  | 11.391   | 51.53    | 99.485  | 16.659   |
| #1     | .03321   | .00260  | .00159   | .00314  | .05699   | .0009    | .00008  | 2.1480   |
| #2     | .02716   | .00318  | .00093   | -.00319 | .04747   | .0003    | -.00001 | 1.5683   |
| #3     | .01945   | -.00111 | .00001   | -.00118 | .04668   | .0009    | .00010  | 2.1064   |

Sample Name: PB118138BL      Acquired: 3/27/2019 14:49:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 29.896  
Stddev      50.705  
%RSD      169.60

#1      67.860  
#2      49.516  
#3      -27.687

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2900.9 | 53397. | 3046.8 | 44.269 | 3908.5 |
| Stddev    | 9.9    | 152.   | 20.6   | 2.808  | 11.1   |
| %RSD      | .34254 | .28524 | .67689 | 6.3421 | .28350 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2889.6 | 53410. | 3023.0 | 43.300 | 3898.1 |
| #2 | 2904.9 | 53542. | 3058.9 | 47.433 | 3907.2 |
| #3 | 2908.3 | 53238. | 3058.6 | 42.075 | 3920.1 |

Sample Name: PB118138BS      Acquired: 3/27/2019 14:54:22      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79382 | 2.0339 | 1.0012 | 1.9868 | .78774 | 2.0091 | .20607 |
| Stddev | .00462 | .0079  | .0033  | .0065  | .00147 | .0283  | .00039 |
| %RSD   | .58234 | .39039 | .32961 | .32654 | .18711 | 1.4104 | .18881 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78865 | 2.0254 | 1.0040 | 1.9795 | .78884 | 1.9798 | .20652 |
| #2 | .79755 | 2.0352 | .99756 | 1.9891 | .78606 | 2.0112 | .20583 |
| #3 | .79525 | 2.0412 | 1.0019 | 1.9919 | .78831 | 2.0363 | .20587 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20664 | .19857 | 1.0580 | .42596 | .20302 | .33322 | 3.1069 |
| Stddev | .00060 | .00061 | .0166  | .00069 | .00055 | .00044 | .0079  |
| %RSD   | .29056 | .30503 | 1.5667 | .16108 | .26959 | .13199 | .25474 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20644 | .19926 | 1.0507 | .42570 | .20362 | .33364 | 3.1161 |
| #2 | .20617 | .19825 | 1.0463 | .42545 | .20287 | .33326 | 3.1025 |
| #3 | .20732 | .19818 | 1.0769 | .42674 | .20255 | .33276 | 3.1022 |

|        |        |        |        |        |          |        |        |
|--------|--------|--------|--------|--------|----------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895   | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    |
| Avg    | .21208 | 2.0133 | .51700 | .07418 | F 3.7796 | .31240 | .19962 |
| Stddev | .00026 | .0737  | .00209 | .00124 | .0114    | .00068 | .00065 |
| %RSD   | .12232 | 3.6600 | .40361 | 1.6655 | .30192   | .21846 | .32499 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21189 | 2.0525 | .51938 | .07282 | 3.7888 | .31266 | .20037 |
| #2 | .21198 | 1.9283 | .51613 | .07448 | 3.7830 | .31163 | .19932 |
| #3 | .21238 | 2.0590 | .51549 | .07524 | 3.7668 | .31292 | .19918 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 10.286 | .39555 | .29450 | F .00302 | .92192 | .66477 | .19766 |
| Stddev | .057   | .00063 | .01796 | .00158   | .00867 | .00122 | .00215 |
| %RSD   | .55074 | .15986 | 6.0991 | 52.426   | .94067 | .18385 | 1.0856 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.221 | .39540 | .31487 | .00126 | .92318 | .66341 | .19521 |
| #2 | 10.318 | .39500 | .28096 | .00433 | .92989 | .66514 | .19921 |
| #3 | 10.320 | .39624 | .28767 | .00346 | .91268 | .66577 | .19856 |



Sample Name: PB118138BS      Acquired: 3/27/2019 14:54:22      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .22311 | F 5.496 | .20330 | F 2.4946 | F<.00000 |
| Stddev | .00120 | .026    | .00070 | .1147    | 27.421   |
| %RSD   | .54005 | .4718   | .34327 | 4.5981   | 10.315   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .22436 | 5.467 | .20262 | 2.6068 | -235.49 |
| #2 | .22301 | 5.514 | .20401 | 2.3775 | -273.22 |
| #3 | .22196 | 5.509 | .20327 | 2.4994 | -288.83 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2918.0 | 53788. | 3027.4 | 43.633 | 3859.3 |
| Stddev    | 7.3    | 88.    | 19.6   | .386   | 14.7   |
| %RSD      | .24860 | .16409 | .64739 | .88536 | .38160 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2914.2 | 53759. | 3025.3 | 44.067 | 3846.2 |
| #2 | 2913.4 | 53718. | 3008.8 | 43.508 | 3856.6 |
| #3 | 2926.3 | 53887. | 3047.9 | 43.325 | 3875.3 |

Sample Name: PB118237BL      Acquired: 3/27/2019 14:58:29      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00004   | .00008  | -.00018 | .00193  | .00071   | -.02402 | -.00041 | -.00004  |
| Stddev | .00177   | .00122  | .00122  | .00207  | .00131   | .01109  | .00084  | .00004   |
| %RSD   | 4975.6   | 1547.4  | 693.05  | 106.84  | 183.74   | 46.171  | 206.26  | 86.650   |
| #1     | .00011   | .00147  | -.00083 | .00334  | .00124   | -.03682 | -.00104 | -.00008  |
| #2     | .00176   | -.00081 | .00124  | .00290  | -.00078  | -.01743 | .00055  | -.00005  |
| #3     | -.00177  | -.00042 | -.00094 | -.00044 | .00168   | -.01780 | -.00073 | -.00000  |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247   | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00005   | .00192  | .00028  | -.00031 | .00077   | -.00602 | -.00040 | .06207   |
| Stddev | .00015   | .02821  | .00048  | .00020  | .00027   | .00103  | .00008  | .03262   |
| %RSD   | 288.33   | 1467.6  | 173.91  | 65.145  | 35.055   | 17.085  | 20.929  | 52.554   |
| #1     | .00017   | -.01974 | .00082  | -.00009 | .00053   | -.00586 | -.00030 | .05435   |
| #2     | -.00011  | -.00831 | .00008  | -.00034 | .00106   | -.00508 | -.00046 | .03401   |
| #3     | .00010   | .03382  | -.00008 | -.00049 | .00072   | -.00712 | -.00042 | .09786   |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138   | K_7664  | Mo2020  | B_2496   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00120   | -.00006 | .49597  | .00004  | -.00023  | .14605  | -.00026 | .00600   |
| Stddev | .00068   | .00053  | .02772  | .00067  | .00001   | .04450  | .00014  | .01312   |
| %RSD   | 56.347   | 946.20  | 5.5884  | 1729.8  | 5.0755   | 30.469  | 52.941  | 218.79   |
| #1     | .00046   | -.00067 | .51408  | -.00011 | -.00023  | .18235  | -.00023 | .02071   |
| #2     | .00178   | .00030  | .50977  | .00077  | -.00025  | .09640  | -.00041 | .00176   |
| #3     | .00137   | .00020  | .46406  | -.00054 | -.00023  | .15940  | -.00014 | -.00448  |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707   | P_1774  | Sr4077  | U_3670   |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | F .00762 | .00076  | .00000  | .00016  | F .00807 | -.0020  | .00001  | F 2.0651 |
| Stddev | .00271   | .00260  | .00049  | .00265  | .00063   | .0019   | .00006  | .1615    |
| %RSD   | 35.600   | 342.07  | 10727.  | 1610.6  | 7.8012   | 96.55   | 732.41  | 7.8189   |
| #1     | .00696   | -.00182 | -.00022 | .00219  | .00737   | -.0035  | .00005  | 2.1265   |
| #2     | .01060   | .00337  | -.00033 | .00115  | .00857   | .0002   | -.00005 | 1.8819   |
| #3     | .00530   | .00073  | .00056  | -.00284 | .00828   | -.0027  | .00002  | 2.1869   |

Sample Name: PB118237BL      Acquired: 3/27/2019 14:58:29      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 31.712  
Stddev      51.842  
%RSD      163.48

#1      58.219  
#2      64.941  
#3      -28.024

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2923.6 | 53920. | 3027.5 | 43.956 | 3927.1 |
| Stddev    | 5.2    | 191.   | 8.2    | 1.750  | 6.7    |
| %RSD      | .17658 | .35453 | .27041 | 3.9807 | .17094 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2921.9 | 53715. | 3018.1 | 43.000 | 3924.5 |
| #2 | 2919.5 | 54093. | 3032.3 | 42.892 | 3922.2 |
| #3 | 2929.4 | 53953. | 3032.2 | 45.975 | 3934.8 |

Sample Name: PB118237BS      Acquired: 3/27/2019 15:07:03      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79975 | 2.0520 | 1.0075 | 2.0092 | .80542 | 2.0360 | .20885 |
| Stddev | .00299 | .0087  | .0012  | .0080  | .00283 | .0166  | .00137 |
| %RSD   | .37331 | .42218 | .11498 | .39616 | .35098 | .81426 | .65632 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .79709 | 2.0431 | 1.0068 | 2.0021 | .80230 | 2.0338 | .20763 |
| #2 | .80298 | 2.0523 | 1.0089 | 2.0076 | .80781 | 2.0535 | .21034 |
| #3 | .79917 | 2.0605 | 1.0069 | 2.0178 | .80615 | 2.0205 | .20859 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20834 | .19979 | 1.0612 | .43050 | .20390 | .33573 | 3.1494 |
| Stddev | .00018 | .00022 | .0134  | .00069 | .00104 | .00153 | .0030  |
| %RSD   | .08759 | .11011 | 1.2597 | .16102 | .51020 | .45512 | .09394 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20846 | .19961 | 1.0462 | .42970 | .20271 | .33548 | 3.1485 |
| #2 | .20842 | .20003 | 1.0657 | .43080 | .20460 | .33736 | 3.1470 |
| #3 | .20813 | .19972 | 1.0719 | .43099 | .20440 | .33434 | 3.1527 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21446 | 2.0723 | .51995 | .07445 | 3.2766 | .31473 | .20084 |
| Stddev | .00027 | .1554  | .00072 | .00048 | .0202  | .00116 | .00082 |
| %RSD   | .12492 | 7.4977 | .13872 | .65083 | .61742 | .36742 | .40594 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21477 | 1.9723 | .51919 | .07403 | 3.2533 | .31354 | .20005 |
| #2 | .21428 | 2.2513 | .52063 | .07498 | 3.2898 | .31585 | .20168 |
| #3 | .21434 | 1.9932 | .52003 | .07435 | 3.2868 | .31479 | .20078 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.349 | .40225 | .32763 | F -.00027 | .92537 | .67192 | .20025 |
| Stddev | .099   | .00075 | .00738 | .00070    | .00218 | .00186 | .00310 |
| %RSD   | .95793 | .18557 | 2.2514 | 262.22    | .23538 | .27738 | 1.5474 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.276 | .40151 | .33373 | -.00083 | .92288 | .67336 | .19724 |
| #2 | 10.462 | .40300 | .32974 | -.00049 | .92695 | .66982 | .20343 |
| #3 | 10.309 | .40223 | .31943 | .00052  | .92627 | .67259 | .20007 |

Sample Name: PB118237BS      Acquired: 3/27/2019 15:07:03      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .21272 | F 5.516 | .20372 | F 2.4913 | F<.00000 |
| Stddev    | .00050 | .028    | .00111 | .1892    | 17.023   |
| %RSD      | .23656 | .5117   | .54276 | 7.5934   | 5.9154   |
| #1        | .21263 | 5.501   | .20426 | 2.6015   | -301.40  |
| #2        | .21326 | 5.499   | .20445 | 2.5994   | -268.69  |
| #3        | .21227 | 5.549   | .20245 | 2.2728   | -293.22  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2906.2 | 53598.  | 3049.5 | 44.314   | 3866.7   |
| Stddev    | 4.8    | 207.    | 17.2   | .364     | 4.4      |
| %RSD      | .16663 | .38557  | .56373 | .82107   | .11376   |
| #1        | 2911.4 | 53736.  | 3030.9 | 44.125   | 3871.8   |
| #2        | 2901.8 | 53360.  | 3052.8 | 44.083   | 3863.8   |
| #3        | 2905.4 | 53697.  | 3064.8 | 44.733   | 3864.6   |

Sample Name: K2026-01      Acquired: 3/27/2019 15:24:47      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00360 | -.00067 | .01053 | .00036 | -.00106 | .00170 | -.00147 | .00002 |
| Stddev | .00063  | .00070  | .00026 | .00062 | .00091  | .00850 | .00037  | .00004 |
| %RSD   | 17.614  | 103.75  | 2.4768 | 170.56 | 86.539  | 499.05 | 25.284  | 211.75 |

|    |         |         |        |         |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.00289 | -.00013 | .01027 | -.00035 | -.00015 | .00421  | -.00190 | -.00002 |
| #2 | -.00378 | -.00043 | .01054 | .00079  | -.00198 | -.00777 | -.00126 | .00007  |
| #3 | -.00412 | -.00147 | .01079 | .00065  | -.00104 | .00867  | -.00125 | .00002  |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00020 | .21140 | .00049 | .00002 | .07188 | .01226 | .00017 | .00823 |
| Stddev | .00003 | .00821 | .00079 | .00005 | .00014 | .00098 | .00006 | .05566 |
| %RSD   | 16.535 | 3.8849 | 159.38 | 320.63 | .19074 | 7.9558 | 33.133 | 676.31 |

|    |        |        |         |         |        |        |        |         |
|----|--------|--------|---------|---------|--------|--------|--------|---------|
| #1 | .00017 | .20879 | .00114  | -.00004 | .07192 | .01277 | .00016 | .02226  |
| #2 | .00020 | .20481 | .00072  | .00006  | .07199 | .01114 | .00024 | .05553  |
| #3 | .00023 | .22060 | -.00038 | .00002  | .07173 | .01289 | .00012 | -.05310 |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .02024 | -.00047 | .51676 | -.00027 | .13552 | .37274 | -.00013 | .01535 |
| Stddev | .00065 | .00073  | .01277 | .00015  | .00032 | .01704 | .00048  | .01169 |
| %RSD   | 3.1923 | 155.56  | 2.4718 | 55.307  | .23791 | 4.5706 | 378.74  | 76.152 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .02018 | .00037  | .53020 | -.00011 | .13529 | .36947 | -.00052 | .02042 |
| #2 | .02092 | -.00080 | .50477 | -.00040 | .13589 | .35758 | .00041  | .00198 |
| #3 | .01963 | -.00098 | .51530 | -.00032 | .13539 | .39118 | -.00028 | .02364 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01365 | 2.6715 | -.00030 | -.00061 | -.00336 | .0046  | .00041 | 1.2126 |
| Stddev | .00241 | .0440  | .00058  | .00163  | .00210  | .0024  | .00004 | .3010  |
| %RSD   | 17.688 | 1.6485 | 191.19  | 267.64  | 62.576  | 52.00  | 9.6283 | 24.826 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | .01103 | 2.7020 | -.00096 | .00028  | -.00205 | .0060 | .00045 | .99310 |
| #2 | .01412 | 2.6915 | -.00004 | .00038  | -.00578 | .0059 | .00041 | 1.0888 |
| #3 | .01579 | 2.6210 | .00009  | -.00249 | -.00224 | .0018 | .00037 | 1.5557 |

Sample Name: K2026-01      Acquired: 3/27/2019 15:24:47      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      32.726  
 Stddev      14.941  
 %RSD      45.655

#1      49.661  
 #2      21.409  
 #3      27.106

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3012.9 | 55262. | 3165.0 | 44.719 | 4089.3 |
| Stddev    | 4.7    | 92.    | 48.0   | .248   | 5.4    |
| %RSD      | .15434 | .16709 | 1.5167 | .55478 | .13221 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3013.8 | 55182. | 3143.4 | 44.850 | 4086.8 |
| #2 | 3017.0 | 55363. | 3131.6 | 44.875 | 4095.5 |
| #3 | 3007.8 | 55242. | 3220.0 | 44.433 | 4085.7 |

Sample Name: K2026-02      Acquired: 3/27/2019 15:29:13      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00044 | -.00026 | .00712 | -.00425 | -.00196 | .00356 | .00136 | -.00006 |
| Stddev | .00124  | .00050  | .00023 | .00308  | .00108  | .01266 | .00015 | .00012  |
| %RSD   | 283.34  | 187.44  | 3.2001 | 72.439  | 55.027  | 355.49 | 10.721 | 189.41  |

|    |         |         |        |         |         |         |        |         |
|----|---------|---------|--------|---------|---------|---------|--------|---------|
| #1 | -.00175 | -.00072 | .00730 | -.00133 | -.00123 | .01807  | .00129 | .00004  |
| #2 | -.00030 | .00026  | .00686 | -.00396 | -.00145 | -.00206 | .00125 | -.00019 |
| #3 | .00073  | -.00033 | .00719 | -.00746 | -.00319 | -.00532 | .00152 | -.00004 |

|        |        |        |        |         |        |        |        |         |
|--------|--------|--------|--------|---------|--------|--------|--------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00004 | .13109 | .00119 | -.00038 | .05038 | .01424 | .00109 | -.01879 |
| Stddev | .00008 | .03380 | .00013 | .00016  | .00025 | .00102 | .00002 | .05864  |
| %RSD   | 183.72 | 25.780 | 10.929 | 40.817  | .49790 | 7.1654 | 1.7769 | 312.05  |

|    |         |        |        |         |        |        |        |         |
|----|---------|--------|--------|---------|--------|--------|--------|---------|
| #1 | .00009  | .13664 | .00108 | -.00021 | .05009 | .01307 | .00112 | .01871  |
| #2 | .00008  | .09487 | .00115 | -.00043 | .05055 | .01472 | .00108 | -.08637 |
| #3 | -.00005 | .16177 | .00133 | -.00051 | .05049 | .01493 | .00108 | .01128  |

|        |        |         |        |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .01195 | -.00025 | .22766 | .00011 | .10071 | .10310 | -.00006 | .02455 |
| Stddev | .00030 | .00089  | .01511 | .00069 | .00027 | .01960 | .00020  | .00330 |
| %RSD   | 2.5149 | 358.14  | 6.6353 | 621.73 | .26824 | 19.007 | 330.92  | 13.429 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .01204 | -.00082 | .21207 | .00069  | .10099 | .12535 | .00013  | .02644 |
| #2 | .01161 | .00078  | .22867 | .00029  | .10070 | .09554 | -.00026 | .02075 |
| #3 | .01220 | -.00071 | .24223 | -.00065 | .10045 | .08841 | -.00004 | .02648 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01697 | 1.9632 | -.00035 | -.00200 | -.00513 | .0032  | .00143 | .75973 |
| Stddev | .00270 | .0323  | .00096  | .00147  | .00116  | .0011  | .00006 | .26332 |
| %RSD   | 15.897 | 1.6477 | 271.28  | 73.335  | 22.552  | 35.13  | 4.2867 | 34.660 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | .01696 | 1.9579 | -.00053 | -.00033 | -.00394 | .0040 | .00136 | .76676 |
| #2 | .01968 | 1.9978 | .00068  | -.00261 | -.00625 | .0019 | .00148 | .49297 |
| #3 | .01428 | 1.9338 | -.00121 | -.00306 | -.00521 | .0036 | .00146 | 1.0195 |



Sample Name: K2026-02      Acquired: 3/27/2019 15:29:13      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      27.804  
 Stddev      30.316  
 %RSD      109.04

#1      51.036  
 #2      -6.4903  
 #3      38.865

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2998.3 | 55245. | 3160.1 | 45.147 | 4077.6 |
| Stddev    | 5.5    | 138.   | 23.3   | .963   | 5.9    |
| %RSD      | .18180 | .24919 | .73691 | 2.1338 | .14513 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3004.4 | 55092. | 3157.1 | 44.208 | 4077.6 |
| #2 | 2996.6 | 55358. | 3138.5 | 45.100 | 4071.6 |
| #3 | 2993.9 | 55285. | 3184.8 | 46.133 | 4083.5 |

Sample Name: K2032-10      Acquired: 3/27/2019 15:33:39      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00066   | .00034  | .00251  | .00211  | -.00081 | -.03482 | .00344  | -.00002 |
| Stddev | .00207   | .00079  | .00063  | .00061  | .00079  | .01092  | .00077  | .00008  |
| %RSD   | 316.52   | 232.10  | 25.045  | 28.960  | 97.424  | 31.358  | 22.308  | 351.96  |
| #1     | -.00098  | .00095  | .00230  | .00177  | -.00099 | -.04738 | .00362  | -.00005 |
| #2     | .00299   | .00063  | .00202  | .00282  | -.00149 | -.02957 | .00260  | .00007  |
| #3     | -.00004  | -.00055 | .00322  | .00175  | .00005  | -.02752 | .00410  | -.00009 |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00020   | 11.723  | -.00073 | -.00016 | .00084  | -.00830 | .00170  | 27.698  |
| Stddev | .00017   | .033    | .00006  | .00026  | .00026  | .00128  | .00005  | .230    |
| %RSD   | 84.027   | .28000  | 7.7052  | 166.05  | 30.684  | 15.480  | 2.6945  | .82879  |
| #1     | .00018   | 11.751  | -.00079 | -.00041 | .00058  | -.00713 | .00175  | 27.594  |
| #2     | .00037   | 11.687  | -.00070 | .00011  | .00086  | -.00967 | .00165  | 27.539  |
| #3     | .00004   | 11.731  | -.00069 | -.00016 | .00109  | -.00809 | .00171  | 27.961  |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00196  | .00001  | 226.37  | -.00055 | .00074  | 8.9690  | -.00005 | .08766  |
| Stddev | .00008   | .00030  | .64     | .00013  | .00009  | .0853   | .00016  | .01276  |
| %RSD   | 4.1076   | 2372.4  | .28265  | 23.687  | 11.957  | .95148  | 338.53  | 14.560  |
| #1     | -.00195  | -.00014 | 227.02  | -.00042 | .00064  | 8.9568  | -.00022 | .09662  |
| #2     | -.00204  | .00036  | 225.74  | -.00068 | .00078  | 8.8904  | -.00001 | .09332  |
| #3     | -.00188  | -.00018 | 226.36  | -.00055 | .00081  | 9.0597  | .00009  | .07305  |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | F 19.497 | .30567  | -.00672 | .00095  | .01049  | .0038   | .16985  | 4.0051  |
| Stddev | .199     | .00292  | .00084  | .00240  | .00158  | .0032   | .00061  | .1988   |
| %RSD   | 1.0186   | .95403  | 12.476  | 253.00  | 15.107  | 82.86   | .36029  | 4.9647  |
| #1     | 19.324   | .30744  | -.00579 | .00051  | .00989  | .0012   | .16958  | 3.9258  |
| #2     | 19.454   | .30726  | -.00743 | .00354  | .00929  | .0074   | .16943  | 4.2313  |
| #3     | 19.714   | .30230  | -.00693 | -.00120 | .01229  | .0030   | .17056  | 3.8581  |

Sample Name: K2032-10      Acquired: 3/27/2019 15:33:39      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 85.728 |
| Stddev | 29.413 |
| %RSD   | 34.310 |

|    |        |
|----|--------|
| #1 | 94.201 |
| #2 | 109.97 |
| #3 | 53.008 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2781.0 | 51154. | 3039.2 | 42.631 | 3521.2 |
| Stddev    | 4.1    | 128.   | 24.4   | 1.244  | 16.4   |
| %RSD      | .14633 | .24977 | .80381 | 2.9183 | .46552 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2778.3 | 51050. | 3033.4 | 41.208 | 3527.4 |
| #2 | 2785.7 | 51116. | 3018.2 | 43.169 | 3533.5 |
| #3 | 2779.1 | 51297. | 3066.0 | 43.515 | 3502.6 |

Sample Name: K2035-16      Acquired: 3/27/2019 15:38:03      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00241 | .00050 | .00151 | .00193 | -.00144 | -.03036 | .00274 | .00006 |
| Stddev | .00091 | .00073 | .00001 | .00520 | .00164  | .00697  | .00120 | .00004 |
| %RSD   | 37.642 | 143.83 | .47559 | 269.64 | 113.61  | 22.962  | 43.581 | 61.363 |

|    |        |         |        |         |         |         |        |        |
|----|--------|---------|--------|---------|---------|---------|--------|--------|
| #1 | .00277 | .00092  | .00152 | .00791  | -.00333 | -.03757 | .00331 | .00011 |
| #2 | .00308 | -.00033 | .00150 | -.00149 | -.00039 | -.02983 | .00137 | .00005 |
| #3 | .00138 | .00092  | .00151 | -.00063 | -.00061 | -.02366 | .00355 | .00003 |

|        |        |        |         |         |        |         |        |        |
|--------|--------|--------|---------|---------|--------|---------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00025 | 9.3217 | -.00015 | -.00015 | .00055 | -.00784 | .00171 | 19.676 |
| Stddev | .00003 | .1080  | .00052  | .00013  | .00005 | .00125  | .00004 | .182   |
| %RSD   | 13.598 | 1.1591 | 346.44  | 86.579  | 9.5415 | 15.945  | 2.1171 | .92388 |

|    |        |        |         |         |        |         |        |        |
|----|--------|--------|---------|---------|--------|---------|--------|--------|
| #1 | .00024 | 9.1976 | .00037  | -.00026 | .00053 | -.00911 | .00175 | 19.613 |
| #2 | .00022 | 9.3727 | -.00067 | -.00019 | .00051 | -.00661 | .00170 | 19.534 |
| #3 | .00028 | 9.3948 | -.00015 | -.00001 | .00061 | -.00781 | .00169 | 19.881 |

|        |         |        |        |         |        |        |        |        |
|--------|---------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316  | Ag3280 | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00123 | .00021 | 161.27 | -.00048 | .00020 | 6.3159 | .00020 | .06847 |
| Stddev | .00026  | .00073 | .66    | .00071  | .00009 | .0644  | .00017 | .02518 |
| %RSD   | 20.977  | 353.26 | .40816 | 146.48  | 45.590 | 1.0195 | 84.868 | 36.772 |

|    |         |         |        |         |        |        |        |        |
|----|---------|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00094 | .00088  | 161.47 | -.00112 | .00030 | 6.2420 | .00002 | .06711 |
| #2 | -.00138 | -.00057 | 160.53 | -.00061 | .00013 | 6.3596 | .00024 | .04400 |
| #3 | -.00139 | .00030  | 161.80 | .00028  | .00016 | 6.3461 | .00035 | .09430 |

|        |          |        |         |         |        |        |        |        |
|--------|----------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | S_1820   | Si2881 | Sn1899  | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 14.051 | .32219 | -.00493 | -.00068 | .00942 | .0029  | .12587 | 3.2604 |
| Stddev | .214     | .00434 | .00046  | .00246  | .00265 | .0003  | .00111 | .2288  |
| %RSD   | 1.5244   | 1.3474 | 9.3610  | 360.27  | 28.160 | 11.87  | .87886 | 7.0176 |

|    |        |        |         |         |        |       |        |        |
|----|--------|--------|---------|---------|--------|-------|--------|--------|
| #1 | 13.892 | .31743 | -.00444 | .00213  | .01201 | .0031 | .12473 | 3.2376 |
| #2 | 13.967 | .32323 | -.00536 | -.00177 | .00954 | .0030 | .12694 | 3.4997 |
| #3 | 14.294 | .32593 | -.00499 | -.00241 | .00671 | .0025 | .12594 | 3.0438 |

Sample Name: K2035-16      Acquired: 3/27/2019 15:38:03      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 89.630 |
| Stddev | 42.967 |
| %RSD   | 47.938 |

|    |        |
|----|--------|
| #1 | 81.451 |
| #2 | 136.10 |
| #3 | 51.341 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2815.7 | 52006. | 3039.3 | 43.411 | 3597.8 |
| Stddev    | 5.5    | 154.   | 34.1   | .646   | 27.0   |
| %RSD      | .19391 | .29661 | 1.1220 | 1.4882 | .75055 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2821.9 | 51873. | 3032.7 | 43.187 | 3613.0 |
| #2 | 2813.2 | 51970. | 3009.0 | 44.140 | 3613.8 |
| #3 | 2811.9 | 52175. | 3076.2 | 42.907 | 3566.6 |

Sample Name: CCV03      Acquired: 3/27/2019 15:42:28      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.0556 | 5.0958 | 5.0368 | 4.9666 | 5.0244 | 10.176 | 10.258 | .25287   |
| Stddev | .0080  | .0204  | .0145  | .0079  | .0048  | .027   | .066   | .00058   |
| %RSD   | .15823 | .40056 | .28750 | .15887 | .09643 | .26198 | .64333 | .23066   |
| #1     | 5.0643 | 5.1169 | 5.0410 | 4.9757 | 5.0290 | 10.147 | 10.289 | .25300   |
| #2     | 5.0541 | 5.0761 | 5.0207 | 4.9624 | 5.0249 | 10.200 | 10.302 | .25337   |
| #3     | 5.0485 | 5.0944 | 5.0488 | 4.9618 | 5.0193 | 10.180 | 10.182 | .25223   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.5166 | 24.916 | 1.0245 | 2.5059 | 1.2891 | 4.9063 | 2.5276 | 25.197   |
| Stddev | .0083  | .165   | .0071  | .0073  | .0015  | .0315  | .0078  | .105     |
| %RSD   | .32861 | .66323 | .69399 | .29351 | .11649 | .64251 | .30888 | .41621   |
| #1     | 2.5195 | 24.899 | 1.0290 | 2.5084 | 1.2887 | 4.9365 | 2.5350 | 25.090   |
| #2     | 2.5073 | 24.760 | 1.0283 | 2.4976 | 1.2878 | 4.9088 | 2.5283 | 25.202   |
| #3     | 2.5230 | 25.089 | 1.0164 | 2.5116 | 1.2907 | 4.8736 | 2.5194 | 25.300   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.5375 | 1.2573 | 24.861 | 2.5090 | 2.5229 | 25.350 | 5.0800 | 5.0882   |
| Stddev | .0093  | .0042  | .140   | .0075  | .0063  | .154   | .0015  | .0080    |
| %RSD   | .36822 | .33469 | .56224 | .29796 | .24827 | .60789 | .02976 | .15740   |
| #1     | 2.5367 | 1.2580 | 24.961 | 2.5153 | 2.5273 | 25.361 | 5.0811 | 5.0802   |
| #2     | 2.5286 | 1.2527 | 24.920 | 2.5111 | 2.5157 | 25.498 | 5.0783 | 5.0883   |
| #3     | 2.5473 | 1.2610 | 24.701 | 2.5007 | 2.5255 | 25.190 | 5.0807 | 5.0962   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0776 | 4.9843 | 5.0406 | 5.1118 | 4.9783 | 5.103  | 5.1341 | F 3.9980 |
| Stddev | .0230  | .0246  | .0190  | .0355  | .0086  | .021   | .0095  | .4619    |
| %RSD   | .45363 | .49464 | .37645 | .69542 | .17293 | .4187  | .18598 | 11.552   |
| #1     | 5.1038 | 5.0060 | 5.0375 | 5.0789 | 4.9876 | 5.127  | 5.1444 | 4.3184   |
| #2     | 5.0687 | 4.9575 | 5.0234 | 5.1071 | 4.9767 | 5.093  | 5.1323 | 4.2071   |
| #3     | 5.0604 | 4.9894 | 5.0610 | 5.1495 | 4.9706 | 5.088  | 5.1256 | 3.4686   |

Sample Name: CCV03      Acquired: 3/27/2019 15:42:28      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 55.637  
Stddev      24.782  
%RSD      44.541

#1      67.831  
#2      27.121  
#3      71.960

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2793.7 | 51928. | 3034.5 | 41.428 | 3490.3 |
| Stddev    | 4.3    | 268.   | 14.5   | .157   | 13.7   |
| %RSD      | .15413 | .51704 | .47733 | .37936 | .39281 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2791.7 | 51673. | 3019.4 | 41.550 | 3484.3 |
| #2 | 2798.6 | 51902. | 3048.3 | 41.251 | 3506.0 |
| #3 | 2790.8 | 52208. | 3035.7 | 41.484 | 3480.7 |

Sample Name: CCB03      Acquired: 3/27/2019 15:46:27      Type: Unk  
 Method: P4-ICP2(v2989)      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    | -.00018 | -.00077 | -.00021 | -.00234 | -.00010 | -.01022 | -.00061 | -.00006 |
| Stddev | .00209  | .00027  | .00066  | .00328  | .00162  | .01294  | .00089  | .00001  |
| %RSD   | 1130.3  | 35.588  | 311.35  | 139.98  | 1652.1  | 126.53  | 145.41  | 20.461  |

|    |         |         |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|---------|---------|
| #1 | -.00038 | -.00085 | -.00051 | -.00200 | -.00102 | .00227  | .00037  | -.00008 |
| #2 | -.00217 | -.00046 | -.00067 | -.00578 | .00177  | -.00938 | -.00137 | -.00005 |
| #3 | .00199  | -.00099 | .00055  | .00075  | -.00104 | -.02356 | -.00083 | -.00006 |

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00006 | -.00938 | .00027 | -.00016 | -.00065 | -.00621 | -.00036 | -.02493 |
| Stddev | .00003 | .00863  | .00038 | .00005  | .00025  | .00115  | .00007  | .05104  |
| %RSD   | 45.496 | 92.037  | 139.13 | 34.877  | 38.249  | 18.501  | 19.886  | 204.74  |

|    |        |         |         |         |         |         |         |         |
|----|--------|---------|---------|---------|---------|---------|---------|---------|
| #1 | .00004 | -.00640 | -.00016 | -.00011 | -.00037 | -.00594 | -.00041 | .03370  |
| #2 | .00005 | -.00263 | .00045  | -.00022 | -.00085 | -.00748 | -.00028 | -.05942 |
| #3 | .00009 | -.01910 | .00053  | -.00015 | -.00073 | -.00523 | -.00039 | -.04906 |

|        |        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138  | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00095 | .00085 | .22014 | .00000 | -.00027 | .09828 | .00009 | .01134 |
| Stddev | .00066 | .00020 | .00406 | .00035 | .00004  | .04364 | .00013 | .01932 |
| %RSD   | 69.220 | 23.474 | 1.8456 | 19038. | 14.956  | 44.406 | 148.59 | 170.31 |

|    |        |        |        |         |         |        |         |         |
|----|--------|--------|--------|---------|---------|--------|---------|---------|
| #1 | .00019 | .00065 | .21633 | .00017  | -.00032 | .04916 | .00003  | -.00929 |
| #2 | .00129 | .00105 | .21966 | -.00040 | -.00027 | .13260 | .00024  | .01431  |
| #3 | .00138 | .00084 | .22442 | .00024  | -.00024 | .11307 | -.00000 | .02901  |

|        |        |        |        |         |        |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00036 | .00525 | .00207 | -.00002 | .00462 | -.0002 | .00011 | 1.4415 |
| Stddev | .00210 | .00127 | .00061 | .00128  | .00068 | .0002  | .00020 | .2193  |
| %RSD   | 577.53 | 24.132 | 29.521 | 5244.9  | 14.812 | 76.42  | 177.97 | 15.216 |

|    |         |        |        |         |        |        |         |        |
|----|---------|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00250  | .00669 | .00197 | .00094  | .00491 | -.0002 | -.00012 | 1.6454 |
| #2 | .00031  | .00477 | .00152 | .00047  | .00384 | -.0001 | .00027  | 1.4698 |
| #3 | -.00171 | .00429 | .00273 | -.00148 | .00511 | -.0004 | .00019  | 1.2094 |



Sample Name: CCB03      Acquired: 3/27/2019 15:46:27      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      35.727  
 Stddev      16.168  
 %RSD      45.253

#1      41.606  
 #2      17.443  
 #3      48.133

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2928.5 | 54025. | 3040.2 | 44.158 | 3946.8 |
| Stddev    | 1.2    | 233.   | 15.6   | .391   | 11.7   |
| %RSD      | .04074 | .43150 | .51259 | .88575 | .29581 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2928.2 | 53757. | 3024.1 | 44.608 | 3939.8 |
| #2 | 2929.9 | 54185. | 3041.4 | 43.900 | 3960.3 |
| #3 | 2927.5 | 54131. | 3055.3 | 43.967 | 3940.3 |

Sample Name: K2026-03      Acquired: 3/27/2019 15:50:55      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00193 | .00018 | .00659 | -.00176 | -.00192 | -.00581 | .00076 | -.00009 |
| Stddev | .00183  | .00157 | .00031 | .00479  | .00021  | .02119  | .00028 | .00006  |
| %RSD   | 94.557  | 872.91 | 4.7099 | 271.25  | 10.850  | 364.71  | 36.376 | 63.440  |

|    |         |         |        |         |         |         |        |         |
|----|---------|---------|--------|---------|---------|---------|--------|---------|
| #1 | -.00244 | -.00057 | .00638 | .00331  | -.00215 | .01795  | .00097 | -.00013 |
| #2 | -.00346 | .00198  | .00645 | -.00240 | -.00184 | -.01262 | .00086 | -.00002 |
| #3 | .00010  | -.00088 | .00695 | -.00620 | -.00176 | -.02275 | .00045 | -.00011 |

|        |        |        |        |         |        |        |         |         |
|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00017 | .07326 | .00061 | -.00035 | .05375 | .01083 | -.00017 | -.01422 |
| Stddev | .00005 | .00624 | .00024 | .00008  | .00007 | .00071 | .00003  | .10824  |
| %RSD   | 27.825 | 8.5142 | 39.619 | 23.647  | .12290 | 6.5303 | 18.668  | 761.04  |

|    |        |        |        |         |        |        |         |         |
|----|--------|--------|--------|---------|--------|--------|---------|---------|
| #1 | .00023 | .07817 | .00082 | -.00042 | .05379 | .01097 | -.00015 | .10429  |
| #2 | .00013 | .07538 | .00035 | -.00037 | .05378 | .01146 | -.00015 | -.10784 |
| #3 | .00017 | .06624 | .00066 | -.00026 | .05367 | .01006 | -.00020 | -.03912 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02487 | -.00044 | .04180 | .00011 | .08106 | .07358 | .00010 | .01823 |
| Stddev | .00037 | .00070  | .00788 | .00030 | .00023 | .01200 | .00014 | .02723 |
| %RSD   | 1.4815 | 157.84  | 18.842 | 276.50 | .28231 | 16.306 | 146.40 | 149.35 |

|    |        |         |        |         |        |        |         |         |
|----|--------|---------|--------|---------|--------|--------|---------|---------|
| #1 | .02452 | .00035  | .03956 | .00036  | .08093 | .08087 | .00015  | .03155  |
| #2 | .02485 | -.00096 | .03528 | .00018  | .08092 | .05974 | -.00006 | .03623  |
| #3 | .02525 | -.00072 | .05055 | -.00022 | .08132 | .08015 | .00020  | -.01309 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00653 | .06434 | -.00060 | -.00029 | -.00576 | .0018  | .00022 | 1.7254 |
| Stddev | .00147 | .00163 | .00069  | .00316  | .00253  | .0017  | .00004 | .2585  |
| %RSD   | 22.536 | 2.5302 | 114.82  | 1103.5  | 43.950  | 92.96  | 18.862 | 14.983 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | .00549 | .06621 | -.00025 | .00233  | -.00867 | .0021 | .00019 | 1.6339 |
| #2 | .00821 | .06331 | -.00015 | .00060  | -.00414 | .0034 | .00027 | 2.0172 |
| #3 | .00589 | .06349 | -.00139 | -.00379 | -.00446 | .0000 | .00021 | 1.5251 |

Sample Name: K2026-03      Acquired: 3/27/2019 15:50:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      7.7758  
Stddev      26.807  
%RSD      344.74

#1      27.651  
#2      -22.712  
#3      18.388

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2952.5 | 54369. | 3083.6 | 43.453 | 4000.4 |
| Stddev    | 4.3    | 118.   | 14.4   | .721   | 6.6    |
| %RSD      | .14484 | .21705 | .46643 | 1.6600 | .16378 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2952.8 | 54364. | 3067.7 | 42.658 | 3997.4 |
| #2 | 2948.1 | 54253. | 3087.2 | 44.067 | 4007.9 |
| #3 | 2956.7 | 54489. | 3095.8 | 43.633 | 3995.9 |

Sample Name: K1981-02      Acquired: 3/27/2019 15:55:23      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00133 | -.00055 | .00787 | .00094 | -.00044 | .15419 | .03505 | -.00007 |
| Stddev | .00093 | .00037  | .00036 | .00117 | .00295  | .01293 | .00051 | .00005  |
| %RSD   | 70.024 | 66.674  | 4.5877 | 125.07 | 675.37  | 8.3870 | 1.4532 | 73.632  |

|    |        |         |        |         |         |        |        |         |
|----|--------|---------|--------|---------|---------|--------|--------|---------|
| #1 | .00218 | -.00094 | .00827 | .00087  | -.00126 | .14307 | .03463 | -.00011 |
| #2 | .00033 | -.00051 | .00778 | -.00020 | -.00289 | .16838 | .03562 | -.00001 |
| #3 | .00149 | -.00021 | .00756 | .00214  | .00284  | .15111 | .03490 | -.00011 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00073 | 51.872 | .03944 | .00201 | .75511 | .79830 | .08212 | 4.0103 |
| Stddev | .00006 | .197   | .00211 | .00019 | .00069 | .00568 | .00043 | .0817  |
| %RSD   | 8.6181 | .37904 | 5.3483 | 9.4192 | .09128 | .71213 | .51938 | 2.0368 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00075 | 52.090 | .04174 | .00188 | .75586 | .80418 | .08260 | 3.9495 |
| #2 | .00078 | 51.708 | .03900 | .00222 | .75451 | .79283 | .08177 | 3.9784 |
| #3 | .00066 | 51.819 | .03759 | .00192 | .75496 | .79788 | .08200 | 4.1032 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .04095 | .11334 | 73.730 | .00039 | .26130 | 13.641 | .00069 | .19221 |
| Stddev | .00045 | .00088 | .550   | .00040 | .00089 | .097   | .00044 | .02566 |
| %RSD   | 1.0924 | .77461 | .74570 | 101.08 | .33983 | .70774 | 64.713 | 13.349 |

|    |        |        |        |         |        |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|--------|
| #1 | .04146 | .11433 | 73.143 | .00040  | .26224 | 13.562 | .00112 | .20139 |
| #2 | .04075 | .11303 | 73.813 | -.00001 | .26117 | 13.612 | .00023 | .21201 |
| #3 | .04064 | .11266 | 74.233 | .00079  | .26048 | 13.749 | .00071 | .16322 |

|        |        |        |         |        |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.4327 | 2.8477 | -.00014 | .00232 | .00022 | 4.720  | .06515 | 2.2842 |
| Stddev | .0076  | .0365  | .00084  | .00076 | .00121 | .013   | .00045 | .4212  |
| %RSD   | .14031 | 1.2808 | 616.90  | 32.750 | 540.21 | .2647  | .69356 | 18.441 |

|    |        |        |         |        |         |       |        |        |
|----|--------|--------|---------|--------|---------|-------|--------|--------|
| #1 | 5.4407 | 2.8882 | -.00068 | .00258 | .00112  | 4.732 | .06525 | 1.7978 |
| #2 | 5.4320 | 2.8174 | -.00056 | .00147 | .00070  | 4.719 | .06554 | 2.5295 |
| #3 | 5.4255 | 2.8374 | .00083  | .00292 | -.00115 | 4.707 | .06465 | 2.5252 |

Sample Name: K1981-02      Acquired: 3/27/2019 15:55:23      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 50.761 |
| Stddev | 29.254 |
| %RSD   | 57.631 |

|    |        |
|----|--------|
| #1 | 75.108 |
| #2 | 18.309 |
| #3 | 58.866 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2855.7 | 53331. | 3198.3 | 44.481 | 3741.4 |
| Stddev    | 3.1    | 300.   | 12.5   | 1.080  | 9.6    |
| %RSD      | .10909 | .56163 | .39233 | 2.4283 | .25557 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2857.7 | 53671. | 3184.6 | 44.813 | 3734.3 |
| #2 | 2857.2 | 53212. | 3201.1 | 43.274 | 3752.2 |
| #3 | 2852.1 | 53109. | 3209.2 | 45.357 | 3737.5 |

Sample Name: K2072-01      Acquired: 3/27/2019 15:59:41      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00101 | .00026 | .00116 | -.00224 | -.00202 | .00238 | .00036 | -.00005 |
| Stddev | .00186  | .00109 | .00054 | .00336  | .00139  | .00962 | .00062 | .00005  |
| %RSD   | 185.29  | 426.29 | 46.952 | 150.10  | 68.709  | 404.64 | 171.70 | 108.22  |

|    |         |         |        |         |         |         |         |         |
|----|---------|---------|--------|---------|---------|---------|---------|---------|
| #1 | -.00038 | .00128  | .00148 | -.00600 | -.00362 | -.00380 | .00105  | -.00010 |
| #2 | .00046  | -.00090 | .00146 | .00048  | -.00134 | .01346  | .00019  | -.00002 |
| #3 | -.00310 | .00039  | .00053 | -.00120 | -.00111 | -.00252 | -.00016 | -.00002 |

|        |        |        |        |         |        |        |         |         |
|--------|--------|--------|--------|---------|--------|--------|---------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00005 | .08369 | .00043 | -.00009 | .02265 | .01456 | -.00010 | -.01981 |
| Stddev | .00001 | .01099 | .00038 | .00014  | .00068 | .00090 | .00004  | .03666  |
| %RSD   | 14.677 | 13.129 | 87.633 | 161.49  | 3.0128 | 6.2127 | 41.170  | 185.07  |

|    |        |        |        |         |        |        |         |         |
|----|--------|--------|--------|---------|--------|--------|---------|---------|
| #1 | .00005 | .09551 | .00038 | .00006  | .02221 | .01442 | -.00008 | -.06206 |
| #2 | .00004 | .07379 | .00008 | -.00022 | .02343 | .01553 | -.00015 | -.00089 |
| #3 | .00005 | .08176 | .00084 | -.00010 | .02229 | .01374 | -.00008 | .00353  |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .03161 | -.00020 | .02638 | -.00041 | .06403 | .09970 | -.00011 | .01363 |
| Stddev | .00034 | .00023  | .01151 | .00005  | .00023 | .03544 | .00004  | .01271 |
| %RSD   | 1.0787 | 115.89  | 43.636 | 11.281  | .35386 | 35.542 | 36.558  | 93.290 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .03191 | -.00004 | .02567 | -.00044 | .06429 | .10632 | -.00013 | .00989 |
| #2 | .03167 | -.00047 | .01524 | -.00044 | .06386 | .06142 | -.00007 | .02779 |
| #3 | .03124 | -.00009 | .03822 | -.00036 | .06395 | .13136 | -.00015 | .00320 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .01456 | .01006 | -.00137 | -.00027 | -.00498 | -.0007 | .00019 | 1.6829 |
| Stddev | .00515 | .00143 | .00058  | .00259  | .00147  | .0008  | .00008 | .1881  |
| %RSD   | 35.342 | 14.213 | 42.175  | 953.63  | 29.470  | 124.4  | 40.091 | 11.175 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | .02019 | .01134 | -.00132 | -.00081 | -.00587 | -.0016 | .00025 | 1.4835 |
| #2 | .01009 | .01033 | -.00198 | -.00255 | -.00578 | -.0004 | .00010 | 1.8570 |
| #3 | .01340 | .00852 | -.00082 | .00254  | -.00329 | -.0000 | .00022 | 1.7083 |

Sample Name: K2072-01      Acquired: 3/27/2019 15:59:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 25.868 |
| Stddev | 6.309  |
| %RSD   | 24.390 |

|    |        |
|----|--------|
| #1 | 30.825 |
| #2 | 18.766 |
| #3 | 28.012 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2974.4 | 54505. | 3102.9 | 44.664 | 4037.4 |
| Stddev    | 4.8    | 221.   | 3.4    | .605   | 7.9    |
| %RSD      | .16070 | .40619 | .10978 | 1.3544 | .19668 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2979.2 | 54619. | 3103.5 | 44.108 | 4032.9 |
| #2 | 2969.7 | 54250. | 3099.3 | 45.308 | 4032.8 |
| #3 | 2974.4 | 54646. | 3106.0 | 44.575 | 4046.6 |

Sample Name: K2072-01DUP      Acquired: 3/27/2019 16:04:07      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00017 | -.00007 | .00171 | .00087 | .00025 | -.00696 | .00047 | -.00007 |
| Stddev | .00130  | .00075  | .00054 | .00198 | .00017 | .01109  | .00032 | .00007  |
| %RSD   | 766.08  | 1102.1  | 31.749 | 227.19 | 69.622 | 159.18  | 67.917 | 104.55  |

|    |         |         |        |         |        |         |        |         |
|----|---------|---------|--------|---------|--------|---------|--------|---------|
| #1 | -.00066 | -.00018 | .00130 | .00234  | .00038 | -.00341 | .00041 | -.00015 |
| #2 | -.00116 | .00073  | .00150 | .00165  | .00005 | -.01939 | .00019 | -.00000 |
| #3 | .00131  | -.00075 | .00233 | -.00138 | .00031 | .00191  | .00081 | -.00006 |

|        |        |        |        |         |        |        |         |        |
|--------|--------|--------|--------|---------|--------|--------|---------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 | Mn2576  | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00003 | .08347 | .00068 | -.00015 | .02187 | .01504 | -.00015 | .02707 |
| Stddev | .00005 | .00580 | .00011 | .00024  | .00024 | .00129 | .00007  | .04388 |
| %RSD   | 147.55 | 6.9486 | 15.898 | 161.06  | 1.0769 | 8.5841 | 47.718  | 162.05 |

|    |        |        |        |         |        |        |         |        |
|----|--------|--------|--------|---------|--------|--------|---------|--------|
| #1 | .00001 | .07734 | .00057 | -.00038 | .02181 | .01647 | -.00007 | .00241 |
| #2 | .00000 | .08420 | .00078 | -.00017 | .02213 | .01466 | -.00020 | .00108 |
| #3 | .00009 | .08887 | .00071 | .00010  | .02168 | .01398 | -.00018 | .07773 |

|        |        |         |         |         |        |        |         |         |
|--------|--------|---------|---------|---------|--------|--------|---------|---------|
| Elem   | Ni2316 | Ag3280  | Na5895  | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     | ppm     |
| Avg    | .03136 | -.00035 | -.01194 | -.00009 | .06474 | .08323 | -.00009 | -.00742 |
| Stddev | .00050 | .00029  | .00730  | .00034  | .00011 | .01273 | .00009  | .01733  |
| %RSD   | 1.5997 | 83.841  | 61.168  | 386.85  | .16766 | 15.297 | 101.07  | 233.42  |

|    |        |         |         |         |        |        |         |         |
|----|--------|---------|---------|---------|--------|--------|---------|---------|
| #1 | .03110 | -.00004 | -.01344 | -.00048 | .06463 | .09147 | -.00001 | -.02159 |
| #2 | .03104 | -.00039 | -.00400 | .00007  | .06474 | .08965 | -.00007 | -.01258 |
| #3 | .03194 | -.00061 | -.01837 | .00015  | .06484 | .06856 | -.00020 | .01190  |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00896 | .00592 | -.00043 | -.00081 | -.00637 | -.0003 | .00014 | 1.2149 |
| Stddev | .00215 | .00340 | .00059  | .00283  | .00170  | .0006  | .00012 | .7464  |
| %RSD   | 23.984 | 57.450 | 135.12  | 348.26  | 26.664  | 202.6  | 88.882 | 61.436 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | .00928 | .00958 | .00010  | -.00287 | -.00508 | .0004  | .00002 | 1.5444 |
| #2 | .01093 | .00531 | -.00033 | .00241  | -.00573 | -.0007 | .00027 | .36047 |
| #3 | .00667 | .00287 | -.00107 | -.00197 | -.00830 | -.0006 | .00013 | 1.7399 |



Sample Name: K2072-01DUP      Acquired: 3/27/2019 16:04:07      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 66.566 |
| Stddev | 37.550 |
| %RSD   | 56.410 |

|    |        |
|----|--------|
| #1 | 35.531 |
| #2 | 108.31 |
| #3 | 55.861 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2996.9 | 54881. | 3190.6 | 46.439 | 4073.0 |
| Stddev    | 4.8    | 641.   | 34.1   | .757   | 2.4    |
| %RSD      | .15976 | 1.1677 | 1.0685 | 1.6311 | .05914 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2991.4 | 54579. | 3151.4 | 45.617 | 4075.8 |
| #2 | 3000.1 | 55617. | 3213.3 | 47.108 | 4071.6 |
| #3 | 2999.3 | 54447. | 3207.1 | 46.592 | 4071.5 |

Sample Name: K2072-01LX5      Acquired: 3/27/2019 16:08:33      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00052 | .00016 | .00029 | -.00193 | .00099 | -.02885 | -.00109 | -.00005 |
| Stddev | .00024 | .00073 | .00034 | .00031  | .00117 | .00929  | .00195  | .00008  |
| %RSD   | 45.761 | 456.75 | 115.75 | 16.236  | 118.28 | 32.196  | 179.27  | 174.02  |

|    |        |         |        |         |         |         |         |         |
|----|--------|---------|--------|---------|---------|---------|---------|---------|
| #1 | .00077 | .00045  | .00067 | -.00222 | .00114  | -.03893 | -.00288 | -.00007 |
| #2 | .00049 | .00070  | .00018 | -.00159 | -.00025 | -.02064 | .00099  | .00004  |
| #3 | .00030 | -.00067 | .00002 | -.00197 | .00209  | -.02696 | -.00138 | -.00012 |

|        |        |        |         |         |        |         |         |         |
|--------|--------|--------|---------|---------|--------|---------|---------|---------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00009 | .02307 | -.00016 | .00000  | .00423 | -.00435 | -.00056 | -.01070 |
| Stddev | .00004 | .02984 | .00024  | .00024  | .00042 | .00069  | .00006  | .06486  |
| %RSD   | 41.109 | 129.34 | 144.92  | 221520. | 9.9098 | 15.955  | 10.924  | 606.21  |

|    |        |         |         |         |        |         |         |         |
|----|--------|---------|---------|---------|--------|---------|---------|---------|
| #1 | .00005 | .01739  | -.00005 | -.00016 | .00389 | -.00367 | -.00051 | -.03287 |
| #2 | .00009 | .05533  | -.00001 | -.00012 | .00411 | -.00506 | -.00063 | .06234  |
| #3 | .00013 | -.00352 | -.00044 | .00027  | .00470 | -.00434 | -.00055 | -.06158 |

|        |        |         |        |         |        |        |        |         |
|--------|--------|---------|--------|---------|--------|--------|--------|---------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00703 | -.00037 | .13168 | -.00015 | .01349 | .12102 | .00020 | -.00767 |
| Stddev | .00071 | .00008  | .01688 | .00043  | .00015 | .02048 | .00041 | .01598  |
| %RSD   | 10.063 | 21.133  | 12.823 | 285.35  | 1.1447 | 16.925 | 205.90 | 208.36  |

|    |        |         |        |         |        |        |         |         |
|----|--------|---------|--------|---------|--------|--------|---------|---------|
| #1 | .00756 | -.00028 | .13219 | -.00046 | .01362 | .11051 | -.00021 | -.00855 |
| #2 | .00730 | -.00044 | .14830 | -.00032 | .01332 | .10792 | .00020  | .00873  |
| #3 | .00623 | -.00038 | .11455 | .00034  | .01352 | .14462 | .00062  | -.02319 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00195 | .00432 | .00064 | .00194 | .00026 | -.0014 | .00016 | 2.0690 |
| Stddev | .00073 | .00022 | .00083 | .00256 | .00093 | .0023  | .00011 | .1683  |
| %RSD   | 37.689 | 5.0540 | 129.59 | 132.29 | 358.36 | 169.3  | 71.392 | 8.1325 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | .00221 | .00438 | .00156  | -.00087 | -.00079 | -.0029 | .00020 | 2.0939 |
| #2 | .00112 | .00451 | .00044  | .00416  | .00057  | -.0025 | .00024 | 2.2235 |
| #3 | .00251 | .00408 | -.00007 | .00252  | .00100  | .0013  | .00003 | 1.8897 |

Sample Name: K2072-01LX5      Acquired: 3/27/2019 16:08:33      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      43.180  
Stddev      45.099  
%RSD      104.44

#1      92.468  
#2      33.094  
#3      3.9777

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2903.4 | 53510. | 3039.5 | 43.853 | 3925.0 |
| Stddev    | 5.5    | 186.   | 10.1   | .277   | 4.1    |
| %RSD      | .18778 | .34695 | .33145 | .63264 | .10443 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2898.4 | 53298. | 3030.6 | 43.783 | 3920.5 |
| #2 | 2902.4 | 53590. | 3037.4 | 44.158 | 3926.0 |
| #3 | 2909.2 | 53643. | 3050.4 | 43.617 | 3928.5 |

Sample Name: K2072-01MS      Acquired: 3/27/2019 16:13:01      Type: Unk  
Method: P4-ICP2(v2989)      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    | .76083 | 1.9155 | .94393 | 1.8785 | .79095 | 1.9653 | .20134 |
| Stddev | .00600 | .0144  | .00267 | .0051  | .00355 | .0005  | .00200 |
| %RSD   | .78812 | .75088 | .28240 | .27042 | .44868 | .02717 | .99367 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .76446 | 1.9320 | .94668 | 1.8838 | .79490 | 1.9651 | .20353 |
| #2 | .75391 | 1.9059 | .94375 | 1.8782 | .78993 | 1.9659 | .19962 |
| #3 | .76412 | 1.9084 | .94136 | 1.8736 | .78803 | 1.9649 | .20087 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19609 | .18541 | 1.0920 | .40731 | .19120 | .34419 | 2.9641 |
| Stddev | .00045 | .00099 | .0236  | .00216 | .00118 | .00155 | .0079  |
| %RSD   | .22827 | .53465 | 2.1642 | .53019 | .61941 | .44946 | .26697 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19633 | .18655 | 1.0760 | .40934 | .19252 | .34578 | 2.9550 |
| #2 | .19638 | .18493 | 1.1191 | .40504 | .19083 | .34269 | 2.9677 |
| #3 | .19558 | .18475 | 1.0808 | .40756 | .19024 | .34411 | 2.9695 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20224 | 2.0480 | .51822 | .06985 | 2.8425 | .29704 | .24951 |
| Stddev | .00011 | .0485  | .00251 | .00120 | .0300  | .00121 | .00147 |
| %RSD   | .05663 | 2.3687 | .48473 | 1.7121 | 1.0536 | .40775 | .58763 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20211 | 2.0667 | .52112 | .06914 | 2.8741 | .29713 | .25120 |
| #2 | .20229 | 2.0844 | .51679 | .06919 | 2.8146 | .29578 | .24874 |
| #3 | .20233 | 1.9930 | .51674 | .07123 | 2.8387 | .29820 | .24859 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.8719 | .39445 | .27518 | .01132 | .91624 | .64776 | .19410 |
| Stddev | .0239  | .00090 | .01571 | .00167 | .00487 | .00414 | .00174 |
| %RSD   | .24248 | .22919 | 5.7079 | 14.726 | .53199 | .63925 | .89619 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 9.8740 | .39485 | .29091 | .01261 | .91995 | .65224 | .19224 |
| #2 | 9.8470 | .39342 | .27515 | .00944 | .91804 | .64697 | .19438 |
| #3 | 9.8948 | .39508 | .25949 | .01191 | .91072 | .64407 | .19569 |

Sample Name: K2072-01MS      Acquired: 3/27/2019 16:13:01      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .18912 | 5.158  | .19316 | 1.9993 | F<.00000 |
| Stddev | .00170 | .040   | .00097 | .1595  | 16.801   |
| %RSD   | .89764 | .7762  | .50017 | 7.9766 | 6.7405   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .18749 | 5.204 | .19236 | 1.9358 | -245.69 |
| #2 | .19088 | 5.139 | .19423 | 1.8813 | -267.55 |
| #3 | .18900 | 5.131 | .19288 | 2.1808 | -234.52 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2958.1 | 54676. | 3109.8 | 45.722 | 3979.4 |
| Stddev    | 5.7    | 259.   | 14.6   | .350   | 5.2    |
| %RSD      | .19288 | .47318 | .46868 | .76470 | .13001 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2964.6 | 54461. | 3113.6 | 45.325 | 3973.4 |
| #2 | 2956.0 | 54963. | 3093.7 | 45.858 | 3982.4 |
| #3 | 2953.7 | 54603. | 3122.1 | 45.983 | 3982.3 |

Sample Name: K2072-01MSD      Acquired: 3/27/2019 16:17:07      Type: Unk  
Method: P4-ICP2(v2989)      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    | .76214 | 1.9173 | .94722 | 1.8755 | .78605 | 2.0008 | .20213 |
| Stddev | .00275 | .0050  | .00208 | .0067  | .00066 | .0160  | .00084 |
| %RSD   | .36052 | .26273 | .21912 | .35676 | .08398 | .79781 | .41353 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .76146 | 1.9117 | .94868 | 1.8681 | .78667 | 1.9865 | .20122 |
| #2 | .75980 | 1.9214 | .94813 | 1.8772 | .78536 | 2.0180 | .20287 |
| #3 | .76517 | 1.9188 | .94484 | 1.8812 | .78613 | 1.9979 | .20230 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19501 | .18568 | 1.1019 | .40412 | .19132 | .34448 | 2.9633 |
| Stddev | .00212 | .00018 | .0077  | .00370 | .00034 | .00048 | .0294  |
| %RSD   | 1.0874 | .09501 | .70354 | .91466 | .17685 | .14021 | .99360 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19262 | .18561 | 1.0967 | .40012 | .19145 | .34496 | 2.9302 |
| #2 | .19666 | .18554 | 1.1109 | .40740 | .19094 | .34400 | 2.9866 |
| #3 | .19576 | .18588 | 1.0982 | .40483 | .19157 | .34449 | 2.9730 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20169 | 1.9832 | .51928 | .07080 | 2.8650 | .29817 | .24984 |
| Stddev | .00179 | .0583  | .00141 | .00099 | .0056  | .00114 | .00053 |
| %RSD   | .88984 | 2.9410 | .27233 | 1.3914 | .19541 | .38299 | .21298 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19977 | 1.9374 | .52068 | .07028 | 2.8600 | .29688 | .25044 |
| #2 | .20334 | 2.0489 | .51785 | .07194 | 2.8711 | .29905 | .24943 |
| #3 | .20195 | 1.9634 | .51931 | .07019 | 2.8639 | .29857 | .24965 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.039 | .39267 | .27187 | .00941 | .91194 | .64620 | .19467 |
| Stddev | .125   | .00120 | .01780 | .00135 | .01296 | .00330 | .00254 |
| %RSD   | 1.2426 | .30479 | 6.5465 | 14.324 | 1.4207 | .51026 | 1.3072 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.001 | .39390 | .27902 | .00835 | .91426 | .64940 | .19294 |
| #2 | 10.179 | .39151 | .25161 | .00895 | .89797 | .64282 | .19349 |
| #3 | 9.9382 | .39261 | .28499 | .01093 | .92357 | .64637 | .19760 |

Sample Name: K2072-01MSD      Acquired: 3/27/2019 16:17:07      Type: Unk  
Method: P4-ICP2(v2989)      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       | .18775 | 5.145  | .19411 | 1.9140 | F<.00000 |
| Stddev    | .00151 | .016   | .00101 | .3635  | 18.919   |
| %RSD      | .80579 | .3122  | .51868 | 18.990 | 7.5600   |
| #1        | .18669 | 5.156  | .19385 | 1.6199 | -253.85  |
| #2        | .18948 | 5.152  | .19325 | 2.3204 | -267.11  |
| #3        | .18708 | 5.127  | .19522 | 1.8016 | -229.79  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2955.6 | 54840. | 3133.7 | 44.714 | 3972.5   |
| Stddev    | 5.0    | 282.   | 34.7   | 2.141  | 2.3      |
| %RSD      | .16809 | .51429 | 1.1070 | 4.7885 | .05904   |
| #1        | 2960.6 | 55141. | 3126.4 | 43.583 | 3974.4   |
| #2        | 2955.5 | 54581. | 3171.5 | 47.183 | 3973.3   |
| #3        | 2950.7 | 54799. | 3103.3 | 43.375 | 3969.9   |

Sample Name: K2072-01A      Acquired: 3/27/2019 16:21:14      Type: Unk  
Method: P4-ICP2(v2989)      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    | .78092 | 1.9629 | .97204 | 1.9299 | .80804 | 2.0578 | .20911 |
| Stddev | .00304 | .0076  | .00321 | .0098  | .00282 | .0250  | .00235 |
| %RSD   | .38991 | .38464 | .32981 | .50632 | .34846 | 1.2148 | 1.1221 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78024 | 1.9641 | .97251 | 1.9299 | .80830 | 2.0290 | .20838 |
| #2 | .78425 | 1.9698 | .97499 | 1.9397 | .81072 | 2.0699 | .20721 |
| #3 | .77828 | 1.9549 | .96863 | 1.9202 | .80511 | 2.0744 | .21173 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20092 | .19072 | 1.1204 | .41890 | .19636 | .35302 | 3.0494 |
| Stddev | .00056 | .00086 | .0119  | .00172 | .00088 | .00134 | .0081  |
| %RSD   | .28037 | .44933 | 1.0612 | .40969 | .44572 | .38052 | .26456 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20038 | .19086 | 1.1218 | .42010 | .19639 | .35351 | 3.0409 |
| #2 | .20087 | .19150 | 1.1079 | .41693 | .19723 | .35406 | 3.0502 |
| #3 | .20150 | .18980 | 1.1316 | .41966 | .19548 | .35151 | 3.0570 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20777 | 2.0773 | .53285 | .07332 | 2.9634 | .30734 | .25670 |
| Stddev | .00023 | .0200  | .00301 | .00148 | .0269  | .00258 | .00080 |
| %RSD   | .10936 | .96416 | .56566 | 2.0191 | .90789 | .83989 | .31305 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20793 | 2.0622 | .53217 | .07161 | 2.9469 | .30472 | .25677 |
| #2 | .20787 | 2.1000 | .53615 | .07417 | 2.9489 | .30743 | .25746 |
| #3 | .20751 | 2.0698 | .53024 | .07417 | 2.9945 | .30988 | .25586 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.340 | .40148 | .29259 | .00813 | .93312 | .66380 | .20387 |
| Stddev | .113   | .00009 | .00624 | .00496 | .00412 | .00137 | .00257 |
| %RSD   | 1.0933 | .02129 | 2.1333 | 61.026 | .44111 | .20578 | 1.2593 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.247 | .40142 | .28933 | .00344 | .92870 | .66531 | .20569 |
| #2 | 10.307 | .40157 | .28866 | .00762 | .93685 | .66266 | .20498 |
| #3 | 10.466 | .40144 | .29979 | .01332 | .93382 | .66342 | .20093 |



Sample Name: K2072-01A      Acquired: 3/27/2019 16:21:14      Type: Unk  
Method: P4-ICP2(v2989)      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       | .19351 | 5.280  | .19779 | 2.8070 | F<.00000 |
| Stddev    | .00123 | .021   | .00051 | .3393  | 18.813   |
| %RSD      | .63666 | .3972  | .25951 | 12.088 | 6.8560   |
| #1        | .19225 | 5.272  | .19832 | 3.0390 | -292.20  |
| #2        | .19358 | 5.304  | .19730 | 2.4176 | -254.72  |
| #3        | .19471 | 5.265  | .19775 | 2.9645 | -276.28  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2891.7 | 53397. | 3089.2 | 45.319 | 3878.9   |
| Stddev    | 2.9    | 227.   | 32.2   | .645   | 2.8      |
| %RSD      | .09967 | .42417 | 1.0424 | 1.4226 | .07169   |
| #1        | 2893.5 | 53459. | 3054.1 | 45.392 | 3881.6   |
| #2        | 2893.1 | 53587. | 3096.2 | 44.642 | 3879.2   |
| #3        | 2888.3 | 53146. | 3117.3 | 45.925 | 3876.0   |

Sample Name: CCV04      Acquired: 3/27/2019 16:45:14      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.0457 | 5.0374 | 5.0843 | 4.9153 | 5.0454 | 10.149 | 10.348 | .25281   |
| Stddev | .0127  | .0009  | .0196  | .0050  | .0141  | .106   | .028   | .00088   |
| %RSD   | .25206 | .01869 | .38523 | .10105 | .27932 | 1.0401 | .26769 | .34624   |
| #1     | 5.0354 | 5.0364 | 5.1054 | 4.9104 | 5.0310 | 10.027 | 10.324 | .25188   |
| #2     | 5.0599 | 5.0378 | 5.0668 | 4.9203 | 5.0591 | 10.202 | 10.378 | .25292   |
| #3     | 5.0417 | 5.0382 | 5.0805 | 4.9153 | 5.0460 | 10.218 | 10.341 | .25362   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.5227 | 24.777 | 1.0135 | 2.5153 | 1.3076 | 4.8620 | 2.5118 | 25.310   |
| Stddev | .0075  | .184   | .0043  | .0094  | .0024  | .0103  | .0031  | .275     |
| %RSD   | .29808 | .74309 | .42047 | .37362 | .18209 | .21098 | .12493 | 1.0856   |
| #1     | 2.5208 | 24.800 | 1.0093 | 2.5094 | 1.3048 | 4.8504 | 2.5082 | 25.018   |
| #2     | 2.5163 | 24.949 | 1.0135 | 2.5103 | 1.3085 | 4.8660 | 2.5134 | 25.563   |
| #3     | 2.5310 | 24.583 | 1.0178 | 2.5261 | 1.3093 | 4.8697 | 2.5139 | 25.349   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.5500 | 1.2576 | 24.864 | 2.5069 | 2.5340 | 25.745 | 5.0928 | 5.1138   |
| Stddev | .0070  | .0015  | .069   | .0041  | .0077  | .084   | .0127  | .0945    |
| %RSD   | .27393 | .12304 | .27747 | .16264 | .30320 | .32478 | .24859 | 1.8475   |
| #1     | 2.5479 | 1.2560 | 24.818 | 2.5033 | 2.5339 | 25.674 | 5.0783 | 5.0242   |
| #2     | 2.5444 | 1.2579 | 24.944 | 2.5061 | 2.5263 | 25.837 | 5.0988 | 5.1048   |
| #3     | 2.5579 | 1.2590 | 24.831 | 2.5113 | 2.5417 | 25.724 | 5.1014 | 5.2125   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0621 | 4.9091 | 5.0349 | 5.0731 | 4.9364 | 5.090  | 5.1474 | F 3.5244 |
| Stddev | .0149  | .0322  | .0225  | .0225  | .0419  | .016   | .0441  | .1111    |
| %RSD   | .29487 | .65642 | .44593 | .44419 | .84945 | .3173  | .85626 | 3.1521   |
| #1     | 5.0540 | 4.9416 | 5.0299 | 5.0832 | 4.9759 | 5.078  | 5.1870 | 3.3964   |
| #2     | 5.0793 | 4.9087 | 5.0154 | 5.0889 | 4.9408 | 5.109  | 5.1553 | 3.5809   |
| #3     | 5.0529 | 4.8771 | 5.0594 | 5.0473 | 4.8924 | 5.085  | 5.0999 | 3.5959   |

Sample Name: CCV04      Acquired: 3/27/2019 16:45:14      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 31.896  
Stddev      24.317  
%RSD      76.238

#1      27.911  
#2      9.8174  
#3      57.959

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2795.7 | 52345. | 3077.0 | 41.850 | 3486.6 |
| Stddev    | 3.3    | 87.    | 27.5   | .851   | 8.2    |
| %RSD      | .11974 | .16590 | .89376 | 2.0344 | .23381 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2798.4 | 52446. | 3048.6 | 42.740 | 3483.2 |
| #2 | 2792.0 | 52293. | 3078.8 | 41.043 | 3495.8 |
| #3 | 2796.7 | 52298. | 3103.5 | 41.767 | 3480.6 |

Sample Name: CCB04      Acquired: 3/27/2019 16:49:12      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00063  | .00107  | F .00786 | -.00049 | .00051  | -.02328 | .00003  | -.00008 |
| Stddev | .00069  | .00079  | .00163   | .00188  | .00158  | .00921  | .00060  | .00013  |
| %RSD   | 110.95  | 74.030  | 20.706   | 381.69  | 311.56  | 39.582  | 1722.0  | 152.42  |
| #1     | .00095  | .00183  | .00877   | .00089  | -.00084 | -.03345 | .00069  | -.00007 |
| #2     | -.00017 | .00025  | .00883   | -.00263 | .00012  | -.01549 | -.00010 | .00003  |
| #3     | .00110  | .00114  | .00598   | .00027  | .00224  | -.02090 | -.00049 | -.00022 |
| Elem   | Cd2265  | Ca3736  | Cr2677   | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00008  | -.01626 | .00006   | -.00016 | .00600  | -.00475 | .00081  | -.00075 |
| Stddev | .00011  | .01051  | .00021   | .00007  | .00021  | .00018  | .00005  | .01244  |
| %RSD   | 129.46  | 64.655  | 336.97   | 42.747  | 3.5068  | 3.6984  | 6.0439  | 1669.5  |
| #1     | .00008  | -.02808 | -.00011  | -.00024 | .00625  | -.00460 | .00086  | .01118  |
| #2     | .00020  | -.00797 | .00029   | -.00014 | .00589  | -.00470 | .00078  | .00024  |
| #3     | -.00002 | -.01272 | .00001   | -.00011 | .00588  | -.00494 | .00077  | -.01365 |
| Elem   | Ni2316  | Ag3280  | Na5895   | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00112  | -.00024 | .30546   | -.00033 | .00501  | .32037  | -.00005 | .01481  |
| Stddev | .00044  | .00043  | .01557   | .00034  | .00058  | .02889  | .00015  | .01666  |
| %RSD   | 39.751  | 179.29  | 5.0980   | 101.23  | 11.601  | 9.0184  | 310.43  | 112.47  |
| #1     | .00061  | -.00072 | .30201   | -.00054 | .00549  | .34659  | .00013  | .00069  |
| #2     | .00128  | .00011  | .32247   | .00006  | .00518  | .28940  | -.00012 | .03319  |
| #3     | .00145  | -.00011 | .29190   | -.00052 | .00436  | .32513  | -.00015 | .01056  |
| Elem   | S_1820  | Si2881  | Sn1899   | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00255  | .00208  | .00408   | .00098  | .00971  | -.0039  | .00014  | 1.3713  |
| Stddev | .00090  | .00361  | .00094   | .00245  | .00105  | .0023   | .00015  | .3583   |
| %RSD   | 35.356  | 173.24  | 23.049   | 250.40  | 10.840  | 59.03   | 111.33  | 26.124  |
| #1     | .00166  | -.00051 | .00454   | .00146  | .00968  | -.0040  | -.00004 | 1.4314  |
| #2     | .00252  | .00621  | .00470   | .00315  | .01078  | -.0062  | .00024  | 1.6958  |
| #3     | .00346  | .00055  | .00300   | -.00168 | .00867  | -.0016  | .00022  | .98687  |

Sample Name: CCB04      Acquired: 3/27/2019 16:49:12      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 18.829 |
| Stddev | 47.582 |
| %RSD   | 252.71 |

|    |         |
|----|---------|
| #1 | -29.428 |
| #2 | 20.207  |
| #3 | 65.707  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2926.0 | 54317. | 3076.8 | 43.664 | 3923.2 |
| Stddev    | 2.7    | 102.   | 13.6   | 1.197  | 11.4   |
| %RSD      | .09172 | .18746 | .44095 | 2.7423 | .28956 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2923.0 | 54301. | 3081.1 | 43.975 | 3911.9 |
| #2 | 2927.9 | 54224. | 3061.6 | 42.342 | 3923.1 |
| #3 | 2927.2 | 54425. | 3087.7 | 44.675 | 3934.6 |

Sample Name: PB118301BS      Acquired: 3/27/2019 16:53:41      Type: Unk  
Method: P4-ICP2(v2989)      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    | .77942 | 1.9934 | .98975 | 1.8965 | .79322 | 1.9827 | .20869 |
| Stddev | .00468 | .0167  | .00413 | .0106  | .00344 | .0364  | .00106 |
| %RSD   | .60018 | .83848 | .41701 | .55895 | .43384 | 1.8360 | .50904 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78297 | 1.9902 | .98891 | 1.8872 | .79423 | 1.9482 | .20952 |
| #2 | .77412 | 1.9785 | .98611 | 1.8943 | .78938 | 2.0207 | .20906 |
| #3 | .78116 | 2.0115 | .99423 | 1.9080 | .79604 | 1.9793 | .20749 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19903 | .19427 | 1.0747 | .42403 | .20216 | .33473 | 3.0589 |
| Stddev | .00084 | .00040 | .0170  | .00081 | .00041 | .00070 | .0090  |
| %RSD   | .42264 | .20832 | 1.5782 | .19008 | .20256 | .20956 | .29348 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19903 | .19387 | 1.0614 | .42495 | .20186 | .33467 | 3.0692 |
| #2 | .19987 | .19428 | 1.0938 | .42364 | .20199 | .33406 | 3.0553 |
| #3 | .19819 | .19468 | 1.0690 | .42349 | .20262 | .33546 | 3.0524 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21169 | 2.0249 | .51329 | .07195 | 3.5961 | .31096 | .20301 |
| Stddev | .00035 | .0232  | .00080 | .00055 | .0156  | .00167 | .00008 |
| %RSD   | .16482 | 1.1459 | .15523 | .76650 | .43361 | .53645 | .04060 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21130 | 2.0009 | .51342 | .07142 | 3.5863 | .30916 | .20296 |
| #2 | .21196 | 2.0472 | .51243 | .07252 | 3.6140 | .31245 | .20297 |
| #3 | .21181 | 2.0266 | .51401 | .07192 | 3.5879 | .31126 | .20310 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 10.368 | .40824 | .30391 | F .00067 | .96040 | .67132 | .19908 |
| Stddev | .104   | .00022 | .01145 | .00420   | .01119 | .00194 | .00380 |
| %RSD   | 1.0038 | .05390 | 3.7691 | 625.49   | 1.1651 | .28856 | 1.9066 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.314 | .40803 | .29068 | .00131  | .95861 | .67045 | .19843 |
| #2 | 10.488 | .40821 | .31062 | .00451  | .97238 | .66998 | .20316 |
| #3 | 10.301 | .40847 | .31043 | -.00381 | .95022 | .67355 | .19565 |

Sample Name: PB118301BS      Acquired: 3/27/2019 16:53:41      Type: Unk  
Method: P4-ICP2(v2989)      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    | .21069 | 5.390  | .20375 | F 2.8383 | F<.00000 |
| Stddev | .00270 | .052   | .00015 | .1946    | 16.972   |
| %RSD   | 1.2836 | .9601  | .07231 | 6.8545   | 6.6861   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .21379 | 5.394 | .20363 | 2.8804 | -235.20 |
| #2 | .20948 | 5.337 | .20391 | 2.6262 | -268.40 |
| #3 | .20880 | 5.441 | .20371 | 3.0084 | -257.93 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2877.8 | 53617. | 3026.1 | 42.700 | 3822.9 |
| Stddev    | 9.5    | 141.   | 13.4   | .409   | 6.8    |
| %RSD      | .33095 | .26313 | .44128 | .95867 | .17881 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2868.5 | 53564. | 3012.6 | 42.333 | 3815.0 |
| #2 | 2877.4 | 53511. | 3026.3 | 42.625 | 3825.9 |
| #3 | 2887.5 | 53777. | 3039.3 | 43.142 | 3827.6 |

Sample Name: PB118302BS      Acquired: 3/27/2019 16:57:48      Type: Unk  
Method: P4-ICP2(v2989)      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    | .78597 | 2.0284 | .99564 | 1.9571 | .78980 | 1.9781 | .20673 |
| Stddev | .00034 | .0149  | .00262 | .0098  | .00131 | .0204  | .00213 |
| %RSD   | .04355 | .73455 | .26275 | .50297 | .16541 | 1.0293 | 1.0317 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78622 | 2.0440 | .99807 | 1.9670 | .79053 | 1.9641 | .20840 |
| #2 | .78611 | 2.0144 | .99287 | 1.9474 | .79057 | 1.9688 | .20433 |
| #3 | .78558 | 2.0268 | .99598 | 1.9570 | .78829 | 2.0015 | .20747 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20346 | .19714 | 1.0066 | .41989 | .20094 | .33483 | 3.0475 |
| Stddev | .00096 | .00051 | .0250  | .00160 | .00034 | .00155 | .0083  |
| %RSD   | .47245 | .26016 | 2.4810 | .38026 | .16837 | .46239 | .27309 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20454 | .19734 | .98539 | .41974 | .20073 | .33662 | 3.0469 |
| #2 | .20269 | .19655 | 1.0003 | .41838 | .20075 | .33403 | 3.0395 |
| #3 | .20317 | .19751 | 1.0341 | .42156 | .20133 | .33385 | 3.0561 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20971 | 2.0783 | .51423 | .07296 | 3.0552 | .30726 | .19923 |
| Stddev | .00040 | .0208  | .00138 | .00013 | .0355  | .00031 | .00062 |
| %RSD   | .18964 | .99940 | .26876 | .17922 | 1.1636 | .10228 | .30954 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20988 | 2.0543 | .51398 | .07286 | 3.0818 | .30737 | .19991 |
| #2 | .20926 | 2.0910 | .51298 | .07311 | 3.0148 | .30690 | .19870 |
| #3 | .20999 | 2.0895 | .51571 | .07291 | 3.0690 | .30750 | .19909 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.242 | .39826 | .31697 | F -.00608 | .90957 | .66916 | .19638 |
| Stddev | .119   | .00091 | .02209 | .00533    | .01159 | .00607 | .00194 |
| %RSD   | 1.1588 | .22851 | 6.9687 | 87.782    | 1.2740 | .90724 | .98967 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.293 | .39901 | .32015 | -.00187 | .90987 | .67194 | .19743 |
| #2 | 10.106 | .39852 | .29346 | -.01208 | .92100 | .66220 | .19758 |
| #3 | 10.326 | .39725 | .33729 | -.00428 | .89783 | .67334 | .19414 |



Sample Name: PB118302BS      Acquired: 3/27/2019 16:57:48      Type: Unk  
Method: P4-ICP2(v2989)      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       | .20299 | F 5.476 | F .20027 | 2.2850 | <.00000 |
| Stddev    | .00115 | .025    | .00104   | .2856  | 8.2646  |
| %RSD      | .56736 | .4635   | .52004   | 12.497 | 3.1493  |
| #1        | .20201 | 5.505   | .20063   | 2.1928 | -258.66 |
| #2        | .20271 | 5.458   | .20109   | 2.0569 | -271.90 |
| #3        | .20426 | 5.465   | .19910   | 2.6052 | -256.71 |
| Int. Std. | Y_2243 | Y_3600  | Y_3710   | In2306 | In2306  |
| Units     | Cts/S  | Cts/S   | Cts/S    | Cts/S  | Cts/S   |
| Avg       | 2913.2 | 54168.  | 3078.1   | 43.939 | 3857.0  |
| Stddev    | 8.8    | 180.    | 21.8     | 2.697  | 3.5     |
| %RSD      | .30237 | .33314  | .70845   | 6.1380 | .09076  |
| #1        | 2911.1 | 54046.  | 3083.9   | 40.908 | 3857.7  |
| #2        | 2905.6 | 54375.  | 3054.0   | 44.833 | 3853.2  |
| #3        | 2922.8 | 54083.  | 3096.5   | 46.075 | 3860.1  |

Sample Name: PB118313BS      Acquired: 3/27/2019 17:01:57      Type: Unk  
Method: P4-ICP2(v2989)      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    | .76298 | 1.9428 | .97075 | 1.8555 | .77942 | 1.9728 | .20529 |
| Stddev | .00491 | .0175  | .00503 | .0061  | .00362 | .0059  | .00098 |
| %RSD   | .64394 | .90121 | .51836 | .32756 | .46433 | .30094 | .47537 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75764 | 1.9319 | .96583 | 1.8528 | .77525 | 1.9699 | .20632 |
| #2 | .76730 | 1.9630 | .97054 | 1.8625 | .78135 | 1.9689 | .20437 |
| #3 | .76399 | 1.9335 | .97589 | 1.8512 | .78167 | 1.9797 | .20518 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19504 | .19079 | 1.0381 | .41637 | .19827 | .32663 | 3.0095 |
| Stddev | .00047 | .00069 | .0245  | .00034 | .00126 | .00065 | .0026  |
| %RSD   | .23958 | .35946 | 2.3608 | .08149 | .63685 | .19972 | .08579 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19476 | .19003 | 1.0147 | .41646 | .19681 | .32597 | 3.0082 |
| #2 | .19479 | .19097 | 1.0636 | .41600 | .19902 | .32665 | 3.0078 |
| #3 | .19558 | .19136 | 1.0359 | .41666 | .19898 | .32728 | 3.0125 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20786 | 1.9918 | .50414 | .06964 | 3.4878 | .30582 | .19800 |
| Stddev | .00046 | .0463  | .00339 | .00026 | .0171  | .00158 | .00024 |
| %RSD   | .21995 | 2.3230 | .67228 | .37267 | .48906 | .51539 | .12230 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20832 | 2.0450 | .50041 | .06977 | 3.5074 | .30615 | .19772 |
| #2 | .20784 | 1.9611 | .50703 | .06980 | 3.4792 | .30721 | .19817 |
| #3 | .20741 | 1.9692 | .50497 | .06934 | 3.4767 | .30411 | .19810 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 10.272 | .39865 | .30497 | F .00156 | .93133 | .65552 | .19714 |
| Stddev | .077   | .00170 | .00772 | .00203   | .01184 | .00417 | .00064 |
| %RSD   | .74947 | .42700 | 2.5320 | 130.05   | 1.2714 | .63611 | .32427 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.319 | .39671 | .31270 | .00190  | .91817 | .65094 | .19654 |
| #2 | 10.183 | .39987 | .29726 | -.00062 | .93470 | .65909 | .19781 |
| #3 | 10.314 | .39937 | .30495 | .00341  | .94112 | .65652 | .19709 |

Sample Name: PB118313BS      Acquired: 3/27/2019 17:01:57      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .20224 | 5.236  | .20044 | F 2.0751 | F<.00000 |
| Stddev    | .00088 | .051   | .00044 | .2619    | 9.5857   |
| %RSD      | .43425 | .9641  | .21810 | 12.620   | 3.2703   |
| #1        | .20288 | 5.206  | .19994 | 2.3033   | -292.47  |
| #2        | .20124 | 5.294  | .20071 | 2.1328   | -303.01  |
| #3        | .20260 | 5.208  | .20068 | 1.7892   | -283.87  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2929.2 | 54542. | 3110.3 | 44.150   | 3890.4   |
| Stddev    | 3.5    | 56.    | 25.5   | .487     | 2.3      |
| %RSD      | .11843 | .10202 | .82110 | 1.1021   | .05798   |
| #1        | 2925.3 | 54481. | 3136.3 | 44.483   | 3890.7   |
| #2        | 2930.2 | 54591. | 3085.3 | 43.592   | 3888.0   |
| #3        | 2932.1 | 54554. | 3109.3 | 44.375   | 3892.4   |

Sample Name: PB118319BS      Acquired: 3/27/2019 17:06:05      Type: Unk  
Method: P4-ICP2(v2989)      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    | .79632 | 2.0456 | 1.0117 | 1.9882 | .80305 | 2.0245 | .21007 |
| Stddev | .00445 | .0055  | .0040  | .0086  | .00242 | .0272  | .00180 |
| %RSD   | .55823 | .26932 | .39733 | .43371 | .30081 | 1.3429 | .85692 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .80112 | 2.0410 | 1.0155 | 1.9827 | .80529 | 1.9980 | .21024 |
| #2 | .79235 | 2.0440 | 1.0074 | 1.9836 | .80049 | 2.0523 | .21178 |
| #3 | .79547 | 2.0517 | 1.0121 | 1.9981 | .80336 | 2.0230 | .20820 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .20680 | .19991 | 1.0841 | .43193 | .20403 | .33980 | 3.1037 |
| Stddev | .00005 | .00079 | .0205  | .00052 | .00097 | .00162 | .0102  |
| %RSD   | .02408 | .39646 | 1.8933 | .12106 | .47754 | .47634 | .32856 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .20686 | .20081 | 1.0762 | .43152 | .20515 | .34134 | 3.0944 |
| #2 | .20678 | .19933 | 1.1074 | .43252 | .20338 | .33994 | 3.1146 |
| #3 | .20676 | .19960 | 1.0686 | .43176 | .20355 | .33811 | 3.1021 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21317 | 2.0732 | .52336 | .07474 | 3.0654 | .31310 | .20127 |
| Stddev | .00078 | .1203  | .00095 | .00110 | .0179  | .00059 | .00120 |
| %RSD   | .36479 | 5.8042 | .18117 | 1.4680 | .58276 | .18725 | .59411 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .21282 | 2.1538 | .52317 | .07578 | 3.0521 | .31296 | .20253 |
| #2 | .21406 | 2.1308 | .52252 | .07360 | 3.0857 | .31260 | .20015 |
| #3 | .21263 | 1.9349 | .52439 | .07484 | 3.0584 | .31374 | .20114 |

|        |        |        |        |           |        |        |        |
|--------|--------|--------|--------|-----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820    | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm       | ppm    | ppm    | ppm    |
| Avg    | 10.362 | .40447 | .30757 | F -.00647 | .92429 | .67701 | .19850 |
| Stddev | .159   | .00087 | .00534 | .00145    | .00453 | .00184 | .00418 |
| %RSD   | 1.5336 | .21570 | 1.7373 | 22.401    | .49009 | .27205 | 2.1050 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 10.238 | .40420 | .30835 | -.00503 | .91993 | .67779 | .20006 |
| #2 | 10.541 | .40545 | .31248 | -.00793 | .92396 | .67491 | .19377 |
| #3 | 10.306 | .40377 | .30188 | -.00644 | .92897 | .67833 | .20167 |

Sample Name: PB118319BS      Acquired: 3/27/2019 17:06:05      Type: Unk  
Method: P4-ICP2(v2989)      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       | .20718 | 5.547  | .20483 | F 3.5909 | F<.00000 |
| Stddev    | .00124 | .010   | .00019 | .0729    | 43.933   |
| %RSD      | .59938 | .1884  | .09469 | 2.0301   | 19.273   |
| #1        | .20762 | 5.536  | .20498 | 3.6244   | -191.48  |
| #2        | .20814 | 5.551  | .20490 | 3.5073   | -276.73  |
| #3        | .20578 | 5.556  | .20461 | 3.6410   | -215.66  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2876.1 | 52991. | 3015.3 | 43.169   | 3809.4   |
| Stddev    | 4.1    | 83.    | 30.7   | .346     | 11.1     |
| %RSD      | .14162 | .15609 | 1.0179 | .80113   | .29161   |
| #1        | 2873.6 | 52907. | 2993.7 | 42.825   | 3799.2   |
| #2        | 2873.9 | 52994. | 3050.4 | 43.167   | 3807.7   |
| #3        | 2880.8 | 53072. | 3001.7 | 43.517   | 3821.2   |

Sample Name: PB118319TB      Acquired: 3/27/2019 17:10:12      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00005 | -.00360 | .00170 | .00257  | .00049  | -.03046 | -.00127 | -.00016 |
| Stddev | .00121  | .00176  | .00005 | .00037  | .00137  | .01168  | .00110  | .00001  |
| %RSD   | 2663.2  | 49.050  | 3.2097 | 14.212  | 280.19  | 38.330  | 86.529  | 4.3856  |
| #1     | .00046  | -.00432 | .00176 | .00233  | .00062  | -.01698 | -.00122 | -.00016 |
| #2     | -.00142 | -.00489 | .00170 | .00299  | .00179  | -.03720 | -.00240 | -.00015 |
| #3     | .00083  | -.00159 | .00165 | .00239  | -.00094 | -.03721 | -.00020 | -.00016 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00018  | -.00118 | .00120 | -.00029 | .00343  | -.00774 | -.00011 | -.12304 |
| Stddev | .00003  | .02881  | .00017 | .00028  | .00037  | .00103  | .00005  | .04438  |
| %RSD   | 16.974  | 2438.9  | 14.351 | 97.181  | 10.925  | 13.314  | 47.519  | 36.067  |
| #1     | .00017  | -.03234 | .00132 | -.00059 | .00367  | -.00663 | -.00005 | -.16274 |
| #2     | .00015  | .02449  | .00127 | -.00022 | .00362  | -.00790 | -.00014 | -.13126 |
| #3     | .00021  | .00431  | .00100 | -.00005 | .00300  | -.00867 | -.00013 | -.07513 |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00279  | .00188  | 292.09 | .00004  | .00177  | .30995  | .00022  | .02380  |
| Stddev | .00034  | .00007  | 1.16   | .00006  | .00003  | .04499  | .00020  | .00492  |
| %RSD   | 12.112  | 3.7663  | .39776 | 162.28  | 1.6769  | 14.515  | 91.729  | 20.656  |
| #1     | .00293  | .00192  | 292.68 | -.00001 | .00174  | .26751  | .00003  | .02738  |
| #2     | .00240  | .00192  | 290.75 | .00010  | .00177  | .30523  | .00019  | .02582  |
| #3     | .00303  | .00179  | 292.83 | .00002  | .00180  | .35711  | .00043  | .01819  |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00810  | .00394  | .00107 | -.00036 | .00261  | -.0017  | .00001  | 3.9493  |
| Stddev | .00164  | .00185  | .00045 | .00072  | .00151  | .0011   | .00013  | .1908   |
| %RSD   | 20.267  | 46.903  | 41.859 | 199.22  | 57.817  | 64.73   | 1000.8  | 4.8325  |
| #1     | .00761  | .00375  | .00146 | -.00118 | .00093  | -.0030  | -.00011 | 3.9668  |
| #2     | .00994  | .00588  | .00058 | .00020  | .00308  | -.0010  | .00014  | 4.1308  |
| #3     | .00677  | .00220  | .00117 | -.00011 | .00384  | -.0012  | .00001  | 3.7503  |

Sample Name: PB118319TB      Acquired: 3/27/2019 17:10:12      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 109.74  
Stddev      10.10  
%RSD      9.2045

#1      105.84  
#2      121.21  
#3      102.17

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2803.0 | 51941. | 3072.0 | 44.406 | 3557.6 |
| Stddev    | 7.3    | 203.   | 25.6   | 2.066  | 2.9    |
| %RSD      | .25958 | .39126 | .83275 | 4.6533 | .08082 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2803.6 | 51930. | 3051.2 | 42.092 | 3560.8 |
| #2 | 2795.5 | 51744. | 3064.2 | 45.058 | 3556.9 |
| #3 | 2810.0 | 52150. | 3100.6 | 46.067 | 3555.1 |

Sample Name: K2107-01      Acquired: 3/27/2019 17:14:49      Type: Unk  
Method: P4-ICP2(v2989)      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    | .15136 | .02009 | .14068 | .11576 | -.00995 | 367.60 | .89643 |
| Stddev | .00415 | .00195 | .00298 | .00202 | .00155  | 1.11   | .00413 |
| %RSD   | 2.7389 | 9.6919 | 2.1197 | 1.7463 | 15.627  | .30292 | .46076 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .15615 | .01788 | .14387 | .11729 | -.00819 | 368.50 | .90106 |
| #2 | .14896 | .02086 | .14019 | .11347 | -.01053 | 366.35 | .89313 |
| #3 | .14899 | .02154 | .13797 | .11652 | -.01113 | 367.94 | .89509 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.03387 | .01126 | 20.953 | .66391 | .09929 | .78656 | 405.52 |
| Stddev | .00014  | .00069 | .124   | .00085 | .00053 | .00998 | .41    |
| %RSD   | .40991  | 6.0871 | .59077 | .12803 | .53426 | 1.2688 | .10019 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.03401 | .01186 | 20.983 | .66479 | .09987 | .79324 | 405.85 |
| #2 | -.03373 | .01139 | 20.817 | .66385 | .09916 | .79136 | 405.06 |
| #3 | -.03387 | .01051 | 21.059 | .66309 | .09883 | .77509 | 405.64 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.7943 | 21.632 | .18365 | -.03866 | 2.0770 | 1.2825 | .35998 |
| Stddev | .0034  | .012   | .00058 | .00115  | .0042  | .0052  | .00469 |
| %RSD   | .18726 | .05705 | .31594 | 2.9663  | .20306 | .40619 | 1.3030 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.7966 | 21.627 | .18397 | -.03993 | 2.0723 | 1.2862 | .36283 |
| #2 | 1.7904 | 21.646 | .18400 | -.03835 | 2.0783 | 1.2766 | .36255 |
| #3 | 1.7958 | 21.623 | .18298 | -.03770 | 2.0805 | 1.2849 | .35457 |

|        |        |         |         |        |        |        |        |
|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 8.1721 | -.00382 | -.16551 | 2.6328 | 2.9691 | .02557 | 2.9610 |
| Stddev | .0325  | .00032  | .01619  | .0252  | .0175  | .00077 | .0281  |
| %RSD   | .39779 | 8.4447  | 9.7826  | .95589 | .58900 | 3.0228 | .94854 |

|    |        |         |         |        |        |        |        |
|----|--------|---------|---------|--------|--------|--------|--------|
| #1 | 8.2093 | -.00355 | -.17037 | 2.6574 | 2.9536 | .02478 | 2.9306 |
| #2 | 8.1580 | -.00418 | -.14744 | 2.6339 | 2.9881 | .02562 | 2.9664 |
| #3 | 8.1491 | -.00374 | -.17871 | 2.6071 | 2.9657 | .02632 | 2.9860 |



Sample Name: K2107-01      Acquired: 3/27/2019 17:14:49      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .12074 | 6.364  | -.36844 | <.00000 | F<.00000 |
| Stddev    | .00157 | .073   | .00074  | .11106  | 218.03   |
| %RSD      | 1.3003 | 1.150  | .20157  | 2.1162  | .65845   |
| #1        | .12100 | 6.420  | -.36915 | -5.1999 | -33299.  |
| #2        | .11905 | 6.391  | -.36767 | -5.3751 | -33164.  |
| #3        | .12216 | 6.281  | -.36850 | -5.1692 | -32872.  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3129.7 | 56833. | 3448.2  | 41.032  | 3375.9   |
| Stddev    | 32.0   | 129.   | 12.5    | .527    | 37.7     |
| %RSD      | 1.0237 | .22712 | .36341  | 1.2833  | 1.1169   |
| #1        | 3110.5 | 56748. | 3461.3  | 41.625  | 3351.3   |
| #2        | 3111.9 | 56981. | 3446.8  | 40.853  | 3357.1   |
| #3        | 3166.7 | 56769. | 3436.4  | 40.619  | 3419.3   |

Sample Name: K2107-03      Acquired: 3/27/2019 17:19:16      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .07518 | .00470 | .17125 | .09221 | -.00764 | 400.46 | 1.1091 |
| Stddev | .00182 | .00058 | .00200 | .00427 | .00234  | 1.78   | .0054  |
| %RSD   | 2.4235 | 12.311 | 1.1673 | 4.6315 | 30.675  | .44462 | .48345 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .07427 | .00523 | .16982 | .08738 | -.00664 | 399.11 | 1.1048 |
| #2 | .07728 | .00478 | .17040 | .09547 | -.00597 | 399.80 | 1.1074 |
| #3 | .07399 | .00408 | .17354 | .09379 | -.01032 | 402.48 | 1.1151 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01852 | .00698 | 5.9060 | .48200 | .19133 | .48774 | 246.75 |
| Stddev | .00034  | .00025 | .0130  | .00196 | .00163 | .00118 | .72    |
| %RSD   | 1.8090  | 3.5518 | .21937 | .40692 | .85108 | .24279 | .29038 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01833 | .00701 | 5.8981 | .48073 | .19179 | .48651 | 246.60 |
| #2 | -.01891 | .00672 | 5.9210 | .48426 | .18952 | .48783 | 246.12 |
| #3 | -.01832 | .00722 | 5.8989 | .48101 | .19268 | .48887 | 247.53 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 2.6683 | 13.497 | .22582 | -.01997 | .57998 | .83056 | .27793 |
| Stddev | .0037  | .156   | .00118 | .00043  | .00692 | .00173 | .00263 |
| %RSD   | .13937 | 1.1524 | .52375 | 2.1428  | 1.1928 | .20776 | .94496 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 2.6652 | 13.363 | .22489 | -.02043 | .58170 | .82860 | .27837 |
| #2 | 2.6724 | 13.460 | .22541 | -.01989 | .58588 | .83188 | .27510 |
| #3 | 2.6673 | 13.668 | .22715 | -.01958 | .57237 | .83119 | .28030 |

|        |        |         |         |        |        |        |        |
|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.3073 | -.00065 | -.05726 | 2.7992 | 2.5723 | .02371 | 2.2273 |
| Stddev | .0510  | .00034  | .01698  | .0178  | .0259  | .00084 | .0022  |
| %RSD   | .54830 | 52.364  | 29.646  | .63564 | 1.0050 | 3.5531 | .10054 |

|    |        |         |         |        |        |        |        |
|----|--------|---------|---------|--------|--------|--------|--------|
| #1 | 9.2484 | -.00060 | -.04901 | 2.8044 | 2.6017 | .02403 | 2.2247 |
| #2 | 9.3365 | -.00102 | -.07679 | 2.7794 | 2.5623 | .02275 | 2.2285 |
| #3 | 9.3371 | -.00034 | -.04599 | 2.8139 | 2.5530 | .02434 | 2.2286 |

Sample Name: K2107-03      Acquired: 3/27/2019 17:19:16      Type: Unk  
Method: P4-ICP2(v2989)      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       | .07863 | 3.981  | -.23859 | <.00000 | F<.00000 |
| Stddev    | .00088 | .032   | .00103  | .31793  | 118.77   |
| %RSD      | 1.1238 | .8071  | .42968  | 4.2914  | .61630   |
| #1        | .07861 | 3.998  | -.23832 | -7.6830 | -19156.  |
| #2        | .07952 | 3.944  | -.23774 | -7.0601 | -19266.  |
| #3        | .07775 | 4.002  | -.23973 | -7.4823 | -19393.  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3646.7 | 65258. | 4055.6  | 41.622  | 3435.9   |
| Stddev    | 5.6    | 145.   | 40.1    | .849    | 19.3     |
| %RSD      | .15363 | .22236 | .98894  | 2.0387  | .56134   |
| #1        | 3641.8 | 65281. | 4022.7  | 42.099  | 3419.1   |
| #2        | 3652.8 | 65103. | 4044.0  | 42.124  | 3457.0   |
| #3        | 3645.5 | 65390. | 4100.3  | 40.642  | 3431.8   |

Sample Name: K2107-05      Acquired: 3/27/2019 17:23:43      Type: Unk  
Method: P4-ICP2(v2989)      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    | .11632 | .00925 | .09735 | .09818 | -.00666 | 222.41 | .49395 |
| Stddev | .00257 | .00169 | .00191 | .00649 | .00179  | .40    | .00190 |
| %RSD   | 2.2130 | 18.285 | 1.9656 | 6.6093 | 26.889  | .18026 | .38393 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .11925 | .00929 | .09695 | .09710 | -.00536 | 221.95 | .49401 |
| #2 | .11530 | .00753 | .09943 | .09230 | -.00870 | 222.67 | .49581 |
| #3 | .11441 | .01091 | .09566 | .10514 | -.00591 | 222.62 | .49202 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02344 | .00430 | 7.9988 | .40554 | .15870 | .41345 | 304.84 |
| Stddev | .00080  | .00028 | .0127  | .00066 | .00107 | .00228 | 2.68   |
| %RSD   | 3.4061  | 6.5448 | .15830 | .16222 | .67535 | .55076 | .87876 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.02426 | .00444 | 8.0061 | .40602 | .15829 | .41145 | 304.24 |
| #2 | -.02339 | .00449 | 7.9842 | .40580 | .15789 | .41593 | 302.50 |
| #3 | -.02266 | .00398 | 8.0061 | .40479 | .15991 | .41297 | 307.76 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.9447 | 15.218 | .07834 | -.01991 | .46967 | .57366 | .41692 |
| Stddev | .0058  | .101   | .00124 | .00084  | .01143 | .00156 | .00136 |
| %RSD   | .14654 | .66415 | 1.5832 | 4.2393  | 2.4339 | .27199 | .32709 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.9512 | 15.108 | .07696 | -.01972 | .45830 | .57478 | .41540 |
| #2 | 3.9401 | 15.239 | .07871 | -.02083 | .46955 | .57431 | .41803 |
| #3 | 3.9427 | 15.307 | .07935 | -.01917 | .48116 | .57188 | .41734 |

|        |        |         |         |        |        |        |        |
|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.865 | -.00220 | -.07917 | 1.1389 | 3.0001 | .01531 | 1.6196 |
| Stddev | .019   | .00038  | .01772  | .0058  | .0380  | .00068 | .0138  |
| %RSD   | .17157 | 17.205  | 22.383  | .51139 | 1.2674 | 4.4637 | .85004 |

|    |        |         |         |        |        |        |        |
|----|--------|---------|---------|--------|--------|--------|--------|
| #1 | 10.885 | -.00180 | -.07828 | 1.1357 | 3.0436 | .01544 | 1.6060 |
| #2 | 10.861 | -.00224 | -.09733 | 1.1354 | 2.9837 | .01592 | 1.6192 |
| #3 | 10.848 | -.00256 | -.06192 | 1.1457 | 2.9731 | .01457 | 1.6335 |

Sample Name: K2107-05      Acquired: 3/27/2019 17:23:43      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .10356 | 5.842  | -.25846 | <.00000 | F<.00000 |
| Stddev    | .00131 | .025   | .00269  | .12006  | 19.874   |
| %RSD      | 1.2697 | .4280  | 1.0391  | 2.7951  | .09009   |
| #1        | .10258 | 5.819  | -.25829 | -4.1870 | -22044.  |
| #2        | .10505 | 5.838  | -.25586 | -4.4244 | -22055.  |
| #3        | .10304 | 5.868  | -.26122 | -4.2748 | -22082.  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3282.7 | 59636. | 3570.1  | 41.589  | 3493.3   |
| Stddev    | 1.1    | 162.   | 24.6    | 1.282   | 5.1      |
| %RSD      | .03468 | .27156 | .69019  | 3.0821  | .14544   |
| #1        | 3283.9 | 59493. | 3559.9  | 40.109  | 3489.0   |
| #2        | 3281.7 | 59812. | 3598.2  | 42.358  | 3499.0   |
| #3        | 3282.6 | 59603. | 3552.2  | 42.299  | 3492.0   |

Sample Name: K2107-07      Acquired: 3/27/2019 17:28:10      Type: Unk  
Method: P4-ICP2(v2989)      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    | .09888 | .01038 | .08321 | .09915 | -.00842 | 255.60 | .52456 |
| Stddev | .00436 | .00032 | .00045 | .00253 | .00113  | 1.28   | .00403 |
| %RSD   | 4.4117 | 3.0613 | .54053 | 2.5476 | 13.376  | .50116 | .76743 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .09652 | .01068 | .08282 | .09624 | -.00930 | 256.25 | .52747 |
| #2 | .10391 | .01005 | .08371 | .10044 | -.00881 | 254.13 | .51997 |
| #3 | .09620 | .01042 | .08311 | .10077 | -.00715 | 256.43 | .52625 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02349 | .00111 | 11.326 | .43040 | .16323 | .37988 | 282.32 |
| Stddev | .00069  | .00020 | .028   | .00344 | .00056 | .00133 | .90    |
| %RSD   | 2.9313  | 18.112 | .24990 | .79891 | .34419 | .35067 | .31961 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.02317 | .00112 | 11.293 | .42889 | .16268 | .37934 | 281.45 |
| #2 | -.02302 | .00131 | 11.341 | .42797 | .16380 | .38140 | 282.28 |
| #3 | -.02428 | .00090 | 11.344 | .43433 | .16322 | .37891 | 283.25 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.3486 | 20.108 | .11121 | -.01715 | 2.1579 | .55975 | .38947 |
| Stddev | .0085  | .146   | .00102 | .00031  | .0058  | .00113 | .00084 |
| %RSD   | .25335 | .72583 | .91319 | 1.8320  | .26715 | .20221 | .21558 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.3457 | 20.198 | .11082 | -.01702 | 2.1516 | .55847 | .38918 |
| #2 | 3.3419 | 19.939 | .11236 | -.01751 | 2.1591 | .56013 | .39042 |
| #3 | 3.3581 | 20.186 | .11044 | -.01692 | 2.1629 | .56064 | .38881 |

|        |        |         |         |        |        |        |        |
|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.8155 | -.00189 | -.05138 | 1.3825 | 3.4610 | .01515 | 1.7969 |
| Stddev | .1047  | .00008  | .01293  | .0024  | .0152  | .00027 | .0061  |
| %RSD   | 1.0663 | 4.2289  | 25.173  | .17464 | .43790 | 1.7836 | .34087 |

|    |        |         |         |        |        |        |        |
|----|--------|---------|---------|--------|--------|--------|--------|
| #1 | 9.9360 | -.00182 | -.03895 | 1.3798 | 3.4547 | .01530 | 1.7915 |
| #2 | 9.7474 | -.00188 | -.05042 | 1.3833 | 3.4783 | .01531 | 1.7957 |
| #3 | 9.7630 | -.00198 | -.06476 | 1.3844 | 3.4499 | .01484 | 1.8036 |

Sample Name: K2107-07      Acquired: 3/27/2019 17:28:10      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .13349 | 4.897  | -.23111 | <.00000 | F<.00000 |
| Stddev | .00242 | .006   | .00072  | .23001  | 47.741   |
| %RSD   | 1.8127 | .1249  | .31058  | 17.295  | .25598   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .13071 | 4.901 | -.23037 | -1.2839 | -18616. |
| #2 | .13458 | 4.890 | -.23118 | -1.5795 | -18629. |
| #3 | .13516 | 4.900 | -.23180 | -1.1264 | -18705. |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3102.6 | 56026. | 3376.8 | 42.085 | 3486.1 |
| Stddev    | 5.5    | 226.   | 6.0    | .858   | 3.3    |
| %RSD      | .17777 | .40386 | .17792 | 2.0378 | .09464 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3097.2 | 55902. | 3374.2 | 41.126 | 3489.4 |
| #2 | 3102.4 | 56288. | 3372.6 | 42.349 | 3486.1 |
| #3 | 3108.3 | 55890. | 3383.7 | 42.779 | 3482.8 |

Sample Name: K2107-09      Acquired: 3/27/2019 17:32:37      Type: Unk  
Method: P4-ICP2(v2989)      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    | .08838 | .00564 | .06797 | .08342 | -.00841 | 159.14 | .37941 |
| Stddev | .00397 | .00210 | .00283 | .00146 | .00149  | .28    | .00087 |
| %RSD   | 4.4892 | 37.198 | 4.1683 | 1.7515 | 17.703  | .17880 | .22812 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .09268 | .00709 | .06476 | .08185 | -.00755 | 159.15 | .37925 |
| #2 | .08486 | .00323 | .07013 | .08473 | -.00755 | 159.42 | .38035 |
| #3 | .08759 | .00659 | .06901 | .08367 | -.01013 | 158.85 | .37864 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01864 | .00067 | 36.568 | .24198 | .11553 | .39062 | 241.03 |
| Stddev | .00011  | .00006 | .089   | .00245 | .00023 | .00127 | .46    |
| %RSD   | .58004  | 9.6738 | .24430 | 1.0111 | .19723 | .32621 | .19176 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01871 | .00073 | 36.468 | .24390 | .11556 | .38916 | 241.49 |
| #2 | -.01851 | .00068 | 36.639 | .24281 | .11528 | .39121 | 241.03 |
| #3 | -.01869 | .00060 | 36.597 | .23922 | .11574 | .39150 | 240.57 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 2.9866 | 16.307 | .05557 | -.01654 | .74165 | .43182 | .27818 |
| Stddev | .0030  | .185   | .00174 | .00048  | .01529 | .00253 | .00042 |
| %RSD   | .09932 | 1.1318 | 3.1316 | 2.9006  | 2.0612 | .58554 | .15104 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 2.9890 | 16.110 | .05476 | -.01614 | .73744 | .43465 | .27779 |
| #2 | 2.9875 | 16.335 | .05438 | -.01641 | .72891 | .43104 | .27863 |
| #3 | 2.9833 | 16.475 | .05757 | -.01707 | .75860 | .42978 | .27811 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 8.8999 | -.00060 | .10897 | 1.2407 | 3.0420 | .01215 | 1.5145 |
| Stddev | .0451  | .00013  | .01293 | .0055  | .0263  | .00129 | .0032  |
| %RSD   | .50674 | 21.675  | 11.870 | .44451 | .86433 | 10.644 | .21426 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | 8.8558 | -.00046 | .10770 | 1.2351 | 3.0723 | .01276 | 1.5111 |
| #2 | 8.8979 | -.00071 | .09671 | 1.2407 | 3.0256 | .01302 | 1.5147 |
| #3 | 8.9460 | -.00063 | .12248 | 1.2462 | 3.0281 | .01066 | 1.5176 |



Sample Name: K2107-09      Acquired: 3/27/2019 17:32:37      Type: Unk  
Method: P4-ICP2(v2989)      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       | .08430 | 4.941  | -.18200 | <.00000 | F<.00000 |
| Stddev    | .00102 | .005   | .00115  | .08445  | 84.067   |
| %RSD      | 1.2103 | .0944  | .63143  | 3.1216  | .53555   |
| #1        | .08312 | 4.939  | -.18322 | -2.7995 | -15773.  |
| #2        | .08496 | 4.938  | -.18184 | -2.6797 | -15712.  |
| #3        | .08482 | 4.947  | -.18094 | -2.6365 | -15607.  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3179.8 | 58440. | 3452.6  | 42.151  | 3526.8   |
| Stddev    | 3.7    | 171.   | 9.1     | .896    | 4.4      |
| %RSD      | .11791 | .29309 | .26433  | 2.1266  | .12377   |
| #1        | 3183.0 | 58295. | 3455.6  | 41.117  | 3529.9   |
| #2        | 3175.7 | 58397. | 3442.3  | 42.623  | 3521.8   |
| #3        | 3180.8 | 58629. | 3459.8  | 42.713  | 3528.6   |

Sample Name: CCV05      Acquired: 3/27/2019 17:37:05      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.0904 | 5.0550 | 5.0706 | 4.9729 | 5.0692 | 10.190 | 10.315 | .25437 |
| Stddev | .0041  | .0078  | .0160  | .0139  | .0064  | .015   | .030   | .00051 |
| %RSD   | .08053 | .15419 | .31598 | .27928 | .12657 | .14815 | .29439 | .20237 |
| #1     | 5.0887 | 5.0529 | 5.0578 | 4.9615 | 5.0626 | 10.175 | 10.299 | .25403 |
| #2     | 5.0873 | 5.0484 | 5.0655 | 4.9884 | 5.0694 | 10.205 | 10.296 | .25413 |
| #3     | 5.0950 | 5.0636 | 5.0886 | 4.9689 | 5.0754 | 10.190 | 10.350 | .25496 |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.5262 | 25.177 | 1.0499 | 2.5117 | 1.3070 | 4.9489 | 2.5550 | 25.254 |
| Stddev | .0049  | .025   | .0058  | .0048  | .0034  | .0091  | .0063  | .073   |
| %RSD   | .19398 | .09930 | .54917 | .19044 | .25718 | .18279 | .24577 | .28907 |
| #1     | 2.5235 | 25.152 | 1.0526 | 2.5084 | 1.3037 | 4.9538 | 2.5590 | 25.256 |
| #2     | 2.5231 | 25.202 | 1.0539 | 2.5094 | 1.3069 | 4.9545 | 2.5582 | 25.180 |
| #3     | 2.5318 | 25.177 | 1.0433 | 2.5172 | 1.3104 | 4.9385 | 2.5477 | 25.326 |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.5437 | 1.2571 | 24.613 | 2.5350 | 2.5217 | 25.736 | 5.1171 | 5.1146 |
| Stddev | .0072  | .0033  | .064   | .0009  | .0059  | .137   | .0099  | .0522  |
| %RSD   | .28318 | .26241 | .25846 | .03422 | .23259 | .53365 | .19346 | 1.0213 |
| #1     | 2.5397 | 1.2534 | 24.619 | 2.5360 | 2.5195 | 25.648 | 5.1061 | 5.0986 |
| #2     | 2.5394 | 1.2597 | 24.547 | 2.5344 | 2.5172 | 25.666 | 5.1201 | 5.0723 |
| #3     | 2.5520 | 1.2582 | 24.673 | 2.5347 | 2.5283 | 25.895 | 5.1252 | 5.1730 |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.0675 | 5.0792 | 4.9819 | 5.1858 | 5.0183 | 5.069  | 5.2097 | 5.0405 |
| Stddev | .0098  | .0396  | .0081  | .0150  | .0194  | .013   | .0177  | .1259  |
| %RSD   | .19442 | .77869 | .16331 | .28872 | .38610 | .2575  | .33932 | 2.4971 |
| #1     | 5.0665 | 5.1004 | 4.9795 | 5.1693 | 5.0266 | 5.070  | 5.2264 | 5.1063 |
| #2     | 5.0778 | 5.1037 | 4.9752 | 5.1984 | 5.0321 | 5.055  | 5.2115 | 5.1197 |
| #3     | 5.0582 | 5.0336 | 4.9910 | 5.1899 | 4.9961 | 5.081  | 5.1911 | 4.8954 |

Sample Name: CCV05      Acquired: 3/27/2019 17:37:05      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 60.172 |
| Stddev | 32.300   |
| %RSD   | 53.679   |

|    |        |
|----|--------|
| #1 | 28.381 |
| #2 | 92.958 |
| #3 | 59.177 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2789.6 | 51317. | 2981.5 | 41.267 | 3509.7 |
| Stddev    | 4.1    | 70.    | 19.8   | 1.026  | 10.0   |
| %RSD      | .14850 | .13646 | .66337 | 2.4856 | .28587 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2791.5 | 51237. | 2965.6 | 41.534 | 3512.1 |
| #2 | 2792.5 | 51352. | 2975.2 | 42.133 | 3518.3 |
| #3 | 2784.9 | 51364. | 3003.6 | 40.134 | 3498.7 |

Sample Name: CCB05      Acquired: 3/27/2019 17:41:04      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00001 | .00078  | .00148  | -.00254 | -.00022 | -.02766 | .00128  | -.00008  |
| Stddev | .00026  | .00108  | .00101  | .00200  | .00028  | .01096  | .00170  | .00007   |
| %RSD   | 5168.0  | 138.21  | 68.707  | 78.654  | 128.62  | 39.629  | 133.34  | 82.848   |
| #1     | -.00010 | -.00046 | .00061  | -.00321 | -.00053 | -.01683 | -.00069 | -.00013  |
| #2     | -.00020 | .00146  | .00259  | -.00029 | .00003  | -.02742 | .00238  | -.00011  |
| #3     | .00029  | .00134  | .00123  | -.00411 | -.00017 | -.03875 | .00214  | -.00000  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00015  | .00108  | -.00022 | -.00004 | .00147  | -.00196 | -.00003 | -.04244  |
| Stddev | .00010  | .02288  | .00045  | .00021  | .00029  | .00079  | .00005  | .05766   |
| %RSD   | 67.167  | 2109.1  | 206.03  | 558.95  | 20.073  | 40.249  | 164.38  | 135.87   |
| #1     | .00014  | -.02432 | -.00014 | .00019  | .00174  | -.00197 | .00001  | -.00475  |
| #2     | .00005  | .00751  | .00018  | -.00008 | .00150  | -.00274 | -.00001 | -.01375  |
| #3     | .00025  | .02007  | -.00070 | -.00022 | .00115  | -.00116 | -.00009 | -.10882  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00132  | -.00012 | .03050  | -.00019 | .00029  | .14427  | .00023  | -.00051  |
| Stddev | .00003  | .00025  | .01904  | .00027  | .00003  | .03468  | .00002  | .01719   |
| %RSD   | 2.2288  | 211.08  | 62.409  | 142.38  | 10.731  | 24.037  | 8.0215  | 3365.4   |
| #1     | .00133  | .00017  | .05056  | -.00050 | .00026  | .14464  | .00026  | -.01835  |
| #2     | .00129  | -.00027 | .02826  | .00001  | .00030  | .17876  | .00022  | .00087   |
| #3     | .00135  | -.00025 | .01268  | -.00009 | .00032  | .10941  | .00022  | .01595   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00406  | .00272  | .00311  | -.00080 | .00442  | -.0027  | .00020  | F 3.1024 |
| Stddev | .00331  | .00120  | .00091  | .00218  | .00160  | .0007   | .00014  | .3454    |
| %RSD   | 81.541  | 44.018  | 29.272  | 272.03  | 36.298  | 27.86   | 68.129  | 11.135   |
| #1     | .00369  | .00396  | .00397  | .00113  | .00625  | -.0035  | .00005  | 2.7078   |
| #2     | .00753  | .00264  | .00321  | -.00316 | .00376  | -.0026  | .00023  | 3.3502   |
| #3     | .00095  | .00157  | .00215  | -.00037 | .00325  | -.0020  | .00032  | 3.2491   |

Sample Name: CCB05      Acquired: 3/27/2019 17:41:04      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 69.994 |
| Stddev | 34.134   |
| %RSD   | 48.766   |

|    |        |
|----|--------|
| #1 | 108.62 |
| #2 | 57.454 |
| #3 | 43.905 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2912.6 | 52994. | 3021.0 | 44.306 | 3950.5 |
| Stddev    | 3.9    | 168.   | 27.1   | 1.924  | 3.4    |
| %RSD      | .13370 | .31638 | .89800 | 4.3429 | .08504 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2912.4 | 52897. | 3025.9 | 42.092 | 3949.6 |
| #2 | 2908.9 | 52898. | 2991.8 | 45.575 | 3947.7 |
| #3 | 2916.7 | 53188. | 3045.4 | 45.250 | 3954.2 |

Sample Name: K1963-03      Acquired: 3/27/2019 17:45:32      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00128 | -.00074 | .00131  | -.00142 | -.00175 | -.03500 | .04055  | -.00001 |
| Stddev | .00268  | .00174  | .00018  | .00374  | .00179  | .00965  | .00115  | .00011  |
| %RSD   | 208.33  | 236.05  | 13.982  | 262.97  | 102.20  | 27.561  | 2.8457  | 1963.3  |
| #1     | .00086  | -.00149 | .00110  | -.00543 | -.00333 | -.02409 | .03993  | -.00005 |
| #2     | -.00043 | .00126  | .00142  | -.00083 | -.00213 | -.03851 | .03983  | -.00008 |
| #3     | -.00428 | -.00198 | .00141  | .00199  | .00020  | -.04239 | .04188  | .00012  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00034  | 23.969  | -.00022 | .00110  | -.00134 | .84750  | .26829  | 3.0017  |
| Stddev | .00008  | .204    | .00021  | .00035  | .00066  | .00659  | .00110  | .0306   |
| %RSD   | 22.094  | .85028  | 97.176  | 31.936  | 48.964  | .77786  | .41108  | 1.0205  |
| #1     | .00041  | 24.181  | -.00045 | .00141  | -.00079 | .84243  | .26939  | 3.0254  |
| #2     | .00036  | 23.774  | -.00005 | .00072  | -.00116 | .85495  | .26719  | 3.0125  |
| #3     | .00026  | 23.954  | -.00015 | .00118  | -.00207 | .84512  | .26829  | 2.9671  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00114  | -.00146 | 56.342  | -.00065 | .00664  | 2.6105  | .00004  | .04359  |
| Stddev | .00030  | .00097  | .526    | .00053  | .00010  | .0692   | .00041  | .01926  |
| %RSD   | 26.096  | 66.400  | .93369  | 81.244  | 1.5792  | 2.6498  | 973.77  | 44.187  |
| #1     | .00127  | -.00044 | 56.656  | -.00102 | .00671  | 2.6681  | -.00031 | .06393  |
| #2     | .00080  | -.00158 | 55.734  | -.00088 | .00669  | 2.5338  | -.00007 | .04124  |
| #3     | .00136  | -.00237 | 56.635  | -.00004 | .00652  | 2.6296  | .00050  | .02562  |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 9.6339  | 2.2920  | -.00385 | -.00131 | -.00457 | .0156   | .16985  | 2.8452  |
| Stddev | .1984   | .0252   | .00033  | .00044  | .00070  | .0009   | .00058  | .5251   |
| %RSD   | 2.0589  | 1.0998  | 8.5144  | 33.360  | 15.245  | 5.804   | .34357  | 18.455  |
| #1     | 9.8220  | 2.2943  | -.00379 | -.00091 | -.00478 | .0153   | .17018  | 2.9944  |
| #2     | 9.6530  | 2.3160  | -.00420 | -.00177 | -.00514 | .0167   | .16918  | 2.2617  |
| #3     | 9.4267  | 2.2658  | -.00355 | -.00125 | -.00379 | .0149   | .17020  | 3.2796  |

Sample Name: K1963-03      Acquired: 3/27/2019 17:45:32      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 90.385  
 Stddev      11.908  
 %RSD      13.174

#1      84.366  
 #2      104.10  
 #3      82.688

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2965.0 | 53879. | 3152.7 | 44.735 | 3930.3 |
| Stddev    | 36.4   | 304.   | 27.2   | 1.774  | 38.0   |
| %RSD      | 1.2293 | .56401 | .86304 | 3.9647 | .96692 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2951.7 | 53866. | 3128.5 | 45.330 | 3910.3 |
| #2 | 2937.1 | 54189. | 3147.6 | 42.740 | 3906.5 |
| #3 | 3006.2 | 53582. | 3182.1 | 46.134 | 3974.1 |

Sample Name: K1963-05      Acquired: 3/27/2019 17:49:56      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00101 | -.00157 | .00165 | -.00054 | -.00160 | -.02138 | .04092 | -.00007 |
| Stddev | .00205 | .00074  | .00117 | .00337  | .00037  | .01954  | .00106 | .00007  |
| %RSD   | 203.11 | 46.947  | 70.674 | 618.47  | 22.894  | 91.392  | 2.5963 | 98.697  |

|    |         |         |        |         |         |         |        |         |
|----|---------|---------|--------|---------|---------|---------|--------|---------|
| #1 | .00112  | -.00224 | .00085 | .00286  | -.00182 | -.00413 | .04212 | .00001  |
| #2 | .00300  | -.00078 | .00299 | -.00062 | -.00117 | -.04259 | .04050 | -.00010 |
| #3 | -.00109 | -.00168 | .00111 | -.00387 | -.00180 | -.01741 | .04013 | -.00012 |

|        |        |        |         |        |         |        |        |        |
|--------|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247  | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00037 | 23.951 | -.00001 | .00118 | -.00165 | .84124 | .26777 | 2.8817 |
| Stddev | .00004 | .047   | .00007  | .00010 | .00062  | .00485 | .00047 | .1114  |
| %RSD   | 11.255 | .19540 | 732.94  | 8.6984 | 37.789  | .57685 | .17712 | 3.8659 |

|    |        |        |         |        |         |        |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00039 | 24.000 | -.00010 | .00129 | -.00167 | .84593 | .26733 | 2.8057 |
| #2 | .00033 | 23.907 | .00003  | .00113 | -.00227 | .84155 | .26827 | 3.0096 |
| #3 | .00041 | 23.946 | .00003  | .00110 | -.00102 | .83624 | .26770 | 2.8299 |

|        |        |         |        |         |        |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00157 | -.00123 | 55.907 | -.00069 | .00589 | 2.6393 | .00017 | .05683 |
| Stddev | .00047 | .00070  | .307   | .00056  | .00014 | .0302  | .00022 | .03543 |
| %RSD   | 29.953 | 56.818  | .54922 | 80.653  | 2.3112 | 1.1428 | 130.24 | 62.344 |

|    |        |         |        |         |        |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|--------|
| #1 | .00198 | -.00059 | 55.917 | -.00124 | .00604 | 2.6287 | .00003 | .01597 |
| #2 | .00168 | -.00197 | 56.209 | -.00071 | .00577 | 2.6734 | .00006 | .07541 |
| #3 | .00106 | -.00113 | 55.595 | -.00012 | .00585 | 2.6159 | .00043 | .07910 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | 9.7235 | 2.3195 | -.00331 | -.00039 | -.00265 | .0152  | .17013 | 3.0361 |
| Stddev | .0193  | .0016  | .00062  | .00199  | .00058  | .0017  | .00039 | .1910  |
| %RSD   | .19898 | .06944 | 18.868  | 507.73  | 21.824  | 11.33  | .23081 | 6.2918 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | 9.7449 | 2.3187 | -.00269 | .00096  | -.00269 | .0156 | .17046 | 2.8266 |
| #2 | 9.7186 | 2.3184 | -.00394 | .00054  | -.00320 | .0133 | .16970 | 3.0810 |
| #3 | 9.7071 | 2.3213 | -.00329 | -.00268 | -.00205 | .0167 | .17024 | 3.2006 |



Sample Name: K1963-05      Acquired: 3/27/2019 17:49:56      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 85.227 |
| Stddev | 38.155 |
| %RSD   | 44.769 |

|    |        |
|----|--------|
| #1 | 108.31 |
| #2 | 41.187 |
| #3 | 106.18 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2920.7 | 53736. | 3121.5 | 45.470 | 3883.3 |
| Stddev    | 2.9    | 112.   | 11.0   | .815   | 6.0    |
| %RSD      | .09784 | .20836 | .35267 | 1.7918 | .15337 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2917.4 | 53792. | 3123.5 | 44.574 | 3876.6 |
| #2 | 2922.3 | 53607. | 3131.4 | 45.669 | 3888.1 |
| #3 | 2922.4 | 53808. | 3109.6 | 46.167 | 3885.0 |

Sample Name: K1969-10      Acquired: 3/27/2019 17:54:20      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00216   | -.00040 | .00335  | .00141  | -.00157 | -.02552 | .13240  | .00001  |
| Stddev | .00158   | .00127  | .00074  | .00282  | .00182  | .01394  | .00141  | .00006  |
| %RSD   | 73.024   | 318.33  | 22.095  | 200.40  | 115.90  | 54.619  | 1.0663  | 575.34  |
| #1     | .00152   | -.00133 | .00251  | .00025  | -.00356 | -.04022 | .13108  | -.00005 |
| #2     | .00100   | .00105  | .00390  | -.00065 | -.00000 | -.02385 | .13223  | .00007  |
| #3     | .00395   | -.00091 | .00365  | .00463  | -.00114 | -.01249 | .13389  | .00001  |
| Elem   | Cd2265   | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00018   | 22.246  | .00587  | -.00000 | -.00463 | -.01421 | .03779  | 5.7472  |
| Stddev | .00006   | .114    | .00034  | .00013  | .00029  | .00170  | .00005  | .0339   |
| %RSD   | 33.452   | .51352  | 5.8195  | 4466.3  | 6.2510  | 11.950  | .14299  | .58912  |
| #1     | .00024   | 22.150  | .00613  | -.00006 | -.00495 | -.01442 | .03776  | 5.7082  |
| #2     | .00016   | 22.372  | .00548  | -.00010 | -.00453 | -.01580 | .03785  | 5.7694  |
| #3     | .00013   | 22.215  | .00601  | .00015  | -.00440 | -.01242 | .03776  | 5.7640  |
| Elem   | Ni2316   | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00144   | -.00156 | 20.214  | -.00008 | .00495  | 4.4404  | -.00001 | .05007  |
| Stddev | .00048   | .00017  | .086    | .00005  | .00008  | .0222   | .00006  | .00961  |
| %RSD   | 33.513   | 10.794  | .42318  | 61.757  | 1.5961  | .49986  | 809.90  | 19.185  |
| #1     | .00198   | -.00174 | 20.117  | -.00002 | .00498  | 4.4418  | .00006  | .03899  |
| #2     | .00106   | -.00140 | 20.250  | -.00012 | .00501  | 4.4175  | -.00004 | .05599  |
| #3     | .00128   | -.00155 | 20.276  | -.00009 | .00486  | 4.4618  | -.00004 | .05524  |
| Elem   | S_1820   | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm      | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | F 11.100 | 5.0758  | -.00432 | -.00194 | -.00174 | .0644   | .20179  | 3.4268  |
| Stddev | .095     | .0191   | .00064  | .00198  | .00265  | .0016   | .00039  | .3202   |
| %RSD   | .85629   | .37632  | 14.837  | 101.69  | 152.08  | 2.441   | .19214  | 9.3449  |
| #1     | 11.050   | 5.0888  | -.00502 | -.00261 | .00127  | .0641   | .20134  | 3.0586  |
| #2     | 11.039   | 5.0846  | -.00414 | .00028  | -.00280 | .0661   | .20205  | 3.6406  |
| #3     | 11.209   | 5.0538  | -.00378 | -.00350 | -.00370 | .0630   | .20197  | 3.5810  |

Sample Name: K1969-10      Acquired: 3/27/2019 17:54:20      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 92.921  
 Stddev      8.242  
 %RSD      8.8696

#1      83.565  
 #2      96.091  
 #3      99.107

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2912.6 | 53337. | 3084.4 | 45.088 | 3953.5 |
| Stddev    | 7.9    | 232.   | 21.3   | 1.875  | 14.0   |
| %RSD      | .27048 | .43512 | .69080 | 4.1588 | .35471 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2921.4 | 53585. | 3084.3 | 43.979 | 3966.5 |
| #2 | 2910.2 | 53125. | 3063.2 | 47.253 | 3955.3 |
| #3 | 2906.2 | 53301. | 3105.8 | 44.032 | 3938.7 |

Sample Name: K1965-07      Acquired: 3/27/2019 17:58:44      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00331 | -.00050 | .00174  | -.00211 | -.00314 | -.03562 | .05931  | .00015 |
| Stddev | .00346  | .00055  | .00031  | .00366  | .00218  | .00448  | .00175  | .00007 |
| %RSD   | 104.73  | 108.90  | 17.885  | 173.57  | 69.178  | 12.584  | 2.9562  | 44.895 |
| #1     | -.00703 | -.00113 | .00206  | .00167  | -.00358 | -.03922 | .05730  | .00017 |
| #2     | -.00271 | -.00009 | .00174  | -.00236 | -.00078 | -.03060 | .06011  | .00008 |
| #3     | -.00018 | -.00030 | .00144  | -.00563 | -.00507 | -.03703 | .06052  | .00021 |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790 |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00020  | 13.033  | -.00034 | .00045  | -.00023 | -.01921 | .00613  | 4.1005 |
| Stddev | .00007  | .086    | .00051  | .00018  | .00013  | .00046  | .00002  | .0517  |
| %RSD   | 33.780  | .65603  | 150.03  | 39.714  | 54.408  | 2.3712  | .29429  | 1.2604 |
| #1     | .00017  | 12.937  | .00003  | .00043  | -.00010 | -.01896 | .00615  | 4.1284 |
| #2     | .00015  | 13.064  | -.00093 | .00028  | -.00024 | -.01974 | .00613  | 4.0409 |
| #3     | .00027  | 13.099  | -.00013 | .00063  | -.00036 | -.01894 | .00612  | 4.1323 |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496 |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00278  | -.00085 | 23.718  | -.00021 | .02297  | 2.8530  | -.00018 | .05679 |
| Stddev | .00029  | .00013  | .194    | .00011  | .00017  | .0236   | .00020  | .02198 |
| %RSD   | 10.511  | 15.111  | .81587  | 55.281  | .73934  | .82847  | 113.21  | 38.700 |
| #1     | .00277  | -.00076 | 23.935  | -.00008 | .02312  | 2.8678  | -.00020 | .04724 |
| #2     | .00249  | -.00100 | 23.651  | -.00030 | .02301  | 2.8655  | .00003  | .04120 |
| #3     | .00308  | -.00079 | 23.566  | -.00025 | .02279  | 2.8258  | -.00037 | .08193 |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670 |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | 8.2602  | 3.7884  | -.00386 | .00213  | -.00140 | -.0004  | .21521  | 3.6893 |
| Stddev | .0416   | .0372   | .00058  | .00231  | .00254  | .0007   | .00080  | .1042  |
| %RSD   | .50347  | .98183  | 15.021  | 108.76  | 181.50  | 159.3   | .37346  | 2.8236 |
| #1     | 8.2826  | 3.7827  | -.00453 | .00235  | -.00432 | -.0012  | .21428  | 3.8009 |
| #2     | 8.2858  | 3.7544  | -.00364 | .00432  | -.00022 | -.0002  | .21572  | 3.5947 |
| #3     | 8.2122  | 3.8281  | -.00343 | -.00029 | .00033  | .0001   | .21562  | 3.6721 |

Sample Name: K1965-07      Acquired: 3/27/2019 17:58:44      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 140.53  
Stddev      14.08  
%RSD      10.019

#1      156.03  
#2      137.01  
#3      128.54

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2892.9 | 52652. | 2977.3 | 43.176 | 3926.5 |
| Stddev    | 21.4   | 198.   | 22.6   | 1.007  | 29.0   |
| %RSD      | .73934 | .37674 | .75955 | 2.3331 | .73923 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2868.2 | 52525. | 2998.4 | 42.016 | 3895.7 |
| #2 | 2904.3 | 52880. | 2980.2 | 43.683 | 3930.5 |
| #3 | 2906.1 | 52549. | 2953.4 | 43.829 | 3953.4 |

Sample Name: K1965-09      Acquired: 3/27/2019 18:03:09      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00042 | -.00122 | .00149 | -.00298 | -.00119 | -.03639 | .05686 | .00012 |
| Stddev | .00241  | .00035  | .00090 | .00117  | .00130  | .01402  | .00097 | .00005 |
| %RSD   | 573.87  | 28.671  | 60.631 | 39.207  | 108.66  | 38.530  | 1.7084 | 41.690 |

|    |         |         |        |         |         |         |        |        |
|----|---------|---------|--------|---------|---------|---------|--------|--------|
| #1 | -.00145 | -.00151 | .00230 | -.00416 | .00025  | -.02054 | .05593 | .00010 |
| #2 | .00233  | -.00133 | .00165 | -.00182 | -.00158 | -.04144 | .05787 | .00008 |
| #3 | -.00215 | -.00083 | .00052 | -.00297 | -.00225 | -.04718 | .05679 | .00017 |

|        |        |        |        |        |         |         |        |        |
|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247  | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    | ppm    |
| Avg    | .00021 | 12.758 | .00018 | .00034 | -.00018 | -.01981 | .00604 | 4.0261 |
| Stddev | .00005 | .057   | .00009 | .00008 | .00054  | .00011  | .00006 | .0586  |
| %RSD   | 22.963 | .44709 | 48.786 | 24.400 | 292.73  | .56023  | 1.0644 | 1.4548 |

|    |        |        |        |        |         |         |        |        |
|----|--------|--------|--------|--------|---------|---------|--------|--------|
| #1 | .00021 | 12.703 | .00024 | .00024 | -.00058 | -.01970 | .00597 | 4.0652 |
| #2 | .00026 | 12.754 | .00023 | .00039 | .00043  | -.01993 | .00606 | 4.0542 |
| #3 | .00017 | 12.817 | .00008 | .00037 | -.00039 | -.01980 | .00609 | 3.9587 |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00325 | -.00101 | 23.565 | -.00010 | .02406 | 2.8441 | -.00007 | .05406 |
| Stddev | .00039 | .00086  | .093   | .00045  | .00048 | .0815  | .00023  | .02380 |
| %RSD   | 12.009 | 85.293  | .39373 | 438.82  | 1.9807 | 2.8674 | 319.37  | 44.032 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .00322 | -.00079 | 23.662 | .00023  | .02365 | 2.7892 | -.00022 | .05077 |
| #2 | .00288 | -.00028 | 23.556 | -.00062 | .02458 | 2.9378 | .00020  | .07934 |
| #3 | .00366 | -.00197 | 23.477 | .00008  | .02395 | 2.8052 | -.00020 | .03208 |

|        |        |        |         |         |         |        |        |        |
|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm     | ppm    | ppm    | ppm    |
| Avg    | 8.2199 | 3.6442 | -.00300 | -.00118 | -.00361 | -.0003 | .21067 | 2.6207 |
| Stddev | .1263  | .0134  | .00116  | .00289  | .00083  | .0010  | .00051 | .1311  |
| %RSD   | 1.5359 | .36632 | 38.685  | 245.50  | 22.903  | 293.2  | .24258 | 5.0040 |

|    |        |        |         |         |         |        |        |        |
|----|--------|--------|---------|---------|---------|--------|--------|--------|
| #1 | 8.1203 | 3.6319 | -.00168 | -.00025 | -.00331 | .0008  | .21044 | 2.5583 |
| #2 | 8.3619 | 3.6424 | -.00343 | -.00442 | -.00298 | -.0008 | .21126 | 2.5324 |
| #3 | 8.1775 | 3.6584 | -.00387 | .00114  | -.00455 | -.0010 | .21032 | 2.7714 |

Sample Name: K1965-09      Acquired: 3/27/2019 18:03:09      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 68.132 |
| Stddev | 13.445 |
| %RSD   | 19.733 |

|    |        |
|----|--------|
| #1 | 81.815 |
| #2 | 67.644 |
| #3 | 54.938 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2894.3 | 53784. | 3073.6 | 44.421 | 3926.5 |
| Stddev    | 38.6   | 117.   | 18.0   | .625   | 56.3   |
| %RSD      | 1.3338 | .21751 | .58560 | 1.4071 | 1.4347 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2924.1 | 53919. | 3085.0 | 45.017 | 3968.4 |
| #2 | 2850.7 | 53713. | 3082.9 | 44.474 | 3862.5 |
| #3 | 2908.2 | 53720. | 3052.8 | 43.770 | 3948.7 |

Sample Name: K2107-11      Acquired: 3/27/2019 18:07:33      Type: Unk  
Method: P4-ICP2(v2989)      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    | .13234 | .01634 | .13483 | .11977 | -.01162 | 347.75 | .75394 |
| Stddev | .00274 | .00027 | .00139 | .00554 | .00394  | 1.32   | .00267 |
| %RSD   | 2.0709 | 1.6683 | 1.0338 | 4.6224 | 33.954  | .37864 | .35466 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .13372 | .01604 | .13636 | .11412 | -.01391 | 347.00 | .75547 |
| #2 | .12918 | .01657 | .13363 | .12518 | -.01388 | 349.27 | .75550 |
| #3 | .13411 | .01641 | .13450 | .12001 | -.00706 | 346.98 | .75085 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02845 | .00841 | 17.310 | .68909 | .10900 | .67648 | 384.79 |
| Stddev | .00045  | .00037 | .090   | .00367 | .00066 | .00182 | 1.46   |
| %RSD   | 1.5752  | 4.3484 | .51829 | .53304 | .60428 | .26922 | .38010 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.02888 | .00863 | 17.413 | .69088 | .10975 | .67786 | 383.54 |
| #2 | -.02848 | .00862 | 17.249 | .69152 | .10852 | .67442 | 386.40 |
| #3 | -.02799 | .00799 | 17.269 | .68486 | .10874 | .67716 | 384.44 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 2.0086 | 23.853 | .20769 | -.03401 | 1.8401 | 1.0551 | .45554 |
| Stddev | .0017  | .201   | .00242 | .00058  | .0210  | .0014  | .00048 |
| %RSD   | .08436 | .84341 | 1.1665 | 1.7111  | 1.1428 | .13575 | .10600 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 2.0081 | 23.634 | .21038 | -.03346 | 1.8491 | 1.0539 | .45603 |
| #2 | 2.0104 | 24.028 | .20568 | -.03462 | 1.8552 | 1.0567 | .45506 |
| #3 | 2.0072 | 23.899 | .20700 | -.03395 | 1.8161 | 1.0548 | .45554 |

|        |        |         |         |        |        |        |        |
|--------|--------|---------|---------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496  | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.913 | -.00244 | -.09209 | 2.5413 | 2.5472 | .02367 | 2.3889 |
| Stddev | .045   | .00029  | .02595  | .0262  | .0044  | .00190 | .0044  |
| %RSD   | .41113 | 12.077  | 28.177  | 1.0326 | .17292 | 8.0346 | .18310 |

|    |        |         |         |        |        |        |        |
|----|--------|---------|---------|--------|--------|--------|--------|
| #1 | 10.875 | -.00273 | -.09681 | 2.5713 | 2.5458 | .02397 | 2.3867 |
| #2 | 10.962 | -.00243 | -.11535 | 2.5227 | 2.5522 | .02540 | 2.3861 |
| #3 | 10.902 | -.00215 | -.06410 | 2.5298 | 2.5437 | .02163 | 2.3940 |



Sample Name: K2107-11      Acquired: 3/27/2019 18:07:33      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .17291 | 6.452  | -.31176 | <.00000 | F<.00000 |
| Stddev    | .00097 | .058   | .00193  | .37544  | 56.524   |
| %RSD      | .56201 | .8972  | .62004  | 8.7112  | .19333   |
| #1        | .17300 | 6.519  | -.31027 | -4.1395 | -29191.  |
| #2        | .17383 | 6.415  | -.31394 | -4.0498 | -29221.  |
| #3        | .17190 | 6.423  | -.31106 | -4.7403 | -29301.  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3164.0 | 57383. | 3528.8  | 40.843  | 3378.6   |
| Stddev    | 4.2    | 215.   | 19.0    | 1.914   | 17.0     |
| %RSD      | .13312 | .37447 | .53971  | 4.6850  | .50256   |
| #1        | 3160.7 | 57328. | 3507.5  | 40.003  | 3368.9   |
| #2        | 3162.5 | 57200. | 3544.4  | 43.033  | 3368.7   |
| #3        | 3168.7 | 57619. | 3534.3  | 39.493  | 3398.2   |

Sample Name: PB118301BL      Acquired: 3/27/2019 18:12:00      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00164 | -.00099 | .00045  | .00278  | -.00014 | -.00673 | -.00001 | -.00001  |
| Stddev | .00199  | .00092  | .00028  | .00342  | .00160  | .01833  | .00089  | .00004   |
| %RSD   | 121.91  | 93.042  | 63.359  | 123.14  | 1162.0  | 272.10  | 8849.0  | 284.54   |
| #1     | -.00081 | -.00126 | .00032  | .00657  | -.00153 | -.02789 | -.00074 | -.00001  |
| #2     | -.00019 | -.00175 | .00025  | -.00008 | .00161  | .00354  | -.00028 | .00003   |
| #3     | -.00391 | .00004  | .00077  | .00185  | -.00049 | .00415  | .00098  | -.00006  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00009  | -.00239 | .00013  | -.00012 | .00317  | .00791  | -.00007 | -.02864  |
| Stddev | .00007  | .00504  | .00048  | .00026  | .00013  | .00274  | .00005  | .09976   |
| %RSD   | 70.106  | 210.29  | 371.17  | 214.30  | 3.9492  | 34.685  | 68.060  | 348.35   |
| #1     | .00013  | .00208  | -.00037 | -.00038 | .00325  | .01086  | -.00013 | .02394   |
| #2     | .00014  | -.00142 | .00057  | -.00012 | .00324  | .00745  | -.00003 | .03383   |
| #3     | .00002  | -.00785 | .00019  | .00014  | .00303  | .00543  | -.00006 | -.14369  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00144  | -.00055 | .13258  | -.00029 | .00025  | .13918  | .00011  | -.00673  |
| Stddev | .00018  | .00044  | .01139  | .00027  | .00010  | .07352  | .00047  | .01341   |
| %RSD   | 12.485  | 79.466  | 8.5888  | 93.732  | 38.345  | 52.819  | 436.02  | 199.32   |
| #1     | .00161  | -.00005 | .14454  | -.00030 | .00036  | .05655  | -.00034 | -.01669  |
| #2     | .00145  | -.00082 | .12186  | -.00001 | .00020  | .19732  | .00007  | .00852   |
| #3     | .00125  | -.00079 | .13134  | -.00056 | .00019  | .16369  | .00060  | -.01202  |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00393  | .00009  | .00016  | .00217  | .00458  | -.0009  | .00015  | F 3.1804 |
| Stddev | .00315  | .00023  | .00105  | .00268  | .00027  | .0005   | .00005  | .0856    |
| %RSD   | 80.055  | 264.01  | 642.16  | 123.75  | 5.8929  | 51.75   | 35.600  | 2.6898   |
| #1     | .00089  | .00002  | .00131  | .00456  | .00428  | -.0011  | .00017  | 3.0830   |
| #2     | .00373  | .00034  | -.00076 | -.00073 | .00481  | -.0013  | .00009  | 3.2147   |
| #3     | .00718  | -.00011 | -.00006 | .00266  | .00464  | -.0004  | .00018  | 3.2434   |

Sample Name: PB118301BL      Acquired: 3/27/2019 18:12:00      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 63.306  
Stddev      6.000  
%RSD      9.4775

#1      56.904  
#2      68.800  
#3      64.213

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2881.3 | 52605. | 3006.5 | 43.144 | 3929.2 |
| Stddev    | 4.2    | 82.    | 12.5   | 2.613  | 8.0    |
| %RSD      | .14648 | .15536 | .41462 | 6.0565 | .20323 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2876.9 | 52520. | 2994.7 | 44.083 | 3920.2 |
| #2 | 2885.4 | 52612. | 3019.5 | 40.192 | 3935.5 |
| #3 | 2881.4 | 52683. | 3005.4 | 45.158 | 3931.8 |

Sample Name: PB118302BL      Acquired: 3/27/2019 18:16:27      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00007  | .00019  | .00069  | -.00156 | -.00058 | -.02601 | .00108  | -.00010  |
| Stddev | .00485  | .00034  | .00079  | .00346  | .00069  | .01125  | .00068  | .00007   |
| %RSD   | 7209.9  | 181.37  | 115.01  | 221.89  | 117.26  | 43.234  | 62.675  | 66.293   |
| #1     | -.00458 | .00046  | .00159  | -.00253 | .00020  | -.01399 | .00164  | -.00005  |
| #2     | .00510  | .00030  | .00009  | .00228  | -.00093 | -.02778 | .00033  | -.00008  |
| #3     | -.00032 | -.00020 | .00039  | -.00444 | -.00103 | -.03627 | .00129  | -.00017  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00011  | -.00616 | -.00020 | -.00013 | .00310  | -.00141 | -.00000 | -.06341  |
| Stddev | .00001  | .01971  | .00061  | .00009  | .00014  | .00026  | .00010  | .02633   |
| %RSD   | 6.9628  | 319.94  | 310.24  | 68.547  | 4.5168  | 18.305  | 2377.9  | 41.519   |
| #1     | .00011  | .00895  | -.00039 | -.00020 | .00304  | -.00164 | -.00011 | -.08089  |
| #2     | .00011  | .00103  | .00048  | -.00017 | .00300  | -.00113 | .00002  | -.03313  |
| #3     | .00012  | -.02846 | -.00068 | -.00003 | .00326  | -.00147 | .00008  | -.07621  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00148  | -.00106 | .04980  | -.00044 | .00003  | .08318  | -.00016 | .00686   |
| Stddev | .00064  | .00079  | .01894  | .00041  | .00003  | .02973  | .00006  | .01778   |
| %RSD   | 43.624  | 74.211  | 38.035  | 94.851  | 112.41  | 35.740  | 38.345  | 259.37   |
| #1     | .00185  | -.00066 | .04585  | -.00049 | .00004  | .06138  | -.00011 | -.00336  |
| #2     | .00073  | -.00196 | .03314  | .00000  | .00005  | .11705  | -.00023 | .02739   |
| #3     | .00184  | -.00056 | .07040  | -.00082 | -.00001 | .07113  | -.00014 | -.00346  |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00453  | -.00145 | .00005  | -.00147 | .00155  | .0000   | .00007  | F 3.5122 |
| Stddev | .00696  | .00091  | .00033  | .00099  | .00072  | .0009   | .00003  | .4011    |
| %RSD   | 153.69  | 62.677  | 682.75  | 67.294  | 46.303  | 8540.   | 43.680  | 11.420   |
| #1     | .01163  | -.00115 | .00020  | -.00065 | .00113  | .0003   | .00007  | 3.9520   |
| #2     | -.00229 | -.00072 | -.00033 | -.00257 | .00238  | -.0010  | .00009  | 3.4181   |
| #3     | .00426  | -.00246 | .00028  | -.00119 | .00114  | .0007   | .00004  | 3.1666   |

Sample Name: PB118302BL      Acquired: 3/27/2019 18:16:27      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 91.382  
Stddev      12.210  
%RSD      13.362

#1      97.924  
#2      98.928  
#3      77.295

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2884.0 | 52462. | 2980.7 | 42.753 | 3929.6 |
| Stddev    | 4.9    | 363.   | 10.7   | 1.856  | 11.3   |
| %RSD      | .17070 | .69134 | .35735 | 4.3415 | .28666 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2878.4 | 52114. | 2975.1 | 41.067 | 3920.8 |
| #2 | 2887.7 | 52434. | 2974.1 | 44.742 | 3925.7 |
| #3 | 2885.8 | 52838. | 2993.0 | 42.450 | 3942.3 |

Sample Name: PB118313BL      Acquired: 3/27/2019 18:20:55      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00001 | .00060  | .00076  | -.00008 | -.00060 | -.03138 | .00159  | -.00009  |
| Stddev | .00136  | .00072  | .00079  | .00081  | .00134  | .01300  | .00059  | .00010   |
| %RSD   | 21787.  | 120.42  | 104.51  | 1057.8  | 224.29  | 41.429  | 36.926  | 113.75   |
| #1     | .00116  | -.00006 | .00166  | .00080  | .00078  | -.01964 | .00132  | -.00020  |
| #2     | .00033  | .00048  | .00041  | -.00024 | -.00068 | -.02915 | .00118  | -.00004  |
| #3     | -.00151 | .00138  | .00020  | -.00079 | -.00189 | -.04535 | .00226  | -.00002  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00013  | -.01870 | .00022  | -.00006 | .00244  | -.00197 | -.00004 | -.00653  |
| Stddev | .00007  | .02282  | .00021  | .00006  | .00049  | .00140  | .00005  | .08670   |
| %RSD   | 48.726  | 122.04  | 92.927  | 106.02  | 19.961  | 71.009  | 122.98  | 1327.0   |
| #1     | .00015  | .00392  | .00046  | -.00013 | .00189  | -.00104 | -.00010 | .09255   |
| #2     | .00019  | -.04173 | .00008  | -.00002 | .00260  | -.00129 | -.00004 | -.06847  |
| #3     | .00006  | -.01829 | .00013  | -.00002 | .00283  | -.00358 | .00001  | -.04369  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00117  | -.00006 | .01833  | .00003  | -.00002 | .10874  | -.00019 | .00498   |
| Stddev | .00054  | .00007  | .00365  | .00041  | .00007  | .01708  | .00010  | .01080   |
| %RSD   | 46.181  | 112.28  | 19.936  | 1237.6  | 422.95  | 15.709  | 53.734  | 216.70   |
| #1     | .00055  | .00002  | .01426  | -.00017 | .00005  | .08933  | -.00008 | -.00593  |
| #2     | .00152  | -.00010 | .02134  | -.00024 | -.00001 | .11539  | -.00027 | .01567   |
| #3     | .00143  | -.00012 | .01939  | .00051  | -.00008 | .12149  | -.00021 | .00521   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00131  | .00165  | -.00030 | .00183  | .00208  | -.0006  | -.00004 | F 3.0567 |
| Stddev | .00270  | .00059  | .00039  | .00122  | .00101  | .0015   | .00017  | .0458    |
| %RSD   | 206.75  | 35.482  | 129.77  | 66.589  | 48.636  | 267.2   | 428.69  | 1.4992   |
| #1     | -.00077 | .00098  | -.00003 | .00149  | .00118  | .0005   | -.00019 | 3.1035   |
| #2     | .00436  | .00205  | -.00074 | .00318  | .00317  | -.0023  | -.00008 | 3.0119   |
| #3     | .00033  | .00193  | -.00012 | .00082  | .00189  | .0001   | .00015  | 3.0547   |

Sample Name: PB118313BL      Acquired: 3/27/2019 18:20:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 63.192  
Stddev      21.016  
%RSD      33.257

#1      65.461  
#2      82.981  
#3      41.134

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2889.1 | 52717. | 2989.9 | 43.033 | 3938.5 |
| Stddev    | 3.5    | 150.   | 8.5    | 2.736  | 6.0    |
| %RSD      | .12196 | .28529 | .28369 | 6.3571 | .15273 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2886.5 | 52545. | 2999.0 | 41.967 | 3931.7 |
| #2 | 2887.7 | 52782. | 2982.2 | 46.142 | 3940.6 |
| #3 | 2893.1 | 52824. | 2988.4 | 40.992 | 3943.2 |

Sample Name: PB118319BL      Acquired: 3/27/2019 18:25:23      Type: Unk  
Method: P4-ICP2(v2989)      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    | -.00072 | .00025  | .00019  | -.00018 | -.00113 | -.02784 | -.00052 | -.00008  |
| Stddev | .00253  | .00038  | .00069  | .00313  | .00145  | .01922  | .00098  | .00003   |
| %RSD   | 349.57  | 152.86  | 373.32  | 1699.5  | 128.56  | 69.046  | 190.55  | 41.340   |
| #1     | .00092  | .00001  | .00041  | -.00066 | -.00094 | -.00675 | -.00068 | -.00006  |
| #2     | .00055  | .00004  | .00073  | -.00305 | .00022  | -.04437 | .00054  | -.00006  |
| #3     | -.00363 | .00068  | -.00059 | .00315  | -.00266 | -.03241 | -.00140 | -.00012  |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00017  | -.00916 | -.00004 | -.00026 | .00288  | -.00220 | -.00007 | -.05112  |
| Stddev | .00006  | .01755  | .00010  | .00023  | .00018  | .00097  | .00002  | .09593   |
| %RSD   | 36.908  | 191.53  | 242.38  | 88.031  | 6.1574  | 44.312  | 24.782  | 187.65   |
| #1     | .00024  | .00896  | .00007  | -.00024 | .00300  | -.00292 | -.00006 | .04787   |
| #2     | .00015  | -.02608 | -.00006 | -.00004 | .00267  | -.00257 | -.00008 | -.14367  |
| #3     | .00012  | -.01036 | -.00013 | -.00050 | .00295  | -.00109 | -.00006 | -.05756  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00113  | -.00006 | .00367  | -.00014 | .00000  | .03375  | .00031  | -.00424  |
| Stddev | .00055  | .00057  | .01766  | .00025  | .00003  | .01406  | .00011  | .00868   |
| %RSD   | 48.935  | 1006.6  | 481.17  | 179.13  | 709.62  | 41.672  | 34.121  | 204.85   |
| #1     | .00053  | .00043  | -.01610 | -.00042 | .00003  | .04787  | .00036  | -.00211  |
| #2     | .00125  | -.00069 | .01787  | -.00004 | -.00003 | .03364  | .00039  | -.01379  |
| #3     | .00162  | .00009  | .00925  | .00004  | .00001  | .01974  | .00019  | .00318   |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm      |
| Avg    | .00358  | -.00009 | -.00065 | .00023  | .00023  | -.0002  | .00018  | F 2.8567 |
| Stddev | .00292  | .00293  | .00080  | .00180  | .00196  | .0007   | .00013  | .3217    |
| %RSD   | 81.619  | 3230.6  | 121.50  | 768.75  | 848.41  | 445.3   | 70.068  | 11.260   |
| #1     | .00154  | .00303  | -.00147 | .00103  | -.00204 | .0006   | .00018  | 2.8588   |
| #2     | .00227  | -.00278 | -.00061 | .00150  | .00133  | -.0007  | .00006  | 3.1774   |
| #3     | .00693  | -.00052 | .00012  | -.00183 | .00140  | -.0003  | .00032  | 2.5341   |



Sample Name: PB118319BL      Acquired: 3/27/2019 18:25:23      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 77.735  
Stddev      27.377  
%RSD      35.218

#1      69.789  
#2      108.21  
#3      55.211

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2893.8 | 52784. | 3023.8 | 43.506 | 3953.9 |
| Stddev    | 3.2    | 62.    | 18.2   | 1.081  | 1.1    |
| %RSD      | .11014 | .11736 | .60041 | 2.4838 | .02791 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2890.8 | 52771. | 3009.9 | 42.617 | 3952.8 |
| #2 | 2893.5 | 52730. | 3017.1 | 44.708 | 3953.8 |
| #3 | 2897.1 | 52852. | 3044.3 | 43.192 | 3955.0 |

Sample Name: CCV06      Acquired: 3/27/2019 18:29:52      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.1078 | 5.1041 | 5.0326 | 5.0627 | 5.0670 | 10.133 | 10.226 | .25656 | 2.5246 |
| Stddev | .0097  | .0109  | .0190  | .0043  | .0068  | .119   | .014   | .00031 | .0052  |
| %RSD   | .18948 | .21314 | .37704 | .08551 | .13509 | 1.1784 | .14031 | .12017 | .20738 |
| #1     | 5.1189 | 5.0922 | 5.0111 | 5.0667 | 5.0736 | 9.9955 | 10.210 | .25625 | 2.5190 |
| #2     | 5.1011 | 5.1066 | 5.0471 | 5.0581 | 5.0599 | 10.205 | 10.234 | .25656 | 2.5295 |
| #3     | 5.1034 | 5.1135 | 5.0396 | 5.0632 | 5.0676 | 10.199 | 10.235 | .25687 | 2.5252 |
| Elem   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 24.947 | 1.0494 | 2.5036 | 1.2982 | 5.0587 | 2.5788 | 25.398 | 2.5204 | 1.2605 |
| Stddev | .192   | .0060  | .0058  | .0032  | .0279  | .0048  | .194   | .0080  | .0032  |
| %RSD   | .77145 | .56710 | .23220 | .24229 | .55198 | .18716 | .76210 | .31534 | .25165 |
| #1     | 24.726 | 1.0431 | 2.4971 | 1.3004 | 5.0374 | 2.5741 | 25.187 | 2.5116 | 1.2635 |
| #2     | 25.070 | 1.0549 | 2.5083 | 1.2997 | 5.0903 | 2.5838 | 25.567 | 2.5226 | 1.2572 |
| #3     | 25.047 | 1.0503 | 2.5054 | 1.2946 | 5.0485 | 2.5785 | 25.440 | 2.5271 | 1.2607 |
| 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    | 24.797 | 2.5470 | 2.5075 | 25.308 | 5.1163 | 5.0908 | 5.0458 | 5.0162 | 4.9980 |
| Stddev | .014   | .0033  | .0074  | .141   | .0024  | .0518  | .0089  | .0410  | .0122  |
| %RSD   | .05745 | .12780 | .29663 | .55741 | .04716 | 1.0180 | .17656 | .81699 | .24360 |
| #1     | 24.812 | 2.5451 | 2.4997 | 25.154 | 5.1155 | 5.0310 | 5.0437 | 4.9747 | 4.9841 |
| #2     | 24.795 | 2.5508 | 2.5146 | 25.340 | 5.1144 | 5.1180 | 5.0381 | 5.0567 | 5.0029 |
| #3     | 24.783 | 2.5452 | 2.5081 | 25.431 | 5.1190 | 5.1233 | 5.0556 | 5.0170 | 5.0070 |
| Elem   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859 |        |        |        |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |        |        |        |
| Avg    | 5.0996 | 4.9663 | 5.050  | 5.1189 | 4.5790 | 66.120 |        |        |        |
| Stddev | .0578  | .0198  | .004   | .0135  | .1979  | 15.919 |        |        |        |
| %RSD   | 1.1338 | .39918 | .0715  | .26367 | 4.3210 | 24.076 |        |        |        |
| #1     | 5.0350 | 4.9446 | 5.046  | 5.1035 | 4.4685 | 76.994 |        |        |        |
| #2     | 5.1465 | 4.9711 | 5.053  | 5.1251 | 4.8074 | 73.517 |        |        |        |
| #3     | 5.1173 | 4.9834 | 5.051  | 5.1283 | 4.4610 | 47.848 |        |        |        |

Sample Name: CCV06      Acquired: 3/27/2019 18:29:52      Type: Unk  
Method: P4-ICP2(v2989)      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       | 2792.1 | 51286. | 3009.9 | 41.348 | 3529.3 |
| Stddev    | 7.6    | 183.   | 14.9   | 1.381  | 4.2    |
| %RSD      | .27385 | .35625 | .49596 | 3.3397 | .11901 |
| #1        | 2784.0 | 51377. | 3021.0 | 41.251 | 3531.6 |
| #2        | 2793.2 | 51076. | 2992.9 | 42.774 | 3524.4 |
| #3        | 2799.2 | 51406. | 3015.8 | 40.018 | 3531.8 |

Sample Name: CCB06      Acquired: 3/27/2019 18:33:50      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00377 | .00085 | .00118 | -.00188 | -.00044 | -.01468 | .00156 | -.00005 |
| Stddev | .00275 | .00019 | .00013 | .00278  | .00088  | .00951  | .00087 | .00010  |
| %RSD   | 72.837 | 21.989 | 11.337 | 148.12  | 197.84  | 64.760  | 55.581 | 180.01  |

|    |        |        |        |         |         |         |        |         |
|----|--------|--------|--------|---------|---------|---------|--------|---------|
| #1 | .00227 | .00068 | .00122 | .00123  | -.00016 | -.02507 | .00081 | -.00016 |
| #2 | .00211 | .00105 | .00104 | -.00274 | -.00142 | -.00643 | .00251 | .00002  |
| #3 | .00694 | .00082 | .00130 | -.00414 | .00026  | -.01253 | .00136 | -.00001 |

|        |        |         |         |         |        |         |        |        |
|--------|--------|---------|---------|---------|--------|---------|--------|--------|
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00012 | -.01127 | -.00001 | -.00002 | .00131 | -.00275 | .00012 | .00208 |
| Stddev | .00007 | .01722  | .00046  | .00014  | .00044 | .00105  | .00001 | .07299 |
| %RSD   | 59.107 | 152.70  | 3585.1  | 682.83  | 33.872 | 38.319  | 4.8124 | 3509.3 |

|    |        |         |         |         |        |         |        |         |
|----|--------|---------|---------|---------|--------|---------|--------|---------|
| #1 | .00004 | -.00072 | -.00045 | .00010  | .00138 | -.00369 | .00012 | .04960  |
| #2 | .00017 | -.03114 | -.00006 | .00001  | .00083 | -.00161 | .00012 | -.08196 |
| #3 | .00015 | -.00197 | .00047  | -.00017 | .00171 | -.00296 | .00011 | .03860  |

|        |        |         |        |         |        |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00112 | -.00049 | .00540 | -.00013 | .00011 | .04823 | .00008 | .02665 |
| Stddev | .00026 | .00020  | .00749 | .00029  | .00005 | .00447 | .00030 | .02207 |
| %RSD   | 23.340 | 40.609  | 138.83 | 232.47  | 40.868 | 9.2610 | 382.55 | 82.818 |

|    |        |         |         |         |        |        |         |        |
|----|--------|---------|---------|---------|--------|--------|---------|--------|
| #1 | .00119 | -.00029 | .00375  | -.00044 | .00016 | .04772 | -.00020 | .01128 |
| #2 | .00134 | -.00069 | .01357  | -.00008 | .00007 | .05294 | .00039  | .05194 |
| #3 | .00083 | -.00047 | -.00113 | .00014  | .00011 | .04405 | .00005  | .01673 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00379 | .00068 | .00270 | .00169 | .00532 | -.0014 | .00022 | 2.7833 |
| Stddev | .00285 | .00418 | .00016 | .00104 | .00123 | .0010  | .00009 | .3684  |
| %RSD   | 75.265 | 618.51 | 5.8536 | 61.247 | 23.041 | 75.37  | 42.067 | 13.234 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00094 | .00314  | .00284 | .00285 | .00416 | -.0025 | .00017 | 2.9839 |
| #2 | .00665 | -.00415 | .00273 | .00086 | .00661 | -.0004 | .00016 | 3.0079 |
| #3 | .00379 | .00304  | .00253 | .00136 | .00519 | -.0013 | .00032 | 2.3582 |

Sample Name: CCB06      Acquired: 3/27/2019 18:33:50      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 71.915 |
| Stddev | 38.296 |
| %RSD   | 53.253 |

|    |        |
|----|--------|
| #1 | 114.16 |
| #2 | 62.108 |
| #3 | 39.475 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2902.6 | 52815. | 3030.8 | 43.247 | 3965.8 |
| Stddev    | 2.5    | 186.   | 22.7   | .315   | 4.3    |
| %RSD      | .08704 | .35211 | .74821 | .72850 | .10733 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2899.8 | 52978. | 3056.9 | 43.358 | 3965.9 |
| #2 | 2904.5 | 52612. | 3020.3 | 43.492 | 3961.5 |
| #3 | 2903.7 | 52854. | 3015.3 | 42.892 | 3970.0 |

Sample Name: K1963-03DUP      Acquired: 3/27/2019 18:38:19      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00140 | .00012 | .00104 | -.00274 | -.00078 | -.02850 | .04201 | -.00004 |
| Stddev | .00011 | .00060 | .00094 | .00357  | .00045  | .00358  | .00087 | .00004  |
| %RSD   | 8.0930 | 514.01 | 90.395 | 130.37  | 58.068  | 12.548  | 2.0684 | 106.13  |

|    |        |         |        |         |         |         |        |         |
|----|--------|---------|--------|---------|---------|---------|--------|---------|
| #1 | .00127 | .00058  | .00027 | -.00056 | -.00115 | -.03258 | .04217 | -.00001 |
| #2 | .00148 | .00033  | .00209 | -.00080 | -.00091 | -.02697 | .04279 | -.00003 |
| #3 | .00146 | -.00056 | .00076 | -.00686 | -.00027 | -.02594 | .04107 | -.00009 |

|        |        |        |         |        |         |        |        |        |
|--------|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677  | Co2286 | Cu2247  | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00039 | 24.002 | -.00009 | .00127 | -.00096 | .86741 | .26943 | 2.9262 |
| Stddev | .00002 | .154   | .00044  | .00012 | .00046  | .00932 | .00063 | .0740  |
| %RSD   | 4.2645 | .64031 | 470.63  | 9.8571 | 47.745  | 1.0740 | .23399 | 2.5273 |

|    |        |        |         |        |         |        |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00040 | 24.061 | -.00005 | .00135 | -.00047 | .86050 | .26905 | 2.8641 |
| #2 | .00038 | 24.118 | .00032  | .00133 | -.00138 | .86373 | .26909 | 2.9065 |
| #3 | .00037 | 23.828 | -.00055 | .00112 | -.00104 | .87801 | .27016 | 3.0080 |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00114 | -.00086 | 56.303 | -.00062 | .00630 | 2.5063 | -.00016 | .03222 |
| Stddev | .00020 | .00050  | .220   | .00017  | .00007 | .0238  | .00016  | .01664 |
| %RSD   | 17.256 | 57.809  | .39095 | 27.969  | 1.1703 | .94925 | 103.99  | 51.626 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .00095 | -.00063 | 56.276 | -.00045 | .00632 | 2.4905 | -.00005 | .03965 |
| #2 | .00134 | -.00052 | 56.098 | -.00061 | .00622 | 2.5337 | -.00035 | .04385 |
| #3 | .00113 | -.00143 | 56.536 | -.00080 | .00637 | 2.4948 | -.00008 | .01317 |

|        |        |        |         |        |         |        |        |        |
|--------|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 9.5544 | 2.3136 | -.00342 | .00024 | -.00263 | .0148  | .16812 | 1.3422 |
| Stddev | .0068  | .0110  | .00154  | .00237 | .00082  | .0003  | .00038 | .1239  |
| %RSD   | .07160 | .47566 | 44.890  | 984.77 | 31.183  | 1.922  | .22542 | 9.2283 |

|    |        |        |         |         |         |       |        |        |
|----|--------|--------|---------|---------|---------|-------|--------|--------|
| #1 | 9.5465 | 2.3041 | -.00255 | -.00099 | -.00304 | .0148 | .16848 | 1.2416 |
| #2 | 9.5581 | 2.3256 | -.00252 | -.00126 | -.00169 | .0145 | .16773 | 1.4805 |
| #3 | 9.5586 | 2.3111 | -.00520 | .00298  | -.00318 | .0151 | .16814 | 1.3045 |

Sample Name: K1963-03DUP      Acquired: 3/27/2019 18:38:19      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 62.696 |
| Stddev | 21.515 |
| %RSD   | 34.317 |

|    |        |
|----|--------|
| #1 | 61.296 |
| #2 | 41.915 |
| #3 | 84.877 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2935.0 | 54237. | 3150.3 | 45.012 | 3944.4 |
| Stddev    | 12.2   | 168.   | 24.0   | 1.065  | 11.4   |
| %RSD      | .41626 | .30923 | .76306 | 2.3651 | .28997 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2943.3 | 54402. | 3143.1 | 44.904 | 3945.3 |
| #2 | 2940.7 | 54242. | 3130.7 | 44.005 | 3955.4 |
| #3 | 2921.0 | 54067. | 3177.1 | 46.126 | 3932.6 |

Sample Name: K1963-03LX5      Acquired: 3/27/2019 18:42:43      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00338 | -.00063 | .00097  | -.00081 | -.00096 | -.02531 | .00930  | -.00005 |
| Stddev | .00250 | .00032  | .00062  | .00125  | .00193  | .02209  | .00066  | .00015  |
| %RSD   | 73.752 | 50.053  | 63.557  | 153.68  | 201.81  | 87.276  | 7.0661  | 277.43  |
| #1     | .00338 | -.00028 | .00041  | .00025  | .00098  | -.02141 | .00952  | -.00022 |
| #2     | .00089 | -.00088 | .00087  | -.00219 | -.00098 | -.04909 | .00856  | .00006  |
| #3     | .00588 | -.00073 | .00163  | -.00050 | -.00287 | -.00543 | .00982  | .00000  |
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00021 | 5.1030  | .00004  | .00029  | .00215  | .18208  | .05845  | .56694  |
| Stddev | .00001 | .0079   | .00018  | .00011  | .00026  | .00048  | .00010  | .01542  |
| %RSD   | 5.4022 | .15536  | 470.70  | 37.093  | 12.142  | .26252  | .16817  | 2.7206  |
| #1     | .00020 | 5.0979  | .00012  | .00039  | .00205  | .18156  | .05845  | .56180  |
| #2     | .00020 | 5.1121  | .00016  | .00018  | .00245  | .18250  | .05834  | .58427  |
| #3     | .00022 | 5.0989  | -.00017 | .00030  | .00195  | .18218  | .05854  | .55474  |
| Elem   | Ni2316 | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00087 | -.00044 | 11.540  | -.00017 | .00211  | .55177  | -.00024 | .02184  |
| Stddev | .00069 | .00031  | .080    | .00006  | .00048  | .02573  | .00005  | .00757  |
| %RSD   | 79.063 | 71.314  | .69410  | 33.959  | 22.600  | 4.6633  | 19.335  | 34.651  |
| #1     | .00069 | -.00012 | 11.630  | -.00024 | .00259  | .52208  | -.00023 | .01708  |
| #2     | .00029 | -.00074 | 11.512  | -.00012 | .00210  | .56762  | -.00030 | .01787  |
| #3     | .00163 | -.00045 | 11.477  | -.00015 | .00163  | .56562  | -.00021 | .03056  |
| Elem   | S_1820 | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.9282 | .48858  | .00078  | .00097  | .00243  | .0041   | .03612  | 3.1566  |
| Stddev | .0143  | .00357  | .00073  | .00299  | .00011  | .0008   | .00013  | .2302   |
| %RSD   | .73980 | .73162  | 93.102  | 307.69  | 4.3402  | 19.22   | .35154  | 7.2916  |
| #1     | 1.9123 | .48554  | .00006  | -.00182 | .00231  | .0038   | .03612  | 3.4159  |
| #2     | 1.9399 | .49252  | .00151  | .00061  | .00245  | .0050   | .03625  | 3.0771  |
| #3     | 1.9323 | .48769  | .00077  | .00413  | .00252  | .0035   | .03600  | 2.9767  |



Sample Name: K1963-03LX5      Acquired: 3/27/2019 18:42:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 91.831 |
| Stddev | 39.975   |
| %RSD   | 43.532   |

|    |        |
|----|--------|
| #1 | 119.22 |
| #2 | 110.32 |
| #3 | 45.958 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2843.2 | 52157. | 2984.6 | 43.645 | 3893.1 |
| Stddev    | 6.5    | 285.   | 7.5    | .852   | 1.4    |
| %RSD      | .22955 | .54554 | .25129 | 1.9527 | .03518 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2839.4 | 51830. | 2987.5 | 43.857 | 3891.8 |
| #2 | 2839.4 | 52292. | 2976.0 | 44.372 | 3893.0 |
| #3 | 2850.7 | 52348. | 2990.2 | 42.707 | 3894.5 |

Sample Name: K1963-03MS      Acquired: 3/27/2019 18:47:11      Type: Unk  
Method: P4-ICP2(v2989)      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    | 1.0067 | 2.4319 | 1.1897 | 2.6207 | .99712 | 2.4753 | .29454 |
| Stddev | .0051  | .0125  | .0032  | .0139  | .00528 | .0515  | .00454 |
| %RSD   | .50257 | .51480 | .27104 | .53012 | .52933 | 2.0801 | 1.5413 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0035 | 2.4376 | 1.1891 | 2.6201 | .99845 | 2.5231 | .29810 |
| #2 | 1.0041 | 2.4175 | 1.1867 | 2.6071 | .99130 | 2.4819 | .29609 |
| #3 | 1.0125 | 2.4405 | 1.1931 | 2.6348 | 1.0016 | 2.4208 | .28943 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .26247 | .24012 | 24.847 | .51985 | .24197 | .40166 | 4.6879 |
| Stddev | .00023 | .00036 | .039   | .00487 | .00059 | .00160 | .0111  |
| %RSD   | .08665 | .15158 | .15510 | .93633 | .24378 | .39810 | .23609 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26273 | .24036 | 24.817 | .52546 | .24226 | .40255 | 4.7007 |
| #2 | .26235 | .23970 | 24.834 | .51738 | .24129 | .39981 | 4.6821 |
| #3 | .26232 | .24030 | 24.890 | .51671 | .24235 | .40262 | 4.6810 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52054 | 5.5519 | .60740 | .08966 | 59.522 | .38414 | .26465 |
| Stddev | .00178 | .1260  | .00182 | .00149 | .710   | .00229 | .00070 |
| %RSD   | .34124 | 2.2702 | .30019 | 1.6573 | 1.1934 | .59657 | .26450 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .52255 | 5.6198 | .60874 | .09002 | 60.256 | .38679 | .26521 |
| #2 | .51919 | 5.6295 | .60532 | .08803 | 59.472 | .38271 | .26387 |
| #3 | .51989 | 5.4065 | .60812 | .09094 | 58.838 | .38294 | .26488 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 15.182 | .48907 | .39569 | 9.3789 | 3.3677 | .81551 | .23845 |
| Stddev | .137   | .00058 | .00450 | .0298  | .0356  | .00100 | .00143 |
| %RSD   | .90424 | .11860 | 1.1378 | .31792 | 1.0564 | .12288 | .59880 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 15.336 | .48884 | .39825 | 9.3706 | 3.3457 | .81664 | .23876 |
| #2 | 15.139 | .48863 | .39049 | 9.3540 | 3.3487 | .81512 | .23690 |
| #3 | 15.072 | .48972 | .39832 | 9.4119 | 3.4088 | .81475 | .23970 |

Sample Name: K1963-03MS      Acquired: 3/27/2019 18:47:11      Type: Unk  
 Method: P4-ICP2(v2989)      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    | .24327 | 6.980  | .39863 | 2.6931 | F<.00000 |
| Stddev | .00284 | .009   | .00110 | .3695  | 38.939   |
| %RSD   | 1.1694 | .1350  | .27508 | 13.719 | 17.394   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .24162 | 6.990 | .39737 | 3.1029 | -180.17 |
| #2 | .24655 | 6.972 | .39927 | 2.5908 | -254.89 |
| #3 | .24163 | 6.978 | .39927 | 2.3856 | -236.55 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2912.5 | 53411. | 3126.5 | 44.628 | 3876.1 |
| Stddev    | 3.0    | 273.   | 27.7   | 1.669  | 6.4    |
| %RSD      | .10255 | .51180 | .88502 | 3.7397 | .16449 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2910.9 | 53099. | 3147.6 | 43.275 | 3870.1 |
| #2 | 2910.7 | 53524. | 3136.7 | 46.493 | 3875.4 |
| #3 | 2916.0 | 53610. | 3095.1 | 44.117 | 3882.8 |

Sample Name: K1963-03MSD      Acquired: 3/27/2019 18:51:15      Type: Unk  
Method: P4-ICP2(v2989)      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    | 1.0339 | 2.4812 | 1.2231 | 2.7097 | 1.0494 | 2.5465 | .30195 |
| Stddev | .0076  | .0172  | .0086  | .0176  | .0053  | .0191  | .00175 |
| %RSD   | .73828 | .69158 | .70362 | .65064 | .50587 | .75102 | .58071 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0278 | 2.4690 | 1.2195 | 2.6947 | 1.0477 | 2.5273 | .29997 |
| #2 | 1.0425 | 2.5008 | 1.2329 | 2.7291 | 1.0554 | 2.5656 | .30259 |
| #3 | 1.0315 | 2.4737 | 1.2168 | 2.7053 | 1.0452 | 2.5465 | .30329 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .26804 | .24618 | 24.825 | .53244 | .24850 | .41265 | 4.7632 |
| Stddev | .00070 | .00129 | .049   | .00263 | .00111 | .00196 | .0185  |
| %RSD   | .26033 | .52435 | .19922 | .49302 | .44666 | .47545 | .38761 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26819 | .24578 | 24.796 | .53494 | .24818 | .41208 | 4.7573 |
| #2 | .26727 | .24763 | 24.883 | .52970 | .24974 | .41483 | 4.7483 |
| #3 | .26864 | .24514 | 24.798 | .53268 | .24759 | .41104 | 4.7838 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52682 | 5.4283 | .62231 | .08911 | 59.955 | .39069 | .27676 |
| Stddev | .00175 | .1454  | .00271 | .00018 | .193   | .00180 | .00150 |
| %RSD   | .33243 | 2.6784 | .43599 | .20128 | .32207 | .46175 | .54157 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .52691 | 5.5959 | .62144 | .08901 | 60.022 | .38905 | .27622 |
| #2 | .52503 | 5.3360 | .62535 | .08900 | 59.737 | .39040 | .27845 |
| #3 | .52853 | 5.3531 | .62013 | .08931 | 60.105 | .39262 | .27560 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 15.577 | .51079 | .38332 | 9.3709 | 3.3862 | .84953 | .24789 |
| Stddev | .130   | .00278 | .02146 | .0585  | .0080  | .00453 | .00236 |
| %RSD   | .83362 | .54505 | 5.5977 | .62450 | .23495 | .53321 | .95189 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 15.577 | .50988 | .40581 | 9.3268 | 3.3949 | .84888 | .24856 |
| #2 | 15.447 | .51391 | .36307 | 9.4373 | 3.3794 | .85434 | .24984 |
| #3 | 15.707 | .50857 | .38107 | 9.3486 | 3.3843 | .84535 | .24526 |

Sample Name: K1963-03MSD      Acquired: 3/27/2019 18:51:15      Type: Unk  
Method: P4-ICP2(v2989)      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    | .24761 | 7.134  | .40451 | 3.2238 | F<.00000 |
| Stddev | .00123 | .057   | .00108 | .2492  | 42.015   |
| %RSD   | .49777 | .7966  | .26588 | 7.7284 | 17.344   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .24631 | 7.100 | .40573 | 3.2302 | -279.35 |
| #2 | .24775 | 7.199 | .40368 | 2.9715 | -250.77 |
| #3 | .24877 | 7.102 | .40413 | 3.4697 | -196.63 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2890.0 | 53044. | 3118.0 | 43.550 | 3851.2 |
| Stddev    | 3.3    | 160.   | 8.8    | 1.292  | 7.2    |
| %RSD      | .11303 | .30192 | .28157 | 2.9666 | .18672 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2893.7 | 53044. | 3107.9 | 42.573 | 3858.4 |
| #2 | 2887.9 | 53205. | 3122.3 | 45.015 | 3844.0 |
| #3 | 2888.3 | 52885. | 3123.8 | 43.062 | 3851.2 |

Sample Name: K1963-03A      Acquired: 3/27/2019 18:55:17      Type: Unk  
Method: P4-ICP2(v2989)      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    | 1.0095 | 2.4338 | 1.1933 | 2.6404 | 1.0192 | 2.4675 | .29700 |
| Stddev | .0040  | .0066  | .0022  | .0040  | .0020  | .0087  | .00045 |
| %RSD   | .39868 | .26991 | .18364 | .15164 | .19458 | .35213 | .15168 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0097 | 2.4263 | 1.1928 | 2.6390 | 1.0198 | 2.4769 | .29752 |
| #2 | 1.0054 | 2.4386 | 1.1957 | 2.6449 | 1.0169 | 2.4598 | .29678 |
| #3 | 1.0134 | 2.4366 | 1.1914 | 2.6372 | 1.0207 | 2.4658 | .29671 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .26192 | .24093 | 24.994 | .51776 | .24325 | .40198 | 4.6884 |
| Stddev | .00073 | .00019 | .024   | .00187 | .00037 | .00121 | .0173  |
| %RSD   | .27737 | .07830 | .09483 | .36140 | .15209 | .30195 | .36948 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26234 | .24115 | 25.021 | .51949 | .24366 | .40058 | 4.7083 |
| #2 | .26108 | .24082 | 24.985 | .51577 | .24295 | .40264 | 4.6777 |
| #3 | .26234 | .24083 | 24.977 | .51801 | .24314 | .40271 | 4.6791 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52211 | 5.4880 | .60837 | .08805 | 60.365 | .38200 | .26926 |
| Stddev | .00080 | .0434  | .00035 | .00086 | .057   | .00198 | .00016 |
| %RSD   | .15274 | .79129 | .05673 | .97319 | .09389 | .51821 | .06027 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .52265 | 5.5360 | .60808 | .08757 | 60.395 | .38273 | .26944 |
| #2 | .52120 | 5.4515 | .60827 | .08904 | 60.400 | .37975 | .26913 |
| #3 | .52248 | 5.4766 | .60875 | .08753 | 60.300 | .38350 | .26921 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 15.316 | .49573 | .40666 | 9.5160 | 3.3881 | .82896 | .24054 |
| Stddev | .096   | .00146 | .00512 | .0127  | .0249  | .00170 | .00013 |
| %RSD   | .62777 | .29506 | 1.2600 | .13358 | .73531 | .20483 | .05252 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 15.420 | .49575 | .40079 | 9.5034 | 3.3956 | .82993 | .24053 |
| #2 | 15.298 | .49719 | .40893 | 9.5289 | 3.4083 | .82995 | .24042 |
| #3 | 15.230 | .49426 | .41026 | 9.5157 | 3.3603 | .82700 | .24067 |

Sample Name: K1963-03A      Acquired: 3/27/2019 18:55:17      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .24262 | 7.003  | .39989 | 2.7702 | F<.00000 |
| Stddev    | .00214 | .014   | .00161 | .4170  | 17.381   |
| %RSD      | .88104 | .2015  | .40283 | 15.054 | 6.6610   |
| #1        | .24270 | 6.986  | .39807 | 3.0834 | -252.09  |
| #2        | .24472 | 7.012  | .40113 | 2.2968 | -249.75  |
| #3        | .24045 | 7.009  | .40046 | 2.9304 | -280.95  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2875.4 | 52838. | 3111.9 | 43.714 | 3821.9   |
| Stddev    | 6.5    | 237.   | 8.3    | 1.812  | 7.6      |
| %RSD      | .22698 | .44897 | .26715 | 4.1453 | .19886   |
| #1        | 2881.8 | 52614. | 3108.5 | 45.699 | 3827.4   |
| #2        | 2875.7 | 53087. | 3121.4 | 43.295 | 3825.1   |
| #3        | 2868.8 | 52813. | 3105.8 | 42.148 | 3813.3   |

Sample Name: K2099-01      Acquired: 3/27/2019 18:59:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |          |        |        |        |        |        |
|--------|----------|---------|----------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203   | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .04776   | .07563  | .12131   | .09187 | .03837 | 2.2805 | .86404 | .00936 |
| Stddev | .00164   | .00219  | .00057   | .00225 | .00092 | .0194  | .00310 | .00011 |
| %RSD   | 3.4414   | 2.8984  | .46920   | 2.4501 | 2.3929 | .85003 | .35860 | 1.2104 |
| #1     | .04739   | .07372  | .12147   | .09040 | .03885 | 2.2793 | .86754 | .00930 |
| #2     | .04634   | .07514  | .12068   | .09446 | .03896 | 2.2617 | .86291 | .00949 |
| #3     | .04956   | .07802  | .12179   | .09076 | .03732 | 2.3004 | .86167 | .00929 |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00949   | 307.82  | .02071   | .01401 | .04509 | 3.6024 | 1.2202 | 34.323 |
| Stddev | .00005   | 3.07    | .00037   | .00030 | .00019 | .0141  | .0013  | .591   |
| %RSD   | .52683   | .99719  | 1.7743   | 2.1606 | .42796 | .39255 | .10611 | 1.7230 |
| #1     | .00944   | 309.63  | .02075   | .01379 | .04498 | 3.6184 | 1.2215 | 34.794 |
| #2     | .00950   | 309.56  | .02033   | .01389 | .04531 | 3.5972 | 1.2200 | 33.660 |
| #3     | .00954   | 304.28  | .02106   | .01435 | .04498 | 3.5916 | 1.2190 | 34.515 |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02876   | -.00573 | F 2848.7 | .01721 | .15399 | 37.216 | .04167 | .14568 |
| Stddev | .00013   | .00062  | 62.9     | .00055 | .00031 | .199   | .00035 | .00930 |
| %RSD   | .44119   | 10.773  | 2.2089   | 3.2086 | .20173 | .53481 | .84974 | 6.3847 |
| #1     | .02891   | -.00620 | 2910.5   | .01743 | .15407 | 37.249 | .04127 | .15642 |
| #2     | .02871   | -.00597 | 2850.8   | .01762 | .15365 | 37.002 | .04196 | .14038 |
| #3     | .02867   | -.00503 | 2784.7   | .01659 | .15425 | 37.396 | .04177 | .14023 |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 65.752 | 8.7401  | .01054   | .09691 | .04696 | .5423  | 1.5470 | 8.9940 |
| Stddev | .325     | .1226   | .00095   | .00200 | .00249 | .0050  | .0141  | .0862  |
| %RSD   | .49450   | 1.4032  | 8.9757   | 2.0595 | 5.3125 | .9309  | .91178 | .95811 |
| #1     | 65.674   | 8.7319  | .01153   | .09883 | .04409 | .5404  | 1.5549 | 9.0671 |
| #2     | 65.473   | 8.8667  | .01043   | .09707 | .04824 | .5385  | 1.5553 | 8.8990 |
| #3     | 66.109   | 8.6218  | .00965   | .09484 | .04856 | .5480  | 1.5307 | 9.0160 |



Sample Name: K2099-01      Acquired: 3/27/2019 18:59:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 232.22  
Stddev      14.87  
%RSD      6.4031

#1      247.91  
#2      218.33  
#3      230.42

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2363.5 | 43141. | 2870.9 | 39.218 | 2771.5 |
| Stddev    | 14.9   | 95.    | 36.2   | .405   | 14.6   |
| %RSD      | .62909 | .21941 | 1.2605 | 1.0336 | .52742 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2377.8 | 43032. | 2869.1 | 39.018 | 2773.0 |
| #2 | 2348.1 | 43200. | 2835.7 | 39.684 | 2785.3 |
| #3 | 2364.7 | 43192. | 2908.0 | 38.951 | 2756.2 |

Sample Name: K2099-01DUP      Acquired: 3/27/2019 19:03:50      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |          |        |        |        |        |        |
|--------|----------|---------|----------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908  | Pb2203   | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .04613   | .07557  | .11891   | .09357 | .03238 | 2.2389 | .85790 | .00916 |
| Stddev | .00207   | .00101  | .00035   | .00485 | .00220 | .0327  | .00547 | .00015 |
| %RSD   | 4.4943   | 1.3343  | .29333   | 5.1835 | 6.7837 | 1.4606 | .63746 | 1.6223 |
| #1     | .04791   | .07587  | .11931   | .08802 | .03307 | 2.2636 | .86419 | .00924 |
| #2     | .04385   | .07639  | .11872   | .09701 | .02993 | 2.2018 | .85523 | .00898 |
| #3     | .04661   | .07445  | .11870   | .09568 | .03416 | 2.2513 | .85428 | .00925 |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00923   | 302.58  | .02026   | .01375 | .04320 | 3.5558 | 1.1998 | 34.005 |
| Stddev | .00003   | 2.28    | .00080   | .00032 | .00057 | .0090  | .0006  | .317   |
| %RSD   | .33267   | .75384  | 3.9252   | 2.3589 | 1.3127 | .25194 | .05345 | .93173 |
| #1     | .00924   | 301.83  | .02077   | .01357 | .04361 | 3.5657 | 1.2002 | 34.127 |
| #2     | .00920   | 305.14  | .02067   | .01412 | .04255 | 3.5532 | 1.1991 | 33.646 |
| #3     | .00926   | 300.77  | .01934   | .01355 | .04345 | 3.5484 | 1.2002 | 34.243 |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02871   | -.00564 | F 2574.0 | .01705 | .15084 | 36.926 | .04026 | .15295 |
| Stddev | .00070   | .00097  | 68.8     | .00030 | .00057 | .112   | .00010 | .03027 |
| %RSD   | 2.4484   | 17.224  | 2.6714   | 1.7364 | .37588 | .30366 | .23698 | 19.791 |
| #1     | .02797   | -.00523 | 2639.5   | .01693 | .15130 | 37.027 | .04018 | .17713 |
| #2     | .02881   | -.00493 | 2580.2   | .01684 | .15021 | 36.806 | .04025 | .16272 |
| #3     | .02936   | -.00674 | 2502.4   | .01739 | .15102 | 36.947 | .04037 | .11900 |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 64.676 | 8.5227  | .00889   | .09656 | .04900 | .5364  | 1.5172 | 8.2042 |
| Stddev | .292     | .0861   | .00049   | .00104 | .00212 | .0030  | .0139  | .3834  |
| %RSD   | .45167   | 1.0098  | 5.4719   | 1.0814 | 4.3252 | .5659  | .91599 | 4.6728 |
| #1     | 65.001   | 8.4596  | .00838   | .09722 | .04656 | .5383  | 1.5176 | 7.7820 |
| #2     | 64.594   | 8.6208  | .00936   | .09535 | .05033 | .5381  | 1.5309 | 8.5306 |
| #3     | 64.434   | 8.4878  | .00892   | .09710 | .05012 | .5329  | 1.5031 | 8.3000 |

Sample Name: K2099-01DUP      Acquired: 3/27/2019 19:03:50      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 220.09  
 Stddev      28.97  
 %RSD      13.162

#1      245.90  
 #2      188.76  
 #3      225.62

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2405.2 | 43933. | 2943.5 | 39.973 | 2824.8 |
| Stddev    | 27.3   | 145.   | 24.2   | .906   | 15.5   |
| %RSD      | 1.1338 | .33089 | .82181 | 2.2658 | .54972 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2384.6 | 43864. | 2957.9 | 40.942 | 2810.0 |
| #2 | 2436.1 | 44101. | 2915.6 | 39.829 | 2841.0 |
| #3 | 2394.8 | 43836. | 2957.0 | 39.148 | 2823.4 |

Sample Name: K2099-01LX5      Acquired: 3/27/2019 19:08:20      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00731   | .01121  | .02305 | .01038 | .00474 | .38939 | .16760 | .00113 |
| Stddev | .00209   | .00135  | .00021 | .00145 | .00168 | .01629 | .00143 | .00006 |
| %RSD   | 28.587   | 12.061  | .92558 | 14.012 | 35.520 | 4.1847 | .85024 | 5.4445 |
| #1     | .00766   | .01262  | .02281 | .01086 | .00311 | .39710 | .16598 | .00119 |
| #2     | .00506   | .01111  | .02315 | .00874 | .00647 | .40039 | .16863 | .00113 |
| #3     | .00920   | .00992  | .02320 | .01152 | .00465 | .37067 | .16821 | .00106 |
| Elem   | Cd2265   | Ca3736  | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00154   | 62.456  | .00285 | .00185 | .01345 | .75083 | .24936 | 6.7005 |
| Stddev | .00007   | .757    | .00077 | .00022 | .00024 | .00412 | .00093 | .0218  |
| %RSD   | 4.4815   | 1.2126  | 27.134 | 11.876 | 1.7772 | .54938 | .37147 | .32468 |
| #1     | .00155   | 63.238  | .00201 | .00184 | .01319 | .74825 | .24942 | 6.6832 |
| #2     | .00160   | 61.726  | .00353 | .00207 | .01350 | .74865 | .24840 | 6.6934 |
| #3     | .00146   | 62.403  | .00303 | .00164 | .01366 | .75559 | .25025 | 6.7249 |
| Elem   | Ni2316   | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00310   | -.00127 | 545.34 | .00256 | .02872 | 6.8798 | .00764 | .03537 |
| Stddev | .00058   | .00107  | 2.92   | .00030 | .00014 | .0522  | .00030 | .05169 |
| %RSD   | 18.864   | 84.614  | .53496 | 11.699 | .50239 | .75875 | 3.9888 | 146.13 |
| #1     | .00283   | -.00208 | 544.81 | .00290 | .02879 | 6.9087 | .00756 | .09482 |
| #2     | .00377   | -.00005 | 542.72 | .00235 | .02883 | 6.9111 | .00797 | .00102 |
| #3     | .00270   | -.00167 | 548.49 | .00242 | .02856 | 6.8195 | .00738 | .01028 |
| Elem   | S_1820   | Si2881  | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 11.776 | 1.7901  | .00319 | .02171 | .05421 | .0786  | .30577 | 4.7387 |
| Stddev | .021     | .0198   | .00054 | .00114 | .00082 | .0014  | .00525 | .2125  |
| %RSD   | .17897   | 1.1034  | 17.007 | 5.2731 | 1.5132 | 1.790  | 1.7176 | 4.4854 |
| #1     | 11.792   | 1.8041  | .00345 | .02111 | .05443 | .0794  | .31128 | 4.9776 |
| #2     | 11.785   | 1.7675  | .00356 | .02099 | .05330 | .0770  | .30082 | 4.5706 |
| #3     | 11.752   | 1.7988  | .00257 | .02303 | .05489 | .0795  | .30521 | 4.6680 |

Sample Name: K2099-01LX5      Acquired: 3/27/2019 19:08:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 157.47 |
| Stddev | 20.16    |
| %RSD   | 12.800   |

|    |        |
|----|--------|
| #1 | 135.24 |
| #2 | 174.57 |
| #3 | 162.59 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2696.2 | 49375. | 3091.1 | 43.632 | 3386.0 |
| Stddev    | 2.7    | 191.   | 37.9   | .735   | 8.5    |
| %RSD      | .10052 | .38643 | 1.2259 | 1.6857 | .25187 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2693.2 | 49166. | 3055.5 | 43.921 | 3376.3 |
| #2 | 2698.5 | 49539. | 3130.9 | 44.179 | 3392.4 |
| #3 | 2696.9 | 49422. | 3087.0 | 42.796 | 3389.4 |

Sample Name: K2099-01MS      Acquired: 3/27/2019 19:12:52      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |        |        |        |        |        |
|--------|----------|----------|----------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .91840   | 1.8883   | 1.0924   | 2.2289 | .85600 | 5.4041 | 1.2007 | .23729 |
| Stddev | .00661   | .0078    | .0008    | .0144  | .00703 | .0200  | .0019  | .00044 |
| %RSD   | .71997   | .41292   | .07099   | .64553 | .82166 | .37015 | .16253 | .18435 |
| #1     | .92360   | 1.8827   | 1.0929   | 2.2409 | .86378 | 5.4265 | 1.1988 | .23780 |
| #2     | .92065   | 1.8972   | 1.0928   | 2.2328 | .85412 | 5.3878 | 1.2005 | .23701 |
| #3     | .91096   | 1.8850   | 1.0915   | 2.2130 | .85010 | 5.3981 | 1.2027 | .23707 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21206   | 346.63   | .42212   | .21403 | .33593 | 6.7728 | 1.5700 | 40.496 |
| Stddev | .00032   | 2.70     | .00081   | .00040 | .00199 | .0178  | .0008  | .195   |
| %RSD   | .14887   | .77790   | .19130   | .18798 | .59356 | .26284 | .04805 | .48259 |
| #1     | .21232   | 348.91   | .42170   | .21400 | .33807 | 6.7722 | 1.5704 | 40.503 |
| #2     | .21171   | 343.66   | .42305   | .21364 | .33558 | 6.7553 | 1.5692 | 40.687 |
| #3     | .21215   | 347.33   | .42161   | .21445 | .33413 | 6.7909 | 1.5706 | 40.297 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52690   | .07410   | F 2899.8 | .32606 | .39275 | 55.299 | .41987 | .44486 |
| Stddev | .00113   | .00079   | 81.4     | .00440 | .00044 | .153   | .00252 | .01610 |
| %RSD   | .21464   | 1.0694   | 2.8068   | 1.3487 | .11277 | .27578 | .60003 | 3.6184 |
| #1     | .52782   | .07458   | 2971.8   | .32449 | .39306 | 55.223 | .42191 | .46035 |
| #2     | .52726   | .07319   | 2916.1   | .32267 | .39224 | 55.200 | .42065 | .42822 |
| #3     | .52564   | .07454   | 2811.5   | .33103 | .39294 | 55.475 | .41705 | .44602 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 73.818 | F 11.137 | .69244   | .29525 | .28614 | 7.462  | 1.9316 | 9.2723 |
| Stddev | .564     | .078     | .00177   | .00382 | .00225 | .028   | .0153  | .2225  |
| %RSD   | .76389   | .69872   | .25578   | 1.2930 | .78520 | .3760  | .79210 | 2.3995 |
| #1     | 73.231   | 11.218   | .69268   | .29966 | .28358 | 7.434  | 1.9439 | 9.5273 |
| #2     | 74.356   | 11.063   | .69056   | .29302 | .28704 | 7.463  | 1.9145 | 9.1718 |
| #3     | 73.867   | 11.130   | .69408   | .29307 | .28780 | 7.490  | 1.9364 | 9.1178 |

Sample Name: K2099-01MS      Acquired: 3/27/2019 19:12:52      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 28.590 |
| Stddev | 5.923  |
| %RSD   | 20.717 |

|    |        |
|----|--------|
| #1 | 34.639 |
| #2 | 28.332 |
| #3 | 22.801 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2345.4 | 42856. | 2870.1 | 39.471 | 2744.2 |
| Stddev    | 13.5   | 78.    | 25.3   | 1.366  | 14.5   |
| %RSD      | .57387 | .18266 | .88274 | 3.4598 | .52889 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2342.1 | 42845. | 2845.3 | 38.958 | 2760.6 |
| #2 | 2333.9 | 42940. | 2896.0 | 41.018 | 2733.1 |
| #3 | 2360.2 | 42785. | 2869.0 | 38.436 | 2738.8 |

Sample Name: K2099-01MSD      Acquired: 3/27/2019 19:17:07      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |        |        |        |        |        |
|--------|----------|----------|----------|--------|--------|--------|--------|--------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .90834   | 1.8722   | 1.0849   | 2.2321 | .85959 | 5.2483 | 1.1894 | .23611 |
| Stddev | .01039   | .0060    | .0014    | .0246  | .00802 | .0400  | .0111  | .00052 |
| %RSD   | 1.1441   | .32011   | .12747   | 1.1029 | .93326 | .76229 | .93131 | .21965 |
| #1     | .91022   | 1.8782   | 1.0844   | 2.2330 | .86595 | 5.2526 | 1.1870 | .23559 |
| #2     | .91766   | 1.8722   | 1.0838   | 2.2562 | .86225 | 5.2860 | 1.2015 | .23663 |
| #3     | .89713   | 1.8663   | 1.0864   | 2.2070 | .85058 | 5.2063 | 1.1798 | .23613 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21064   | 348.30   | .41881   | .21209 | .33442 | 6.7472 | 1.5808 | 40.324 |
| Stddev | .00017   | 1.33     | .00379   | .00036 | .00240 | .0221  | .0038  | .273   |
| %RSD   | .08084   | .38161   | .90539   | .16772 | .71722 | .32694 | .24171 | .67772 |
| #1     | .21059   | 346.87   | .41674   | .21192 | .33528 | 6.7263 | 1.5764 | 40.136 |
| #2     | .21083   | 349.49   | .42318   | .21250 | .33627 | 6.7703 | 1.5823 | 40.638 |
| #3     | .21050   | 348.54   | .41650   | .21186 | .33171 | 6.7452 | 1.5836 | 40.199 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52494   | .07365   | F 2605.5 | .32182 | .39198 | 55.302 | .41871 | .45309 |
| Stddev | .00027   | .00086   | 78.1     | .00068 | .00032 | .475   | .00438 | .03755 |
| %RSD   | .05102   | 1.1679   | 2.9968   | .21205 | .08289 | .85849 | 1.0457 | 8.2870 |
| #1     | .52524   | .07405   | 2685.2   | .32132 | .39192 | 55.213 | .42194 | .46547 |
| #2     | .52483   | .07266   | 2601.9   | .32153 | .39168 | 55.815 | .42047 | .41091 |
| #3     | .52474   | .07424   | 2529.2   | .32259 | .39232 | 54.878 | .41373 | .48288 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 73.837 | F 11.162 | .68906   | .29174 | .28151 | 7.405  | 1.9371 | 8.8440 |
| Stddev | .071     | .071     | .00127   | .00271 | .00394 | .028   | .0028  | .3146  |
| %RSD   | .09620   | .63321   | .18465   | .92853 | 1.3999 | .3796  | .14559 | 3.5576 |
| #1     | 73.869   | 11.129   | .69053   | .29471 | .27697 | 7.421  | 1.9339 | 8.5154 |
| #2     | 73.756   | 11.113   | .68845   | .29110 | .28351 | 7.421  | 1.9390 | 8.8742 |
| #3     | 73.887   | 11.243   | .68822   | .28941 | .28405 | 7.372  | 1.9385 | 9.1426 |



Sample Name: K2099-01MSD      Acquired: 3/27/2019 19:17:07      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 31.564 |
| Stddev | 34.890 |
| %RSD   | 110.54 |

|    |        |
|----|--------|
| #1 | 3.2001 |
| #2 | 20.969 |
| #3 | 70.523 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2361.3 | 43266. | 2863.3 | 38.427 | 2773.2 |
| Stddev    | 5.8    | 262.   | 18.9   | .557   | 12.7   |
| %RSD      | .24580 | .60572 | .66077 | 1.4494 | .45770 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2357.8 | 43486. | 2880.8 | 37.794 | 2778.2 |
| #2 | 2358.1 | 42976. | 2865.8 | 38.844 | 2782.6 |
| #3 | 2368.0 | 43337. | 2843.2 | 38.642 | 2758.7 |

Sample Name: CCV07      Acquired: 3/27/2019 19:30:17      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.0039 | 4.9323 | 4.8411 | 5.0569 | 5.0107 | 9.9543 | 10.120 | .25062   |
| Stddev | .0114  | .0127  | .0153  | .0115  | .0064  | .1041  | .036   | .00069   |
| %RSD   | .22689 | .25713 | .31569 | .22817 | .12746 | 1.0454 | .35347 | .27633   |
| #1     | 5.0051 | 4.9294 | 4.8236 | 5.0566 | 5.0164 | 9.8805 | 10.079 | .25132   |
| #2     | 4.9920 | 4.9213 | 4.8521 | 5.0685 | 5.0038 | 9.9091 | 10.135 | .25061   |
| #3     | 5.0146 | 4.9461 | 4.8475 | 5.0454 | 5.0119 | 10.073 | 10.145 | .24994   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4500 | 24.359 | 1.0207 | 2.4196 | 1.2675 | 5.0584 | 2.5357 | 24.970   |
| Stddev | .0064  | .209   | .0011  | .0051  | .0031  | .0042  | .0004  | .221     |
| %RSD   | .26264 | .86004 | .10411 | .21025 | .24262 | .08358 | .01749 | .88354   |
| #1     | 2.4425 | 24.123 | 1.0195 | 2.4137 | 1.2706 | 5.0535 | 2.5361 | 24.743   |
| #2     | 2.4536 | 24.521 | 1.0216 | 2.4226 | 1.2645 | 5.0608 | 2.5352 | 24.983   |
| #3     | 2.4538 | 24.434 | 1.0209 | 2.4224 | 1.2676 | 5.0608 | 2.5357 | 25.184   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4254 | 1.2402 | 25.141 | 2.5012 | 2.4195 | 24.890 | 5.0121 | 5.0480   |
| Stddev | .0018  | .0048  | .055   | .0015  | .0051  | .080   | .0087  | .0380    |
| %RSD   | .07226 | .38866 | .21701 | .06062 | .21175 | .32103 | .17339 | .75290   |
| #1     | 2.4240 | 1.2433 | 25.190 | 2.5000 | 2.4137 | 24.801 | 5.0136 | 5.0065   |
| #2     | 2.4248 | 1.2426 | 25.151 | 2.5008 | 2.4213 | 24.955 | 5.0027 | 5.0562   |
| #3     | 2.4274 | 1.2346 | 25.082 | 2.5029 | 2.4234 | 24.915 | 5.0199 | 5.0812   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.8184 | 4.7758 | 4.8443 | 4.8993 | 4.8515 | 4.801  | 4.9424 | F 2.7433 |
| Stddev | .0139  | .0290  | .0091  | .0293  | .0379  | .007   | .0268  | .1088    |
| %RSD   | .28917 | .60709 | .18815 | .59809 | .78153 | .1539  | .54253 | 3.9641   |
| #1     | 4.8039 | 4.7720 | 4.8390 | 4.8706 | 4.8416 | 4.807  | 4.9355 | 2.7675   |
| #2     | 4.8316 | 4.8064 | 4.8390 | 4.9291 | 4.8934 | 4.804  | 4.9720 | 2.6245   |
| #3     | 4.8198 | 4.7488 | 4.8548 | 4.8981 | 4.8196 | 4.793  | 4.9197 | 2.8379   |

Sample Name: CCV07      Acquired: 3/27/2019 19:30:17      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 78.477  
Stddev      18.206  
%RSD      23.199

#1      98.307  
#2      62.517  
#3      74.607

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2868.7 | 53020. | 3185.2 | 43.478 | 3686.3 |
| Stddev    | 1.0    | 135.   | 23.3   | 2.152  | 10.0   |
| %RSD      | .03515 | .25536 | .73219 | 4.9492 | .27139 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2869.2 | 53176. | 3186.7 | 41.825 | 3697.7 |
| #2 | 2869.3 | 52944. | 3161.2 | 45.911 | 3678.9 |
| #3 | 2867.5 | 52939. | 3207.7 | 42.697 | 3682.2 |

Sample Name: CCB07      Acquired: 3/27/2019 19:34:15      Type: Unk  
Method: P4-ICP2(v2989)      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    | .00265  | -.00056 | .00046   | .00006  | -.00004  | -.02515 | .00225  | -.00010  |
| Stddev | .00169  | .00078  | .00037   | .00097  | .00253   | .00537  | .00082  | .00004   |
| %RSD   | 63.980  | 137.63  | 81.196   | 1594.3  | 6762.4   | 21.331  | 36.636  | 35.286   |
| #1     | .00086  | -.00018 | .00004   | .00032  | .00285   | -.01925 | .00140  | -.00010  |
| #2     | .00423  | -.00005 | .00076   | .00088  | -.00188  | -.02973 | .00231  | -.00007  |
| #3     | .00285  | -.00146 | .00056   | -.00102 | -.00108  | -.02648 | .00304  | -.00014  |
| Elem   | Cd2265  | Ca3736  | Cr2677   | Co2286  | Cu2247   | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00011  | .00403  | .00027   | -.00003 | .00313   | .00052  | .00039  | .00521   |
| Stddev | .00001  | .01937  | .00015   | .00031  | .00027   | .00032  | .00007  | .07238   |
| %RSD   | 8.0941  | 481.01  | 56.732   | 1156.6  | 8.7458   | 61.546  | 17.451  | 1389.0   |
| #1     | .00011  | .01274  | .00030   | .00022  | .00302   | .00042  | .00044  | -.07045  |
| #2     | .00011  | .01751  | .00041   | -.00037 | .00344   | .00027  | .00043  | .01228   |
| #3     | .00012  | -.01817 | .00011   | .00007  | .00293   | .00088  | .00031  | .07380   |
| Elem   | Ni2316  | Ag3280  | Na5895   | V_2924  | Zn2138   | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00128  | -.00026 | F 1.6002 | -.00000 | .00004   | .22697  | .00016  | .01867   |
| Stddev | .00055  | .00027  | .0266    | .00055  | .00005   | .06125  | .00029  | .03006   |
| %RSD   | 42.850  | 105.00  | 1.6619   | 13921.  | 113.10   | 26.988  | 179.62  | 161.02   |
| #1     | .00138  | -.00049 | 1.6114   | .00063  | .00005   | .20942  | .00041  | -.01050  |
| #2     | .00178  | .00004  | 1.6195   | -.00035 | -.00001  | .17640  | -.00015 | .04954   |
| #3     | .00069  | -.00032 | 1.5699   | -.00029 | .00009   | .29508  | .00022  | .01695   |
| Elem   | S_1820  | Si2881  | Sn1899   | Ti3361  | Li6707   | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | -.00037 | .00130  | .00243   | -.00035 | F .01439 | .0005   | .00006  | F 1.0929 |
| Stddev | .00280  | .00219  | .00074   | .00074  | .00086   | .0015   | .00010  | .2613    |
| %RSD   | 750.27  | 169.24  | 30.686   | 208.14  | 6.0110   | 338.9   | 163.84  | 23.909   |
| #1     | -.00359 | .00334  | .00327   | .00025  | .01339   | -.0012  | -.00005 | 1.1867   |
| #2     | .00094  | -.00102 | .00213   | -.00118 | .01478   | .0006   | .00010  | 1.2943   |
| #3     | .00153  | .00157  | .00188   | -.00014 | .01498   | .0019   | .00014  | .79761   |

Sample Name: CCB07      Acquired: 3/27/2019 19:34:15      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 62.556 |
| Stddev | 25.364   |
| %RSD   | 40.546   |

|    |        |
|----|--------|
| #1 | 50.202 |
| #2 | 45.735 |
| #3 | 91.730 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2925.2 | 53444. | 3098.7 | 43.850 | 4039.1 |
| Stddev    | 4.1    | 190.   | 24.7   | .709   | .7     |
| %RSD      | .13986 | .35462 | .79571 | 1.6169 | .01645 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2923.1 | 53644. | 3085.5 | 43.042 | 4039.1 |
| #2 | 2922.7 | 53267. | 3127.1 | 44.142 | 4039.7 |
| #3 | 2930.0 | 53420. | 3083.5 | 44.367 | 4038.4 |

Sample Name: K2099-01A      Acquired: 3/27/2019 19:38:44      Type: Unk  
Method: P4-ICP2(v2989)      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    | .90584   | 1.8733   | 1.0852   | 2.2226 | .85374 | 5.2801 | 1.1957 | .23788 |
| Stddev | .01437   | .0142    | .0095    | .0144  | .00864 | .0040  | .0083  | .00047 |
| %RSD   | 1.5861   | .75701   | .87501   | .64771 | 1.0121 | .07516 | .69149 | .19773 |
| #1     | .88930   | 1.8653   | 1.0785   | 2.2067 | .84438 | 5.2757 | 1.2027 | .23842 |
| #2     | .91300   | 1.8897   | 1.0961   | 2.2262 | .85543 | 5.2814 | 1.1980 | .23760 |
| #3     | .91522   | 1.8649   | 1.0811   | 2.2348 | .86141 | 5.2833 | 1.1866 | .23762 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .21123   | 348.70   | .41957   | .21309 | .33215 | 6.8622 | 1.5822 | 40.768 |
| Stddev | .00145   | 2.02     | .00211   | .00121 | .00336 | .0209  | .0023  | .290   |
| %RSD   | .68781   | .57914   | .50191   | .56876 | 1.0106 | .30438 | .14501 | .71222 |
| #1     | .21002   | 348.44   | .41870   | .21202 | .32832 | 6.8849 | 1.5844 | 40.435 |
| #2     | .21284   | 346.82   | .42197   | .21441 | .33458 | 6.8579 | 1.5823 | 40.972 |
| #3     | .21083   | 350.84   | .41804   | .21286 | .33355 | 6.8438 | 1.5799 | 40.896 |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .52364   | .07353   | F 3041.8 | .32403 | .38996 | 55.046 | .41723 | .46392 |
| Stddev | .00429   | .00137   | 111.5    | .00227 | .00221 | .058   | .00412 | .02458 |
| %RSD   | .81968   | 1.8653   | 3.6661   | .70197 | .56680 | .10576 | .98746 | 5.2982 |
| #1     | .51974   | .07469   | 3142.2   | .32284 | .38820 | 54.996 | .41250 | .46055 |
| #2     | .52824   | .07201   | 3061.5   | .32665 | .39244 | 55.110 | .42002 | .49000 |
| #3     | .52294   | .07387   | 2921.8   | .32259 | .38925 | 55.033 | .41918 | .44119 |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | F 72.784 | F 11.083 | .68733   | .28750 | .28292 | 7.324  | 1.9292 | 8.6157 |
| Stddev | .678     | .038     | .00678   | .00493 | .00601 | .047   | .0067  | .0682  |
| %RSD   | .93181   | .34655   | .98618   | 1.7147 | 2.1231 | .6450  | .34616 | .79125 |
| #1     | 72.184   | 11.105   | .68419   | .28214 | .27704 | 7.295  | 1.9329 | 8.6460 |
| #2     | 73.520   | 11.039   | .69511   | .28851 | .28267 | 7.379  | 1.9215 | 8.5376 |
| #3     | 72.648   | 11.106   | .68269   | .29184 | .28905 | 7.299  | 1.9332 | 8.6634 |

Sample Name: K2099-01A      Acquired: 3/27/2019 19:38:44      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 42.854 |
| Stddev | 27.121 |
| %RSD   | 63.287 |

|    |        |
|----|--------|
| #1 | 74.166 |
| #2 | 27.665 |
| #3 | 26.731 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2375.5 | 43307. | 2888.9 | 40.594 | 2781.6 |
| Stddev    | 26.6   | 114.   | 19.2   | 1.192  | 21.3   |
| %RSD      | 1.1210 | .26375 | .66463 | 2.9377 | .76547 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2406.0 | 43413. | 2900.5 | 39.406 | 2804.4 |
| #2 | 2363.6 | 43186. | 2899.5 | 41.791 | 2762.2 |
| #3 | 2356.9 | 43322. | 2866.8 | 40.584 | 2778.3 |

Sample Name: K2099-02      Acquired: 3/27/2019 19:43:00      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |          |          |        |         |        |        |         |
|--------|----------|----------|----------|--------|---------|--------|--------|---------|
| Elem   | As1890   | Tl1908   | Pb2203   | Se1960 | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .02010   | -.00106  | .09380   | .00672 | -.00047 | 4.0329 | .96668 | -.00070 |
| Stddev | .00015   | .00167   | .00194   | .00401 | .00159  | .0138  | .01055 | .00008  |
| %RSD   | .75650   | 157.91   | 2.0659   | 59.702 | 338.94  | .34337 | 1.0912 | 12.024  |
| #1     | .02017   | -.00086  | .09519   | .00308 | -.00117 | 4.0365 | .97389 | -.00070 |
| #2     | .01993   | -.00281  | .09462   | .01102 | .00135  | 4.0445 | .97158 | -.00062 |
| #3     | .02021   | .00050   | .09159   | .00606 | -.00158 | 4.0176 | .95457 | -.00079 |
| Elem   | Cd2265   | Ca3736   | Cr2677   | Co2286 | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00111   | 327.10   | .00549   | .01777 | .06975  | 9.0466 | 2.4144 | 36.218  |
| Stddev | .00008   | 2.14     | .00025   | .00043 | .00067  | .0224  | .0030  | .500    |
| %RSD   | 7.2728   | .65291   | 4.5199   | 2.4097 | .95539  | .24739 | .12529 | 1.3801  |
| #1     | .00104   | 326.05   | .00577   | .01733 | .06899  | 9.0208 | 2.4119 | 36.473  |
| #2     | .00109   | 325.68   | .00530   | .01818 | .07005  | 9.0603 | 2.4135 | 36.538  |
| #3     | .00120   | 329.55   | .00540   | .01780 | .07022  | 9.0586 | 2.4177 | 35.642  |
| Elem   | Ni2316   | Ag3280   | Na5895   | V_2924 | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .01979   | -.01022  | F 2691.5 | .00541 | .19368  | 40.220 | .02508 | .13402  |
| Stddev | .00088   | .00090   | 53.8     | .00080 | .00028  | .338   | .00057 | .02100  |
| %RSD   | 4.4358   | 8.8170   | 1.9999   | 14.783 | .14336  | .84059 | 2.2758 | 15.673  |
| #1     | .02077   | -.00929  | 2741.7   | .00634 | .19399  | 40.260 | .02501 | .15594  |
| #2     | .01951   | -.01029  | 2698.1   | .00497 | .19358  | 40.537 | .02569 | .11407  |
| #3     | .01908   | -.01109  | 2634.7   | .00494 | .19346  | 39.864 | .02456 | .13205  |
| Elem   | S_1820   | Si2881   | Sn1899   | Ti3361 | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm      | ppm      | ppm      | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | F 73.728 | F 10.602 | -.02246  | .10135 | .04668  | .4806  | 1.6331 | 8.8390  |
| Stddev | .436     | .190     | .00069   | .00278 | .00310  | .0013  | .0104  | .1910   |
| %RSD   | .59173   | 1.7964   | 3.0828   | 2.7441 | 6.6456  | .2764  | .63602 | 2.1610  |
| #1     | 74.103   | 10.454   | -.02197  | .09824 | .04335  | .4802  | 1.6235 | 8.7652  |
| #2     | 73.832   | 10.535   | -.02217  | .10359 | .04950  | .4820  | 1.6317 | 9.0559  |
| #3     | 73.249   | 10.817   | -.02326  | .10222 | .04718  | .4795  | 1.6441 | 8.6959  |



Sample Name: K2099-02      Acquired: 3/27/2019 19:43:00      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 200.14 |
| Stddev | 34.43    |
| %RSD   | 17.202   |

|    |        |
|----|--------|
| #1 | 193.37 |
| #2 | 237.45 |
| #3 | 169.60 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2344.3 | 42481. | 2873.5 | 39.151 | 2754.1 |
| Stddev    | 18.5   | 56.    | 47.7   | .629   | 6.9    |
| %RSD      | .78876 | .13292 | 1.6617 | 1.6066 | .24925 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2357.9 | 42517. | 2911.5 | 39.709 | 2746.5 |
| #2 | 2323.2 | 42416. | 2889.1 | 39.273 | 2756.0 |
| #3 | 2351.7 | 42511. | 2819.9 | 38.469 | 2759.9 |

Sample Name: K2099-03      Acquired: 3/27/2019 19:47:30      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03653 | .00038 | .01724 | .00380 | .00012 | .60167 | .28131 |
| Stddev | .00132 | .00132 | .00097 | .00283 | .00291 | .00752 | .00248 |
| %RSD   | 3.6139 | 347.01 | 5.6015 | 74.406 | 2373.7 | 1.2507 | .88096 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .03510 | .00142  | .01831 | .00552 | .00284  | .59589 | .27845 |
| #2 | .03771 | .00083  | .01699 | .00535 | -.00294 | .61018 | .28293 |
| #3 | .03679 | -.00111 | .01643 | .00054 | .00048  | .59893 | .28254 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00101 | -.00007 | 51.455 | .00134 | .00141 | .01556 | 10.647 |
| Stddev | .00005  | .00012  | .783   | .00026 | .00028 | .00038 | .018   |
| %RSD   | 5.3594  | 171.20  | 1.5223 | 19.300 | 19.950 | 2.4623 | .17239 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00096 | -.00008 | 52.228 | .00153 | .00173 | .01564 | 10.626 |
| #2 | -.00102 | .00005  | 50.662 | .00104 | .00118 | .01514 | 10.653 |
| #3 | -.00107 | -.00019 | 51.476 | .00144 | .00134 | .01590 | 10.662 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .52486 | 18.267 | .00641 | -.00247 | 29.838 | .00351 | .23069 |
| Stddev | .00146 | .187   | .00023 | .00064  | .255   | .00033 | .00024 |
| %RSD   | .27747 | 1.0240 | 3.5511 | 26.056  | .85581 | 9.4162 | .10233 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .52323 | 18.238 | .00631 | -.00179 | 29.831 | .00388 | .23094 |
| #2 | .52530 | 18.467 | .00625 | -.00307 | 30.097 | .00335 | .23048 |
| #3 | .52604 | 18.096 | .00667 | -.00253 | 29.587 | .00328 | .23064 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 6.8616 | .00614 | .07326 | 4.1793 | 6.1465 | .00101 | .03083 |
| Stddev | .0712  | .00018 | .01293 | .0097  | .1293  | .00049 | .00207 |
| %RSD   | 1.0381 | 2.8896 | 17.655 | .23206 | 2.1032 | 48.826 | 6.7006 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 6.8247 | .00602 | .05852 | 4.1883 | 6.2548 | .00108 | .03312 |
| #2 | 6.9437 | .00605 | .08270 | 4.1690 | 6.0034 | .00145 | .03026 |
| #3 | 6.8164 | .00634 | .07857 | 4.1807 | 6.1814 | .00048 | .02911 |

Sample Name: K2099-03      Acquired: 3/27/2019 19:47:30      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01140 | .4875  | .16209 | 2.3059 | F<.00000 |
| Stddev | .00221 | .0011  | .00231 | .4951  | 43.478   |
| %RSD   | 19.418 | .2217  | 1.4231 | 21.471 | 66.323   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01239 | .4883 | .16432 | 1.7347 | -49.291 |
| #2 | .00886 | .4880 | .15972 | 2.5724 | -114.82 |
| #3 | .01294 | .4863 | .16224 | 2.6107 | -32.554 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2826.6 | 52121. | 3234.8 | 44.770 | 3777.4 |
| Stddev    | 5.4    | 330.   | 51.8   | .821   | 5.6    |
| %RSD      | .19192 | .63229 | 1.6016 | 1.8338 | .14822 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2829.5 | 52501. | 3201.4 | 44.166 | 3783.7 |
| #2 | 2829.9 | 51916. | 3294.5 | 44.438 | 3775.5 |
| #3 | 2820.3 | 51947. | 3208.6 | 45.705 | 3773.0 |

Sample Name: K2099-04      Acquired: 3/27/2019 19:51:51      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03529 | -.00026 | .06394 | .00443 | .01409 | .63915 | .11212 |
| Stddev | .00347 | .00139  | .00061 | .00253 | .00170 | .01276 | .00048 |
| %RSD   | 9.8345 | 530.81  | .95258 | 57.084 | 12.059 | 1.9958 | .42616 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .03857 | -.00055 | .06390 | .00735 | .01215 | .65192 | .11263 |
| #2 | .03566 | .00125  | .06336 | .00299 | .01485 | .63912 | .11168 |
| #3 | .03165 | -.00149 | .06457 | .00296 | .01528 | .62640 | .11207 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00083 | .00004 | 57.286 | .00284 | .00149 | .01756 | 9.2687 |
| Stddev | .00007  | .00006 | .318   | .00099 | .00011 | .00078 | .0081  |
| %RSD   | 8.0258  | 135.88 | .55521 | 34.798 | 7.4265 | 4.4600 | .08769 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00087 | -.00002 | 57.241 | .00170 | .00153 | .01846 | 9.2656 |
| #2 | -.00086 | .00010  | 56.992 | .00336 | .00158 | .01709 | 9.2625 |
| #3 | -.00075 | .00004  | 57.623 | .00346 | .00137 | .01712 | 9.2779 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .50777 | 22.095 | .00571 | -.00249 | 35.829 | .00279 | .13478 |
| Stddev | .00026 | .345   | .00034 | .00046  | .476   | .00026 | .00127 |
| %RSD   | .05143 | 1.5630 | 5.8818 | 18.385  | 1.3289 | 9.1614 | .94360 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .50807 | 22.444 | .00587 | -.00217 | 36.379 | .00252 | .13346 |
| #2 | .50766 | 21.754 | .00594 | -.00229 | 35.573 | .00283 | .13487 |
| #3 | .50759 | 22.087 | .00533 | -.00301 | 35.536 | .00302 | .13600 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 7.7341 | .00697 | .09834 | 4.9553 | 7.0947 | -.00068 | .03356 |
| Stddev | .0646  | .00016 | .01661 | .0284  | .0644  | .00012  | .00377 |
| %RSD   | .83475 | 2.2362 | 16.891 | .57247 | .90739 | 18.224  | 11.224 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 7.7601 | .00679 | .08035 | 4.9258 | 7.0210 | -.00073 | .02926 |
| #2 | 7.6606 | .00703 | .11309 | 4.9580 | 7.1404 | -.00054 | .03511 |
| #3 | 7.7817 | .00708 | .10156 | 4.9823 | 7.1226 | -.00077 | .03630 |

Sample Name: K2099-04      Acquired: 3/27/2019 19:51:51      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01345 | .5277  | .18450 | 2.0847 | F<.00000 |
| Stddev | .00043 | .0048  | .00107 | .1820  | 17.455   |
| %RSD   | 3.1903 | .9187  | .57898 | 8.7327 | 24.689   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01383 | .5221 | .18488 | 2.2946 | -69.097 |
| #2 | .01298 | .5305 | .18330 | 1.9901 | -88.903 |
| #3 | .01354 | .5305 | .18534 | 1.9694 | -54.103 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2829.2 | 52264. | 3148.9 | 42.939 | 3785.1 |
| Stddev    | 3.1    | 234.   | 9.5    | .557   | 27.0   |
| %RSD      | .10790 | .44852 | .30107 | 1.2979 | .71301 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2829.8 | 51995. | 3158.1 | 42.908 | 3815.4 |
| #2 | 2832.0 | 52368. | 3139.2 | 43.511 | 3776.1 |
| #3 | 2826.0 | 52428. | 3149.3 | 42.398 | 3763.7 |

Sample Name: K2099-05      Acquired: 3/27/2019 19:56:12      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |         |
|--------|--------|---------|--------|--------|---------|--------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00754 | -.00052 | .01955 | .00387 | -.00061 | .62618 | .22067 | -.00070 |
| Stddev | .00154 | .00115  | .00077 | .00538 | .00203  | .02160 | .00202 | .00009  |
| %RSD   | 20.483 | 220.04  | 3.9561 | 139.07 | 334.32  | 3.4489 | .91419 | 13.500  |

|    |        |         |        |         |         |        |        |         |
|----|--------|---------|--------|---------|---------|--------|--------|---------|
| #1 | .00921 | -.00105 | .01871 | .01000  | .00127  | .60124 | .21875 | -.00069 |
| #2 | .00724 | .00079  | .02022 | .00166  | -.00033 | .63845 | .22048 | -.00080 |
| #3 | .00617 | -.00131 | .01972 | -.00005 | -.00277 | .63884 | .22277 | -.00061 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00056 | 53.897 | .00094 | .00351 | .02624 | 7.8762 | .52174 | 17.666 |
| Stddev | .00001 | .268   | .00010 | .00032 | .00011 | .0050  | .00065 | .182   |
| %RSD   | 1.7768 | .49808 | 10.753 | 9.1893 | .40575 | .06281 | .12370 | 1.0286 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00057 | 53.658 | .00088 | .00383 | .02630 | 7.8704 | .52186 | 17.586 |
| #2 | .00056 | 53.846 | .00106 | .00350 | .02612 | 7.8792 | .52105 | 17.538 |
| #3 | .00056 | 54.187 | .00089 | .00319 | .02631 | 7.8788 | .52233 | 17.874 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .01123 | -.00242 | 51.896 | .00164 | .24310 | 6.7251 | .00633 | .10682 |
| Stddev | .00047 | .00034  | .145   | .00026 | .00101 | .0310  | .00010 | .03199 |
| %RSD   | 4.1666 | 13.952  | .28023 | 15.785 | .41556 | .46046 | 1.5288 | 29.947 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .01093 | -.00250 | 51.728 | .00170 | .24246 | 6.6955 | .00624 | .07063 |
| #2 | .01100 | -.00272 | 51.971 | .00135 | .24426 | 6.7226 | .00631 | .11848 |
| #3 | .01177 | -.00205 | 51.989 | .00186 | .24256 | 6.7573 | .00643 | .13133 |

|        |        |        |         |        |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 8.8234 | 6.8512 | -.00140 | .02306 | .02235 | .2578  | .23448 | 2.0162 |
| Stddev | .0394  | .0380  | .00011  | .00283 | .00195 | .0027  | .00190 | .2149  |
| %RSD   | .44658 | .55406 | 8.1055  | 12.258 | 8.7350 | 1.061  | .81238 | 10.658 |

|    |        |        |         |        |        |       |        |        |
|----|--------|--------|---------|--------|--------|-------|--------|--------|
| #1 | 8.8491 | 6.8892 | -.00141 | .02063 | .02361 | .2557 | .23629 | 2.0521 |
| #2 | 8.8432 | 6.8132 | -.00128 | .02616 | .02333 | .2609 | .23249 | 1.7856 |
| #3 | 8.7781 | 6.8511 | -.00150 | .02239 | .02010 | .2568 | .23466 | 2.2108 |

Sample Name: K2099-05      Acquired: 3/27/2019 19:56:12      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C02-SETTL Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 13.467 |
| Stddev | 36.195 |
| %RSD   | 268.77 |

|    |         |
|----|---------|
| #1 | 49.591  |
| #2 | -22.798 |
| #3 | 13.607  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2809.7 | 51980. | 3124.6 | 45.186 | 3756.4 |
| Stddev    | 6.7    | 26.    | 20.0   | .500   | 9.4    |
| %RSD      | .23842 | .04992 | .64141 | 1.1074 | .24931 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2814.3 | 51953. | 3104.2 | 44.950 | 3767.2 |
| #2 | 2812.8 | 51982. | 3144.3 | 44.848 | 3749.9 |
| #3 | 2802.0 | 52005. | 3125.3 | 45.761 | 3752.2 |

Sample Name: K2099-06      Acquired: 3/27/2019 20:00:33      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |         |        |        |         |
|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00622 | .00065 | .02031 | .00329 | -.00156 | .68097 | .23004 | -.00079 |
| Stddev | .00270 | .00035 | .00110 | .00245 | .00156  | .00929 | .00058 | .00004  |
| %RSD   | 43.354 | 54.117 | 5.4160 | 74.345 | 99.566  | 1.3637 | .25116 | 5.3166  |

|    |        |        |        |        |         |        |        |         |
|----|--------|--------|--------|--------|---------|--------|--------|---------|
| #1 | .00435 | .00025 | .01915 | .00218 | -.00055 | .69168 | .22948 | -.00083 |
| #2 | .00499 | .00079 | .02134 | .00159 | -.00336 | .67594 | .23000 | -.00075 |
| #3 | .00931 | .00092 | .02043 | .00609 | -.00078 | .67527 | .23063 | -.00079 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00062 | 56.442 | .00118 | .00385 | .02641 | 8.2906 | .54184 | 18.381 |
| Stddev | .00008 | .255   | .00030 | .00009 | .00037 | .0117  | .00041 | .178   |
| %RSD   | 12.717 | .45118 | 25.313 | 2.4442 | 1.4162 | .14153 | .07628 | .96817 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00054 | 56.203 | .00132 | .00396 | .02624 | 8.2812 | .54154 | 18.213 |
| #2 | .00062 | 56.414 | .00083 | .00382 | .02616 | 8.3037 | .54166 | 18.567 |
| #3 | .00070 | 56.710 | .00138 | .00378 | .02684 | 8.2867 | .54231 | 18.363 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .01213 | -.00226 | 54.570 | .00178 | .21779 | 6.9491 | .00671 | .12104 |
| Stddev | .00060 | .00014  | .158   | .00075 | .00042 | .0510  | .00037 | .01182 |
| %RSD   | 4.9281 | 6.3982  | .28888 | 41.988 | .19298 | .73362 | 5.5485 | 9.7643 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | .01146 | -.00214 | 54.730 | .00265 | .21771 | 6.9553 | .00645 | .11734 |
| #2 | .01259 | -.00221 | 54.415 | .00130 | .21741 | 6.8953 | .00714 | .11152 |
| #3 | .01235 | -.00242 | 54.565 | .00141 | .21824 | 6.9967 | .00654 | .13427 |

|        |        |        |         |        |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899  | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.3386 | 7.1959 | -.00267 | .02570 | .02281 | .2721  | .24599 | 2.0323 |
| Stddev | .0052  | .0609  | .00015  | .00144 | .00076 | .0011  | .00119 | .3733  |
| %RSD   | .05613 | .84696 | 5.6760  | 5.6089 | 3.3273 | .4071  | .48294 | 18.370 |

|    |        |        |         |        |        |       |        |        |
|----|--------|--------|---------|--------|--------|-------|--------|--------|
| #1 | 9.3390 | 7.1594 | -.00283 | .02532 | .02234 | .2709 | .24628 | 1.6266 |
| #2 | 9.3437 | 7.1621 | -.00252 | .02730 | .02240 | .2724 | .24469 | 2.1090 |
| #3 | 9.3332 | 7.2663 | -.00267 | .02449 | .02368 | .2731 | .24701 | 2.3614 |



Sample Name: K2099-06      Acquired: 3/27/2019 20:00:33      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C02-SETTL Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 3.5337 |
| Stddev | 17.341 |
| %RSD   | 490.72 |

|    |         |
|----|---------|
| #1 | -5.5243 |
| #2 | 23.528  |
| #3 | -7.4022 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2824.8 | 52263. | 3140.0 | 44.554 | 3779.4 |
| Stddev    | 1.3    | 208.   | 17.9   | .535   | 2.5    |
| %RSD      | .04695 | .39781 | .56923 | 1.2019 | .06605 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2823.4 | 52502. | 3155.2 | 45.150 | 3776.6 |
| #2 | 2825.2 | 52164. | 3144.6 | 44.399 | 3780.7 |
| #3 | 2826.0 | 52124. | 3120.3 | 44.113 | 3781.0 |

Sample Name: K2099-07      Acquired: 3/27/2019 20:04:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |          |         |         |        |        |         |
|--------|----------|---------|----------|---------|---------|--------|--------|---------|
| Elem   | As1890   | Tl1908  | Pb2203   | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .01164   | -.00005 | .03532   | .00101  | -.00143 | .43246 | .93948 | -.00010 |
| Stddev | .00128   | .00099  | .00142   | .00265  | .00272  | .03415 | .00477 | .00018  |
| %RSD   | 11.000   | 1991.0  | 4.0153   | 262.67  | 190.56  | 7.8975 | .50737 | 172.47  |
| #1     | .01311   | -.00048 | .03454   | .00184  | -.00034 | .44751 | .93440 | -.00013 |
| #2     | .01099   | .00108  | .03446   | .00314  | -.00453 | .39337 | .94386 | .00009  |
| #3     | .01081   | -.00075 | .03696   | -.00196 | .00058  | .45651 | .94018 | -.00026 |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00093   | 346.49  | .00046   | .00482  | .01778  | .92846 | 1.3753 | 38.098  |
| Stddev | .00009   | 1.31    | .00033   | .00011  | .00031  | .00792 | .0042  | .360    |
| %RSD   | 9.9382   | .37691  | 71.449   | 2.2157  | 1.7419  | .85316 | .30655 | .94609  |
| #1     | .00092   | 347.42  | .00008   | .00485  | .01793  | .93724 | 1.3732 | 37.886  |
| #2     | .00084   | 347.05  | .00065   | .00471  | .01799  | .92628 | 1.3802 | 38.514  |
| #3     | .00103   | 345.00  | .00064   | .00492  | .01742  | .92186 | 1.3726 | 37.894  |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00459   | -.00947 | F 2941.2 | .00025  | .11555  | 41.175 | .02787 | .15800  |
| Stddev | .00050   | .00065  | 98.4     | .00062  | .00024  | .178   | .00029 | .00734  |
| %RSD   | 10.905   | 6.9122  | 3.3463   | 248.52  | .20827  | .43306 | 1.0415 | 4.6450  |
| #1     | .00505   | -.01011 | 3034.4   | -.00010 | .11533  | 41.002 | .02816 | .15432  |
| #2     | .00406   | -.00950 | 2950.9   | .00096  | .11550  | 41.164 | .02788 | .15323  |
| #3     | .00466   | -.00880 | 2838.3   | -.00011 | .11581  | 41.359 | .02758 | .16645  |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | F 72.548 | 7.9413  | -.02286  | .01650  | .04155  | .1689  | 1.7172 | 7.9392  |
| Stddev | .184     | .0270   | .00086   | .00393  | .00443  | .0011  | .0032  | .3501   |
| %RSD   | .25319   | .33944  | 3.7577   | 23.844  | 10.669  | .6499  | .18330 | 4.4102  |
| #1     | 72.563   | 7.9710  | -.02261  | .01306  | .03894  | .1701  | 1.7208 | 7.7197  |
| #2     | 72.357   | 7.9345  | -.02214  | .01564  | .03904  | .1685  | 1.7154 | 8.3430  |
| #3     | 72.724   | 7.9184  | -.02381  | .02079  | .04667  | .1680  | 1.7153 | 7.7550  |

Sample Name: K2099-07      Acquired: 3/27/2019 20:04:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 288.70 |
| Stddev | 31.35    |
| %RSD   | 10.859   |

|    |        |
|----|--------|
| #1 | 323.64 |
| #2 | 279.44 |
| #3 | 263.02 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2370.0 | 43155. | 2905.6 | 40.074 | 2801.1 |
| Stddev    | 16.6   | 120.   | 10.0   | .121   | 5.6    |
| %RSD      | .70213 | .27797 | .34302 | .30224 | .19837 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2351.5 | 43236. | 2897.0 | 40.145 | 2805.4 |
| #2 | 2374.9 | 43017. | 2903.2 | 40.142 | 2794.8 |
| #3 | 2383.7 | 43212. | 2916.5 | 39.934 | 2803.1 |

Sample Name: K2099-08      Acquired: 3/27/2019 20:09:25      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |          |         |        |        |        |         |
|--------|----------|---------|----------|---------|--------|--------|--------|---------|
| Elem   | As1890   | Tl1908  | Pb2203   | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .01529   | .00003  | .05551   | .00271  | .00908 | 1.7082 | .89995 | -.00057 |
| Stddev | .00180   | .00186  | .00169   | .00517  | .00223 | .0500  | .00023 | .00005  |
| %RSD   | 11.760   | 5875.2  | 3.0512   | 190.96  | 24.507 | 2.9265 | .02562 | 8.8803  |
| #1     | .01321   | -.00144 | .05587   | .00835  | .00898 | 1.7420 | .90014 | -.00060 |
| #2     | .01621   | .00212  | .05367   | .00159  | .00691 | 1.7319 | .90001 | -.00060 |
| #3     | .01643   | -.00058 | .05700   | -.00182 | .01136 | 1.6508 | .89969 | -.00051 |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286  | Cu2247 | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00087   | 316.73  | .00145   | .01551  | .02385 | 6.0646 | 2.2607 | 35.596  |
| Stddev | .00006   | 2.49    | .00065   | .00045  | .00006 | .0127  | .0068  | .083    |
| %RSD   | 6.8599   | .78621  | 44.629   | 2.9001  | .25550 | .20983 | .30275 | .23274  |
| #1     | .00089   | 314.37  | .00073   | .01546  | .02383 | 6.0504 | 2.2546 | 35.622  |
| #2     | .00080   | 316.50  | .00164   | .01508  | .02381 | 6.0750 | 2.2594 | 35.662  |
| #3     | .00092   | 319.33  | .00198   | .01598  | .02392 | 6.0683 | 2.2681 | 35.503  |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .01732   | -.00977 | F 2556.3 | -.00049 | .22375 | 38.793 | .03022 | .14320  |
| Stddev | .00047   | .00022  | 83.9     | .00035  | .00051 | .167   | .00031 | .00700  |
| %RSD   | 2.7312   | 2.2286  | 3.2817   | 71.057  | .22624 | .42961 | 1.0404 | 4.8870  |
| #1     | .01743   | -.00960 | 2651.9   | -.00088 | .22362 | 38.913 | .03047 | .14194  |
| #2     | .01773   | -.01002 | 2522.1   | -.00038 | .22332 | 38.864 | .03033 | .13692  |
| #3     | .01680   | -.00970 | 2494.9   | -.00021 | .22430 | 38.603 | .02987 | .15075  |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | F 72.189 | 8.9801  | -.01406  | .06150  | .04195 | .1596  | 1.5858 | 7.6682  |
| Stddev | .335     | .1109   | .00126   | .00304  | .00074 | .0010  | .0092  | .1850   |
| %RSD   | .46428   | 1.2353  | 8.9883   | 4.9438  | 1.7608 | .6555  | .57960 | 2.4130  |
| #1     | 72.409   | 8.8800  | -.01457  | .05933  | .04279 | .1594  | 1.5785 | 7.5085  |
| #2     | 71.804   | 8.9611  | -.01498  | .06497  | .04168 | .1587  | 1.5829 | 7.8710  |
| #3     | 72.355   | 9.0994  | -.01262  | .06020  | .04139 | .1607  | 1.5961 | 7.6251  |

Sample Name: K2099-08      Acquired: 3/27/2019 20:09:25      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 198.06 |
| Stddev | 28.74    |
| %RSD   | 14.508   |

|    |        |
|----|--------|
| #1 | 194.22 |
| #2 | 171.44 |
| #3 | 228.53 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2374.6 | 43374. | 2905.3 | 38.391 | 2800.2 |
| Stddev    | 8.1    | 27.    | 24.3   | 1.376  | 7.1    |
| %RSD      | .33988 | .06190 | .83720 | 3.5842 | .25307 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2382.4 | 43368. | 2927.7 | 37.028 | 2793.9 |
| #2 | 2375.1 | 43351. | 2908.8 | 39.780 | 2798.8 |
| #3 | 2366.3 | 43403. | 2879.4 | 38.366 | 2807.9 |

Sample Name: K2099-09      Acquired: 3/27/2019 20:13:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .04279 | .00029 | .01397 | .00310 | -.00005 | .48789 | .41097 |
| Stddev | .00212 | .00106 | .00038 | .00174 | .00119  | .01547 | .00322 |
| %RSD   | 4.9451 | 367.69 | 2.7377 | 56.042 | 2386.3  | 3.1698 | .78237 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .04388 | -.00091 | .01370 | .00504 | -.00132 | .49472 | .40793 |
| #2 | .04035 | .00065  | .01441 | .00257 | .00014  | .47018 | .41064 |
| #3 | .04413 | .00112  | .01381 | .00169 | .00103  | .49876 | .41433 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00116 | -.00005 | 63.922 | .00109 | .00125 | .01722 | 12.430 |
| Stddev | .00011  | .00002  | .492   | .00039 | .00023 | .00029 | .012   |
| %RSD   | 9.4131  | 38.930  | .76961 | 35.589 | 18.445 | 1.6635 | .09585 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00111 | -.00005 | 64.252 | .00149 | .00122 | .01755 | 12.444 |
| #2 | -.00109 | -.00006 | 64.158 | .00107 | .00150 | .01708 | 12.422 |
| #3 | -.00129 | -.00003 | 63.357 | .00072 | .00104 | .01704 | 12.426 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .62378 | 22.123 | .00433 | -.00267 | 35.447 | .00338 | .24010 |
| Stddev | .00084 | .098   | .00019 | .00046  | .255   | .00068 | .00144 |
| %RSD   | .13416 | .44456 | 4.4539 | 17.115  | .71943 | 20.180 | .60177 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .62354 | 22.235 | .00440 | -.00313 | 35.741 | .00358 | .24115 |
| #2 | .62308 | 22.052 | .00448 | -.00222 | 35.313 | .00262 | .24069 |
| #3 | .62470 | 22.083 | .00411 | -.00266 | 35.287 | .00394 | .23845 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 8.1950 | .00728 | .09846 | 5.1053 | 7.2904 | .00139 | .02472 |
| Stddev | .0658  | .00025 | .00938 | .0529  | .0736  | .00054 | .00142 |
| %RSD   | .80285 | 3.4543 | 9.5263 | 1.0360 | 1.0101 | 38.625 | 5.7547 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 8.1200 | .00749 | .10280 | 5.1528 | 7.3735 | .00077 | .02311 |
| #2 | 8.2432 | .00700 | .08770 | 5.1147 | 7.2644 | .00169 | .02582 |
| #3 | 8.2217 | .00735 | .10489 | 5.0483 | 7.2333 | .00171 | .02523 |

Sample Name: K2099-09      Acquired: 3/27/2019 20:13:55      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C05-SETTL Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01184 | .5673  | .20675 | .84251 | F<.00000 |
| Stddev | .00182 | .0053  | .00111 | .37827 | 47.478   |
| %RSD   | 15.356 | .9411  | .53812 | 44.898 | 53.841   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01359 | .5687 | .20803 | 1.2604 | -41.011 |
| #2 | .00996 | .5718 | .20623 | .74376 | -135.96 |
| #3 | .01197 | .5614 | .20599 | .52341 | -87.576 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2852.4 | 53181. | 3205.0 | 44.456 | 3789.5 |
| Stddev    | 3.3    | 153.   | 30.8   | .403   | 2.6    |
| %RSD      | .11558 | .28716 | .96152 | .90735 | .06804 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2850.1 | 53020. | 3170.2 | 44.698 | 3788.4 |
| #2 | 2856.2 | 53324. | 3215.8 | 44.680 | 3792.5 |
| #3 | 2851.0 | 53197. | 3228.9 | 43.991 | 3787.7 |

Sample Name: K2099-10      Acquired: 3/27/2019 20:18:16      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03458 | .00121 | .02934 | .00351 | .01243 | .47032 | .11117 |
| Stddev | .00184 | .00089 | .00074 | .00415 | .00242 | .01263 | .00033 |
| %RSD   | 5.3201 | 73.309 | 2.5099 | 118.15 | 19.508 | 2.6847 | .29553 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .03664 | .00028 | .02855 | .00742  | .01283 | .48155 | .11087 |
| #2 | .03397 | .00205 | .02946 | -.00085 | .00983 | .47275 | .11152 |
| #3 | .03312 | .00131 | .03001 | .00397  | .01462 | .45665 | .11113 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00108 | -.00001 | 58.192 | .00504 | .00200 | .01722 | 10.650 |
| Stddev | .00001  | .00016  | .259   | .00051 | .00013 | .00049 | .019   |
| %RSD   | 1.1155  | 2897.4  | .44490 | 10.203 | 6.6587 | 2.8393 | .17461 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00109 | -.00019 | 58.433 | .00544 | .00207 | .01703 | 10.640 |
| #2 | -.00107 | .00004  | 57.918 | .00523 | .00184 | .01685 | 10.639 |
| #3 | -.00109 | .00013  | 58.224 | .00446 | .00207 | .01777 | 10.672 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .51870 | 22.711 | .01231 | -.00356 | 36.726 | .00263 | .15071 |
| Stddev | .00076 | .288   | .00025 | .00103  | .129   | .00013 | .00043 |
| %RSD   | .14618 | 1.2687 | 2.0456 | 28.981  | .35081 | 4.8732 | .28825 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .51784 | 22.437 | .01219 | -.00239 | 36.836 | .00251 | .15065 |
| #2 | .51900 | 22.685 | .01214 | -.00432 | 36.758 | .00262 | .15031 |
| #3 | .51926 | 23.011 | .01260 | -.00398 | 36.584 | .00276 | .15117 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 7.7514 | .00719 | .10236 | 5.1019 | 6.9155 | -.00064 | .02404 |
| Stddev | .0711  | .00010 | .00841 | .0432  | .0806  | .00003  | .00386 |
| %RSD   | .91768 | 1.4418 | 8.2120 | .84685 | 1.1661 | 4.2280  | 16.043 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 7.6982 | .00722 | .09836 | 5.0599 | 7.0051 | -.00061 | .02534 |
| #2 | 7.7238 | .00707 | .09670 | 5.0994 | 6.8927 | -.00066 | .01970 |
| #3 | 7.8322 | .00727 | .11202 | 5.1462 | 6.8487 | -.00066 | .02707 |



Sample Name: K2099-10      Acquired: 3/27/2019 20:18:16      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .01006 | .5303  | .18489 | 1.8413 | F<.00000 |
| Stddev | .00177 | .0027  | .00123 | .1704  | 39.067   |
| %RSD   | 17.617 | .5168  | .66480 | 9.2515 | 62.634   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .01164 | .5301 | .18609 | 1.7255 | -61.514 |
| #2 | .00815 | .5276 | .18363 | 2.0369 | -23.742 |
| #3 | .01039 | .5331 | .18494 | 1.7615 | -101.86 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2844.5 | 52632. | 3178.1 | 43.144 | 3788.3 |
| Stddev    | 6.2    | 163.   | 30.5   | .740   | 12.9   |
| %RSD      | .21911 | .30941 | .95825 | 1.7143 | .34173 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2847.5 | 52769. | 3146.9 | 43.158 | 3790.8 |
| #2 | 2848.7 | 52452. | 3179.7 | 42.398 | 3799.9 |
| #3 | 2837.4 | 52674. | 3207.7 | 43.877 | 3774.3 |

Sample Name: CCV08      Acquired: 3/27/2019 20:31:32      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCV14769      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 5.0128 | 4.9497 | 4.8141 | 5.1158 | 5.0376 | 9.8019 | 10.091 | .25366   |
| Stddev | .0175  | .0215  | .0091  | .0308  | .0140  | .0611  | .086   | .00008   |
| %RSD   | .34852 | .43407 | .18992 | .60222 | .27869 | .62330 | .85199 | .03178   |
| #1     | 5.0284 | 4.9560 | 4.8122 | 5.1511 | 5.0536 | 9.8217 | 10.093 | .25362   |
| #2     | 5.0159 | 4.9673 | 4.8240 | 5.0947 | 5.0272 | 9.8506 | 10.176 | .25375   |
| #3     | 4.9939 | 4.9257 | 4.8060 | 5.1015 | 5.0320 | 9.7334 | 10.004 | .25361   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4549 | 24.579 | 1.0290 | 2.4139 | 1.2620 | 5.2219 | 2.5742 | 25.034   |
| Stddev | .0032  | .111   | .0031  | .0054  | .0028  | .0152  | .0043  | .170     |
| %RSD   | .13092 | .45116 | .30220 | .22532 | .22149 | .29163 | .16505 | .67761   |
| #1     | 2.4539 | 24.646 | 1.0298 | 2.4134 | 1.2648 | 5.2342 | 2.5748 | 25.033   |
| #2     | 2.4585 | 24.451 | 1.0316 | 2.4196 | 1.2622 | 5.2266 | 2.5782 | 25.204   |
| #3     | 2.4523 | 24.640 | 1.0255 | 2.4088 | 1.2592 | 5.2049 | 2.5697 | 24.865   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4155 | 1.2586 | 25.227 | 2.5341 | 2.4097 | 24.801 | 5.0193 | 4.9819   |
| Stddev | .0033  | .0033  | .281   | .0003  | .0040  | .174   | .0122  | .1036    |
| %RSD   | .13667 | .26496 | 1.1144 | .01191 | .16627 | .70260 | .24282 | 2.0801   |
| #1     | 2.4158 | 1.2564 | 25.389 | 2.5338 | 2.4096 | 24.789 | 5.0315 | 4.9274   |
| #2     | 2.4187 | 1.2625 | 25.390 | 2.5342 | 2.4137 | 24.980 | 5.0192 | 5.1014   |
| #3     | 2.4121 | 1.2569 | 24.903 | 2.5343 | 2.4057 | 24.633 | 5.0071 | 4.9170   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.7626 | 4.8400 | 4.8317 | 4.8408 | 4.8913 | 4.760  | 4.9512 | F 2.4243 |
| Stddev | .0359  | .0576  | .0040  | .0336  | .0290  | .018   | .0308  | .0841    |
| %RSD   | .75464 | 1.1898 | .08226 | .69484 | .59325 | .3764  | .62305 | 3.4675   |
| #1     | 4.7622 | 4.8503 | 4.8317 | 4.8689 | 4.9175 | 4.766  | 4.9808 | 2.4784   |
| #2     | 4.7987 | 4.7779 | 4.8357 | 4.8035 | 4.8601 | 4.774  | 4.9193 | 2.4670   |
| #3     | 4.7268 | 4.8917 | 4.8277 | 4.8500 | 4.8963 | 4.740  | 4.9535 | 2.3274   |

Sample Name: CCV08      Acquired: 3/27/2019 20:31:32      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CCV14769      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 86.379 |
| Stddev | 40.574   |
| %RSD   | 46.973   |

|    |        |
|----|--------|
| #1 | 72.347 |
| #2 | 132.11 |
| #3 | 54.682 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2861.0 | 52497. | 3135.1 | 42.650 | 3700.3 |
| Stddev    | 7.3    | 142.   | 35.0   | .515   | 11.8   |
| %RSD      | .25681 | .27080 | 1.1172 | 1.2068 | .31827 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2856.0 | 52404. | 3116.5 | 43.244 | 3705.1 |
| #2 | 2857.5 | 52426. | 3175.5 | 42.342 | 3686.9 |
| #3 | 2869.4 | 52660. | 3113.3 | 42.364 | 3708.9 |

Sample Name: CCB08      Acquired: 3/27/2019 20:35:30      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB14769      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |          |         |          |         |         |          |
|--------|---------|---------|----------|---------|----------|---------|---------|----------|
| Elem   | As1890  | Tl1908  | Pb2203   | Se1960  | Sb2068   | Al3961  | Ba4934  | Be2348   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00050  | -.00037 | .00081   | .00257  | .00043   | -.02614 | .00266  | -.00001  |
| Stddev | .00097  | .00028  | .00076   | .00354  | .00071   | .00867  | .00187  | .00000   |
| %RSD   | 196.17  | 75.724  | 93.660   | 137.38  | 164.63   | 33.156  | 70.281  | 14.683   |
| #1     | .00035  | -.00007 | .00164   | -.00133 | .00089   | -.02145 | .00156  | -.00001  |
| #2     | -.00040 | -.00041 | .00016   | .00348  | .00078   | -.02082 | .00481  | -.00001  |
| #3     | .00154  | -.00064 | .00063   | .00557  | -.00038  | -.03614 | .00159  | -.00001  |
| Elem   | Cd2265  | Ca3736  | Cr2677   | Co2286  | Cu2247   | Fe2404  | Mn2576  | Mg2790   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00021  | -.00317 | .00072   | -.00021 | .00229   | .00006  | .00044  | -.00762  |
| Stddev | .00010  | .00726  | .00082   | .00018  | .00038   | .00030  | .00009  | .05159   |
| %RSD   | 49.525  | 228.90  | 115.15   | 83.041  | 16.505   | 525.82  | 20.137  | 677.08   |
| #1     | .00015  | -.01156 | .00118   | -.00041 | .00258   | -.00005 | .00033  | .01111   |
| #2     | .00015  | .00088  | -.00024  | -.00014 | .00243   | -.00018 | .00049  | -.06596  |
| #3     | .00033  | .00116  | .00120   | -.00008 | .00187   | .00040  | .00048  | .03199   |
| Elem   | Ni2316  | Ag3280  | Na5895   | V_2924  | Zn2138   | K_7664  | Mo2020  | B_2496   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | .00153  | -.00007 | F 1.3855 | .00043  | .00009   | .20442  | .00036  | .00466   |
| Stddev | .00036  | .00055  | .0138    | .00019  | .00001   | .04204  | .00019  | .03336   |
| %RSD   | 23.290  | 750.82  | .99665   | 44.915  | 10.270   | 20.566  | 51.701  | 715.81   |
| #1     | .00113  | -.00015 | 1.4014   | .00047  | .00009   | .25201  | .00030  | .04317   |
| #2     | .00182  | .00051  | 1.3763   | .00060  | .00010   | .18896  | .00057  | -.01409  |
| #3     | .00163  | -.00058 | 1.3787   | .00022  | .00009   | .17231  | .00021  | -.01511  |
| Elem   | S_1820  | Si2881  | Sn1899   | Ti3361  | Li6707   | P_1774  | Sr4077  | U_3670   |
| Units  | ppm     | ppm     | ppm      | ppm     | ppm      | ppm     | ppm     | ppm      |
| Avg    | -.00110 | .00018  | .00236   | -.00032 | F .01168 | .0044   | .00003  | F .43559 |
| Stddev | .00504  | .00114  | .00042   | .00165  | .00071   | .0005   | .00015  | .43286   |
| %RSD   | 456.62  | 641.10  | 17.782   | 517.22  | 6.0949   | 12.12   | 476.92  | 99.374   |
| #1     | -.00684 | .00094  | .00284   | -.00008 | .01240   | .0049   | -.00004 | .36613   |
| #2     | .00264  | .00073  | .00215   | .00120  | .01168   | .0038   | -.00006 | .04165   |
| #3     | .00088  | -.00113 | .00208   | -.00207 | .01097   | .0045   | .00020  | .89897   |

Sample Name: CCB08      Acquired: 3/27/2019 20:35:30      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CCB14769      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 50.807 |
| Stddev | 46.832   |
| %RSD   | 92.177   |

|    |         |
|----|---------|
| #1 | -2.5670 |
| #2 | 69.964  |
| #3 | 85.023  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2931.0 | 53630. | 3075.3 | 43.300 | 4071.0 |
| Stddev    | 5.6    | 224.   | 20.0   | 1.720  | 11.0   |
| %RSD      | .19044 | .41846 | .64969 | 3.9728 | .26925 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2929.2 | 53813. | 3071.8 | 42.558 | 4076.1 |
| #2 | 2926.5 | 53698. | 3057.2 | 45.267 | 4058.4 |
| #3 | 2937.2 | 53380. | 3096.7 | 42.075 | 4078.4 |

Sample Name: K2103-01      Acquired: 3/27/2019 20:39:59      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00846 | .00006 | .02917 | .00488 | .01524 | .60570 | .25246 |
| Stddev | .00159 | .00101 | .00008 | .00391 | .00155 | .01343 | .00091 |
| %RSD   | 18.813 | 1670.5 | .28514 | 80.031 | 10.174 | 2.2180 | .35978 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00781 | -.00109 | .02909 | .00382 | .01676 | .59406 | .25326 |
| #2 | .01028 | .00047  | .02915 | .00921 | .01367 | .62040 | .25266 |
| #3 | .00730 | .00081  | .02926 | .00162 | .01528 | .60263 | .25147 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00080 | .00068 | 62.014 | .00092 | .00403 | .02894 | 9.0693 |
| Stddev | .00001  | .00006 | .037   | .00027 | .00006 | .00014 | .0177  |
| %RSD   | 1.5836  | 8.3005 | .05927 | 29.610 | 1.3832 | .48245 | .19473 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00079 | .00063 | 62.057 | .00100 | .00404 | .02898 | 9.0491 |
| #2 | -.00081 | .00068 | 61.997 | .00114 | .00408 | .02906 | 9.0816 |
| #3 | -.00081 | .00074 | 61.989 | .00061 | .00397 | .02879 | 9.0773 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .59993 | 20.368 | .01223 | -.00303 | 60.489 | .00191 | .24689 |
| Stddev | .00071 | .184   | .00020 | .00040  | .344   | .00067 | .00097 |
| %RSD   | .11839 | .90552 | 1.6358 | 13.141  | .56947 | 35.027 | .39227 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .59911 | 20.579 | .01203 | -.00343 | 60.886 | .00114 | .24693 |
| #2 | .60024 | 20.289 | .01243 | -.00302 | 60.322 | .00219 | .24591 |
| #3 | .60042 | 20.236 | .01224 | -.00263 | 60.260 | .00239 | .24784 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 7.4970 | .01511 | .12885 | F 10.261 | 7.7514 | .01226 | .02632 |
| Stddev | .0375  | .00033 | .02893 | .087     | .0209  | .00081 | .00078 |
| %RSD   | .50023 | 2.2020 | 22.451 | .85150   | .26937 | 6.5862 | 2.9778 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 7.5103 | .01515 | .11493 | 10.160 | 7.7507 | .01287 | .02685 |
| #2 | 7.4546 | .01475 | .16210 | 10.319 | 7.7309 | .01257 | .02669 |
| #3 | 7.5260 | .01541 | .10951 | 10.303 | 7.7726 | .01135 | .02542 |

Sample Name: K2103-01      Acquired: 3/27/2019 20:39:59      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C02-SETTL Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02589 | .2817  | .26761 | 1.7653 | F<.00000 |
| Stddev | .00122 | .0029  | .00074 | .2564  | 8.4441   |
| %RSD   | 4.7143 | 1.041  | .27737 | 14.523 | 28.083   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .02727 | .2783 | .26839 | 1.9660 | -28.708 |
| #2 | .02542 | .2831 | .26691 | 1.8534 | -22.387 |
| #3 | .02497 | .2837 | .26755 | 1.4765 | -39.110 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2804.6 | 51814. | 3123.4 | 43.363 | 3739.6 |
| Stddev    | 3.7    | 74.    | 2.1    | .459   | 5.1    |
| %RSD      | .13268 | .14200 | .06570 | 1.0590 | .13707 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2800.5 | 51765. | 3123.1 | 42.847 | 3737.6 |
| #2 | 2805.6 | 51779. | 3125.6 | 43.726 | 3745.5 |
| #3 | 2807.7 | 51899. | 3121.5 | 43.518 | 3735.8 |

Sample Name: K2103-02      Acquired: 3/27/2019 20:44:21      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00879 | .00050 | .02830 | .00128 | -.00041 | .93722 | .22019 |
| Stddev | .00069 | .00038 | .00051 | .00250 | .00183  | .00785 | .00272 |
| %RSD   | 7.8280 | 76.698 | 1.7937 | 195.74 | 446.61  | .83753 | 1.2341 |

|    |        |        |        |         |         |        |        |
|----|--------|--------|--------|---------|---------|--------|--------|
| #1 | .00955 | .00054 | .02803 | .00370  | -.00129 | .93164 | .22281 |
| #2 | .00820 | .00086 | .02798 | -.00129 | .00170  | .94620 | .22038 |
| #3 | .00862 | .00010 | .02888 | .00142  | -.00164 | .93383 | .21739 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00074 | .00054 | 54.189 | .00167 | .00351 | .02890 | 7.5351 |
| Stddev | .00004  | .00011 | .245   | .00016 | .00025 | .00038 | .0148  |
| %RSD   | 5.3460  | 20.151 | .45279 | 9.7674 | 7.2041 | 1.3312 | .19582 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00078 | .00060 | 54.027 | .00178 | .00345 | .02934 | 7.5520 |
| #2 | -.00071 | .00041 | 54.068 | .00148 | .00379 | .02868 | 7.5280 |
| #3 | -.00072 | .00060 | 54.471 | .00175 | .00330 | .02867 | 7.5251 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .50222 | 17.855 | .01204 | -.00293 | 54.070 | .00250 | .22715 |
| Stddev | .00081 | .168   | .00019 | .00055  | .492   | .00025 | .00035 |
| %RSD   | .16120 | .94176 | 1.5626 | 18.724  | .90968 | 9.8448 | .15566 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .50308 | 18.046 | .01199 | -.00356 | 54.523 | .00278 | .22721 |
| #2 | .50212 | 17.787 | .01225 | -.00260 | 54.139 | .00233 | .22676 |
| #3 | .50147 | 17.731 | .01189 | -.00261 | 53.547 | .00239 | .22746 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 6.5272 | .00686 | .12729 | 9.0104 | 7.1448 | -.00145 | .03696 |
| Stddev | .0451  | .00022 | .01866 | .0043  | .0910  | .00053  | .00041 |
| %RSD   | .69139 | 3.1874 | 14.658 | .04811 | 1.2737 | 36.574  | 1.0998 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 6.5784 | .00711 | .11152 | 9.0121 | 7.0541 | -.00203 | .03649 |
| #2 | 6.5099 | .00671 | .14789 | 9.0136 | 7.1443 | -.00132 | .03724 |
| #3 | 6.4933 | .00677 | .12246 | 9.0055 | 7.2361 | -.00099 | .03715 |



Sample Name: K2103-02      Acquired: 3/27/2019 20:44:21      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02180 | .2502  | .23670 | 1.3750 | F<.00000 |
| Stddev | .00194 | .0028  | .00201 | .2935  | 19.359   |
| %RSD   | 8.8925 | 1.139  | .84913 | 21.347 | 660.97   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .02342 | .2481 | .23868 | 1.0930 | -25.266 |
| #2 | .02233 | .2490 | .23466 | 1.3533 | 7.5143  |
| #3 | .01966 | .2534 | .23676 | 1.6788 | 8.9657  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2835.9 | 52282. | 3160.5 | 43.294 | 3821.1 |
| Stddev    | 6.1    | 220.   | 30.3   | 1.064  | 5.4    |
| %RSD      | .21575 | .42032 | .95926 | 2.4579 | .14122 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2841.7 | 52029. | 3184.3 | 43.895 | 3815.9 |
| #2 | 2829.5 | 52389. | 3170.7 | 43.922 | 3820.8 |
| #3 | 2836.5 | 52427. | 3126.4 | 42.065 | 3826.7 |

Sample Name: K2103-03      Acquired: 3/27/2019 20:48:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |          |         |         |        |        |         |
|--------|----------|---------|----------|---------|---------|--------|--------|---------|
| Elem   | As1890   | Tl1908  | Pb2203   | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .01120   | -.00102 | .03801   | .00053  | -.00040 | .88379 | .93792 | -.00010 |
| Stddev | .00213   | .00126  | .00104   | .00316  | .00209  | .02955 | .00436 | .00007  |
| %RSD   | 19.001   | 123.83  | 2.7280   | 597.82  | 516.88  | 3.3434 | .46475 | 63.281  |
| #1     | .00883   | -.00151 | .03829   | .00029  | -.00205 | .86240 | .93599 | -.00018 |
| #2     | .01186   | -.00197 | .03686   | .00380  | -.00111 | .91751 | .94291 | -.00004 |
| #3     | .01293   | .00041  | .03888   | -.00250 | .00195  | .87148 | .93486 | -.00009 |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00088   | 345.49  | .00017   | .00469  | .01690  | 1.5882 | 1.3807 | 38.236  |
| Stddev | .00003   | 2.85    | .00059   | .00004  | .00030  | .0067  | .0015  | .400    |
| %RSD   | 3.2056   | .82577  | 353.56   | .90369  | 1.7728  | .42185 | .11145 | 1.0464  |
| #1     | .00088   | 347.41  | .00085   | .00471  | .01699  | 1.5957 | 1.3815 | 38.270  |
| #2     | .00091   | 342.21  | -.00025  | .00473  | .01715  | 1.5861 | 1.3790 | 38.618  |
| #3     | .00085   | 346.85  | -.00009  | .00465  | .01657  | 1.5828 | 1.3818 | 37.820  |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00366   | -.01024 | F 3067.5 | .00071  | .10454  | 40.571 | .02848 | .15050  |
| Stddev | .00034   | .00061  | 86.7     | .00088  | .00061  | .136   | .00031 | .02755  |
| %RSD   | 9.3213   | 5.9621  | 2.8269   | 123.56  | .57944  | .33616 | 1.0874 | 18.306  |
| #1     | .00386   | -.00996 | 3165.2   | -.00024 | .10454  | 40.424 | .02813 | .18007  |
| #2     | .00385   | -.00982 | 3037.6   | .00087  | .10394  | 40.694 | .02856 | .14589  |
| #3     | .00326   | -.01094 | 2999.7   | .00151  | .10516  | 40.594 | .02874 | .12555  |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | F 72.059 | 8.2228  | -.02232  | .03643  | .04139  | .1749  | 1.6960 | 7.7221  |
| Stddev | .514     | .0959   | .00115   | .00224  | .00445  | .0036  | .0121  | .2520   |
| %RSD   | .71309   | 1.1659  | 5.1738   | 6.1421  | 10.752  | 2.042  | .71369 | 3.2634  |
| #1     | 71.539   | 8.2919  | -.02345  | .03747  | .03831  | .1708  | 1.7068 | 7.9520  |
| #2     | 72.566   | 8.1134  | -.02114  | .03386  | .03936  | .1771  | 1.6829 | 7.4527  |
| #3     | 72.073   | 8.2631  | -.02237  | .03796  | .04649  | .1769  | 1.6983 | 7.7615  |

Sample Name: K2103-03      Acquired: 3/27/2019 20:48:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BOX Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 240.77 |
| Stddev | 14.94    |
| %RSD   | 6.2042   |

|    |        |
|----|--------|
| #1 | 229.36 |
| #2 | 257.68 |
| #3 | 235.27 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2383.3 | 43095. | 2915.8 | 39.226 | 2825.3 |
| Stddev    | 19.3   | 42.    | 32.2   | .283   | 9.2    |
| %RSD      | .81033 | .09851 | 1.1034 | .72108 | .32598 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2403.9 | 43101. | 2900.4 | 39.418 | 2835.4 |
| #2 | 2380.3 | 43133. | 2952.8 | 39.359 | 2817.4 |
| #3 | 2365.6 | 43049. | 2894.3 | 38.901 | 2823.2 |

Sample Name: K2103-04      Acquired: 3/27/2019 20:53:14      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BO      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |          |         |         |        |        |         |
|--------|----------|---------|----------|---------|---------|--------|--------|---------|
| Elem   | As1890   | Tl1908  | Pb2203   | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .01332   | -.00106 | .05345   | .00053  | -.00101 | 1.9018 | .94122 | -.00060 |
| Stddev | .00092   | .00229  | .00079   | .00260  | .00126  | .0331  | .00492 | .00002  |
| %RSD   | 6.9113   | 214.89  | 1.4746   | 490.52  | 124.50  | 1.7411 | .52309 | 4.0637  |
| #1     | .01236   | -.00006 | .05269   | -.00072 | -.00112 | 1.9304 | .94517 | -.00063 |
| #2     | .01339   | .00055  | .05427   | .00352  | .00030  | 1.8655 | .94278 | -.00059 |
| #3     | .01420   | -.00368 | .05340   | -.00121 | -.00221 | 1.9094 | .93571 | -.00058 |
| Elem   | Cd2265   | Ca3736  | Cr2677   | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00090   | 330.73  | .00033   | .01587  | .02408  | 6.3509 | 2.4117 | 36.332  |
| Stddev | .00013   | 1.58    | .00055   | .00033  | .00026  | .0441  | .0120  | .192    |
| %RSD   | 14.128   | .47660  | 166.99   | 2.1055  | 1.0850  | .69445 | .49741 | .52901  |
| #1     | .00101   | 331.82  | -.00023  | .01625  | .02438  | 6.3786 | 2.4228 | 36.412  |
| #2     | .00094   | 331.44  | .00036   | .01573  | .02390  | 6.3741 | 2.4132 | 36.472  |
| #3     | .00076   | 328.92  | .00086   | .01562  | .02396  | 6.3000 | 2.3990 | 36.113  |
| Elem   | Ni2316   | Ag3280  | Na5895   | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .01303   | -.01021 | F 2709.0 | -.00075 | .20094  | 39.945 | .02583 | .13367  |
| Stddev | .00066   | .00075  | 81.7     | .00040  | .00050  | .120   | .00086 | .03093  |
| %RSD   | 5.0936   | 7.3585  | 3.0162   | 53.025  | .24690  | .30093 | 3.3452 | 23.138  |
| #1     | .01372   | -.01008 | 2768.0   | -.00119 | .20151  | 39.988 | .02681 | .15213  |
| #2     | .01297   | -.01102 | 2743.3   | -.00042 | .20065  | 40.038 | .02519 | .09797  |
| #3     | .01240   | -.00953 | 2615.7   | -.00064 | .20066  | 39.810 | .02549 | .15092  |
| Elem   | S_1820   | Si2881  | Sn1899   | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm      | ppm     | ppm      | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | F 73.680 | 9.3623  | -.02357  | .06513  | .04618  | .1646  | 1.6357 | 7.5872  |
| Stddev | .369     | .0331   | .00110   | .00192  | .00032  | .0028  | .0042  | .2483   |
| %RSD   | .50035   | .35319  | 4.6885   | 2.9542  | .70171  | 1.697  | .25582 | 3.2721  |
| #1     | 73.609   | 9.3526  | -.02398  | .06314  | .04632  | .1677  | 1.6386 | 7.8351  |
| #2     | 74.079   | 9.3992  | -.02441  | .06526  | .04581  | .1637  | 1.6377 | 7.5878  |
| #3     | 73.352   | 9.3352  | -.02232  | .06698  | .04641  | .1623  | 1.6309 | 7.3386  |

Sample Name: K2103-04      Acquired: 3/27/2019 20:53:14      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SHORE-RD-BO Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 233.06 |
| Stddev | 20.71    |
| %RSD   | 8.8856   |

|    |        |
|----|--------|
| #1 | 217.46 |
| #2 | 225.17 |
| #3 | 256.55 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2394.4 | 43197. | 2926.6 | 39.758 | 2835.3 |
| Stddev    | 15.0   | 317.   | 13.0   | 1.713  | 4.4    |
| %RSD      | .62494 | .73320 | .44267 | 4.3073 | .15377 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2378.0 | 42983. | 2926.3 | 39.483 | 2836.6 |
| #2 | 2398.1 | 43047. | 2913.8 | 41.592 | 2830.4 |
| #3 | 2407.3 | 43561. | 2939.7 | 38.200 | 2838.9 |

Sample Name: K2103-05      Acquired: 3/27/2019 20:57:44      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .04659 | -.00084 | .01493 | .00528 | -.00175 | .49234 | .59782 |
| Stddev | .00442 | .00020  | .00006 | .00065 | .00209  | .02107 | .00676 |
| %RSD   | 9.4878 | 23.534  | .43480 | 12.357 | 119.19  | 4.2801 | 1.1307 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .05160 | -.00085 | .01494 | .00455 | -.00004 | .51667 | .60522 |
| #2 | .04494 | -.00103 | .01499 | .00581 | -.00114 | .48060 | .59197 |
| #3 | .04323 | -.00064 | .01486 | .00549 | -.00409 | .47977 | .59628 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00131 | -.00030 | 69.851 | .00168 | .00153 | .02013 | 15.212 |
| Stddev | .00011  | .00003  | .526   | .00058 | .00017 | .00014 | .065   |
| %RSD   | 8.6002  | 8.4575  | .75232 | 34.593 | 11.001 | .68398 | .42398 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00142 | -.00027 | 70.445 | .00235 | .00137 | .01997 | 15.244 |
| #2 | -.00120 | -.00031 | 69.445 | .00142 | .00151 | .02022 | 15.138 |
| #3 | -.00131 | -.00031 | 69.665 | .00128 | .00171 | .02019 | 15.255 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .67502 | 24.092 | .00903 | -.00353 | 38.506 | .00396 | .34436 |
| Stddev | .00180 | .165   | .00024 | .00115  | .692   | .00056 | .00224 |
| %RSD   | .26666 | .68630 | 2.6181 | 32.584  | 1.7972 | 14.188 | .64978 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .67699 | 24.283 | .00878 | -.00479 | 39.287 | .00355 | .34671 |
| #2 | .67347 | 23.989 | .00905 | -.00328 | 38.260 | .00460 | .34411 |
| #3 | .67459 | 24.005 | .00925 | -.00253 | 37.970 | .00373 | .34225 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 8.7339 | .00814 | .12534 | 5.4583 | 7.8308 | .00100 | .02513 |
| Stddev | .1035  | .00052 | .01510 | .0303  | .0201  | .00103 | .00071 |
| %RSD   | 1.1844 | 6.4381 | 12.050 | .55568 | .25630 | 102.96 | 2.8052 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 8.8366 | .00860 | .14230 | 5.4888 | 7.8080 | .00019 | .02592 |
| #2 | 8.7356 | .00824 | .11333 | 5.4281 | 7.8457 | .00216 | .02457 |
| #3 | 8.6297 | .00757 | .12039 | 5.4581 | 7.8388 | .00066 | .02491 |

Sample Name: K2103-05      Acquired: 3/27/2019 20:57:44      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .01390 | .5980  | .22432 | 1.2534 | F<.00000 |
| Stddev    | .00184 | .0028  | .00195 | .1791  | 14.722   |
| %RSD      | 13.224 | .4674  | .87128 | 14.291 | 14.105   |
| #1        | .01427 | .5967  | .22656 | 1.1594 | -88.328  |
| #2        | .01191 | .5960  | .22344 | 1.4599 | -107.52  |
| #3        | .01553 | .6012  | .22296 | 1.1409 | -117.26  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2825.5 | 52247. | 3153.8 | 42.544 | 3764.8   |
| Stddev    | 5.7    | 275.   | 7.0    | 1.594  | 23.6     |
| %RSD      | .20246 | .52541 | .22329 | 3.7465 | .62746   |
| #1        | 2819.1 | 52019. | 3160.5 | 43.803 | 3747.9   |
| #2        | 2827.1 | 52552. | 3154.3 | 43.078 | 3754.8   |
| #3        | 2830.2 | 52171. | 3146.4 | 40.752 | 3791.8   |

Sample Name: K2103-06      Acquired: 3/27/2019 21:02:05      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03817 | -.00049 | .03600 | .00160 | .01254 | .45794 | .11337 |
| Stddev | .00197 | .00069  | .00021 | .00360 | .00148 | .01556 | .00282 |
| %RSD   | 5.1485 | 140.33  | .57413 | 224.70 | 11.769 | 3.3984 | 2.4892 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .03803 | -.00072 | .03596 | -.00144 | .01123 | .44292 | .11105 |
| #2 | .04020 | .00028  | .03581 | .00066  | .01224 | .45691 | .11254 |
| #3 | .03628 | -.00103 | .03622 | .00558  | .01414 | .47399 | .11651 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00100 | -.00006 | 59.147 | .00458 | .00194 | .01842 | 10.697 |
| Stddev | .00017  | .00000  | .348   | .00012 | .00027 | .00049 | .028   |
| %RSD   | 17.521  | 4.3421  | .58869 | 2.5163 | 14.081 | 2.6499 | .26515 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00117 | -.00006 | 59.328 | .00458 | .00226 | .01887 | 10.665 |
| #2 | -.00082 | -.00005 | 59.368 | .00447 | .00178 | .01790 | 10.704 |
| #3 | -.00099 | -.00006 | 58.746 | .00470 | .00179 | .01848 | 10.721 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .52980 | 23.015 | .01027 | -.00232 | 37.246 | .00290 | .19679 |
| Stddev | .00029 | .568   | .00046 | .00106  | .308   | .00014 | .00185 |
| %RSD   | .05500 | 2.4670 | 4.5041 | 45.664  | .82733 | 4.8038 | .93856 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .52959 | 22.621 | .00979 | -.00284 | 37.162 | .00305 | .19736 |
| #2 | .52967 | 22.759 | .01030 | -.00303 | 36.989 | .00277 | .19828 |
| #3 | .53013 | 23.666 | .01071 | -.00110 | 37.588 | .00289 | .19472 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 7.8237 | .00707 | .11303 | 5.1225 | 6.9771 | -.00012 | .02034 |
| Stddev | .1574  | .00033 | .01116 | .0424  | .1915  | .00121  | .00127 |
| %RSD   | 2.0120 | 4.7307 | 9.8726 | .82724 | 2.7440 | 998.99  | 6.2221 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 7.7721 | .00693 | .11348 | 5.1355 | 7.0952 | -.00124 | .02157 |
| #2 | 7.6986 | .00745 | .12396 | 5.1568 | 7.0799 | .00116  | .02040 |
| #3 | 8.0005 | .00683 | .10165 | 5.0751 | 6.7562 | -.00028 | .01904 |



Sample Name: K2103-06      Acquired: 3/27/2019 21:02:05      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C05-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .01112 | .5261  | .18706 | .98263 | F<.00000 |
| Stddev    | .00040 | .0037  | .00126 | .28614 | 20.714   |
| %RSD      | 3.6302 | .6953  | .67188 | 29.120 | 35.249   |
| #1        | .01123 | .5297  | .18850 | .73936 | -38.426  |
| #2        | .01068 | .5263  | .18652 | .91062 | -79.835  |
| #3        | .01146 | .5224  | .18617 | 1.2979 | -58.034  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2842.6 | 52429. | 3183.8 | 42.935 | 3801.3   |
| Stddev    | 7.9    | 273.   | 70.1   | 2.789  | 14.8     |
| %RSD      | .27948 | .52016 | 2.2003 | 6.4970 | .38850   |
| #1        | 2834.5 | 52581. | 3138.6 | 42.324 | 3796.9   |
| #2        | 2842.9 | 52592. | 3148.3 | 40.501 | 3789.2   |
| #3        | 2850.4 | 52114. | 3264.5 | 45.979 | 3817.7   |

Sample Name: K2103-07      Acquired: 3/27/2019 21:06:27      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |         |        |        |         |
|--------|--------|---------|---------|---------|---------|--------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00611 | -.00012 | .01772  | .00144  | -.00288 | .64365 | .21895 | -.00076 |
| Stddev | .00154 | .00070  | .00082  | .00411  | .00151  | .01146 | .00101 | .00008  |
| %RSD   | 25.188 | 573.51  | 4.5995  | 284.94  | 52.356  | 1.7809 | .45941 | 10.811  |
| #1     | .00778 | -.00091 | .01752  | .00554  | -.00121 | .63772 | .21943 | -.00082 |
| #2     | .00474 | .00010  | .01703  | .00147  | -.00415 | .63636 | .21779 | -.00067 |
| #3     | .00582 | .00044  | .01862  | -.00268 | -.00328 | .65686 | .21962 | -.00080 |
| Elem   | Cd2265 | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00052 | 53.915  | .00074  | .00362  | .02460  | 7.9990 | .52116 | 17.892  |
| Stddev | .00005 | .056    | .00024  | .00025  | .00044  | .0233  | .00132 | .140    |
| %RSD   | 9.6682 | .10401  | 32.504  | 6.8483  | 1.8085  | .29110 | .25238 | .78507  |
| #1     | .00055 | 53.888  | .00100  | .00378  | .02496  | 8.0123 | .52223 | 18.054  |
| #2     | .00055 | 53.878  | .00071  | .00334  | .02475  | 7.9721 | .51970 | 17.801  |
| #3     | .00046 | 53.979  | .00052  | .00375  | .02410  | 8.0125 | .52156 | 17.822  |
| Elem   | Ni2316 | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .01048 | -.00226 | 52.116  | .00117  | .18979  | 6.5186 | .00663 | .09574  |
| Stddev | .00074 | .00082  | .344    | .00014  | .00158  | .0209  | .00019 | .02688  |
| %RSD   | 7.0475 | 36.381  | .66075  | 12.357  | .83123  | .32020 | 2.9165 | 28.077  |
| #1     | .01124 | -.00294 | 52.486  | .00100  | .19060  | 6.5415 | .00673 | .12351  |
| #2     | .00977 | -.00135 | 52.057  | .00127  | .19079  | 6.5137 | .00676 | .06985  |
| #3     | .01043 | -.00248 | 51.805  | .00124  | .18797  | 6.5006 | .00641 | .09385  |
| Elem   | S_1820 | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | 8.9118 | 6.8408  | -.00169 | .02388  | .02301  | .2586  | .23243 | 1.0726  |
| Stddev | .0560  | .0545   | .00037  | .00036  | .00095  | .0014  | .00076 | .3335   |
| %RSD   | .62837 | .79669  | 22.001  | 1.4938  | 4.1406  | .5331  | .32734 | 31.087  |
| #1     | 8.9041 | 6.8063  | -.00210 | .02420  | .02411  | .2598  | .23265 | 1.2766  |
| #2     | 8.9712 | 6.8125  | -.00139 | .02349  | .02245  | .2590  | .23306 | .68783  |
| #3     | 8.8600 | 6.9036  | -.00156 | .02394  | .02246  | .2571  | .23159 | 1.2534  |

Sample Name: K2103-07      Acquired: 3/27/2019 21:06:27      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C02-SETTL Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      6.2778  
 Stddev      38.473  
 %RSD      612.84

#1      -10.190  
 #2      -21.220  
 #3      50.243

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2848.9 | 52495. | 3174.2 | 43.263 | 3828.7 |
| Stddev    | 7.5    | 320.   | 21.7   | .589   | 8.0    |
| %RSD      | .26299 | .61000 | .68444 | 1.3616 | .20908 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2854.0 | 52281. | 3176.5 | 43.812 | 3837.6 |
| #2 | 2840.3 | 52863. | 3194.7 | 43.336 | 3822.2 |
| #3 | 2852.5 | 52340. | 3151.4 | 42.640 | 3826.3 |

Sample Name: K2103-08      Acquired: 3/27/2019 21:10:49      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .00791 | -.00099 | .02557 | .00166 | -.00096 | .82024 | .21778 |
| Stddev | .00402 | .00104  | .00089 | .00261 | .00143  | .01293 | .00271 |
| %RSD   | 50.759 | 104.92  | 3.4990 | 157.44 | 148.88  | 1.5763 | 1.2460 |

|    |        |         |        |         |         |        |        |
|----|--------|---------|--------|---------|---------|--------|--------|
| #1 | .01210 | -.00154 | .02542 | .00264  | .00038  | .81863 | .22053 |
| #2 | .00410 | .00021  | .02476 | -.00130 | -.00080 | .83389 | .21769 |
| #3 | .00754 | -.00165 | .02653 | .00364  | -.00246 | .80818 | .21511 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00062 | .00060 | 54.488 | .00091 | .00339 | .02849 | 7.3769 |
| Stddev | .00004  | .00005 | .160   | .00012 | .00007 | .00011 | .0353  |
| %RSD   | 6.5904  | 8.3377 | .29299 | 13.351 | 1.9278 | .39620 | .47793 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00065 | .00066 | 54.415 | .00088 | .00338 | .02852 | 7.4166 |
| #2 | -.00057 | .00056 | 54.379 | .00081 | .00332 | .02836 | 7.3493 |
| #3 | -.00063 | .00059 | 54.672 | .00105 | .00345 | .02858 | 7.3647 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .50063 | 17.934 | .01203 | -.00303 | 54.038 | .00242 | .21327 |
| Stddev | .00108 | .134   | .00034 | .00111  | .659   | .00005 | .00081 |
| %RSD   | .21556 | .74656 | 2.8423 | 36.743  | 1.2201 | 2.2040 | .37908 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .50137 | 18.085 | .01208 | -.00260 | 54.769 | .00245 | .21241 |
| #2 | .49940 | 17.831 | .01234 | -.00219 | 53.860 | .00236 | .21339 |
| #3 | .50113 | 17.886 | .01166 | -.00429 | 53.487 | .00245 | .21401 |

|        |        |        |        |        |        |         |        |
|--------|--------|--------|--------|--------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | 6.4329 | .00657 | .12022 | 8.9424 | 7.0505 | -.00170 | .03240 |
| Stddev | .0432  | .00042 | .01010 | .0533  | .0842  | .00135  | .00192 |
| %RSD   | .67118 | 6.4072 | 8.4000 | .59565 | 1.1940 | 79.327  | 5.9139 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 6.4577 | .00649 | .12108 | 8.8815 | 7.0035 | -.00191 | .03284 |
| #2 | 6.4579 | .00620 | .12986 | 8.9656 | 7.0003 | -.00292 | .03030 |
| #3 | 6.3830 | .00703 | .10972 | 8.9801 | 7.1477 | -.00026 | .03406 |

Sample Name: K2103-08      Acquired: 3/27/2019 21:10:49      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: MH-C02-SETTL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .02329 | .2410  | .23738 | .67416 | F<.00000 |
| Stddev | .00055 | .0024  | .00188 | .31894 | 26.028   |
| %RSD   | 2.3787 | 1.015  | .79208 | 47.310 | 707.86   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .02365 | .2392 | .23954 | .87370 | -33.520 |
| #2 | .02265 | .2438 | .23607 | .30632 | 8.1547  |
| #3 | .02356 | .2400 | .23655 | .84247 | 14.334  |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2861.7 | 52610. | 3180.9 | 44.537 | 3869.3 |
| Stddev    | 1.1    | 221.   | 26.0   | .742   | 29.3   |
| %RSD      | .03873 | .42012 | .81829 | 1.6664 | .75699 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2861.4 | 52355. | 3192.9 | 44.934 | 3896.3 |
| #2 | 2860.7 | 52747. | 3198.8 | 44.995 | 3873.4 |
| #3 | 2862.9 | 52728. | 3151.0 | 43.681 | 3838.1 |

Sample Name: K2105-01      Acquired: 3/27/2019 21:15:10      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: NJ-WATER      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .10358 | .00392 | .06620 | .04913 | -.00188 | 17.748 | .16681 |
| Stddev | .00090 | .00189 | .00051 | .00196 | .00177  | .157   | .00140 |
| %RSD   | .87266 | 48.312 | .77684 | 3.9905 | 94.003  | .88419 | .84207 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .10409 | .00522 | .06565 | .04772 | -.00293 | 17.602 | .16818 |
| #2 | .10253 | .00479 | .06666 | .04829 | .00016  | 17.914 | .16687 |
| #3 | .10411 | .00175 | .06628 | .05137 | -.00288 | 17.729 | .16538 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00798 | -.00485 | 6.9353 | .06314 | .03747 | .21075 | 129.23 |
| Stddev | .00014  | .00018  | .0316  | .00022 | .00010 | .00175 | .82    |
| %RSD   | 1.7160  | 3.7615  | .45486 | .34637 | .26164 | .83000 | .63447 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00786 | -.00490 | 6.9412 | .06312 | .03738 | .20928 | 129.48 |
| #2 | -.00813 | -.00501 | 6.9013 | .06337 | .03757 | .21029 | 129.89 |
| #3 | -.00797 | -.00465 | 6.9635 | .06293 | .03745 | .21268 | 128.31 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .65073 | 7.1917 | .04462 | -.00846 | 2.8439 | .18873 | .20486 |
| Stddev | .00044 | .0877  | .00090 | .00022  | .0618  | .00170 | .00102 |
| %RSD   | .06793 | 1.2188 | 2.0173 | 2.6018  | 2.1731 | .90251 | .49999 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .65119 | 7.1024 | .04365 | -.00824 | 2.9121 | .18935 | .20474 |
| #2 | .65030 | 7.2776 | .04544 | -.00868 | 2.8278 | .19004 | .20391 |
| #3 | .65071 | 7.1951 | .04476 | -.00845 | 2.7917 | .18680 | .20595 |

|        |        |         |        |          |        |         |        |
|--------|--------|---------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 4.2917 | -.00084 | .06440 | F 69.786 | 1.9870 | -.02223 | .56284 |
| Stddev | .0409  | .00038  | .01400 | .245     | .0320  | .00020  | .00453 |
| %RSD   | .95367 | 45.299  | 21.743 | .35159   | 1.6093 | .90074  | .80427 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | 4.3318 | -.00101 | .07982 | 70.069 | 2.0158 | -.02201 | .56343 |
| #2 | 4.2933 | -.00112 | .06091 | 69.653 | 1.9926 | -.02231 | .55804 |
| #3 | 4.2500 | -.00041 | .05248 | 69.636 | 1.9525 | -.02238 | .56704 |

Sample Name: K2105-01      Acquired: 3/27/2019 21:15:10      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: NJ-WATER      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .05267 | .8814  | -.06700 | <.00000 | F<.00000 |
| Stddev | .00155 | .0015  | .00101  | .39575  | 34.858   |
| %RSD   | 2.9485 | .1699  | 1.5110  | 11.884  | .85053   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .05288 | .8828 | -.06742 | -3.5485 | -4118.9 |
| #2 | .05410 | .8798 | -.06774 | -3.5685 | -4058.1 |
| #3 | .05102 | .8815 | -.06585 | -2.8733 | -4118.1 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3101.1 | 57105. | 3426.8 | 46.700 | 4027.3 |
| Stddev    | 7.2    | 119.   | 29.7   | 1.534  | 5.3    |
| %RSD      | .23359 | .20787 | .86568 | 3.2851 | .13062 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3100.2 | 57055. | 3393.3 | 48.083 | 4027.1 |
| #2 | 3108.7 | 57020. | 3449.7 | 46.967 | 4032.6 |
| #3 | 3094.3 | 57241. | 3437.5 | 45.050 | 4022.1 |

Sample Name: K2107-13      Acquired: 3/27/2019 21:19:38      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-7      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .12183 | .01571 | .07003 | .12727 | -.00623 | 244.56 | .47643 |
| Stddev | .00334 | .00155 | .00132 | .00354 | .00353  | 1.30   | .00250 |
| %RSD   | 2.7412 | 9.8571 | 1.8888 | 2.7813 | 56.653  | .53113 | .52407 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .11834 | .01702 | .06851 | .12415 | -.00326 | 243.48 | .47506 |
| #2 | .12500 | .01400 | .07079 | .12655 | -.00530 | 244.20 | .47492 |
| #3 | .12215 | .01610 | .07081 | .13112 | -.01013 | 246.00 | .47932 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01894 | -.00580 | 10.947 | .45711 | .12444 | .50378 | 344.57 |
| Stddev | .00055  | .00017  | .134   | .00273 | .00021 | .00045 | .82    |
| %RSD   | 2.8838  | 2.8592  | 1.2251 | .59822 | .16871 | .08903 | .23836 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.01934 | -.00592 | 10.881 | .45396 | .12443 | .50335 | 345.52 |
| #2 | -.01917 | -.00561 | 10.859 | .45854 | .12465 | .50375 | 344.13 |
| #3 | -.01832 | -.00587 | 11.101 | .45883 | .12423 | .50424 | 344.06 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.2339 | 14.674 | .08867 | -.03059 | 1.7668 | .72334 | .31648 |
| Stddev | .0055  | .095   | .00026 | .00062  | .0400  | .00358 | .00026 |
| %RSD   | .16981 | .64995 | .29530 | 2.0149  | 2.2619 | .49491 | .08312 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.2279 | 14.599 | .08868 | -.03005 | 1.8108 | .72001 | .31659 |
| #2 | 3.2350 | 14.640 | .08840 | -.03126 | 1.7568 | .72712 | .31668 |
| #3 | 3.2388 | 14.781 | .08892 | -.03044 | 1.7327 | .72289 | .31619 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.185 | -.00114 | .06072 | 1.9642 | 2.1973 | .01491 | 1.3360 |
| Stddev | .050   | .00032  | .01873 | .0017  | .0120  | .00149 | .0054  |
| %RSD   | .49316 | 27.836  | 30.850 | .08440 | .54427 | 9.9967 | .40491 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | 10.241 | -.00077 | .04065 | 1.9660 | 2.1849 | .01663 | 1.3357 |
| #2 | 10.171 | -.00134 | .06378 | 1.9627 | 2.2087 | .01416 | 1.3415 |
| #3 | 10.143 | -.00130 | .07774 | 1.9640 | 2.1985 | .01394 | 1.3307 |



Sample Name: K2107-13      Acquired: 3/27/2019 21:19:38      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TP-7      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .11617 | 5.018  | -.32632 | <.00000 | F<.00000 |
| Stddev | .00067 | .006   | .00064  | .21637  | 95.662   |
| %RSD   | .57867 | .1251  | .19598  | 4.6567  | .50655   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .11605 | 5.011 | -.32703 | -4.7924 | -18846. |
| #2 | .11690 | 5.020 | -.32617 | -4.7490 | -18994. |
| #3 | .11557 | 5.022 | -.32578 | -4.3979 | -18815. |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3228.0 | 58207. | 3609.6 | 44.032 | 3700.5 |
| Stddev    | 3.1    | 101.   | 8.7    | 1.888  | 5.4    |
| %RSD      | .09697 | .17287 | .24104 | 4.2884 | .14610 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3226.2 | 58277. | 3600.1 | 42.141 | 3694.6 |
| #2 | 3226.1 | 58252. | 3617.2 | 44.037 | 3701.6 |
| #3 | 3231.6 | 58092. | 3611.6 | 45.917 | 3705.2 |

Sample Name: CCV09      Acquired: 3/27/2019 21:33:01      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.9651 | 4.9411 | 4.7476 | 5.1161 | 5.0008 | 9.6866 | 9.9881 | .25358   |
| Stddev | .0266  | .0124  | .0034  | .0246  | .0096  | .0864  | .0111  | .00047   |
| %RSD   | .53608 | .25109 | .07099 | .48177 | .19207 | .89198 | .11118 | .18522   |
| #1     | 4.9383 | 4.9540 | 4.7438 | 5.1019 | 4.9948 | 9.5884 | 9.9755 | .25372   |
| #2     | 4.9916 | 4.9293 | 4.7504 | 5.1445 | 5.0119 | 9.7201 | 9.9921 | .25306   |
| #3     | 4.9653 | 4.9399 | 4.7485 | 5.1018 | 4.9958 | 9.7512 | 9.9965 | .25397   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4356 | 24.502 | 1.0144 | 2.3839 | 1.2445 | 5.2894 | 2.5686 | 25.183   |
| Stddev | .0016  | .026   | .0029  | .0024  | .0017  | .0053  | .0024  | .111     |
| %RSD   | .06482 | .10534 | .28244 | .10218 | .13886 | .10046 | .09185 | .44040   |
| #1     | 2.4346 | 24.503 | 1.0112 | 2.3815 | 1.2450 | 5.2950 | 2.5664 | 25.058   |
| #2     | 2.4348 | 24.528 | 1.0155 | 2.3839 | 1.2459 | 5.2844 | 2.5685 | 25.270   |
| #3     | 2.4374 | 24.476 | 1.0166 | 2.3864 | 1.2426 | 5.2889 | 2.5711 | 25.222   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3829 | 1.2665 | 25.181 | 2.5300 | 2.3784 | 24.480 | 4.9733 | 4.9659   |
| Stddev | .0027  | .0022  | .098   | .0025  | .0005  | .155   | .0073  | .0392    |
| %RSD   | .11256 | .17511 | .39099 | .09756 | .01972 | .63121 | .14679 | .78987   |
| #1     | 2.3815 | 1.2686 | 25.294 | 2.5328 | 2.3778 | 24.418 | 4.9654 | 4.9230   |
| #2     | 2.3812 | 1.2668 | 25.118 | 2.5293 | 2.3788 | 24.367 | 4.9798 | 4.9745   |
| #3     | 2.3860 | 1.2642 | 25.130 | 2.5280 | 2.3785 | 24.656 | 4.9746 | 5.0000   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.6896 | 4.7592 | 4.7711 | 4.7525 | 4.8429 | 4.702  | 4.8974 | F .89400 |
| Stddev | .0082  | .0278  | .0096  | .0359  | .0219  | .003   | .0237  | .26492   |
| %RSD   | .17509 | .58465 | .20151 | .75463 | .45275 | .0549  | .48382 | 29.633   |
| #1     | 4.6878 | 4.7543 | 4.7806 | 4.7168 | 4.8451 | 4.702  | 4.9092 | .58946   |
| #2     | 4.6985 | 4.7891 | 4.7614 | 4.7886 | 4.8636 | 4.704  | 4.9129 | 1.0712   |
| #3     | 4.6824 | 4.7341 | 4.7712 | 4.7522 | 4.8199 | 4.699  | 4.8702 | 1.0213   |

Sample Name: CCV09      Acquired: 3/27/2019 21:33:01      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 82.937 |
| Stddev | 7.701    |
| %RSD   | 9.2854   |

|    |        |
|----|--------|
| #1 | 74.974 |
| #2 | 83.491 |
| #3 | 90.346 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2901.9 | 53224. | 3184.6 | 42.939 | 3765.5 |
| Stddev    | 7.1    | 216.   | 18.8   | 1.023  | 3.0    |
| %RSD      | .24351 | .40501 | .59126 | 2.3832 | .07951 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2907.1 | 53455. | 3189.3 | 44.000 | 3768.5 |
| #2 | 2893.9 | 53027. | 3163.9 | 42.858 | 3762.5 |
| #3 | 2904.9 | 53190. | 3200.7 | 41.958 | 3765.5 |

Sample Name: CCB09      Acquired: 3/27/2019 21:36:59      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |         |        |         |        |
|--------|--------|--------|--------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00069 | .00061 | .00108 | -.00188 | .00075 | -.02386 | .00364 |
| Stddev | .00223 | .00022 | .00008 | .00173  | .00133 | .01251  | .00164 |
| %RSD   | 320.55 | 35.486 | 7.2239 | 91.707  | 178.59 | 52.418  | 44.938 |

|    |         |        |        |         |         |         |        |
|----|---------|--------|--------|---------|---------|---------|--------|
| #1 | .00326  | .00073 | .00110 | -.00010 | -.00069 | -.01133 | .00185 |
| #2 | -.00077 | .00036 | .00099 | -.00200 | .00194  | -.02390 | .00402 |
| #3 | -.00040 | .00074 | .00115 | -.00355 | .00100  | -.03635 | .00505 |

|        |         |        |        |        |         |        |        |
|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00007 | .00016 | .00100 | .00056 | -.00018 | .00189 | .00236 |
| Stddev | .00006  | .00006 | .02476 | .00032 | .00012  | .00050 | .00045 |
| %RSD   | 79.035  | 38.139 | 2486.2 | 56.519 | 67.145  | 26.242 | 19.220 |

|    |         |        |         |        |         |        |        |
|----|---------|--------|---------|--------|---------|--------|--------|
| #1 | -.00012 | .00018 | .01920  | .00021 | -.00028 | .00134 | .00196 |
| #2 | -.00009 | .00009 | -.02720 | .00082 | -.00005 | .00230 | .00285 |
| #3 | -.00001 | .00020 | .01099  | .00065 | -.00020 | .00202 | .00226 |

|        |        |        |        |         |          |        |        |
|--------|--------|--------|--------|---------|----------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895   | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm      | ppm    | ppm    |
| Avg    | .00054 | .03422 | .00136 | -.00062 | F .88691 | .00002 | .00006 |
| Stddev | .00005 | .01338 | .00040 | .00030  | .02524   | .00018 | .00012 |
| %RSD   | 8.6184 | 39.105 | 29.799 | 47.857  | 2.8458   | 1143.4 | 196.91 |

|    |        |        |        |         |        |         |         |
|----|--------|--------|--------|---------|--------|---------|---------|
| #1 | .00053 | .03742 | .00178 | -.00034 | .91589 | .00021  | .00001  |
| #2 | .00058 | .01952 | .00097 | -.00058 | .87503 | -.00014 | .00019  |
| #3 | .00049 | .04570 | .00132 | -.00093 | .86980 | -.00003 | -.00002 |

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .16747 | .00023 | .01460 | .00216 | -.00123 | .00345 | .00141 |
| Stddev | .02489 | .00012 | .01787 | .00035 | .00086  | .00093 | .00048 |
| %RSD   | 14.860 | 53.871 | 122.32 | 16.393 | 69.448  | 27.060 | 33.917 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .17564 | .00034 | .03395  | .00257 | -.00200 | .00452 | .00173 |
| #2 | .18724 | .00026 | -.00128 | .00199 | -.00139 | .00276 | .00164 |
| #3 | .13952 | .00009 | .01115  | .00192 | -.00031 | .00308 | .00086 |

Sample Name: CCB09      Acquired: 3/27/2019 21:36:59      Type: Unk  
 Method: P4-ICP2(v2989)      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 .00806 | .0038  | .00020 | F<.00000 | F 41.313 |
| Stddev | .00149   | .0023  | .00009 | .34495   | 7.879    |
| %RSD   | 18.489   | 60.59  | 46.054 | 65.308   | 19.070   |

|    |        |       |        |         |        |
|----|--------|-------|--------|---------|--------|
| #1 | .00951 | .0064 | .00010 | -.49362 | 42.965 |
| #2 | .00814 | .0033 | .00028 | -.20182 | 32.740 |
| #3 | .00653 | .0019 | .00021 | -.88911 | 48.235 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2968.6 | 53936. | 3135.6 | 43.619 | 4151.7 |
| Stddev    | 7.5    | 236.   | 28.1   | .343   | 6.9    |
| %RSD      | .25343 | .43725 | .89745 | .78523 | .16531 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2960.3 | 53885. | 3159.5 | 43.225 | 4146.3 |
| #2 | 2970.7 | 53731. | 3142.7 | 43.842 | 4149.4 |
| #3 | 2975.0 | 54194. | 3104.6 | 43.792 | 4159.4 |

Sample Name: K2107-15      Acquired: 3/27/2019 21:41:29      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-8      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .08202 | .00950 | .01143 | .08320 | -.00246 | 74.598 | .14639 |
| Stddev | .00276 | .00164 | .00116 | .00172 | .00056  | .245   | .00085 |
| %RSD   | 3.3610 | 17.221 | 10.196 | 2.0663 | 22.828  | .32861 | .57948 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .08521 | .01074 | .01212 | .08213 | -.00299 | 74.318 | .14541 |
| #2 | .08048 | .00765 | .01207 | .08228 | -.00187 | 74.698 | .14685 |
| #3 | .08038 | .01013 | .01008 | .08518 | -.00252 | 74.777 | .14691 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01162 | -.00689 | 3.2019 | .26850 | .04193 | .25752 | 214.87 |
| Stddev | .00027  | .00007  | .0394  | .00140 | .00012 | .00127 | .68    |
| %RSD   | 2.2963  | .95076  | 1.2310 | .52278 | .27457 | .49411 | .31694 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.01155 | -.00691 | 3.1948 | .26997 | .04194 | .25890 | 214.87 |
| #2 | -.01192 | -.00694 | 3.1666 | .26717 | .04204 | .25729 | 214.19 |
| #3 | -.01140 | -.00681 | 3.2444 | .26837 | .04181 | .25638 | 215.55 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .93190 | 4.7697 | .01069 | -.01532 | .67443 | .37466 | .14130 |
| Stddev | .00041 | .1494  | .00020 | .00034  | .01738 | .00300 | .00016 |
| %RSD   | .04384 | 3.1314 | 1.8570 | 2.2403  | 2.5769 | .80150 | .11430 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .93233 | 4.6017 | .01082 | -.01543 | .69385 | .37515 | .14137 |
| #2 | .93184 | 4.8201 | .01078 | -.01493 | .66035 | .37738 | .14112 |
| #3 | .93152 | 4.8874 | .01046 | -.01559 | .66909 | .37144 | .14142 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 6.0386 | -.00108 | .09175 | .56793 | 1.4799 | .00687 | .71994 |
| Stddev | .0101  | .00036  | .00429 | .00531 | .0186  | .00023 | .00436 |
| %RSD   | .16728 | 33.364  | 4.6705 | .93434 | 1.2546 | 3.2935 | .60606 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | 6.0272 | -.00133 | .09647 | .57042 | 1.4858 | .00676 | .72329 |
| #2 | 6.0427 | -.00067 | .08812 | .56183 | 1.4949 | .00713 | .71501 |
| #3 | 6.0461 | -.00123 | .09065 | .57153 | 1.4592 | .00671 | .72153 |

Sample Name: K2107-15      Acquired: 3/27/2019 21:41:29      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-8      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .03417 | 2.979  | -.20546 | <.00000 | F<.00000 |
| Stddev | .00075 | .010   | .00079  | .10444  | 99.796   |
| %RSD   | 2.1948 | .3358  | .38290  | 2.2086  | 1.1273   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .03504 | 2.976 | -.20566 | -4.6410 | -8880.7 |
| #2 | .03376 | 2.971 | -.20459 | -4.8443 | -8935.4 |
| #3 | .03372 | 2.990 | -.20612 | -4.7009 | -8741.8 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3231.0 | 58980. | 3550.9 | 43.810 | 3888.4 |
| Stddev    | 10.8   | 40.    | 23.5   | 1.001  | 5.3    |
| %RSD      | .33420 | .06778 | .66213 | 2.2848 | .13669 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3219.3 | 59024. | 3537.4 | 43.416 | 3883.0 |
| #2 | 3233.0 | 58970. | 3537.2 | 44.948 | 3888.4 |
| #3 | 3240.7 | 58946. | 3578.0 | 43.066 | 3893.7 |

Sample Name: K2107-17      Acquired: 3/27/2019 21:45:54      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .10875 | .01160 | .08953 | .12324 | -.00663 | 240.66 | .63261 |
| Stddev | .00185 | .00158 | .00189 | .00512 | .00202  | .50    | .00141 |
| %RSD   | 1.6969 | 13.639 | 2.1118 | 4.1522 | 30.463  | .20606 | .22309 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .10662 | .00996 | .09070 | .12485 | -.00660 | 240.27 | .63245 |
| #2 | .10975 | .01312 | .08735 | .12736 | -.00463 | 241.22 | .63409 |
| #3 | .10989 | .01172 | .09054 | .11751 | -.00867 | 240.49 | .63128 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01657 | -.00375 | 5.5186 | .45076 | .09389 | .48781 | 330.23 |
| Stddev | .00056  | .00012  | .0566  | .00269 | .00078 | .00166 | 1.16   |
| %RSD   | 3.3940  | 3.3115  | 1.0259 | .59688 | .82745 | .34094 | .35204 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.01612 | -.00368 | 5.5835 | .44805 | .09479 | .48900 | 328.92 |
| #2 | -.01720 | -.00390 | 5.4793 | .45078 | .09341 | .48591 | 331.13 |
| #3 | -.01639 | -.00368 | 5.4929 | .45344 | .09347 | .48852 | 330.64 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.8189 | 13.608 | .10580 | -.03167 | .93416 | .69493 | .33801 |
| Stddev | .0037  | .068   | .00102 | .00087  | .02743 | .00476 | .00063 |
| %RSD   | .20417 | .50124 | .96008 | 2.7355  | 2.9365 | .68428 | .18673 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.8159 | 13.547 | .10466 | -.03166 | .95637 | .70024 | .33823 |
| #2 | 1.8177 | 13.682 | .10660 | -.03080 | .94261 | .69348 | .33850 |
| #3 | 1.8231 | 13.595 | .10615 | -.03254 | .90349 | .69106 | .33730 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.4414 | -.00100 | .05672 | 2.7061 | 1.8915 | .01727 | 1.5643 |
| Stddev | .0967  | .00008  | .02146 | .0098  | .0229  | .00078 | .0056  |
| %RSD   | 1.0241 | 8.0543  | 37.836 | .36399 | 1.2100 | 4.5455 | .35962 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | 9.3303 | -.00106 | .06659 | 2.7169 | 1.9178 | .01780 | 1.5587 |
| #2 | 9.5069 | -.00103 | .07148 | 2.6977 | 1.8761 | .01637 | 1.5699 |
| #3 | 9.4869 | -.00091 | .03210 | 2.7036 | 1.8807 | .01763 | 1.5642 |



Sample Name: K2107-17      Acquired: 3/27/2019 21:45:54      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TP-9      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |         |         |          |
|-----------|--------|--------|---------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg       | .11403 | 4.454  | -.33238 | <.00000 | F<.00000 |
| Stddev    | .00141 | .012   | .00118  | .26497  | 54.636   |
| %RSD      | 1.2343 | .2791  | .35449  | 3.3707  | .27984   |
| #1        | .11502 | 4.467  | -.33112 | -8.1364 | -19586.  |
| #2        | .11242 | 4.455  | -.33346 | -7.6079 | -19504.  |
| #3        | .11466 | 4.442  | -.33255 | -7.8384 | -19482.  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3483.7 | 62459. | 3874.6  | 43.648  | 3750.0   |
| Stddev    | 4.0    | 72.    | 15.4    | 1.279   | 6.2      |
| %RSD      | .11376 | .11519 | .39751  | 2.9310  | .16460   |
| #1        | 3481.3 | 62541. | 3857.5  | 43.843  | 3752.8   |
| #2        | 3488.3 | 62405. | 3887.4  | 44.818  | 3742.9   |
| #3        | 3481.5 | 62432. | 3878.8  | 42.282  | 3754.3   |

Sample Name: K2107-17DUP      Acquired: 3/27/2019 21:50:23      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9DUP      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .11069 | .00968 | .08635 | .12112 | -.00580 | 239.43 | .62837 |
| Stddev | .00262 | .00091 | .00189 | .00461 | .00046  | .65    | .00349 |
| %RSD   | 2.3627 | 9.3943 | 2.1841 | 3.8075 | 7.9682  | .27250 | .55518 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .11275 | .00863 | .08852 | .12107 | -.00562 | 238.71 | .62435 |
| #2 | .11158 | .01020 | .08516 | .12576 | -.00545 | 239.62 | .63058 |
| #3 | .10775 | .01020 | .08536 | .11653 | -.00632 | 239.97 | .63018 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01577 | -.00413 | 5.4198 | .44795 | .09137 | .48685 | 329.78 |
| Stddev | .00007  | .00017  | .0156  | .00211 | .00095 | .00375 | 1.15   |
| %RSD   | .43413  | 4.0835  | .28743 | .47070 | 1.0367 | .77082 | .34903 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.01572 | -.00427 | 5.4201 | .44957 | .09163 | .49026 | 330.11 |
| #2 | -.01585 | -.00419 | 5.4352 | .44871 | .09216 | .48746 | 330.73 |
| #3 | -.01575 | -.00394 | 5.4041 | .44557 | .09032 | .48283 | 328.50 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.7728 | 13.479 | .10574 | -.03239 | .89306 | .70350 | .33483 |
| Stddev | .0007  | .142   | .00145 | .00088  | .02095 | .00363 | .00170 |
| %RSD   | .04110 | 1.0530 | 1.3751 | 2.7023  | 2.3464 | .51640 | .50777 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.7737 | 13.354 | .10686 | -.03244 | .91509 | .70440 | .33591 |
| #2 | 1.7726 | 13.633 | .10627 | -.03149 | .89070 | .70659 | .33572 |
| #3 | 1.7723 | 13.451 | .10410 | -.03324 | .87338 | .69950 | .33287 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 9.4088 | -.00095 | .08143 | 2.6580 | 1.8758 | .01670 | 1.5650 |
| Stddev | .0157  | .00028  | .00719 | .0116  | .0137  | .00075 | .0008  |
| %RSD   | .16717 | 29.123  | 8.8351 | .43573 | .72839 | 4.4815 | .05138 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | 9.3908 | -.00069 | .08970 | 2.6707 | 1.8915 | .01646 | 1.5656 |
| #2 | 9.4198 | -.00124 | .07661 | 2.6552 | 1.8668 | .01610 | 1.5641 |
| #3 | 9.4157 | -.00091 | .07798 | 2.6480 | 1.8691 | .01754 | 1.5653 |

Sample Name: K2107-17DUP      Acquired: 3/27/2019 21:50:23      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9DUP      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .11355 | 4.374  | -.33215 | <.00000 | F<.00000 |
| Stddev | .00046 | .009   | .00124  | .16940  | 205.35   |
| %RSD   | .40373 | .2026  | .37419  | 1.9609  | 1.0672   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .11307 | 4.382 | -.33256 | -8.4495 | -19455. |
| #2 | .11399 | 4.375 | -.33314 | -8.6908 | -19046. |
| #3 | .11359 | 4.364 | -.33075 | -8.7761 | -19223. |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3501.5 | 62821. | 3903.0 | 43.817 | 3768.0 |
| Stddev    | 4.6    | 330.   | 24.5   | .613   | 6.6    |
| %RSD      | .13163 | .52489 | .62887 | 1.3978 | .17546 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3496.2 | 62514. | 3876.2 | 44.306 | 3766.0 |
| #2 | 3504.2 | 62778. | 3924.4 | 44.016 | 3762.6 |
| #3 | 3504.2 | 63170. | 3908.2 | 43.130 | 3775.4 |

Sample Name: K2107-17LX5      Acquired: 3/27/2019 21:54:52      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB118301BL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .02859 | .00384 | .01035 | .03942 | -.00108 | 54.920 | .14826 |
| Stddev | .00087 | .00018 | .00111 | .00157 | .00181  | .443   | .00114 |
| %RSD   | 3.0268 | 4.5656 | 10.681 | 3.9750 | 167.96  | .80630 | .77087 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .02934 | .00371 | .01133 | .03992 | .00084  | 54.450 | .14825 |
| #2 | .02764 | .00378 | .01058 | .04068 | -.00277 | 55.330 | .14712 |
| #3 | .02879 | .00404 | .00915 | .03767 | -.00131 | 54.979 | .14941 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00582 | -.00406 | 1.2785 | .10766 | .01858 | .11697 | 94.689 |
| Stddev | .00028  | .00008  | .0161  | .00015 | .00004 | .00033 | .221   |
| %RSD   | 4.7559  | 2.0508  | 1.2579 | .14110 | .20898 | .28102 | .23355 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00550 | -.00397 | 1.2944 | .10763 | .01862 | .11677 | 94.438 |
| #2 | -.00602 | -.00413 | 1.2622 | .10752 | .01855 | .11735 | 94.771 |
| #3 | -.00592 | -.00408 | 1.2787 | .10782 | .01856 | .11680 | 94.857 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .42707 | 3.1688 | .01981 | -.00550 | .71398 | .16572 | .06033 |
| Stddev | .00101 | .1069  | .00049 | .00045  | .02880 | .00105 | .00009 |
| %RSD   | .23701 | 3.3743 | 2.4657 | 8.1538  | 4.0331 | .63370 | .15412 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .42610 | 3.1240 | .02024 | -.00578 | .74067 | .16564 | .06024 |
| #2 | .42812 | 3.0916 | .01991 | -.00573 | .71780 | .16471 | .06042 |
| #3 | .42699 | 3.2909 | .01928 | -.00498 | .68346 | .16680 | .06034 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020  | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.2364 | -.00020 | .03853 | .54245 | .46578 | .00349 | .37160 |
| Stddev | .0677  | .00033  | .01566 | .00127 | .00695 | .00065 | .00507 |
| %RSD   | 3.0261 | 162.58  | 40.652 | .23446 | 1.4913 | 18.709 | 1.3632 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | 2.2102 | -.00050 | .05117 | .54307 | .46951 | .00424 | .36636 |
| #2 | 2.3133 | .00015  | .02101 | .54099 | .45776 | .00317 | .37197 |
| #3 | 2.1858 | -.00026 | .04341 | .54330 | .47006 | .00306 | .37648 |

Sample Name: K2107-17LX5      Acquired: 3/27/2019 21:54:52      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: PB118301BL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .03090 | .8874  | -.09671 | <.00000 | F<.00000 |
| Stddev | .00077 | .0030  | .00042  | .48570  | 51.153   |
| %RSD   | 2.4855 | .3430  | .43578  | 29.435  | 2.0789   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .03003 | .8891 | -.09623 | -2.1868 | -2428.7 |
| #2 | .03116 | .8838 | -.09692 | -1.2407 | -2519.5 |
| #3 | .03150 | .8891 | -.09699 | -1.5228 | -2433.4 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3076.5 | 55465. | 3317.1 | 43.302 | 3972.2 |
| Stddev    | 10.9   | 267.   | 9.7    | .563   | 8.3    |
| %RSD      | .35477 | .48057 | .29164 | 1.3004 | .20958 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3064.1 | 55736. | 3307.3 | 42.739 | 3964.5 |
| #2 | 3084.4 | 55203. | 3317.3 | 43.304 | 3981.0 |
| #3 | 3081.1 | 55457. | 3326.7 | 43.865 | 3970.9 |

Sample Name: K2107-17MS      Acquired: 3/27/2019 21:59:22      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9MS      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .75021 | 1.9381 | 1.0497 | 1.6710 | .11384 | 295.17 | .83310 |
| Stddev | .00469 | .0095  | .0061  | .0113  | .00148 | .49    | .00341 |
| %RSD   | .62562 | .49264 | .57865 | .67614 | 1.2957 | .16696 | .40872 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75284 | 1.9490 | 1.0489 | 1.6721 | .11295 | 295.34 | .83596 |
| #2 | .75300 | 1.9342 | 1.0561 | 1.6818 | .11555 | 294.61 | .82933 |
| #3 | .74479 | 1.9311 | 1.0441 | 1.6593 | .11303 | 295.55 | .83401 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .16116 | .19184 | 6.4564 | .85450 | .29891 | .75751 | 339.13 |
| Stddev | .00035 | .00061 | .0423  | .00265 | .00132 | .00154 | 1.91   |
| %RSD   | .21939 | .31990 | .65449 | .31053 | .44088 | .20341 | .56217 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .16077 | .19116 | 6.4715 | .85338 | .29977 | .75768 | 340.98 |
| #2 | .16126 | .19200 | 6.4890 | .85259 | .29956 | .75895 | 339.25 |
| #3 | .16145 | .19236 | 6.4086 | .85753 | .29739 | .75589 | 337.17 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.9798 | 16.798 | .62506 | .03195 | 3.5389 | .98465 | .56493 |
| Stddev | .0037  | .175   | .00258 | .00075 | .0365  | .00215 | .00071 |
| %RSD   | .18465 | 1.0421 | .41324 | 2.3449 | 1.0309 | .21872 | .12482 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.9766 | 16.625 | .62604 | .03217 | 3.5780 | .98385 | .56421 |
| #2 | 1.9792 | 16.794 | .62701 | .03257 | 3.5327 | .98301 | .56494 |
| #3 | 1.9838 | 16.975 | .62213 | .03112 | 3.5059 | .98709 | .56562 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 19.305 | .28002 | .22485 | 2.8156 | 2.4817 | .63049 | 1.7205 |
| Stddev | .086   | .00106 | .01989 | .0321  | .0083  | .00479 | .0158  |
| %RSD   | .44367 | .38031 | 8.8444 | 1.1399 | .33314 | .75912 | .91668 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 19.402 | .28065 | .24757 | 2.8466 | 2.4724 | .63589 | 1.7036 |
| #2 | 19.242 | .28062 | .21636 | 2.8178 | 2.4882 | .62881 | 1.7230 |
| #3 | 19.269 | .27879 | .21062 | 2.7825 | 2.4846 | .62677 | 1.7349 |

Sample Name: K2107-17MS      Acquired: 3/27/2019 21:59:22      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9MS      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .30772 | 9.993  | -.17730 | <.00000 | F<.00000 |
| Stddev | .00182 | .051   | .00277  | .30101  | 149.63   |
| %RSD   | .59277 | .5144  | 1.5639  | 4.5862  | .72354   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .30564 | 10.05 | -.18023 | -6.9071 | -20787. |
| #2 | .30902 | 9.969 | -.17696 | -6.4366 | -20509. |
| #3 | .30851 | 9.959 | -.17471 | -6.3466 | -20744. |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3426.1 | 61525. | 3789.4 | 42.701 | 3648.0 |
| Stddev    | 6.1    | 49.    | 20.9   | 1.579  | 5.7    |
| %RSD      | .17713 | .08024 | .55044 | 3.6978 | .15615 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3423.5 | 61472. | 3808.8 | 41.334 | 3651.1 |
| #2 | 3421.7 | 61569. | 3767.3 | 42.341 | 3641.5 |
| #3 | 3433.0 | 61536. | 3792.0 | 44.429 | 3651.5 |

Sample Name: K2107-17MSD      Acquired: 3/27/2019 22:03:42      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9MSD      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .75695 | 1.9598 | 1.0539 | 1.6863 | .11638 | 297.54 | .83966 |
| Stddev | .00347 | .0055  | .0009  | .0021  | .00406 | 2.39   | .00768 |
| %RSD   | .45794 | .27894 | .08252 | .12309 | 3.4915 | .80348 | .91444 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75418 | 1.9561 | 1.0541 | 1.6866 | .11352 | 297.97 | .84315 |
| #2 | .75583 | 1.9660 | 1.0530 | 1.6841 | .11458 | 294.96 | .83086 |
| #3 | .76083 | 1.9571 | 1.0547 | 1.6882 | .12103 | 299.68 | .84498 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .16321 | .19394 | 6.4687 | .85499 | .30128 | .76569 | 343.14 |
| Stddev | .00051 | .00112 | .0219  | .00564 | .00058 | .00552 | 2.07   |
| %RSD   | .31188 | .57915 | .33873 | .65962 | .19146 | .72148 | .60257 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .16278 | .19357 | 6.4922 | .85920 | .30127 | .77182 | 344.36 |
| #2 | .16377 | .19305 | 6.4651 | .84859 | .30071 | .76413 | 340.76 |
| #3 | .16309 | .19520 | 6.4488 | .85720 | .30186 | .76111 | 344.31 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.0045 | 16.885 | .62982 | .03290 | 3.5348 | .99516 | .56909 |
| Stddev | .0032  | .365   | .00230 | .00090 | .0118  | .00431 | .00163 |
| %RSD   | .15965 | 2.1630 | .36454 | 2.7465 | .33253 | .43293 | .28694 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0057 | 16.845 | .62720 | .03219 | 3.5471 | .99598 | .57051 |
| #2 | 2.0009 | 16.542 | .63074 | .03260 | 3.5236 | .99050 | .56946 |
| #3 | 2.0070 | 17.269 | .63151 | .03392 | 3.5336 | .99900 | .56731 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 19.422 | .28237 | .23277 | 2.8457 | 2.5153 | .63470 | 1.7320 |
| Stddev | .202   | .00042 | .01388 | .0142  | .0307  | .00143 | .0043  |
| %RSD   | 1.0392 | .14762 | 5.9642 | .49899 | 1.2223 | .22488 | .25014 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 19.514 | .28243 | .21690 | 2.8298 | 2.5380 | .63477 | 1.7362 |
| #2 | 19.191 | .28193 | .24265 | 2.8572 | 2.5275 | .63323 | 1.7322 |
| #3 | 19.562 | .28275 | .23876 | 2.8502 | 2.4803 | .63609 | 1.7276 |



Sample Name: K2107-17MSD      Acquired: 3/27/2019 22:03:42      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-9MSD      Custom ID2:      Custom ID3:  
Comment:

|           |        |         |         |         |          |
|-----------|--------|---------|---------|---------|----------|
| Elem      | Li6707 | P_1774  | Sr4077  | U_3670  | U_3859   |
| Units     | ppm    | ppm     | ppm     | ppm     | ppm      |
| Avg       | .31345 | F 10.08 | -.17890 | <.00000 | F<.00000 |
| Stddev    | .00172 | .03     | .00168  | .24786  | 154.86   |
| %RSD      | .54986 | .2814   | .94075  | 3.9411  | .74902   |
| #1        | .31301 | 10.05   | -.17948 | -6.0971 | -20778.  |
| #2        | .31535 | 10.10   | -.17700 | -6.5689 | -20498.  |
| #3        | .31199 | 10.10   | -.18021 | -6.2011 | -20751.  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3427.9 | 61312.  | 3751.2  | 41.672  | 3646.8   |
| Stddev    | 10.6   | 261.    | 9.7     | 1.118   | 9.6      |
| %RSD      | .30842 | .42609  | .25794  | 2.6826  | .26403   |
| #1        | 3417.1 | 61180.  | 3745.2  | 40.418  | 3636.3   |
| #2        | 3428.5 | 61613.  | 3746.0  | 42.565  | 3648.7   |
| #3        | 3438.2 | 61143.  | 3762.3  | 42.032  | 3655.3   |

Sample Name: K2107-17A      Acquired: 3/27/2019 22:08:04      Type: Unk  
Method: P4-ICP2(v2989)      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    | .75444 | 1.9648 | 1.0526 | 1.6821 | .11666 | 298.45 | .84331 |
| Stddev | .00502 | .0140  | .0012  | .0059  | .00211 | 1.49   | .00562 |
| %RSD   | .66603 | .71430 | .11520 | .35285 | 1.8066 | .49856 | .66674 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75525 | 1.9782 | 1.0517 | 1.6884 | .11677 | 298.45 | .84477 |
| #2 | .75902 | 1.9659 | 1.0539 | 1.6813 | .11449 | 299.94 | .84806 |
| #3 | .74906 | 1.9502 | 1.0520 | 1.6767 | .11870 | 296.96 | .83710 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .16391 | .19362 | 6.4679 | .86365 | .30125 | .76194 | 346.78 |
| Stddev | .00101 | .00038 | .0271  | .00143 | .00041 | .00137 | .97    |
| %RSD   | .61903 | .19597 | .41840 | .16597 | .13451 | .17929 | .27926 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .16319 | .19384 | 6.4971 | .86202 | .30154 | .76338 | 347.40 |
| #2 | .16347 | .19318 | 6.4436 | .86472 | .30078 | .76179 | 347.28 |
| #3 | .16507 | .19384 | 6.4631 | .86422 | .30142 | .76066 | 345.67 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.0077 | 17.000 | .62773 | .03152 | 3.5446 | 1.0031 | .56991 |
| Stddev | .0017  | .163   | .00077 | .00044 | .0261  | .0040  | .00296 |
| %RSD   | .08679 | .95737 | .12301 | 1.4000 | .73655 | .39341 | .51865 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.0065 | 16.817 | .62700 | .03188 | 3.5331 | 1.0048 | .57241 |
| #2 | 2.0070 | 17.052 | .62854 | .03165 | 3.5745 | 1.0059 | .56665 |
| #3 | 2.0097 | 17.130 | .62764 | .03102 | 3.5262 | .99859 | .57068 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 19.479 | .28083 | .23803 | 2.8355 | 2.5207 | .63870 | 1.7401 |
| Stddev | .055   | .00080 | .00649 | .0192  | .0437  | .00199 | .0035  |
| %RSD   | .28206 | .28652 | 2.7274 | .67775 | 1.7321 | .31234 | .19900 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 19.457 | .28029 | .24553 | 2.8488 | 2.5710 | .63654 | 1.7421 |
| #2 | 19.541 | .28176 | .23438 | 2.8444 | 2.4985 | .63910 | 1.7421 |
| #3 | 19.438 | .28045 | .23419 | 2.8135 | 2.4927 | .64046 | 1.7361 |

Sample Name: K2107-17A      Acquired: 3/27/2019 22:08:04      Type: Unk  
 Method: P4-ICP2(v2989)      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       | .31269 | F 10.08 | -.18447 | <.00000 | F<.00000 |
| Stddev    | .00107 | .04     | .00334  | .55352  | 135.76   |
| %RSD      | .34166 | .4305   | 1.8093  | 8.7659  | .65934   |
| #1        | .31236 | 10.12   | -.18347 | -6.9314 | -20450.  |
| #2        | .31388 | 10.08   | -.18819 | -5.8613 | -20721.  |
| #3        | .31182 | 10.03   | -.18175 | -6.1506 | -20602.  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3424.9 | 61022.  | 3767.6  | 40.593  | 3628.8   |
| Stddev    | 3.3    | 166.    | 27.7    | 2.387   | 7.3      |
| %RSD      | .09725 | .27213  | .73391  | 5.8808  | .19990   |
| #1        | 3421.1 | 60919.  | 3736.6  | 38.786  | 3621.8   |
| #2        | 3427.2 | 60932.  | 3789.7  | 39.693  | 3636.3   |
| #3        | 3426.5 | 61213.  | 3776.5  | 43.299  | 3628.3   |

Sample Name: K2086-01      Acquired: 3/27/2019 22:12:26      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-11      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |         |        |        |
|--------|--------|---------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .01699 | -.00897 | .15431 | .11735 | -.00382 | 91.973 | .51592 |
| Stddev | .00555 | .00153  | .00129 | .00465 | .00216  | .361   | .00376 |
| %RSD   | 32.658 | 17.025  | .83339 | 3.9666 | 56.473  | .39272 | .72854 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .02307 | -.00734 | .15433 | .12110 | -.00306 | 91.828 | .51807 |
| #2 | .01219 | -.01036 | .15559 | .11214 | -.00215 | 91.706 | .51158 |
| #3 | .01572 | -.00921 | .15302 | .11882 | -.00626 | 92.384 | .51812 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02665 | .00507 | 70.225 | .09261 | .23324 | 2.3108 | 363.47 |
| Stddev | .00080  | .00009 | .224   | .00101 | .00047 | .0032  | 2.36   |
| %RSD   | 3.0115  | 1.7038 | .31858 | 1.0904 | .20126 | .14056 | .64877 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.02594 | .00512 | 70.385 | .09188 | .23354 | 2.3135 | 363.41 |
| #2 | -.02648 | .00513 | 70.321 | .09219 | .23270 | 2.3118 | 361.14 |
| #3 | -.02752 | .00497 | 69.970 | .09376 | .23349 | 2.3072 | 365.86 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.5418 | 89.709 | .17849 | -.04439 | 4.4218 | .79879 | .91584 |
| Stddev | .0077  | .559   | .00021 | .00029  | .0275  | .00289 | .00092 |
| %RSD   | .21693 | .62295 | .11540 | .66073  | .62119 | .36184 | .10062 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.5336 | 90.355 | .17830 | -.04413 | 4.4297 | .79859 | .91528 |
| #2 | 3.5431 | 89.398 | .17847 | -.04471 | 4.3913 | .79600 | .91691 |
| #3 | 3.5488 | 89.376 | .17871 | -.04433 | 4.4445 | .80177 | .91535 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 12.868 | .01926 | 1.2434 | 2.2912 | 1.4200 | .04035 | 5.0682 |
| Stddev | .046   | .00029 | .0082  | .0028  | .0296  | .00066 | .0088  |
| %RSD   | .35365 | 1.5303 | .66114 | .12399 | 2.0834 | 1.6437 | .17449 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 12.921 | .01928 | 1.2528 | 2.2945 | 1.4273 | .03982 | 5.0583 |
| #2 | 12.839 | .01896 | 1.2381 | 2.2891 | 1.4452 | .04109 | 5.0753 |
| #3 | 12.845 | .01954 | 1.2392 | 2.2902 | 1.3874 | .04015 | 5.0710 |

Sample Name: K2086-01      Acquired: 3/27/2019 22:12:26      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-11      Custom ID2:      Custom ID3:  
 Comment:

|           |        |         |         |         |          |
|-----------|--------|---------|---------|---------|----------|
| Elem      | Li6707 | P_1774  | Sr4077  | U_3670  | U_3859   |
| Units     | ppm    | ppm     | ppm     | ppm     | ppm      |
| Avg       | .09324 | F 14.26 | -.20200 | <.00000 | F<.00000 |
| Stddev    | .00248 | .03     | .00296  | .35439  | 181.27   |
| %RSD      | 2.6624 | .2276   | 1.4657  | 5.1529  | .82615   |
| #1        | .09159 | 14.28   | -.20195 | -6.9722 | -21896.  |
| #2        | .09205 | 14.27   | -.19906 | -7.1751 | -21787.  |
| #3        | .09610 | 14.22   | -.20498 | -6.4855 | -22141.  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3313.6 | 61248.  | 3788.3  | 41.181  | 3559.3   |
| Stddev    | 4.9    | 186.    | 10.6    | .966    | 3.8      |
| %RSD      | .14921 | .30312  | .28097  | 2.3446  | .10754   |
| #1        | 3308.1 | 61398.  | 3793.2  | 40.201  | 3559.2   |
| #2        | 3315.4 | 61305.  | 3776.1  | 41.209  | 3563.1   |
| #3        | 3317.5 | 61041.  | 3795.7  | 42.132  | 3555.5   |

Sample Name: K2086-02      Acquired: 3/27/2019 22:16:44      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-12      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .04862 | .00181 | .16708 | .04899 | -.00041 | 40.763 | .14573 |
| Stddev | .00386 | .00109 | .00219 | .00200 | .00177  | .075   | .00173 |
| %RSD   | 7.9293 | 60.441 | 1.3116 | 4.0841 | 435.43  | .18323 | 1.1862 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .05304 | .00164 | .16463 | .04878 | -.00211 | 40.707 | .14446 |
| #2 | .04685 | .00298 | .16886 | .05109 | -.00055 | 40.733 | .14503 |
| #3 | .04596 | .00081 | .16775 | .04710 | .00143  | 40.848 | .14770 |

|        |         |        |          |        |        |        |        |
|--------|---------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01088 | .00306 | F 1918.7 | .07431 | .06291 | .72026 | 157.53 |
| Stddev | .00018  | .00018 | 28.7     | .00040 | .00045 | .00255 | .76    |
| %RSD   | 1.6609  | 5.9128 | 1.4983   | .53463 | .71245 | .35386 | .48247 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01075 | .00291 | 1946.7 | .07385 | .06242 | .72073 | 158.38 |
| #2 | -.01079 | .00326 | 1920.0 | .07455 | .06304 | .72254 | 157.29 |
| #3 | -.01108 | .00300 | 1889.3 | .07453 | .06328 | .71750 | 156.92 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 2.5690 | 1292.3 | .12144 | -.05735 | 5.3812 | .16220 | .24846 |
| Stddev | .0017  | 8.5    | .00124 | .00051  | .0360  | .00160 | .00052 |
| %RSD   | .06498 | .65719 | 1.0237 | .89340  | .66965 | .98570 | .20817 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 2.5709 | 1284.2 | .12208 | -.05764 | 5.3418 | .16066 | .24786 |
| #2 | 2.5678 | 1291.4 | .12001 | -.05676 | 5.3893 | .16385 | .24876 |
| #3 | 2.5684 | 1301.1 | .12223 | -.05765 | 5.4125 | .16208 | .24875 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 3.6330 | .01026 | .19914 | 3.1888 | 1.5097 | .03804 | 2.5243 |
| Stddev | .0668  | .00020 | .02404 | .0158  | .0130  | .00096 | .0080  |
| %RSD   | 1.8389 | 1.9110 | 12.074 | .49446 | .86162 | 2.5108 | .31571 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 3.5667 | .01034 | .17185 | 3.1748 | 1.5208 | .03835 | 2.5169 |
| #2 | 3.6320 | .01004 | .20839 | 3.2059 | 1.4954 | .03697 | 2.5327 |
| #3 | 3.7003 | .01040 | .21719 | 3.1858 | 1.5129 | .03881 | 2.5232 |

Sample Name: K2086-02      Acquired: 3/27/2019 22:16:44      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-12      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .17775 | 2.517  | .50590 | 1.3059 | F<.00000 |
| Stddev    | .00108 | .012   | .00283 | .3322  | 63.435   |
| %RSD      | .60781 | .4880  | .55940 | 25.437 | 1.4635   |
| #1        | .17745 | 2.531  | .50890 | 1.6370 | -4288.0  |
| #2        | .17895 | 2.515  | .50552 | 1.3083 | -4308.7  |
| #3        | .17686 | 2.507  | .50328 | .97257 | -4406.7  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2461.7 | 47063. | 3097.2 | 36.795 | 2773.7   |
| Stddev    | 11.4   | 35.    | 36.0   | .946   | 5.9      |
| %RSD      | .46369 | .07483 | 1.1637 | 2.5704 | .21443   |
| #1        | 2463.4 | 47027. | 3060.3 | 35.862 | 2780.5   |
| #2        | 2449.6 | 47065. | 3099.2 | 36.770 | 2769.3   |
| #3        | 2472.2 | 47098. | 3132.3 | 37.753 | 2771.4   |

Sample Name: K2086-03      Acquired: 3/27/2019 22:21:14      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-13      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .12742 | .01614 | .18903 | .03154 | .00212 | 9.1926 | .18134 |
| Stddev | .00316 | .00160 | .00149 | .00453 | .00202 | .1725  | .00208 |
| %RSD   | 2.4778 | 9.9282 | .79025 | 14.367 | 95.308 | 1.8762 | 1.1450 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .12380 | .01628 | .18767 | .03298 | .00442 | 9.2527 | .18169 |
| #2 | .12888 | .01448 | .18879 | .02646 | .00068 | 9.3271 | .18321 |
| #3 | .12958 | .01767 | .19063 | .03517 | .00124 | 8.9982 | .17911 |

|        |         |        |          |        |        |        |        |
|--------|---------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00716 | .00647 | F 4338.7 | .10642 | .04302 | .58370 | 136.34 |
| Stddev | .00005  | .00049 | 53.3     | .00042 | .00027 | .00063 | .49    |
| %RSD   | .71119  | 7.6146 | 1.2284   | .39800 | .62301 | .10833 | .35713 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00721 | .00703 | 4331.9 | .10666 | .04272 | .58336 | 136.16 |
| #2 | -.00711 | .00624 | 4289.2 | .10593 | .04310 | .58330 | 136.89 |
| #3 | -.00717 | .00613 | 4395.1 | .10667 | .04324 | .58442 | 135.97 |

|        |        |          |        |         |        |        |        |
|--------|--------|----------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm      | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.9259 | F 3149.5 | .06020 | -.08643 | 7.8658 | .21530 | .30521 |
| Stddev | .0081  | 3.4      | .00070 | .00095  | .0569  | .00034 | .00068 |
| %RSD   | .20649 | .10932   | 1.1671 | 1.1018  | .72342 | .15883 | .22405 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.9168 | 3150.2 | .06014 | -.08646 | 7.8076 | .21491 | .30582 |
| #2 | 3.9325 | 3152.5 | .05953 | -.08737 | 7.9213 | .21555 | .30447 |
| #3 | 3.9284 | 3145.8 | .06093 | -.08547 | 7.8686 | .21544 | .30534 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 6.1479 | .01788 | .11986 | F 19.443 | 2.1584 | .03761 | .33592 |
| Stddev | .0889  | .00045 | .03642 | .144     | .0288  | .00124 | .00459 |
| %RSD   | 1.4460 | 2.5364 | 30.386 | .74153   | 1.3345 | 3.3017 | 1.3650 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 6.2214 | .01798 | .08003 | 19.538 | 2.1585 | .03646 | .34040 |
| #2 | 6.1733 | .01739 | .12809 | 19.515 | 2.1295 | .03892 | .33124 |
| #3 | 6.0491 | .01828 | .15147 | 19.278 | 2.1871 | .03744 | .33612 |



Sample Name: K2086-03      Acquired: 3/27/2019 22:21:14      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-13      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .34584 | 2.610  | 1.3683 | 2.0507 | F<.00000 |
| Stddev    | .00347 | .025   | .0148  | .3263  | 108.60   |
| %RSD      | 1.0039 | .9546  | 1.0841 | 15.911 | 6.2113   |
| #1        | .34185 | 2.621  | 1.3711 | 1.7579 | -1675.6  |
| #2        | .34750 | 2.627  | 1.3522 | 2.4025 | -1873.3  |
| #3        | .34818 | 2.581  | 1.3815 | 1.9919 | -1696.5  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2074.2 | 40216. | 2798.8 | 31.519 | 2250.8   |
| Stddev    | 2.7    | 158.   | 31.7   | 2.371  | 7.6      |
| %RSD      | .13212 | .39192 | 1.1341 | 7.5208 | .33623   |
| #1        | 2074.1 | 40359. | 2811.8 | 31.296 | 2252.7   |
| #2        | 2071.6 | 40047. | 2821.9 | 33.993 | 2242.5   |
| #3        | 2077.0 | 40242. | 2762.6 | 29.268 | 2257.3   |

Sample Name: CCV10      Acquired: 3/27/2019 22:25:42      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-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    | 4.9670 | 4.9352 | 4.7255 | 5.1364 | 5.0043 | 9.4917 | 9.8560 | .25450   |
| Stddev | .0068  | .0153  | .0147  | .0139  | .0086  | .0387  | .0698  | .00053   |
| %RSD   | .13762 | .31038 | .31074 | .26998 | .17098 | .40764 | .70778 | .20847   |
| #1     | 4.9713 | 4.9498 | 4.7421 | 5.1471 | 5.0139 | 9.4477 | 9.9272 | .25489   |
| #2     | 4.9706 | 4.9366 | 4.7198 | 5.1412 | 5.0014 | 9.5068 | 9.7877 | .25471   |
| #3     | 4.9591 | 4.9192 | 4.7145 | 5.1207 | 4.9975 | 9.5205 | 9.8532 | .25389   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.4284 | 24.507 | 1.0240 | 2.3687 | 1.2408 | 5.3450 | 2.5819 | 24.647   |
| Stddev | .0074  | .097   | .0038  | .0083  | .0031  | .0267  | .0066  | .295     |
| %RSD   | .30357 | .39702 | .37372 | .35081 | .24640 | .49987 | .25701 | 1.1977   |
| #1     | 2.4365 | 24.497 | 1.0280 | 2.3776 | 1.2433 | 5.3757 | 2.5892 | 24.906   |
| #2     | 2.4267 | 24.609 | 1.0203 | 2.3675 | 1.2374 | 5.3275 | 2.5763 | 24.711   |
| #3     | 2.4220 | 24.415 | 1.0237 | 2.3611 | 1.2416 | 5.3316 | 2.5801 | 24.325   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3684 | 1.2688 | 24.858 | 2.5399 | 2.3622 | 24.089 | 4.9599 | 4.8824   |
| Stddev | .0069  | .0006  | .219   | .0050  | .0080  | .101   | .0033  | .0376    |
| %RSD   | .29287 | .04393 | .88251 | .19881 | .33716 | .41931 | .06731 | .76989   |
| #1     | 2.3748 | 1.2682 | 25.089 | 2.5454 | 2.3700 | 24.204 | 4.9638 | 4.8917   |
| #2     | 2.3694 | 1.2691 | 24.653 | 2.5356 | 2.3627 | 24.016 | 4.9578 | 4.9145   |
| #3     | 2.3610 | 1.2692 | 24.832 | 2.5385 | 2.3541 | 24.046 | 4.9582 | 4.8410   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.6610 | 4.8493 | 4.7197 | 4.7387 | 4.7949 | 4.667  | 4.8541 | F 1.2738 |
| Stddev | .0251  | .0135  | .0172  | .0213  | .0170  | .024   | .0312  | .3744    |
| %RSD   | .53938 | .27865 | .36379 | .44841 | .35511 | .5218  | .64275 | 29.390   |
| #1     | 4.6880 | 4.8586 | 4.7115 | 4.7209 | 4.8024 | 4.693  | 4.8859 | 1.6935   |
| #2     | 4.6567 | 4.8338 | 4.7394 | 4.7622 | 4.7754 | 4.664  | 4.8235 | .97429   |
| #3     | 4.6382 | 4.8556 | 4.7082 | 4.7331 | 4.8068 | 4.644  | 4.8529 | 1.1536   |

Sample Name: CCV10      Acquired: 3/27/2019 22:25:42      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TP-1      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 85.023 |
| Stddev | 21.003   |
| %RSD   | 24.703   |

|    |        |
|----|--------|
| #1 | 93.764 |
| #2 | 100.24 |
| #3 | 61.061 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2891.7 | 52741. | 3119.3 | 41.645 | 3772.3 |
| Stddev    | 8.0    | 253.   | 8.5    | .854   | 6.9    |
| %RSD      | .27750 | .48011 | .27274 | 2.0511 | .18420 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2889.9 | 52453. | 3110.7 | 40.768 | 3765.2 |
| #2 | 2900.5 | 52930. | 3127.7 | 41.692 | 3779.1 |
| #3 | 2884.8 | 52839. | 3119.6 | 42.475 | 3772.7 |

Sample Name: CCB10      Acquired: 3/27/2019 22:29:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-2      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |
|--------|--------|---------|--------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00095 | -.00077 | .00043 | -.00011 | -.00133 | -.03756 | .00498 |
| Stddev | .00249 | .00083  | .00079 | .00422  | .00136  | .00337  | .00011 |
| %RSD   | 262.37 | 108.33  | 184.45 | 3684.1  | 102.28  | 8.9707  | 2.1235 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | -.00161 | -.00055 | .00019  | .00291  | -.00122 | -.03603 | .00508 |
| #2 | .00109  | -.00169 | .00131  | -.00494 | -.00274 | -.03522 | .00487 |
| #3 | .00337  | -.00007 | -.00022 | .00169  | -.00003 | -.04142 | .00500 |

|        |         |        |        |        |         |        |        |
|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00005 | .00010 | .00513 | .00065 | -.00017 | .00000 | .00169 |
| Stddev | .00003  | .00003 | .01037 | .00017 | .00009  | .00039 | .00095 |
| %RSD   | 65.072  | 28.240 | 202.06 | 25.377 | 53.290  | 11369. | 56.234 |

|    |         |        |         |        |         |         |        |
|----|---------|--------|---------|--------|---------|---------|--------|
| #1 | -.00001 | .00012 | .00512  | .00051 | -.00009 | -.00020 | .00065 |
| #2 | -.00007 | .00012 | -.00523 | .00084 | -.00016 | .00045  | .00191 |
| #3 | -.00008 | .00007 | .01551  | .00062 | -.00027 | -.00025 | .00251 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00051 | -.02917 | .00124 | .00003 | .49015 | .00032 | .00129 |
| Stddev | .00005 | .04015  | .00077 | .00014 | .00583 | .00053 | .00010 |
| %RSD   | 10.770 | 137.65  | 61.999 | 474.69 | 1.1889 | 165.06 | 7.8873 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .00045 | -.05022 | .00063 | .00016  | .49423 | -.00025 | .00134 |
| #2 | .00055 | -.05441 | .00099 | -.00013 | .48348 | .00079  | .00136 |
| #3 | .00053 | .01713  | .00211 | .00006  | .49275 | .00043  | .00117 |

|        |        |        |         |        |        |        |        |
|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496  | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .10893 | .00040 | -.00119 | .00258 | .00140 | .00405 | .00183 |
| Stddev | .03485 | .00034 | .00759  | .00160 | .00058 | .00059 | .00103 |
| %RSD   | 31.996 | 85.281 | 638.96  | 62.088 | 41.559 | 14.540 | 56.443 |

|    |        |        |         |        |        |        |        |
|----|--------|--------|---------|--------|--------|--------|--------|
| #1 | .14739 | .00054 | -.00879 | .00223 | .00198 | .00472 | .00296 |
| #2 | .09999 | .00001 | .00638  | .00119 | .00139 | .00381 | .00094 |
| #3 | .07942 | .00065 | -.00115 | .00434 | .00082 | .00362 | .00158 |

Sample Name: CCB10      Acquired: 3/27/2019 22:29:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-2      Custom ID2:      Custom ID3:  
Comment:

|           |          |        |        |          |          |
|-----------|----------|--------|--------|----------|----------|
| Elem      | Li6707   | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units     | ppm      | ppm    | ppm    | ppm      | ppm      |
| Avg       | F .00590 | .0035  | .00021 | F<.00000 | F 54.966 |
| Stddev    | .00206   | .0008  | .00006 | .01331   | 28.050   |
| %RSD      | 34.903   | 23.73  | 29.348 | 4.9593   | 51.031   |
| #1        | .00482   | .0036  | .00028 | -.27942  | 22.713   |
| #2        | .00827   | .0027  | .00016 | -.27225  | 68.527   |
| #3        | .00460   | .0043  | .00019 | -.25363  | 73.658   |
| Int. Std. | Y_2243   | Y_3600 | Y_3710 | In2306   | In2306   |
| Units     | Cts/S    | Cts/S  | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2946.5   | 53424. | 3088.1 | 43.958   | 4129.4   |
| Stddev    | 4.4      | 144.   | 19.1   | .456     | 2.1      |
| %RSD      | .14772   | .26912 | .61925 | 1.0364   | .05201   |
| #1        | 2942.9   | 53408. | 3107.2 | 43.850   | 4131.7   |
| #2        | 2951.3   | 53289. | 3068.9 | 43.567   | 4129.2   |
| #3        | 2945.2   | 53575. | 3088.2 | 44.458   | 4127.4   |

Sample Name: K2086-04      Acquired: 3/27/2019 22:34:10      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-14      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .09146 | .00154 | .22710 | .05808 | -.00006 | 35.401 | .28763 |
| Stddev | .00554 | .00282 | .00229 | .00575 | .00094  | .199   | .00180 |
| %RSD   | 6.0581 | 183.31 | 1.0071 | 9.8959 | 1689.3  | .56158 | .62711 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .09659 | .00450  | .22967 | .06167 | -.00104 | 35.457 | .28966 |
| #2 | .08558 | -.00113 | .22638 | .06112 | .00083  | 35.180 | .28623 |
| #3 | .09221 | .00125  | .22526 | .05145 | .00004  | 35.565 | .28698 |

|        |         |        |          |        |        |        |        |
|--------|---------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01256 | .00710 | F 2438.2 | .14226 | .07938 | .72783 | 197.53 |
| Stddev | .00008  | .00015 | 34.6     | .00073 | .00033 | .00368 | .05    |
| %RSD   | .62359  | 2.0593 | 1.4172   | .51541 | .41235 | .50503 | .02589 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01265 | .00699 | 2441.2 | .14141 | .07917 | .73167 | 197.48 |
| #2 | -.01253 | .00704 | 2471.2 | .14268 | .07976 | .72435 | 197.53 |
| #3 | -.01250 | .00727 | 2402.3 | .14268 | .07921 | .72746 | 197.59 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.4984 | 1679.4 | .15925 | -.07011 | 5.0530 | .23765 | .52286 |
| Stddev | .0045  | 11.3   | .00071 | .00057  | .0575  | .00044 | .00083 |
| %RSD   | .12778 | .67058 | .44815 | .81942  | 1.1388 | .18356 | .15882 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.5022 | 1685.4 | .16000 | -.07072 | 5.0879 | .23759 | .52230 |
| #2 | 3.4994 | 1666.5 | .15917 | -.07004 | 4.9865 | .23811 | .52381 |
| #3 | 3.4935 | 1686.5 | .15858 | -.06957 | 5.0844 | .23725 | .52246 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 6.1597 | .01417 | .72502 | F 20.484 | 1.8639 | .02551 | 2.5661 |
| Stddev | .0722  | .00002 | .03235 | .061     | .0401  | .00078 | .0253  |
| %RSD   | 1.1730 | .13657 | 4.4612 | .29915   | 2.1505 | 3.0593 | .98761 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 6.2249 | .01419 | .74845 | 20.541 | 1.8666 | .02566 | 2.5526 |
| #2 | 6.0820 | .01415 | .73851 | 20.491 | 1.9025 | .02620 | 2.5953 |
| #3 | 6.1724 | .01416 | .68812 | 20.420 | 1.8225 | .02466 | 2.5503 |

Sample Name: K2086-04      Acquired: 3/27/2019 22:34:10      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-14      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .21153 | 5.097  | .67667 | .46989 | F<.00000 |
| Stddev | .00210 | .022   | .00959 | .15502 | 74.689   |
| %RSD   | .99146 | .4295  | 1.4165 | 32.990 | 1.1955   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .21081 | 5.114 | .67019 | .49043 | -6187.5 |
| #2 | .21390 | 5.103 | .68768 | .61362 | -6331.2 |
| #3 | .20989 | 5.072 | .67214 | .30564 | -6224.1 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2424.3 | 46579. | 3112.6 | 34.151 | 2565.2 |
| Stddev    | 12.2   | 81.    | 54.7   | .347   | 2.7    |
| %RSD      | .50401 | .17371 | 1.7566 | 1.0160 | .10515 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2413.1 | 46490. | 3156.3 | 34.510 | 2562.1 |
| #2 | 2437.3 | 46648. | 3051.3 | 34.125 | 2567.0 |
| #3 | 2422.5 | 46599. | 3130.2 | 33.817 | 2566.5 |

Sample Name: K2086-05      Acquired: 3/27/2019 22:38:38      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-15      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .04798 | .00055 | .06295 | .05268 | -.00302 | 26.570 | .20735 |
| Stddev | .00282 | .00145 | .00134 | .00871 | .00110  | .197   | .00225 |
| %RSD   | 5.8801 | 263.82 | 2.1322 | 16.542 | 36.607  | .74128 | 1.0833 |

|    |        |         |        |        |         |        |        |
|----|--------|---------|--------|--------|---------|--------|--------|
| #1 | .05078 | -.00103 | .06364 | .05872 | -.00254 | 26.505 | .20632 |
| #2 | .04803 | .00087  | .06380 | .05662 | -.00428 | 26.413 | .20580 |
| #3 | .04514 | .00181  | .06140 | .04269 | -.00223 | 26.791 | .20992 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01030 | .00061 | 1214.1 | .08277 | .07703 | .78690 | 150.43 |
| Stddev | .00020  | .00026 | 3.9    | .00056 | .00049 | .00308 | .98    |
| %RSD   | 1.9404  | 43.565 | .32529 | .67183 | .63194 | .39102 | .64874 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01045 | .00066 | 1217.8 | .08270 | .07680 | .79013 | 149.95 |
| #2 | -.01007 | .00084 | 1210.0 | .08225 | .07759 | .78655 | 149.80 |
| #3 | -.01037 | .00032 | 1214.6 | .08336 | .07670 | .78401 | 151.56 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 2.0849 | 817.51 | .11728 | -.04192 | 2.9675 | .14452 | .32357 |
| Stddev | .0047  | 5.27   | .00042 | .00153  | .0280  | .00069 | .00023 |
| %RSD   | .22336 | .64488 | .35716 | 3.6438  | .94333 | .47669 | .07219 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 2.0868 | 819.63 | .11750 | -.04148 | 2.9917 | .14402 | .32341 |
| #2 | 2.0796 | 811.51 | .11754 | -.04361 | 2.9368 | .14424 | .32384 |
| #3 | 2.0884 | 821.39 | .11679 | -.04066 | 2.9739 | .14531 | .32345 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.9720 | .01048 | .13954 | 7.0522 | 1.0443 | .01765 | 1.3604 |
| Stddev | .0645  | .00047 | .01515 | .0363  | .0189  | .00133 | .0095  |
| %RSD   | 1.0807 | 4.4549 | 10.854 | .51420 | 1.8108 | 7.5324 | .70177 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.9973 | .00999 | .15575 | 7.0510 | 1.0645 | .01614 | 1.3494 |
| #2 | 5.8987 | .01052 | .13710 | 7.0890 | 1.0414 | .01814 | 1.3655 |
| #3 | 6.0201 | .01092 | .12575 | 7.0165 | 1.0270 | .01866 | 1.3663 |



Sample Name: K2086-05      Acquired: 3/27/2019 22:38:38      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-15      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .10288 | 6.456  | .13970 | .32929 | F<.00000 |
| Stddev    | .00247 | .013   | .00230 | .21326 | 57.072   |
| %RSD      | 2.3967 | .1956  | 1.6469 | 64.764 | 1.3093   |
| #1        | .10067 | 6.470  | .14195 | .38142 | -4293.2  |
| #2        | .10554 | 6.446  | .13981 | .09480 | -4396.4  |
| #3        | .10243 | 6.452  | .13735 | .51164 | -4387.2  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2626.8 | 50014. | 3193.8 | 36.799 | 2937.2   |
| Stddev    | 10.1   | 200.   | 4.8    | .563   | 5.1      |
| %RSD      | .38449 | .39967 | .15029 | 1.5302 | .17331   |
| #1        | 2615.3 | 50047. | 3189.6 | 36.313 | 2932.5   |
| #2        | 2630.9 | 50195. | 3192.8 | 37.416 | 2942.6   |
| #3        | 2634.3 | 49799. | 3199.0 | 36.668 | 2936.6   |

Sample Name: K2086-06      Acquired: 3/27/2019 22:42:59      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-16      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .04773 | .00524 | .08793 | .04275 | -.00392 | 24.162 | .21657 |
| Stddev | .00439 | .00159 | .00146 | .00747 | .00338  | .296   | .00343 |
| %RSD   | 9.1935 | 30.336 | 1.6651 | 17.479 | 86.120  | 1.2265 | 1.5815 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .04619 | .00707 | .08661 | .03564 | -.00622 | 23.926 | .21316 |
| #2 | .04433 | .00448 | .08950 | .04209 | -.00551 | 24.494 | .22001 |
| #3 | .05268 | .00418 | .08768 | .05054 | -.00004 | 24.064 | .21655 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00193 | -.00001 | 952.24 | .05829 | .07082 | .26696 | 125.22 |
| Stddev | .00017  | .00020  | 4.12   | .00016 | .00025 | .00062 | .10    |
| %RSD   | 8.7604  | 1439.5  | .43215 | .27185 | .35342 | .23377 | .08002 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00173 | -.00010 | 955.31 | .05826 | .07110 | .26710 | 125.10 |
| #2 | -.00205 | -.00016 | 947.56 | .05846 | .07061 | .26628 | 125.28 |
| #3 | -.00200 | .00022  | 953.84 | .05815 | .07075 | .26750 | 125.27 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.4219 | 629.34 | .14524 | -.03313 | 1.8636 | .07705 | .24821 |
| Stddev | .0022  | 5.60   | .00078 | .00031  | .0210  | .00039 | .00058 |
| %RSD   | .15388 | .88950 | .53751 | .93864  | 1.1243 | .50381 | .23476 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.4196 | 622.88 | .14471 | -.03349 | 1.8687 | .07740 | .24879 |
| #2 | 1.4223 | 632.73 | .14614 | -.03295 | 1.8815 | .07711 | .24820 |
| #3 | 1.4239 | 632.41 | .14487 | -.03296 | 1.8405 | .07663 | .24763 |

|        |        |        |        |          |        |         |        |
|--------|--------|--------|--------|----------|--------|---------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899  | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm     | ppm    |
| Avg    | 13.997 | .00146 | .07505 | F 45.070 | 1.0379 | -.00199 | .33740 |
| Stddev | .136   | .00013 | .01289 | .147     | .0097  | .00051  | .00210 |
| %RSD   | .96819 | 8.8937 | 17.174 | .32611   | .93479 | 25.726  | .62173 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 13.882 | .00157 | .06670 | 45.205 | 1.0458 | -.00144 | .33864 |
| #2 | 14.147 | .00149 | .06856 | 44.913 | 1.0408 | -.00209 | .33498 |
| #3 | 13.963 | .00132 | .08990 | 45.091 | 1.0271 | -.00245 | .33858 |

Sample Name: K2086-06      Acquired: 3/27/2019 22:42:59      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-16      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .12340 | 5.644  | .28455 | .60081 | F<.00000 |
| Stddev | .00332 | .019   | .00263 | .25351 | 77.517   |
| %RSD   | 2.6888 | .3381  | .92532 | 42.194 | 2.4150   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .12719 | 5.641 | .28584 | .32046 | -3192.9 |
| #2 | .12103 | 5.626 | .28152 | .81391 | -3294.3 |
| #3 | .12197 | 5.664 | .28630 | .66807 | -3142.1 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2646.2 | 49747. | 3130.1 | 37.412 | 3045.0 |
| Stddev    | 4.3    | 187.   | 17.2   | .670   | 7.2    |
| %RSD      | .16341 | .37671 | .55089 | 1.7897 | .23661 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2641.8 | 49944. | 3112.6 | 37.824 | 3038.2 |
| #2 | 2650.4 | 49570. | 3147.1 | 36.639 | 3044.3 |
| #3 | 2646.5 | 49727. | 3130.7 | 37.771 | 3052.5 |

Sample Name: K2086-07      Acquired: 3/27/2019 22:47:21      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-18      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .12398 | .01180 | .13897 | .09365 | -.00403 | 47.051 | .55634 |
| Stddev | .00597 | .00157 | .00071 | .00144 | .00230  | .354   | .00781 |
| %RSD   | 4.8180 | 13.275 | .50855 | 1.5375 | 56.985  | .75307 | 1.4035 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .13088 | .01004 | .13906 | .09343 | -.00663 | 46.781 | .55411 |
| #2 | .12055 | .01304 | .13822 | .09519 | -.00321 | 47.452 | .56503 |
| #3 | .12052 | .01231 | .13963 | .09234 | -.00226 | 46.920 | .54990 |

|        |         |        |          |        |        |        |        |
|--------|---------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01936 | .00999 | F 2255.9 | .32379 | .11422 | 1.1094 | 333.06 |
| Stddev | .00006  | .00022 | 20.0     | .00090 | .00075 | .0014  | 2.66   |
| %RSD   | .30410  | 2.2391 | .88829   | .27688 | .65859 | .12780 | .79905 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01943 | .01024 | 2273.5 | .32354 | .11370 | 1.1104 | 334.40 |
| #2 | -.01931 | .00982 | 2234.1 | .32479 | .11387 | 1.1078 | 334.79 |
| #3 | -.01934 | .00990 | 2260.2 | .32305 | .11508 | 1.1101 | 330.00 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 4.7691 | 1418.0 | .24651 | -.08220 | 4.6416 | .25706 | 1.0391 |
| Stddev | .0058  | 10.3   | .00084 | .00055  | .0664  | .00255 | .0022  |
| %RSD   | .12230 | .72796 | .34149 | .67462  | 1.4302 | .99037 | .21541 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 4.7663 | 1414.2 | .24553 | -.08261 | 4.6323 | .25968 | 1.0414 |
| #2 | 4.7758 | 1429.7 | .24701 | -.08243 | 4.7121 | .25691 | 1.0369 |
| #3 | 4.7652 | 1410.1 | .24697 | -.08157 | 4.5803 | .25460 | 1.0389 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 14.251 | .07733 | .12221 | F 25.868 | 2.2969 | .04095 | 1.3448 |
| Stddev | .193   | .00024 | .01260 | .019     | .0583  | .00148 | .0071  |
| %RSD   | 1.3539 | .30404 | 10.312 | .07243   | 2.5394 | 3.6254 | .52659 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 14.143 | .07758 | .11292 | 25.847 | 2.3474 | .03940 | 1.3429 |
| #2 | 14.474 | .07731 | .11717 | 25.877 | 2.2331 | .04236 | 1.3526 |
| #3 | 14.136 | .07711 | .13656 | 25.881 | 2.3101 | .04108 | 1.3389 |

Sample Name: K2086-07      Acquired: 3/27/2019 22:47:21      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-18      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |          |
|--------|--------|---------|--------|--------|----------|
| Elem   | Li6707 | P_1774  | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm      |
| Avg    | .21941 | F 11.66 | 1.0112 | .77873 | F<.00000 |
| Stddev | .00219 | .01     | .0117  | .44053 | 176.41   |
| %RSD   | .99882 | .0851   | 1.1595 | 56.570 | 1.2070   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .21818 | 11.65 | 1.0178 | .33464 | -14420. |
| #2 | .21811 | 11.67 | .99767 | 1.2156 | -14661. |
| #3 | .22194 | 11.67 | 1.0181 | .78595 | -14764. |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2412.5 | 46096. | 3053.7 | 33.240 | 2594.0 |
| Stddev    | 3.1    | 228.   | 33.0   | 1.235  | 1.6    |
| %RSD      | .12904 | .49557 | 1.0818 | 3.7138 | .06164 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2409.5 | 46161. | 3027.3 | 32.810 | 2595.7 |
| #2 | 2412.4 | 45842. | 3090.7 | 34.632 | 2592.5 |
| #3 | 2415.7 | 46284. | 3043.0 | 32.278 | 2593.9 |

Sample Name: K2090-02      Acquired: 3/27/2019 22:51:46      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: P-5(0-10)      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .35379 | .01231 | 17.370 | .16543 | .04514 | 144.09 | 8.9738 |
| Stddev | .00324 | .00139 | .013   | .00740 | .00265 | 1.42   | .0784  |
| %RSD   | .91577 | 11.273 | .07319 | 4.4755 | 5.8740 | .98882 | .87334 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .35156 | .01233 | 17.376 | .17390 | .04213 | 143.89 | 9.0013 |
| #2 | .35751 | .01092 | 17.355 | .16020 | .04713 | 145.60 | 9.0347 |
| #3 | .35231 | .01369 | 17.378 | .16220 | .04616 | 142.78 | 8.8854 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02505 | .04068 | 105.64 | .41483 | .18149 | 34.601 | 472.00 |
| Stddev | .00073  | .00065 | 4.49   | .00259 | .00053 | .043   | 3.09   |
| %RSD   | 2.9224  | 1.6025 | 4.2480 | .62523 | .29205 | .12374 | .65422 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.02531 | .04002 | 104.57 | .41700 | .18088 | 34.609 | 475.55 |
| #2 | -.02423 | .04132 | 110.56 | .41195 | .18179 | 34.639 | 470.45 |
| #3 | -.02562 | .04071 | 101.78 | .41553 | .18180 | 34.554 | 469.99 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 6.7217 | 25.090 | .36895 | -.03661 | 5.3245 | .44768 | 20.190 |
| Stddev | .0402  | .174   | .00179 | .00150  | .0360  | .00117 | .020   |
| %RSD   | .59855 | .69360 | .48525 | 4.1012  | .67693 | .26037 | .10039 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 6.7663 | 25.123 | .36698 | -.03783 | 5.3294 | .44898 | 20.197 |
| #2 | 6.6882 | 25.246 | .36937 | -.03493 | 5.3579 | .44734 | 20.206 |
| #3 | 6.7104 | 24.902 | .37049 | -.03706 | 5.2863 | .44673 | 20.167 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 11.255 | .02914 | .09440 | 8.8270 | 2.7032 | 2.8856 | 1.6122 |
| Stddev | .060   | .00029 | .02725 | .0620  | .0869  | .0149  | .0761  |
| %RSD   | .52902 | .98104 | 28.867 | .70284 | 3.2131 | .51631 | 4.7225 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 11.271 | .02934 | .09164 | 8.7768 | 2.6468 | 2.8785 | 1.5857 |
| #2 | 11.305 | .02926 | .12293 | 8.8964 | 2.8032 | 2.9027 | 1.6980 |
| #3 | 11.189 | .02881 | .06864 | 8.8080 | 2.6595 | 2.8755 | 1.5528 |

Sample Name: K2090-02      Acquired: 3/27/2019 22:51:46      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: P-5(0-10)      Custom ID2:      Custom ID3:  
 Comment:

|           |        |         |        |         |          |
|-----------|--------|---------|--------|---------|----------|
| Elem      | Li6707 | P_1774  | Sr4077 | U_3670  | U_3859   |
| Units     | ppm    | ppm     | ppm    | ppm     | ppm      |
| Avg       | .21893 | F 17.09 | .23123 | <.00000 | F<.00000 |
| Stddev    | .01084 | .06     | .03374 | .33668  | 115.54   |
| %RSD      | 4.9534 | .3560   | 14.593 | 7.3873  | .41878   |
| #1        | .21782 | 17.07   | .21903 | -4.4868 | -27604.  |
| #2        | .23029 | 17.16   | .26937 | -4.2618 | -27696.  |
| #3        | .20868 | 17.04   | .20528 | -4.9239 | -27466.  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306  | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S   | Cts/S    |
| Avg       | 2847.7 | 55485.  | 3347.6 | 40.146  | 3559.5   |
| Stddev    | 3.9    | 194.    | 120.8  | 3.255   | 7.3      |
| %RSD      | .13796 | .34883  | 3.6077 | 8.1087  | .20581   |
| #1        | 2843.3 | 55262.  | 3380.0 | 37.284  | 3552.6   |
| #2        | 2848.9 | 55581.  | 3214.0 | 39.467  | 3567.2   |
| #3        | 2850.9 | 55612.  | 3448.9 | 43.688  | 3558.8   |

Sample Name: K2097-01      Acquired: 3/27/2019 22:56:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-20      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |        |        |        |        |         |         |
|--------|----------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | As1890   | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934  | Be2348  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 1.7982   | .02081  | 10.304 | .22527 | .05988 | 39.199 | 1.6574  | -.03631 |
| Stddev | .0046    | .00095  | .020   | .00248 | .00246 | .454   | .0155   | .00105  |
| %RSD   | .25558   | 4.5556  | .19655 | 1.1021 | 4.1085 | 1.1579 | .93380  | 2.8996  |
| #1     | 1.8030   | .02186  | 10.324 | .22742 | .05712 | 39.650 | 1.6747  | -.03595 |
| #2     | 1.7977   | .02003  | 10.303 | .22256 | .06184 | 39.205 | 1.6526  | -.03550 |
| #3     | 1.7938   | .02054  | 10.284 | .22584 | .06069 | 38.742 | 1.6449  | -.03750 |
| Elem   | Cd2265   | Ca3736  | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .00835   | 10.755  | .38070 | .15235 | 5.1599 | 623.64 | 4.6340  | 10.043  |
| Stddev | .00066   | .839    | .00262 | .00026 | .0020  | .77    | .0131   | .085    |
| %RSD   | 7.9100   | 7.7989  | .68762 | .17262 | .03837 | .12284 | .28176  | .84551  |
| #1     | .00870   | 11.510  | .37940 | .15225 | 5.1582 | 623.13 | 4.6199  | 10.139  |
| #2     | .00875   | 10.902  | .37899 | .15216 | 5.1621 | 623.28 | 4.6366  | 10.013  |
| #3     | .00758   | 9.8523  | .38371 | .15265 | 5.1594 | 624.52 | 4.6456  | 9.9770  |
| Elem   | Ni2316   | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .28762   | -.08210 | 1.4842 | 1.0255 | 1.5076 | 4.8958 | .26367  | -.05244 |
| Stddev | .00170   | .00141  | .0162  | .0047  | .0055  | .0301  | .00124  | .00202  |
| %RSD   | .59142   | 1.7225  | 1.0937 | .46350 | .36148 | .61542 | .46957  | 3.8589  |
| #1     | .28707   | -.08080 | 1.5014 | 1.0210 | 1.5136 | 4.9229 | .26411  | -.05065 |
| #2     | .28953   | -.08190 | 1.4820 | 1.0251 | 1.5063 | 4.8634 | .26463  | -.05464 |
| #3     | .28627   | -.08361 | 1.4691 | 1.0305 | 1.5029 | 4.9011 | .26228  | -.05205 |
| Elem   | S_1820   | Si2881  | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | F 16.276 | 1.5803  | .66563 | 2.2790 | .03889 | 7.216  | -.34097 | <.00000 |
| Stddev | .127     | .0904   | .00474 | .1553  | .00127 | .053   | .02406  | .15387  |
| %RSD   | .78115   | 5.7189  | .71158 | 6.8148 | 3.2619 | .7352  | 7.0568  | 2.3200  |
| #1     | 16.346   | 1.6497  | .66796 | 2.4009 | .04031 | 7.237  | -.32089 | -6.7825 |
| #2     | 16.352   | 1.6131  | .66875 | 2.3320 | .03848 | 7.255  | -.33437 | -6.6391 |
| #3     | 16.129   | 1.4781  | .66018 | 2.1041 | .03788 | 7.156  | -.36764 | -6.4750 |



Sample Name: K2097-01      Acquired: 3/27/2019 22:56:20      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-20      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      ^ \*\*\*\*\*  
 Stddev      -----  
 %RSD      -----

#1      ^ -----  
 #2      -39799.  
 #3      ^ -----

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2966.9 | 54720. | 3262.0 | 42.253 | 3685.5 |
| Stddev    | 6.3    | 222.   | 177.4  | 1.623  | 11.7   |
| %RSD      | .21117 | .40542 | 5.4377 | 3.8412 | .31877 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2964.5 | 54906. | 3128.9 | 40.600 | 3672.9 |
| #2 | 2974.1 | 54779. | 3193.8 | 42.315 | 3696.1 |
| #3 | 2962.3 | 54474. | 3463.4 | 43.845 | 3687.5 |

Sample Name: K2097-02      Acquired: 3/27/2019 23:00:33      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-21      Custom ID2:      Custom ID3:  
Comment:

|        |          |         |        |        |        |        |         |         |
|--------|----------|---------|--------|--------|--------|--------|---------|---------|
| Elem   | As1890   | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934  | Be2348  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .88671   | .01599  | 4.7338 | .20416 | .08677 | 64.316 | 1.1610  | -.03664 |
| Stddev | .00437   | .00258  | .0115  | .00472 | .00195 | .326   | .0079   | .00025  |
| %RSD   | .49339   | 16.129  | .24264 | 2.3119 | 2.2445 | .50698 | .68220  | .67658  |
| #1     | .88802   | .01874  | 4.7225 | .20823 | .08882 | 64.693 | 1.1701  | -.03639 |
| #2     | .89028   | .01363  | 4.7335 | .20526 | .08652 | 64.130 | 1.1569  | -.03665 |
| #3     | .88183   | .01560  | 4.7455 | .19899 | .08495 | 64.126 | 1.1559  | -.03689 |
| Elem   | Cd2265   | Ca3736  | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576  | Mg2790  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .01496   | 30.865  | .47718 | .12692 | 6.8401 | 673.43 | 4.9251  | 8.8226  |
| Stddev | .00072   | .089    | .00424 | .00111 | .0192  | 4.63   | .0174   | .0535   |
| %RSD   | 4.7996   | .28797  | .88928 | .87670 | .28104 | .68721 | .35299  | .60660  |
| #1     | .01436   | 30.845  | .48142 | .12598 | 6.8552 | 678.08 | 4.9452  | 8.8790  |
| #2     | .01477   | 30.962  | .47293 | .12661 | 6.8466 | 673.39 | 4.9154  | 8.7725  |
| #3     | .01576   | 30.788  | .47720 | .12815 | 6.8184 | 668.82 | 4.9147  | 8.8162  |
| Elem   | Ni2316   | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020  | B_2496  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | .32573   | -.10381 | 1.8928 | .74358 | 1.8355 | 3.4664 | .18225  | -.13635 |
| Stddev | .00185   | .00137  | .0095  | .00384 | .0015  | .0457  | .00038  | .02200  |
| %RSD   | .56666   | 1.3154  | .49935 | .51613 | .08223 | 1.3174 | .21007  | 16.136  |
| #1     | .32430   | -.10530 | 1.9021 | .74761 | 1.8337 | 3.5117 | .18181  | -.11336 |
| #2     | .32507   | -.10262 | 1.8832 | .73998 | 1.8364 | 3.4204 | .18253  | -.15721 |
| #3     | .32781   | -.10351 | 1.8931 | .74314 | 1.8363 | 3.4671 | .18240  | -.13849 |
| Elem   | S_1820   | Si2881  | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670  |
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | F 11.677 | 2.2432  | .62070 | 2.8082 | .05493 | 7.149  | -.08427 | <.00000 |
| Stddev | .111     | .0144   | .00152 | .0330  | .00065 | .044   | .00558  | .31610  |
| %RSD   | .95465   | .64229  | .24559 | 1.1743 | 1.1794 | .6137  | 6.6223  | 3.8048  |
| #1     | 11.668   | 2.2288  | .62074 | 2.7813 | .05562 | 7.156  | -.09068 | -8.0122 |
| #2     | 11.571   | 2.2577  | .61916 | 2.8450 | .05434 | 7.101  | -.08053 | -8.2706 |
| #3     | 11.793   | 2.2432  | .62221 | 2.7982 | .05482 | 7.188  | -.08159 | -8.6411 |

Sample Name: K2097-02      Acquired: 3/27/2019 23:00:33      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-21      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      ^ \*\*\*\*\*  
Stddev      -----  
%RSD      -----

#1      -47405.  
#2      ^ -----  
#3      ^ -----

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2975.4 | 55080. | 3343.3 | 40.588 | 3603.9 |
| Stddev    | 8.5    | 175.   | 18.8   | 1.649  | 4.3    |
| %RSD      | .28550 | .31687 | .56211 | 4.0637 | .11816 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2966.8 | 54888. | 3356.8 | 42.489 | 3599.3 |
| #2 | 2975.7 | 55228. | 3321.8 | 39.533 | 3607.6 |
| #3 | 2983.8 | 55125. | 3351.3 | 39.743 | 3604.9 |

Sample Name: K2097-03      Acquired: 3/27/2019 23:04:48      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-22      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.2556 | .00399 | .78217 | .12156 | .00495 | 43.480 | .70432 |
| Stddev | .0109  | .00066 | .00224 | .00313 | .00183 | .122   | .00317 |
| %RSD   | .86394 | 16.632 | .28603 | 2.5784 | 36.883 | .28039 | .45004 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.2448 | .00363 | .77964 | .12399 | .00417 | 43.620 | .70795 |
| #2 | 1.2665 | .00476 | .78390 | .11802 | .00703 | 43.424 | .70292 |
| #3 | 1.2556 | .00359 | .78296 | .12267 | .00364 | 43.396 | .70209 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.01464 | -.00652 | 60.467 | .14186 | .05330 | 1.6958 | 247.68 |
| Stddev | .00043  | .00017  | .099   | .00037 | .00018 | .0006  | .41    |
| %RSD   | 2.9702  | 2.6019  | .16418 | .26191 | .33197 | .03858 | .16662 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.01424 | -.00655 | 60.579 | .14152 | .05333 | 1.6953 | 247.21 |
| #2 | -.01510 | -.00634 | 60.432 | .14181 | .05311 | 1.6965 | 247.98 |
| #3 | -.01457 | -.00667 | 60.390 | .14226 | .05347 | 1.6955 | 247.86 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 1.5289 | 7.8368 | .12756 | -.02118 | 2.0784 | .29443 | .78500 |
| Stddev | .0027  | .0691  | .00198 | .00021  | .0172  | .00195 | .00133 |
| %RSD   | .17666 | .88171 | 1.5536 | .99147  | .82830 | .66179 | .16937 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 1.5266 | 7.8967 | .12539 | -.02131 | 2.0642 | .29288 | .78629 |
| #2 | 1.5319 | 7.8523 | .12927 | -.02093 | 2.0735 | .29379 | .78363 |
| #3 | 1.5283 | 7.7612 | .12804 | -.02129 | 2.0976 | .29661 | .78509 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 4.1137 | .04666 | .11542 | 4.5877 | 2.5741 | .06102 | 2.1475 |
| Stddev | .0933  | .00024 | .01740 | .0416  | .0316  | .00086 | .0043  |
| %RSD   | 2.2689 | .50706 | 15.079 | .90773 | 1.2262 | 1.4117 | .19969 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 4.2189 | .04646 | .13499 | 4.5464 | 2.5386 | .06027 | 2.1428 |
| #2 | 4.0814 | .04692 | .10169 | 4.5871 | 2.5991 | .06084 | 2.1511 |
| #3 | 4.0408 | .04661 | .10957 | 4.6297 | 2.5845 | .06196 | 2.1487 |

Sample Name: K2097-03      Acquired: 3/27/2019 23:04:48      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-22      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |         |          |
|-----------|--------|--------|--------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm     | ppm      |
| Avg       | .06947 | 2.249  | .09688 | <.00000 | F<.00000 |
| Stddev    | .00133 | .014   | .00208 | .31911  | 116.11   |
| %RSD      | 1.9084 | .6009  | 2.1432 | 16.276  | 1.2379   |
| #1        | .06915 | 2.236  | .09703 | -1.8640 | -9424.8  |
| #2        | .07092 | 2.250  | .09888 | -1.7010 | -9247.2  |
| #3        | .06833 | 2.262  | .09473 | -2.3169 | -9465.5  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S    |
| Avg       | 2992.3 | 54496. | 3298.9 | 43.676  | 3854.7   |
| Stddev    | 7.5    | 180.   | 24.9   | 1.894   | 8.6      |
| %RSD      | .24902 | .33023 | .75470 | 4.3363  | .22367   |
| #1        | 2985.8 | 54547. | 3311.8 | 44.506  | 3844.8   |
| #2        | 2990.8 | 54297. | 3270.2 | 41.509  | 3859.9   |
| #3        | 3000.4 | 54646. | 3314.8 | 45.013  | 3859.5   |

Sample Name: K2097-04      Acquired: 3/27/2019 23:09:06      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-19      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |        |        |         |
|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .89966 | -.00307 | 5.9485 | .14122 | .00908 | 78.540 | 1.2040 | -.02702 |
| Stddev | .00435 | .00137  | .0176  | .01605 | .00413 | 3.584  | .0513  | .00160  |
| %RSD   | .48312 | 44.703  | .29546 | 11.363 | 45.467 | 4.5635 | 4.2596 | 5.9227  |

|    |        |         |        |        |        |        |        |         |
|----|--------|---------|--------|--------|--------|--------|--------|---------|
| #1 | .90379 | -.00402 | 5.9539 | .12354 | .00721 | 74.438 | 1.1456 | -.02525 |
| #2 | .89512 | -.00370 | 5.9289 | .14527 | .01381 | 80.116 | 1.2250 | -.02747 |
| #3 | .90008 | -.00150 | 5.9628 | .15486 | .00621 | 81.067 | 1.2416 | -.02835 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .02281 | 254.02 | .43864 | .21818 | 4.9174 | 505.36 | 6.0039 | 191.30 |
| Stddev | .00199 | 7.08   | .02763 | .00120 | .0076  | 18.88  | .2821  | 8.43   |
| %RSD   | 8.7199 | 2.7880 | 6.2986 | .54931 | .15479 | 3.7350 | 4.6986 | 4.4045 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .02510 | 261.70 | .40675 | .21848 | 4.9257 | 483.90 | 5.6807 | 181.74 |
| #2 | .02147 | 247.75 | .45531 | .21687 | 4.9108 | 512.80 | 6.1301 | 194.55 |
| #3 | .02187 | 252.60 | .45386 | .21921 | 4.9156 | 519.38 | 6.2008 | 197.62 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.1157 | -.08156 | 2.5781 | .70978 | 1.9058 | 11.539 | .05316 | .06164 |
| Stddev | .0014  | .00687  | .1051  | .03841 | .0083  | .445   | .00026 | .00577 |
| %RSD   | .12522 | 8.4255  | 4.0748 | 5.4113 | .43633 | 3.8569 | .48065 | 9.3634 |

|    |        |         |        |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|--------|
| #1 | 1.1141 | -.07364 | 2.4595 | .66559 | 1.9140 | 11.025 | .05326 | .05599 |
| #2 | 1.1165 | -.08589 | 2.6152 | .73510 | 1.8974 | 11.796 | .05286 | .06141 |
| #3 | 1.1165 | -.08516 | 2.6595 | .72866 | 1.9062 | 11.797 | .05334 | .06753 |

|        |        |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077  | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avg    | 7.8375 | 2.2830 | .29935 | 4.0495 | .18155 | 8.947  | -.11338 | <.00000 |
| Stddev | .0679  | .0478  | .00350 | .0734  | .00349 | .083   | .03329  | 1.7945  |
| %RSD   | .86653 | 2.0921 | 1.1707 | 1.8130 | 1.9201 | .9226  | 29.360  | 18.437  |

|    |        |        |        |        |        |       |         |         |
|----|--------|--------|--------|--------|--------|-------|---------|---------|
| #1 | 7.8324 | 2.2281 | .30220 | 4.1323 | .18501 | 8.950 | -.07496 | -11.792 |
| #2 | 7.7723 | 2.3061 | .29544 | 3.9924 | .17804 | 8.863 | -.13371 | -8.9077 |
| #3 | 7.9078 | 2.3149 | .30040 | 4.0238 | .18159 | 9.028 | -.13145 | -8.4999 |

Sample Name: K2097-04      Acquired: 3/27/2019 23:09:06      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-19      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      ^ \*\*\*\*\*  
 Stddev      -----  
 %RSD      -----

#1      -35865.  
 #2      ^ -----  
 #3      -37042.

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3129.6 | 60380. | 3535.6 | 38.550 | 3325.2 |
| Stddev    | 7.0    | 2707.  | 87.7   | 1.482  | 8.1    |
| %RSD      | .22447 | 4.4827 | 2.4801 | 3.8435 | .24468 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3121.8 | 63498. | 3438.7 | 36.840 | 3318.0 |
| #2 | 3131.5 | 59007. | 3609.5 | 39.459 | 3334.0 |
| #3 | 3135.4 | 58635. | 3558.7 | 39.351 | 3323.7 |

Sample Name: K2097-05      Acquired: 3/27/2019 23:13:33      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-17      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .12489 | .00309 | .24636 | .09560 | .00290 | 58.601 | .75763 |
| Stddev | .00155 | .00283 | .00588 | .00332 | .00129 | 1.940  | .02247 |
| %RSD   | 1.2403 | 91.603 | 2.3847 | 3.4736 | 44.459 | 3.3098 | 2.9659 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .12481 | .00308 | .25305 | .09234 | .00212 | 56.402 | .73223 |
| #2 | .12339 | .00026 | .24399 | .09548 | .00219 | 59.333 | .76576 |
| #3 | .12648 | .00591 | .24204 | .09898 | .00439 | 60.068 | .77490 |

|        |         |        |        |        |        |        |        |
|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.02640 | .03032 | 1546.0 | .87901 | .15479 | 2.2249 | 460.87 |
| Stddev | .00094  | .00153 | 21.0   | .02861 | .00053 | .0037  | 13.85  |
| %RSD   | 3.5783  | 5.0461 | 1.3560 | 3.2545 | .34225 | .16390 | 3.0045 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.02532 | .03202 | 1552.5 | .84598 | .15521 | 2.2274 | 445.06 |
| #2 | -.02685 | .02991 | 1562.9 | .89590 | .15419 | 2.2265 | 466.71 |
| #3 | -.02704 | .02904 | 1522.5 | .89515 | .15497 | 2.2207 | 470.83 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 6.8046 | 931.61 | .48181 | -.10474 | 4.8275 | .37122 | 1.5904 |
| Stddev | .0561  | 24.81  | .00388 | .00247  | .1595  | .00971 | .0081  |
| %RSD   | .82476 | 2.6635 | .80522 | 2.3535  | 3.3041 | 2.6167 | .51129 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 6.8193 | 903.06 | .47812 | -.10205 | 4.6502 | .36007 | 1.5988 |
| #2 | 6.7425 | 943.78 | .48146 | -.10689 | 4.8731 | .37574 | 1.5899 |
| #3 | 6.8518 | 947.98 | .48586 | -.10527 | 4.9593 | .37785 | 1.5825 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 9.2454 | .17237 | .20690 | F 19.573 | 2.4647 | .09655 | 2.7036 |
| Stddev | .2781  | .00038 | .02068 | .049     | .0572  | .00071 | .0067  |
| %RSD   | 3.0081 | .22066 | 9.9960 | .25021   | 2.3214 | .73334 | .24842 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 8.9607 | .17214 | .20521 | 19.544 | 2.5086 | .09724 | 2.6963 |
| #2 | 9.2591 | .17215 | .22837 | 19.630 | 2.4855 | .09658 | 2.7094 |
| #3 | 9.5165 | .17281 | .18711 | 19.546 | 2.4000 | .09582 | 2.7052 |



Sample Name: K2097-05      Acquired: 3/27/2019 23:13:33      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-17      Custom ID2:      Custom ID3:  
 Comment:

|           |        |         |        |         |          |
|-----------|--------|---------|--------|---------|----------|
| Elem      | Li6707 | P_1774  | Sr4077 | U_3670  | U_3859   |
| Units     | ppm    | ppm     | ppm    | ppm     | ppm      |
| Avg       | .19128 | F 10.61 | .41480 | <.00000 | F<.00000 |
| Stddev    | .00305 | .04     | .02325 | 1.3416  | 164.91   |
| %RSD      | 1.5966 | .3321   | 5.6040 | 23.109  | .54357   |
| #1        | .19070 | 10.59   | .43717 | -7.3543 | -30156.  |
| #2        | .18856 | 10.65   | .41645 | -5.0656 | -30476.  |
| #3        | .19458 | 10.59   | .39077 | -4.9970 | -30386.  |
| Int. Std. | Y_2243 | Y_3600  | Y_3710 | In2306  | In2306   |
| Units     | Cts/S  | Cts/S   | Cts/S  | Cts/S   | Cts/S    |
| Avg       | 2767.4 | 53689.  | 3480.0 | 35.407  | 2759.3   |
| Stddev    | 2.0    | 1466.   | 53.7   | .976    | 7.0      |
| %RSD      | .07374 | 2.7306  | 1.5428 | 2.7553  | .25345   |
| #1        | 2768.5 | 55382.  | 3464.5 | 35.810  | 2752.2   |
| #2        | 2765.0 | 52850.  | 3435.7 | 34.295  | 2759.6   |
| #3        | 2768.6 | 52835.  | 3539.7 | 36.118  | 2766.2   |

Sample Name: CCV11      Acquired: 3/27/2019 23:18:00      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB118301BS      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |          |        |          |
|--------|--------|--------|--------|--------|--------|----------|--------|----------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961   | Ba4934 | Be2348   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 4.9872 | 4.9468 | 4.6930 | 5.1622 | 5.0098 | 9.4320   | 9.8471 | .25767   |
| Stddev | .0136  | .0067  | .0222  | .0182  | .0038  | .1028    | .0491  | .00039   |
| %RSD   | .27262 | .13624 | .47310 | .35179 | .07538 | 1.0894   | .49894 | .15277   |
| #1     | 4.9979 | 4.9474 | 4.6680 | 5.1823 | 5.0060 | 9.5295   | 9.8986 | .25799   |
| #2     | 4.9719 | 4.9398 | 4.7105 | 5.1469 | 5.0136 | 9.4418   | 9.8419 | .25723   |
| #3     | 4.9919 | 4.9533 | 4.7005 | 5.1574 | 5.0099 | 9.3247   | 9.8008 | .25778   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404   | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 2.4302 | 24.480 | 1.0301 | 2.3613 | 1.2424 | F 5.5094 | 2.6149 | 24.809   |
| Stddev | .0087  | .071   | .0040  | .0079  | .0017  | .0126    | .0022  | .287     |
| %RSD   | .35648 | .28898 | .38718 | .33289 | .13521 | .22800   | .08425 | 1.1575   |
| #1     | 2.4202 | 24.411 | 1.0323 | 2.3526 | 1.2414 | 5.5193   | 2.6173 | 25.140   |
| #2     | 2.4359 | 24.477 | 1.0324 | 2.3677 | 1.2444 | 5.5137   | 2.6144 | 24.671   |
| #3     | 2.4344 | 24.553 | 1.0255 | 2.3637 | 1.2415 | 5.4953   | 2.6130 | 24.618   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664   | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 2.3600 | 1.2894 | 25.142 | 2.5706 | 2.3480 | 24.203   | 4.9710 | 4.9099   |
| Stddev | .0086  | .0027  | .095   | .0044  | .0064  | .088     | .0055  | .0413    |
| %RSD   | .36559 | .20862 | .37916 | .17288 | .27274 | .36459   | .11042 | .84020   |
| #1     | 2.3501 | 1.2903 | 25.234 | 2.5715 | 2.3408 | 24.304   | 4.9764 | 4.9510   |
| #2     | 2.3659 | 1.2863 | 25.150 | 2.5745 | 2.3531 | 24.140   | 4.9654 | 4.9102   |
| #3     | 2.3640 | 1.2914 | 25.043 | 2.5658 | 2.3501 | 24.164   | 4.9713 | 4.8685   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774   | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 4.6401 | 4.9291 | 4.7133 | 4.7235 | 4.9053 | 4.630    | 4.8345 | F 1.4557 |
| Stddev | .0203  | .0317  | .0029  | .0126  | .0289  | .016     | .0220  | .4079    |
| %RSD   | .43682 | .64317 | .06111 | .26745 | .58916 | .3359    | .45479 | 28.024   |
| #1     | 4.6547 | 4.8926 | 4.7102 | 4.7239 | 4.8766 | 4.638    | 4.8128 | 1.8166   |
| #2     | 4.6170 | 4.9444 | 4.7136 | 4.7107 | 4.9050 | 4.612    | 4.8339 | 1.5374   |
| #3     | 4.6487 | 4.9502 | 4.7159 | 4.7360 | 4.9344 | 4.639    | 4.8567 | 1.0131   |

Sample Name: CCV11      Acquired: 3/27/2019 23:18:00      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB118301BS      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 62.510 |
| Stddev | 25.145   |
| %RSD   | 40.225   |

|    |        |
|----|--------|
| #1 | 51.885 |
| #2 | 91.223 |
| #3 | 44.423 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2865.2 | 51572. | 3046.6 | 41.737 | 3761.4 |
| Stddev    | 7.2    | 340.   | 14.4   | 1.173  | 4.4    |
| %RSD      | .25221 | .65958 | .47230 | 2.8115 | .11706 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2857.5 | 51317. | 3063.2 | 41.101 | 3762.8 |
| #2 | 2866.3 | 51440. | 3038.2 | 43.091 | 3756.4 |
| #3 | 2871.8 | 51958. | 3038.5 | 41.018 | 3764.9 |

Sample Name: CCB11      Acquired: 3/27/2019 23:21:59      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-3      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |         |         |         |         |        |
|--------|--------|---------|---------|---------|---------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    |
| Avg    | .00048 | -.00048 | -.00007 | -.00240 | -.00075 | -.02844 | .00542 |
| Stddev | .00253 | .00100  | .00098  | .00101  | .00147  | .01069  | .00097 |
| %RSD   | 525.80 | 208.19  | 1347.0  | 41.881  | 195.55  | 37.598  | 17.944 |

|    |         |         |         |         |         |         |        |
|----|---------|---------|---------|---------|---------|---------|--------|
| #1 | .00340  | -.00164 | .00091  | -.00165 | -.00209 | -.03705 | .00457 |
| #2 | -.00086 | .00010  | -.00007 | -.00354 | -.00099 | -.03181 | .00521 |
| #3 | -.00110 | .00010  | -.00106 | -.00201 | .00082  | -.01647 | .00648 |

|        |         |        |        |        |         |         |        |
|--------|---------|--------|--------|--------|---------|---------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247  | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00013 | .00015 | .01253 | .00062 | -.00020 | -.00019 | .00926 |
| Stddev | .00004  | .00002 | .00604 | .00035 | .00009  | .00024  | .00047 |
| %RSD   | 30.830  | 12.804 | 48.165 | 57.278 | 45.115  | 124.46  | 5.0744 |

|    |         |        |        |        |         |         |        |
|----|---------|--------|--------|--------|---------|---------|--------|
| #1 | -.00009 | .00012 | .01272 | .00025 | -.00030 | -.00017 | .00940 |
| #2 | -.00013 | .00016 | .00640 | .00096 | -.00014 | .00003  | .00874 |
| #3 | -.00017 | .00015 | .01847 | .00063 | -.00015 | -.00044 | .00965 |

|        |        |         |        |        |        |         |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280 | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00041 | -.00631 | .00127 | .00014 | .19686 | -.00044 | .00064 |
| Stddev | .00007 | .07745  | .00023 | .00017 | .01932 | .00014  | .00004 |
| %RSD   | 16.137 | 1227.8  | 18.097 | 115.71 | 9.8142 | 30.924  | 6.6675 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .00045 | -.08175 | .00148 | .00005 | .20598 | -.00035 | .00066 |
| #2 | .00033 | -.01019 | .00130 | .00004 | .17467 | -.00038 | .00067 |
| #3 | .00044 | .07301  | .00103 | .00034 | .20993 | -.00060 | .00059 |

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .04919 | .00043 | .01923 | .00271 | -.00038 | .00193 | .00065 |
| Stddev | .05872 | .00025 | .02194 | .00309 | .00252  | .00063 | .00026 |
| %RSD   | 119.38 | 58.748 | 114.09 | 113.74 | 657.23  | 32.486 | 39.474 |

|    |         |        |         |         |         |        |        |
|----|---------|--------|---------|---------|---------|--------|--------|
| #1 | .05730  | .00036 | .03283  | .00338  | -.00328 | .00248 | .00081 |
| #2 | .10343  | .00022 | -.00608 | .00542  | .00078  | .00205 | .00078 |
| #3 | -.01317 | .00071 | .03095  | -.00065 | .00135  | .00125 | .00035 |

Sample Name: CCB11      Acquired: 3/27/2019 23:21:59      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-3      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |          |          |
|--------|----------|--------|--------|----------|----------|
| Elem   | Li6707   | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm      | ppm    | ppm    | ppm      | ppm      |
| Avg    | F .00724 | .0046  | .00020 | F<.00000 | F 43.275 |
| Stddev | .00162   | .0018  | .00003 | .19475   | 23.612   |
| %RSD   | 22.327   | 39.88  | 15.822 | 16.187   | 54.563   |

|    |        |       |        |         |        |
|----|--------|-------|--------|---------|--------|
| #1 | .00711 | .0054 | .00020 | -.97908 | 52.109 |
| #2 | .00569 | .0058 | .00016 | -1.2981 | 16.520 |
| #3 | .00892 | .0025 | .00023 | -1.3321 | 61.197 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2998.0 | 53793. | 3075.3 | 44.447 | 4216.1 |
| Stddev    | 5.1    | 197.   | 14.9   | 1.007  | 8.4    |
| %RSD      | .17095 | .36697 | .48345 | 2.2647 | .19968 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2993.1 | 53981. | 3066.5 | 45.133 | 4207.0 |
| #2 | 2997.6 | 53587. | 3092.5 | 43.292 | 4217.8 |
| #3 | 3003.3 | 53809. | 3067.0 | 44.917 | 4223.5 |

Sample Name: K2097-06      Acquired: 3/27/2019 23:26:29      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-6      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .25113 | .01692 | .20314 | .04433 | -.00157 | 9.2490 | .18666 |
| Stddev | .00164 | .00281 | .00465 | .00295 | .00184  | .0791  | .00235 |
| %RSD   | .65440 | 16.587 | 2.2892 | 6.6486 | 116.96  | .85482 | 1.2570 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .24924 | .01723 | .20090 | .04550 | .00033  | 9.3234 | .18935 |
| #2 | .25219 | .01397 | .20003 | .04651 | -.00171 | 9.2575 | .18506 |
| #3 | .25197 | .01956 | .20849 | .04097 | -.00333 | 9.1660 | .18556 |

|        |         |        |          |        |        |        |        |
|--------|---------|--------|----------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736   | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm      | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00872 | .00670 | F 3767.2 | .11221 | .06054 | .54894 | 161.95 |
| Stddev | .00022  | .00015 | 22.6     | .00160 | .00027 | .00254 | 1.01   |
| %RSD   | 2.5440  | 2.2253 | .59965   | 1.4261 | .43838 | .46313 | .62217 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00897 | .00668 | 3747.9 | .11306 | .06083 | .55105 | 161.47 |
| #2 | -.00855 | .00656 | 3792.0 | .11036 | .06047 | .54612 | 163.11 |
| #3 | -.00864 | .00686 | 3761.6 | .11320 | .06031 | .54964 | 161.28 |

|        |        |          |        |         |        |        |        |
|--------|--------|----------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm      | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | 3.3131 | F 2570.7 | .08871 | -.07996 | 5.5090 | .12297 | .33085 |
| Stddev | .0036  | 8.9      | .00116 | .00169  | .0362  | .00146 | .00036 |
| %RSD   | .10845 | .34648   | 1.3048 | 2.1134  | .65645 | 1.1892 | .10741 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | 3.3145 | 2578.5 | .08997 | -.08183 | 5.5229 | .12169 | .33054 |
| #2 | 3.3090 | 2561.0 | .08770 | -.07856 | 5.4679 | .12266 | .33078 |
| #3 | 3.3157 | 2572.6 | .08845 | -.07947 | 5.5361 | .12456 | .33124 |

|        |        |        |        |          |        |        |        |
|--------|--------|--------|--------|----------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820   | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm    | ppm    | ppm    |
| Avg    | 6.4989 | .03016 | .12596 | F 44.508 | 2.1431 | .00802 | .41605 |
| Stddev | .0628  | .00096 | .03755 | .039     | .0580  | .00275 | .00663 |
| %RSD   | .96633 | 3.1762 | 29.809 | .08688   | 2.7080 | 34.254 | 1.5927 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 6.5668 | .03007 | .16653 | 44.524 | 2.0872 | .01052 | .41618 |
| #2 | 6.4870 | .02925 | .09243 | 44.463 | 2.1390 | .00508 | .40936 |
| #3 | 6.4429 | .03116 | .11891 | 44.535 | 2.2030 | .00847 | .42261 |

Sample Name: K2097-06      Acquired: 3/27/2019 23:26:29      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-6      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |        |          |
|-----------|--------|--------|--------|--------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg       | .29284 | 3.853  | 1.5564 | .52754 | F<.00000 |
| Stddev    | .00332 | .018   | .0139  | .24092 | 44.469   |
| %RSD      | 1.1352 | .4729  | .89418 | 45.668 | 1.3775   |
| #1        | .29035 | 3.838  | 1.5432 | .73255 | -3260.3  |
| #2        | .29156 | 3.847  | 1.5550 | .26219 | -3177.5  |
| #3        | .29662 | 3.873  | 1.5710 | .58790 | -3246.9  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S    |
| Avg       | 2239.1 | 43092. | 2893.5 | 33.187 | 2435.1   |
| Stddev    | 8.9    | 14.    | 30.9   | 1.164  | 5.2      |
| %RSD      | .39696 | .03261 | 1.0687 | 3.5085 | .21228   |
| #1        | 2228.8 | 43082. | 2928.3 | 34.224 | 2429.2   |
| #2        | 2244.6 | 43108. | 2883.2 | 31.927 | 2438.0   |
| #3        | 2243.8 | 43086. | 2869.0 | 33.408 | 2438.3   |

Sample Name: K2102-01      Acquired: 3/27/2019 23:30:58      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .07528 | .00064 | .03086 | .03822 | -.00102 | 21.764 | .13013 |
| Stddev | .00207 | .00031 | .00081 | .00343 | .00102  | .238   | .00192 |
| %RSD   | 2.7506 | 48.547 | 2.6231 | 8.9850 | 99.852  | 1.0955 | 1.4776 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .07628 | .00099 | .03001 | .04181 | -.00102 | 21.945 | .13220 |
| #2 | .07666 | .00038 | .03163 | .03497 | -.00000 | 21.494 | .12840 |
| #3 | .07290 | .00056 | .03094 | .03786 | -.00204 | 21.853 | .12978 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00576 | -.00429 | 4.5705 | .15804 | .01324 | .16878 | 93.217 |
| Stddev | .00019  | .00004  | .0109  | .00049 | .00018 | .00044 | .541   |
| %RSD   | 3.2345  | .99469  | .23790 | .30898 | 1.3532 | .26159 | .58001 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00555 | -.00433 | 4.5674 | .15840 | .01303 | .16847 | 93.316 |
| #2 | -.00582 | -.00425 | 4.5825 | .15748 | .01333 | .16859 | 92.633 |
| #3 | -.00591 | -.00428 | 4.5614 | .15823 | .01335 | .16929 | 93.701 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .90474 | 2.6374 | .00453 | -.00750 | 1.2335 | .13801 | .05530 |
| Stddev | .00213 | .0739  | .00017 | .00051  | .0259  | .00105 | .00032 |
| %RSD   | .23511 | 2.8023 | 3.7255 | 6.8231  | 2.1018 | .76371 | .57084 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .90484 | 2.5549 | .00457 | -.00722 | 1.2278 | .13718 | .05545 |
| #2 | .90256 | 2.6974 | .00468 | -.00809 | 1.2109 | .13765 | .05494 |
| #3 | .90681 | 2.6599 | .00435 | -.00719 | 1.2618 | .13920 | .05551 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.5114 | .00239 | .02384 | .92153 | 2.0468 | .00164 | .51268 |
| Stddev | .0530  | .00038 | .00984 | .00900 | .0363  | .00022 | .00477 |
| %RSD   | 2.1099 | 16.058 | 41.289 | .97685 | 1.7729 | 13.369 | .92973 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.5272 | .00205 | .01292 | .92857 | 2.0431 | .00140 | .51275 |
| #2 | 2.4523 | .00233 | .02656 | .92463 | 2.0848 | .00171 | .51741 |
| #3 | 2.5546 | .00281 | .03204 | .91138 | 2.0126 | .00182 | .50787 |



Sample Name: K2102-01      Acquired: 3/27/2019 23:30:58      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |         |         |          |
|-----------|--------|--------|---------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg       | .01287 | .7714  | -.06246 | <.00000 | F<.00000 |
| Stddev    | .00100 | .0005  | .00070  | .43407  | 12.963   |
| %RSD      | 7.7749 | .0619  | 1.1144  | 14.477  | .53909   |
| #1        | .01351 | .7712  | -.06258 | -2.5578 | -2392.3  |
| #2        | .01171 | .7719  | -.06171 | -3.4256 | -2418.1  |
| #3        | .01337 | .7711  | -.06309 | -3.0120 | -2403.1  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3133.0 | 56323. | 3303.7  | 43.794  | 4110.9   |
| Stddev    | 3.6    | 310.   | 34.3    | .575    | 2.3      |
| %RSD      | .11388 | .55036 | 1.0377  | 1.3126  | .05551   |
| #1        | 3136.9 | 56171. | 3297.4  | 43.142  | 4108.2   |
| #2        | 3129.9 | 56680. | 3273.1  | 44.017  | 4112.1   |
| #3        | 3132.3 | 56119. | 3340.8  | 44.225  | 4112.3   |

Sample Name: K2102-01DUP      Acquired: 3/27/2019 23:35:27      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068  | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .09562 | .00129 | .02840 | .04321 | -.00189 | 21.899 | .12726 |
| Stddev | .00032 | .00100 | .00074 | .00258 | .00018  | .121   | .00116 |
| %RSD   | .33782 | 77.422 | 2.6147 | 5.9649 | 9.5679  | .55378 | .91285 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .09595 | .00204 | .02918 | .04592 | -.00195 | 21.814 | .12676 |
| #2 | .09561 | .00168 | .02770 | .04291 | -.00168 | 22.038 | .12859 |
| #3 | .09530 | .00016 | .02832 | .04079 | -.00203 | 21.846 | .12643 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00601 | -.00475 | 4.7429 | .19372 | .01335 | .18292 | 102.04 |
| Stddev | .00006  | .00002  | .0168  | .00181 | .00005 | .00125 | .30    |
| %RSD   | .98331  | .32572  | .35316 | .93543 | .39652 | .68532 | .29192 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00605 | -.00474 | 4.7613 | .19581 | .01329 | .18422 | 101.88 |
| #2 | -.00603 | -.00476 | 4.7388 | .19252 | .01339 | .18282 | 101.86 |
| #3 | -.00594 | -.00477 | 4.7286 | .19284 | .01336 | .18172 | 102.39 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .95696 | 2.8252 | .00378 | -.00736 | 1.1554 | .14051 | .05468 |
| Stddev | .00122 | .1403  | .00061 | .00008  | .0095  | .00152 | .00004 |
| %RSD   | .12708 | 4.9666 | 16.171 | 1.0596  | .82587 | 1.0789 | .08192 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .95717 | 2.7531 | .00371 | -.00739 | 1.1535 | .14197 | .05473 |
| #2 | .95566 | 2.9869 | .00443 | -.00741 | 1.1658 | .13895 | .05464 |
| #3 | .95807 | 2.7356 | .00322 | -.00727 | 1.1470 | .14062 | .05468 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.4699 | .00267 | .04402 | .91681 | 1.9716 | .00231 | .50346 |
| Stddev | .0370  | .00023 | .00393 | .00811 | .0134  | .00058 | .00364 |
| %RSD   | 1.4996 | 8.6861 | 8.9211 | .88416 | .67857 | 25.021 | .72310 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.4281 | .00282 | .04792 | .91474 | 1.9690 | .00223 | .49947 |
| #2 | 2.4830 | .00279 | .04006 | .92575 | 1.9598 | .00293 | .50432 |
| #3 | 2.4986 | .00241 | .04409 | .90994 | 1.9861 | .00178 | .50659 |

Sample Name: K2102-01DUP      Acquired: 3/27/2019 23:35:27      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |         |         |          |
|-----------|--------|--------|---------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg       | .01199 | .7746  | -.07195 | <.00000 | F<.00000 |
| Stddev    | .00077 | .0041  | .00019  | .19674  | 21.730   |
| %RSD      | 6.4077 | .5272  | .26225  | 4.8517  | .80453   |
| #1        | .01246 | .7746  | -.07186 | -4.2820 | -2676.1  |
| #2        | .01242 | .7787  | -.07216 | -3.9320 | -2716.5  |
| #3        | .01111 | .7705  | -.07182 | -3.9512 | -2710.3  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710  | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S   | Cts/S   | Cts/S    |
| Avg       | 3150.9 | 57100. | 3333.3  | 44.728  | 4127.3   |
| Stddev    | 10.8   | 26.    | 31.6    | .880    | 7.8      |
| %RSD      | .34281 | .04592 | .94901  | 1.9679  | .19015   |
| #1        | 3138.8 | 57125. | 3339.1  | 43.967  | 4118.4   |
| #2        | 3154.6 | 57102. | 3361.6  | 44.525  | 4130.2   |
| #3        | 3159.4 | 57072. | 3299.2  | 45.692  | 4133.2   |

Sample Name: K2102-01LX5      Acquired: 3/27/2019 23:39:57      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-4      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .01824 | -.00029 | .00535 | .00755 | .00086 | 4.5629 | .03034 |
| Stddev | .00115 | .00050  | .00025 | .00483 | .00082 | .0524  | .00086 |
| %RSD   | 6.2856 | 172.69  | 4.6527 | 64.007 | 95.611 | 1.1496 | 2.8178 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .01948 | -.00051 | .00517 | .00507 | .00163 | 4.5035 | .03097 |
| #2 | .01803 | .00028  | .00563 | .01312 | .00000 | 4.5824 | .03069 |
| #3 | .01722 | -.00065 | .00525 | .00446 | .00093 | 4.6029 | .02937 |

|        |         |         |        |        |        |        |        |
|--------|---------|---------|--------|--------|--------|--------|--------|
| Elem   | Be2348  | Cd2265  | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm     | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | -.00137 | -.00105 | 1.0111 | .03872 | .00243 | .03858 | 21.680 |
| Stddev | .00008  | .00007  | .0181  | .00107 | .00021 | .00041 | .091   |
| %RSD   | 5.4779  | 7.0935  | 1.7876 | 2.7568 | 8.5575 | 1.0565 | .41823 |

|    |         |         |        |        |        |        |        |
|----|---------|---------|--------|--------|--------|--------|--------|
| #1 | -.00146 | -.00113 | .99497 | .03991 | .00242 | .03901 | 21.668 |
| #2 | -.00136 | -.00100 | 1.0306 | .03839 | .00264 | .03820 | 21.777 |
| #3 | -.00131 | -.00101 | 1.0076 | .03785 | .00223 | .03851 | 21.596 |

|        |        |        |        |         |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .20610 | .58507 | .00205 | -.00208 | .38108 | .02991 | .01122 |
| Stddev | .00089 | .01477 | .00020 | .00024  | .01215 | .00031 | .00016 |
| %RSD   | .43218 | 2.5249 | 9.8896 | 11.343  | 3.1873 | 1.0232 | 1.4699 |

|    |        |        |        |         |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|
| #1 | .20603 | .58060 | .00211 | -.00208 | .36724 | .03026 | .01141 |
| #2 | .20702 | .60156 | .00221 | -.00184 | .38997 | .02981 | .01111 |
| #3 | .20525 | .57305 | .00182 | -.00231 | .38604 | .02967 | .01113 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .55194 | .00034 | .03266 | .19142 | .43901 | .00087 | .11195 |
| Stddev | .03430 | .00034 | .01262 | .00234 | .00534 | .00137 | .00331 |
| %RSD   | 6.2136 | 101.16 | 38.642 | 1.2227 | 1.2174 | 156.95 | 2.9553 |

|    |        |         |        |        |        |         |        |
|----|--------|---------|--------|--------|--------|---------|--------|
| #1 | .51234 | .00066  | .04304 | .19380 | .43370 | .00017  | .11210 |
| #2 | .57100 | .00037  | .01861 | .18913 | .44439 | .00245  | .10857 |
| #3 | .57246 | -.00002 | .03634 | .19133 | .43893 | -.00000 | .11518 |

Sample Name: K2102-01LX5      Acquired: 3/27/2019 23:39:57      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-4      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |         |         |          |
|--------|--------|--------|---------|---------|----------|
| Elem   | Li6707 | P_1774 | Sr4077  | U_3670  | U_3859   |
| Units  | ppm    | ppm    | ppm     | ppm     | ppm      |
| Avg    | .00414 | .1639  | -.01496 | <.00000 | F<.00000 |
| Stddev | .00195 | .0018  | .00022  | .17902  | 6.0396   |
| %RSD   | 47.182 | 1.091  | 1.4659  | 9.9463  | 4.5867   |

|    |        |       |         |         |         |
|----|--------|-------|---------|---------|---------|
| #1 | .00527 | .1656 | -.01521 | -1.8513 | -125.12 |
| #2 | .00527 | .1621 | -.01486 | -1.9476 | -132.90 |
| #3 | .00188 | .1641 | -.01480 | -1.6008 | -137.01 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 3031.0 | 54533. | 3117.7 | 42.744 | 4187.6 |
| Stddev    | 7.1    | 140.   | 7.2    | .805   | 17.7   |
| %RSD      | .23398 | .25744 | .23030 | 1.8823 | .42244 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 3031.1 | 54455. | 3117.4 | 43.167 | 4178.3 |
| #2 | 3023.8 | 54449. | 3110.7 | 41.817 | 4176.5 |
| #3 | 3038.0 | 54695. | 3125.0 | 43.250 | 4208.0 |

Sample Name: K2102-01MS      Acquired: 3/27/2019 23:44:25      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .78698 | 1.9882 | .98975 | 1.9331 | .25790 | 35.376 | .34075 |
| Stddev | .00321 | .0039  | .00218 | .0082  | .00072 | .175   | .00192 |
| %RSD   | .40840 | .19370 | .22075 | .42444 | .27865 | .49513 | .56245 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .78374 | 1.9926 | .99082 | 1.9284 | .25826 | 35.233 | .34037 |
| #2 | .78703 | 1.9863 | .98724 | 1.9283 | .25837 | 35.571 | .34283 |
| #3 | .79017 | 1.9856 | .99119 | 1.9426 | .25707 | 35.324 | .33905 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19599 | .18889 | 5.3059 | .49903 | .20669 | .44810 | 79.218 |
| Stddev | .00064 | .00001 | .0360  | .00126 | .00075 | .00088 | .459   |
| %RSD   | .32530 | .00438 | .67885 | .25248 | .36146 | .19528 | .57933 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19546 | .18889 | 5.2977 | .49767 | .20639 | .44802 | 79.000 |
| #2 | .19670 | .18890 | 5.2746 | .49927 | .20615 | .44726 | 78.910 |
| #3 | .19581 | .18888 | 5.3453 | .50015 | .20754 | .44901 | 79.746 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.0082 | 4.5781 | .49177 | .06740 | 4.1286 | .42756 | .23587 |
| Stddev | .0037  | .0684  | .00083 | .00060 | .0413  | .00176 | .00009 |
| %RSD   | .36172 | 1.4934 | .16916 | .88673 | 1.0010 | .41221 | .03674 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0042 | 4.5129 | .49088 | .06719 | 4.1147 | .42561 | .23578 |
| #2 | 1.0114 | 4.6492 | .49190 | .06808 | 4.1751 | .42803 | .23588 |
| #3 | 1.0090 | 4.5721 | .49253 | .06694 | 4.0961 | .42905 | .23595 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 11.728 | .36078 | .30015 | .89086 | 4.7273 | .62657 | .68752 |
| Stddev | .104   | .00069 | .01964 | .00563 | .0939  | .00252 | .00040 |
| %RSD   | .88737 | .18988 | 6.5421 | .63190 | 1.9862 | .40243 | .05834 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 11.678 | .36059 | .27851 | .89451 | 4.8087 | .62941 | .68722 |
| #2 | 11.848 | .36021 | .30510 | .88437 | 4.7487 | .62570 | .68737 |
| #3 | 11.659 | .36154 | .31683 | .89369 | 4.6246 | .62460 | .68798 |

Sample Name: K2102-01MS      Acquired: 3/27/2019 23:44:25      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |         |          |
|-----------|--------|--------|--------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm     | ppm      |
| Avg       | .21383 | 5.788  | .16223 | <.00000 | F<.00000 |
| Stddev    | .00104 | .011   | .00210 | .04443  | 53.268   |
| %RSD      | .48424 | .1862  | 1.2964 | 1.4995  | 2.4530   |
| #1        | .21270 | 5.800  | .16400 | -3.0110 | -2170.8  |
| #2        | .21405 | 5.780  | .15991 | -2.9233 | -2118.6  |
| #3        | .21474 | 5.784  | .16279 | -2.9548 | -2225.2  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S    |
| Avg       | 3114.0 | 56539. | 3239.1 | 44.357  | 4060.8   |
| Stddev    | 2.7    | 230.   | 25.1   | 1.368   | 3.2      |
| %RSD      | .08656 | .40671 | .77413 | 3.0837  | .07871   |
| #1        | 3116.2 | 56801. | 3231.2 | 45.258  | 4057.1   |
| #2        | 3111.0 | 56373. | 3267.1 | 45.030  | 4062.4   |
| #3        | 3114.8 | 56443. | 3218.9 | 42.783  | 4062.9   |

Sample Name: K2102-01MSD      Acquired: 3/27/2019 23:48:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .79474 | 1.9908 | .99933 | 1.9501 | .25984 | 36.338 | .34685 |
| Stddev | .00414 | .0169  | .00614 | .0146  | .00119 | .292   | .00404 |
| %RSD   | .52098 | .84832 | .61439 | .74588 | .45974 | .80348 | 1.1659 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .79952 | 2.0092 | 1.0054 | 1.9667 | .26058 | 36.046 | .34353 |
| #2 | .79243 | 1.9871 | .99309 | 1.9442 | .26048 | 36.337 | .34568 |
| #3 | .79228 | 1.9760 | .99955 | 1.9394 | .25846 | 36.630 | .35135 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19607 | .18978 | 5.2650 | .50910 | .20720 | .45544 | 81.015 |
| Stddev | .00025 | .00114 | .0086  | .00322 | .00094 | .00308 | .387   |
| %RSD   | .12735 | .59990 | .16363 | .63226 | .45586 | .67615 | .47739 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19617 | .19108 | 5.2717 | .51161 | .20823 | .45899 | 81.444 |
| #2 | .19626 | .18924 | 5.2682 | .50547 | .20638 | .45354 | 80.906 |
| #3 | .19579 | .18900 | 5.2553 | .51023 | .20698 | .45378 | 80.694 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.0175 | 4.6154 | .49493 | .06695 | 4.2587 | .43161 | .24139 |
| Stddev | .0014  | .1240  | .00147 | .00091 | .0341  | .00126 | .00127 |
| %RSD   | .13451 | 2.6868 | .29621 | 1.3630 | .79992 | .29171 | .52667 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0173 | 4.5671 | .49662 | .06794 | 4.2517 | .43129 | .24285 |
| #2 | 1.0163 | 4.7562 | .49399 | .06615 | 4.2286 | .43054 | .24051 |
| #3 | 1.0190 | 4.5227 | .49419 | .06675 | 4.2957 | .43299 | .24081 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 11.924 | .36322 | .30832 | .92215 | 4.8279 | .62913 | .70197 |
| Stddev | .081   | .00192 | .02448 | .00964 | .0501  | .00401 | .00096 |
| %RSD   | .67672 | .52754 | 7.9385 | 1.0452 | 1.0379 | .63785 | .13747 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 11.882 | .36534 | .31771 | .93321 | 4.8452 | .63372 | .70309 |
| #2 | 11.873 | .36161 | .28054 | .91552 | 4.8671 | .62630 | .70138 |
| #3 | 12.017 | .36272 | .32671 | .91774 | 4.7714 | .62737 | .70145 |



Sample Name: K2102-01MSD      Acquired: 3/27/2019 23:48:41      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TT-001-IDWSO      Custom ID2:      Custom ID3:  
Comment:

|           |        |        |        |         |          |
|-----------|--------|--------|--------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm     | ppm      |
| Avg       | .21379 | 5.813  | .16144 | <.00000 | F<.00000 |
| Stddev    | .00053 | .051   | .00119 | .09351  | 45.692   |
| %RSD      | .24893 | .8716  | .73705 | 4.8353  | 2.1117   |
| #1        | .21332 | 5.862  | .16167 | -2.0275 | -2159.2  |
| #2        | .21437 | 5.817  | .16015 | -1.9337 | -2211.6  |
| #3        | .21368 | 5.761  | .16250 | -1.8405 | -2120.6  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S    |
| Avg       | 3108.7 | 55987. | 3239.3 | 43.057  | 4056.6   |
| Stddev    | 4.7    | 205.   | 13.6   | .275    | 1.9      |
| %RSD      | .15010 | .36603 | .41978 | .63915  | .04773   |
| #1        | 3103.4 | 56036. | 3242.9 | 42.758  | 4056.0   |
| #2        | 3110.8 | 56163. | 3224.2 | 43.114  | 4055.0   |
| #3        | 3112.0 | 55762. | 3250.7 | 43.300  | 4058.7   |

Sample Name: K2102-01A      Acquired: 3/27/2019 23:52:56      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-5      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .79890 | 1.9934 | .99676 | 1.9565 | .26058 | 36.417 | .34852 |
| Stddev | .00210 | .0069  | .00591 | .0006  | .00113 | .078   | .00124 |
| %RSD   | .26320 | .34525 | .59296 | .03200 | .43405 | .21323 | .35475 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .79910 | 1.9982 | 1.0033 | 1.9559 | .26041 | 36.503 | .34863 |
| #2 | .79671 | 1.9855 | .99172 | 1.9571 | .26179 | 36.353 | .34723 |
| #3 | .80090 | 1.9964 | .99530 | 1.9564 | .25955 | 36.393 | .34969 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19687 | .18945 | 5.1784 | .50733 | .20792 | .45524 | 81.590 |
| Stddev | .00014 | .00074 | .1394  | .00248 | .00054 | .00124 | .326   |
| %RSD   | .07029 | .39042 | 2.6913 | .48942 | .25999 | .27292 | .39975 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19672 | .19029 | 5.2199 | .50487 | .20852 | .45562 | 81.910 |
| #2 | .19700 | .18889 | 5.0230 | .50729 | .20776 | .45386 | 81.258 |
| #3 | .19690 | .18919 | 5.2923 | .50983 | .20747 | .45626 | 81.604 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 1.0182 | 4.6159 | .49384 | .06809 | 4.2741 | .43346 | .24045 |
| Stddev | .0017  | .0375  | .00132 | .00038 | .0201  | .00280 | .00093 |
| %RSD   | .17067 | .81319 | .26732 | .56227 | .47032 | .64561 | .38737 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 1.0164 | 4.6500 | .49537 | .06773 | 4.2838 | .43667 | .24140 |
| #2 | 1.0184 | 4.6219 | .49302 | .06805 | 4.2874 | .43151 | .23954 |
| #3 | 1.0199 | 4.5757 | .49314 | .06850 | 4.2510 | .43220 | .24041 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 11.996 | .36267 | .29224 | .92304 | 4.6183 | .62980 | .68690 |
| Stddev | .058   | .00077 | .01881 | .00721 | .1522  | .00344 | .01715 |
| %RSD   | .48226 | .21359 | 6.4377 | .78119 | 3.2963 | .54652 | 2.4962 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 11.971 | .36192 | .31326 | .91520 | 4.6319 | .63340 | .69583 |
| #2 | 12.062 | .36263 | .27699 | .92940 | 4.4598 | .62654 | .66713 |
| #3 | 11.954 | .36347 | .28645 | .92451 | 4.7633 | .62946 | .69773 |

Sample Name: K2102-01A      Acquired: 3/27/2019 23:52:56      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TP-5      Custom ID2:      Custom ID3:  
 Comment:

|           |        |        |        |         |          |
|-----------|--------|--------|--------|---------|----------|
| Elem      | Li6707 | P_1774 | Sr4077 | U_3670  | U_3859   |
| Units     | ppm    | ppm    | ppm    | ppm     | ppm      |
| Avg       | .21012 | 5.820  | .15640 | <.00000 | F<.00000 |
| Stddev    | .00425 | .026   | .00477 | .26851  | 7.8867   |
| %RSD      | 2.0221 | .4490  | 3.0498 | 10.130  | .36297   |
| #1        | .21257 | 5.835  | .16069 | -2.9127 | -2180.9  |
| #2        | .20522 | 5.790  | .15126 | -2.3761 | -2165.1  |
| #3        | .21259 | 5.835  | .15724 | -2.6627 | -2172.4  |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306  | In2306   |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S   | Cts/S    |
| Avg       | 3103.2 | 56117. | 3321.0 | 43.676  | 4053.3   |
| Stddev    | 6.2    | 213.   | 76.5   | 1.693   | 10.3     |
| %RSD      | .19847 | .37913 | 2.3037 | 3.8750  | .25497   |
| #1        | 3104.3 | 56363. | 3296.9 | 42.417  | 4043.3   |
| #2        | 3096.6 | 55998. | 3406.7 | 45.600  | 4052.7   |
| #3        | 3108.7 | 55991. | 3259.5 | 43.012  | 4064.0   |

Sample Name: K2086-08      Acquired: 3/27/2019 23:57:13      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-11      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |        |        |         |
|--------|--------|---------|--------|---------|--------|--------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00204 | -.00232 | .00173 | -.00150 | .00073 | .00164 | .04292 | -.00010 |
| Stddev | .00228 | .00133  | .00038 | .00442  | .00036 | .00437 | .00042 | .00004  |
| %RSD   | 111.38 | 57.441  | 21.790 | 293.76  | 48.904 | 266.15 | .98455 | 42.525  |

|    |        |         |        |         |        |         |        |         |
|----|--------|---------|--------|---------|--------|---------|--------|---------|
| #1 | .00080 | -.00234 | .00157 | -.00654 | .00107 | -.00021 | .04341 | -.00009 |
| #2 | .00066 | -.00364 | .00146 | .00169  | .00075 | -.00150 | .04266 | -.00014 |
| #3 | .00467 | -.00097 | .00216 | .00034  | .00036 | .00664  | .04269 | -.00006 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00038 | 2.8056 | .00095 | .00056 | .01240 | .02358 | .05154 | .41241 |
| Stddev | .00005 | .0089  | .00060 | .00032 | .00024 | .00017 | .00025 | .05420 |
| %RSD   | 14.135 | .31696 | 62.680 | 56.600 | 1.9011 | .72756 | .49216 | 13.141 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00043 | 2.8134 | .00030 | .00074 | .01262 | .02339 | .05163 | .35798 |
| #2 | .00038 | 2.7959 | .00109 | .00074 | .01243 | .02360 | .05126 | .46637 |
| #3 | .00032 | 2.8074 | .00147 | .00019 | .01215 | .02373 | .05174 | .41288 |

|        |        |         |        |         |        |        |         |        |
|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020  | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm     | ppm    |
| Avg    | .00127 | -.00038 | 258.57 | -.00009 | .01712 | .38654 | -.00013 | .01168 |
| Stddev | .00038 | .00067  | 1.91   | .00040  | .00004 | .04123 | .00034  | .02396 |
| %RSD   | 29.640 | 177.66  | .73685 | 461.96  | .20738 | 10.665 | 268.13  | 205.16 |

|    |        |         |        |         |        |        |         |         |
|----|--------|---------|--------|---------|--------|--------|---------|---------|
| #1 | .00087 | -.00113 | 260.07 | -.00018 | .01712 | .34169 | .00007  | .03919  |
| #2 | .00161 | .00018  | 256.42 | -.00043 | .01708 | .39514 | .00007  | -.00455 |
| #3 | .00133 | -.00019 | 259.20 | .00035  | .01715 | .42279 | -.00052 | .00039  |

|        |        |        |        |         |        |        |        |         |
|--------|--------|--------|--------|---------|--------|--------|--------|---------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .03611 | .12643 | .00106 | -.00043 | .00053 | .0130  | .01386 | <.00000 |
| Stddev | .00296 | .00275 | .00039 | .00120  | .00087 | .0016  | .00012 | .27790  |
| %RSD   | 8.1957 | 2.1762 | 36.777 | 277.00  | 162.54 | 12.47  | .84809 | 130.82  |

|    |        |        |        |         |         |       |        |         |
|----|--------|--------|--------|---------|---------|-------|--------|---------|
| #1 | .03460 | .12510 | .00062 | -.00182 | .00009  | .0113 | .01375 | -.40198 |
| #2 | .03421 | .12959 | .00134 | .00029  | -.00003 | .0132 | .01399 | -.34188 |
| #3 | .03952 | .12459 | .00123 | .00023  | .00153  | .0145 | .01385 | .10658  |

Sample Name: K2086-08      Acquired: 3/27/2019 23:57:13      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-11      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 125.51 |
| Stddev | 13.23    |
| %RSD   | 10.539   |

|    |        |
|----|--------|
| #1 | 138.12 |
| #2 | 111.74 |
| #3 | 126.68 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2881.0 | 51977. | 3129.4 | 44.086 | 3808.9 |
| Stddev    | 8.9    | 205.   | 38.6   | .364   | 10.3   |
| %RSD      | .30816 | .39358 | 1.2336 | .82620 | .27109 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2870.8 | 51760. | 3168.2 | 44.452 | 3799.5 |
| #2 | 2886.8 | 52166. | 3091.0 | 43.724 | 3820.0 |
| #3 | 2885.5 | 52006. | 3128.9 | 44.082 | 3807.4 |

Sample Name: K2086-08DUP      Acquired: 3/28/2019 0:01:42      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-11DUP      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00148 | -.00295 | .00168 | -.00229 | .00011  | -.01024 | .03986 | -.00013 |
| Stddev | .00075 | .00124  | .00115 | .00435  | .00117  | .02414  | .00064 | .00004  |
| %RSD   | 50.513 | 41.959  | 68.313 | 190.28  | 1042.8  | 235.74  | 1.6130 | 28.340  |
| #1     | .00128 | -.00431 | .00242 | -.00219 | .00075  | .01381  | .03913 | -.00010 |
| #2     | .00231 | -.00187 | .00036 | .00202  | -.00124 | -.03446 | .04012 | -.00017 |
| #3     | .00086 | -.00268 | .00227 | -.00668 | .00082  | -.01006 | .04034 | -.00012 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00024 | 2.5227  | .00167 | .00055  | .01172  | .02403  | .04616 | .32424  |
| Stddev | .00009 | .0182   | .00018 | .00008  | .00004  | .00138  | .00026 | .10514  |
| %RSD   | 36.913 | .72204  | 10.851 | 15.447  | .29923  | 5.7376  | .56100 | 32.426  |
| #1     | .00032 | 2.5149  | .00177 | .00060  | .01171  | .02557  | .04646 | .22826  |
| #2     | .00026 | 2.5098  | .00146 | .00045  | .01168  | .02362  | .04599 | .43661  |
| #3     | .00015 | 2.5436  | .00178 | .00059  | .01175  | .02291  | .04605 | .30786  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00125 | -.00122 | 229.23 | -.00055 | .01539  | .37197  | .00033 | .01253  |
| Stddev | .00035 | .00108  | .44    | .00040  | .00008  | .05024  | .00022 | .02971  |
| %RSD   | 27.915 | 88.873  | .19130 | 74.109  | .53398  | 13.507  | 67.135 | 237.14  |
| #1     | .00149 | -.00220 | 229.27 | -.00064 | .01531  | .33654  | .00042 | -.00374 |
| #2     | .00142 | -.00006 | 228.77 | -.00010 | .01540  | .34990  | .00008 | -.00550 |
| #3     | .00085 | -.00140 | 229.64 | -.00089 | .01547  | .42947  | .00049 | .04682  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .03671 | .11201  | .00185 | .00123  | .00955  | .0104   | .01229 | <.00000 |
| Stddev | .00166 | .00456  | .00055 | .00259  | .00408  | .0014   | .00011 | .19779  |
| %RSD   | 4.5151 | 4.0697  | 30.030 | 211.18  | 42.705  | 13.82   | .90637 | 189.26  |
| #1     | .03559 | .11721  | .00122 | -.00175 | .00499  | .0121   | .01241 | .09824  |
| #2     | .03861 | .11011  | .00207 | .00294  | .01081  | .0096   | .01219 | -.11484 |
| #3     | .03593 | .10870  | .00226 | .00250  | .01286  | .0096   | .01228 | -.29693 |

Sample Name: K2086-08DUP      Acquired: 3/28/2019 0:01:42      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-11DUP      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 123.57 |
| Stddev | 37.60    |
| %RSD   | 30.430   |

|    |        |
|----|--------|
| #1 | 141.53 |
| #2 | 148.82 |
| #3 | 80.353 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2895.9 | 52169. | 3151.4 | 42.523 | 3864.5 |
| Stddev    | 14.1   | 284.   | 45.9   | .489   | 24.4   |
| %RSD      | .48524 | .54379 | 1.4568 | 1.1510 | .63105 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2880.3 | 51855. | 3102.2 | 42.623 | 3836.4 |
| #2 | 2900.0 | 52244. | 3193.1 | 42.955 | 3876.7 |
| #3 | 2907.5 | 52408. | 3158.8 | 41.991 | 3880.4 |

Sample Name: K2086-08LX5      Acquired: 3/28/2019 0:06:11      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: TP-6      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00147 | -.00082 | .00071 | -.00400 | -.00121 | -.02706 | .01245 | -.00007 |
| Stddev | .00259 | .00127  | .00067 | .00240  | .00244  | .01497  | .00207 | .00009  |
| %RSD   | 175.41 | 155.01  | 94.210 | 60.167  | 202.43  | 55.315  | 16.602 | 136.43  |

|    |         |         |        |         |         |         |        |         |
|----|---------|---------|--------|---------|---------|---------|--------|---------|
| #1 | -.00148 | -.00078 | .00003 | -.00584 | -.00401 | -.01418 | .01264 | -.00012 |
| #2 | .00259  | .00043  | .00137 | -.00128 | .00040  | -.04349 | .01441 | .00004  |
| #3 | .00331  | -.00210 | .00073 | -.00487 | .00000  | -.02353 | .01029 | -.00012 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00014 | .56809 | .00070 | .00011 | .00244 | .00996 | .01051 | .02855 |
| Stddev | .00001 | .00869 | .00016 | .00026 | .00025 | .00051 | .00018 | .03138 |
| %RSD   | 6.6603 | 1.5301 | 23.108 | 242.23 | 10.035 | 5.1365 | 1.6688 | 109.93 |

|    |        |        |        |         |        |        |        |         |
|----|--------|--------|--------|---------|--------|--------|--------|---------|
| #1 | .00015 | .57202 | .00088 | .00040  | .00216 | .00940 | .01037 | .05117  |
| #2 | .00013 | .55813 | .00056 | -.00008 | .00260 | .01009 | .01045 | .04176  |
| #3 | .00015 | .57412 | .00067 | -.00000 | .00257 | .01040 | .01070 | -.00728 |

|        |        |         |        |         |        |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00107 | -.00062 | 49.352 | -.00014 | .00393 | .07618 | .00007 | .00950 |
| Stddev | .00066 | .00042  | .271   | .00040  | .00013 | .07222 | .00009 | .02612 |
| %RSD   | 61.868 | 67.466  | .54858 | 295.55  | 3.2449 | 94.803 | 131.86 | 274.80 |

|    |        |         |        |         |        |         |        |         |
|----|--------|---------|--------|---------|--------|---------|--------|---------|
| #1 | .00034 | -.00064 | 49.099 | -.00055 | .00386 | .13746  | .00002 | .01580  |
| #2 | .00162 | -.00019 | 49.637 | .00025  | .00408 | .09453  | .00001 | -.01919 |
| #3 | .00125 | -.00103 | 49.320 | -.00011 | .00386 | -.00345 | .00018 | .03189  |

|        |        |        |        |         |        |        |        |         |
|--------|--------|--------|--------|---------|--------|--------|--------|---------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00781 | .02118 | .00105 | -.00022 | .00524 | .0063  | .00305 | <.00000 |
| Stddev | .00426 | .00297 | .00057 | .00012  | .00285 | .0024  | .00012 | .70801  |
| %RSD   | 54.583 | 14.041 | 53.900 | 52.242  | 54.312 | 38.34  | 3.9995 | 46.799  |

|    |        |        |        |         |        |       |        |         |
|----|--------|--------|--------|---------|--------|-------|--------|---------|
| #1 | .00448 | .01775 | .00157 | -.00025 | .00823 | .0039 | .00297 | -1.3357 |
| #2 | .00634 | .02272 | .00114 | -.00032 | .00495 | .0062 | .00300 | -.91025 |
| #3 | .01262 | .02307 | .00045 | -.00009 | .00255 | .0087 | .00319 | -2.2926 |



Sample Name: K2086-08LX5      Acquired: 3/28/2019 0:06:11      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: TP-6      Custom ID2:      Custom ID3:  
 Comment:

|        |        |
|--------|--------|
| Elem   | U_3859 |
| Units  | ppm    |
| Avg    | 51.429 |
| Stddev | 43.787 |
| %RSD   | 85.140 |

|    |        |
|----|--------|
| #1 | 76.867 |
| #2 | 76.553 |
| #3 | .86860 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2945.0 | 53345. | 3115.5 | 43.461 | 4047.6 |
| Stddev    | 2.4    | 220.   | 40.5   | .681   | 5.2    |
| %RSD      | .08002 | .41227 | 1.2991 | 1.5680 | .12866 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2942.5 | 53578. | 3101.7 | 44.219 | 4042.6 |
| #2 | 2945.6 | 53142. | 3161.1 | 43.266 | 4047.3 |
| #3 | 2947.1 | 53314. | 3083.8 | 42.899 | 4053.0 |

Sample Name: CCV12      Acquired: 3/28/2019 0:10:40      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB118302BS      Custom ID2:      Custom ID3:  
Comment:

|        |          |        |        |        |        |        |        |          |
|--------|----------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | As1890   | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 4.8842   | 4.8482 | 4.5832 | 5.0851 | 4.9179 | 9.1894 | 9.7118 | .25388   |
| Stddev | .0164    | .0199  | .0068  | .0083  | .0067  | .1036  | .0157  | .00066   |
| %RSD   | .33522   | .40961 | .14851 | .16272 | .13557 | 1.1275 | .16159 | .26071   |
| #1     | 4.8662   | 4.8264 | 4.5908 | 5.0793 | 4.9200 | 9.1241 | 9.7064 | .25338   |
| #2     | 4.8981   | 4.8653 | 4.5777 | 5.0946 | 4.9233 | 9.1351 | 9.6996 | .25463   |
| #3     | 4.8885   | 4.8528 | 4.5810 | 5.0815 | 4.9105 | 9.3088 | 9.7295 | .25363   |
| Elem   | Cd2265   | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3818   | 24.274 | 1.0132 | 2.3045 | 1.2096 | 5.4787 | 2.5826 | 24.701   |
| Stddev | .0026    | .113   | .0055  | .0031  | .0043  | .0160  | .0046  | .296     |
| %RSD   | .11065   | .46346 | .54053 | .13419 | .35300 | .29252 | .17606 | 1.1974   |
| #1     | 2.3848   | 24.363 | 1.0083 | 2.3074 | 1.2101 | 5.4663 | 2.5779 | 24.460   |
| #2     | 2.3809   | 24.310 | 1.0191 | 2.3012 | 1.2136 | 5.4968 | 2.5870 | 24.611   |
| #3     | 2.3798   | 24.147 | 1.0122 | 2.3048 | 1.2051 | 5.4731 | 2.5829 | 25.031   |
| Elem   | Ni2316   | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | 2.3009   | 1.2803 | 25.238 | 2.5406 | 2.2984 | 24.018 | 4.8715 | 4.7837   |
| Stddev | .0048    | .0050  | .113   | .0046  | .0014  | .065   | .0064  | .0456    |
| %RSD   | .20807   | .39066 | .44698 | .18175 | .06094 | .26880 | .13110 | .95253   |
| #1     | 2.3062   | 1.2772 | 25.188 | 2.5371 | 2.3000 | 24.047 | 4.8731 | 4.7525   |
| #2     | 2.2968   | 1.2861 | 25.159 | 2.5459 | 2.2974 | 24.063 | 4.8769 | 4.7628   |
| #3     | 2.2998   | 1.2776 | 25.368 | 2.5389 | 2.2978 | 23.944 | 4.8645 | 4.8360   |
| Elem   | S_1820   | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670   |
| Units  | ppm      | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | F 4.4907 | 4.8736 | 4.6262 | 4.6050 | 4.8890 | 4.500  | 4.7786 | F .00715 |
| Stddev | .0130    | .0670  | .0043  | .0395  | .0475  | .018   | .0420  | .23573   |
| %RSD   | .28935   | 1.3753 | .09225 | .85788 | .97088 | .4005  | .87913 | 3297.3   |
| #1     | 4.4810   | 4.9092 | 4.6272 | 4.6031 | 4.9224 | 4.481  | 4.8164 | -.23493  |
| #2     | 4.4857   | 4.9153 | 4.6299 | 4.6454 | 4.9100 | 4.503  | 4.7860 | .02041   |
| #3     | 4.5055   | 4.7962 | 4.6216 | 4.5665 | 4.8347 | 4.517  | 4.7334 | .23598   |

Sample Name: CCV12      Acquired: 3/28/2019 0:10:40      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB118302BS      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 97.679 |
| Stddev | 37.907   |
| %RSD   | 38.808   |

|    |        |
|----|--------|
| #1 | 54.876 |
| #2 | 127.01 |
| #3 | 111.15 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2935.6 | 52878. | 3106.5 | 42.089 | 3867.1 |
| Stddev    | 2.9    | 220.   | 39.6   | 1.864  | 1.1    |
| %RSD      | .09745 | .41665 | 1.2755 | 4.4279 | .02771 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2935.5 | 53028. | 3089.2 | 43.206 | 3865.8 |
| #2 | 2932.7 | 52625. | 3078.4 | 39.938 | 3867.7 |
| #3 | 2938.5 | 52981. | 3151.8 | 43.124 | 3867.7 |

Sample Name: CCB12      Acquired: 3/28/2019 0:14:39      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PBW      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |         |        |
|--------|--------|---------|--------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00284 | -.00125 | .00126 | -.00251 | .00167 | -.03411 | .00633 |
| Stddev | .00277 | .00075  | .00036 | .00117  | .00161 | .00674  | .00103 |
| %RSD   | 97.490 | 59.456  | 28.657 | 46.562  | 96.149 | 19.759  | 16.304 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .00187 | -.00088 | .00152 | -.00382 | .00109 | -.02849 | .00714 |
| #2 | .00068 | -.00211 | .00085 | -.00214 | .00349 | -.04158 | .00517 |
| #3 | .00596 | -.00077 | .00143 | -.00157 | .00044 | -.03226 | .00667 |

|        |         |        |        |        |         |         |        |
|--------|---------|--------|--------|--------|---------|---------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247  | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm     | ppm    |
| Avg    | -.00012 | .00010 | .00621 | .00055 | -.00008 | -.00000 | .00976 |
| Stddev | .00003  | .00013 | .02174 | .00052 | .00010  | .00016  | .00016 |
| %RSD   | 24.853  | 134.32 | 350.17 | 94.956 | 129.86  | 7496.8  | 1.6376 |

|    |         |         |         |        |         |         |        |
|----|---------|---------|---------|--------|---------|---------|--------|
| #1 | -.00015 | .00021  | -.01610 | .00001 | -.00010 | -.00019 | .00992 |
| #2 | -.00010 | .00011  | .00739  | .00059 | .00003  | .00006  | .00975 |
| #3 | -.00011 | -.00004 | .02733  | .00106 | -.00017 | .00012  | .00960 |

|        |        |         |        |         |        |         |        |
|--------|--------|---------|--------|---------|--------|---------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00051 | -.03031 | .00146 | -.00066 | .20398 | -.00039 | .00010 |
| Stddev | .00010 | .06375  | .00029 | .00058  | .00356 | .00028  | .00007 |
| %RSD   | 19.205 | 210.28  | 20.111 | 87.854  | 1.7436 | 71.275  | 70.994 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .00043 | -.01639 | .00128 | -.00046 | .20735 | -.00022 | .00018 |
| #2 | .00062 | .02532  | .00180 | -.00021 | .20431 | -.00072 | .00005 |
| #3 | .00048 | -.09987 | .00131 | -.00132 | .20026 | -.00025 | .00007 |

|        |        |        |         |        |         |        |        |
|--------|--------|--------|---------|--------|---------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496  | S_1820 | Si2881  | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | .05481 | .00031 | -.00267 | .00116 | -.00176 | .00307 | .00046 |
| Stddev | .03208 | .00019 | .00908  | .00307 | .00085  | .00115 | .00041 |
| %RSD   | 58.532 | 59.042 | 339.74  | 265.55 | 48.424  | 37.413 | 90.051 |

|    |        |        |         |         |         |        |         |
|----|--------|--------|---------|---------|---------|--------|---------|
| #1 | .09146 | .00026 | -.00757 | .00464  | -.00081 | .00421 | -.00001 |
| #2 | .03178 | .00052 | -.00826 | -.00005 | -.00246 | .00308 | .00076  |
| #3 | .04120 | .00016 | .00781  | -.00113 | -.00202 | .00191 | .00064  |

Sample Name: CCB12      Acquired: 3/28/2019 0:14:39      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: PBW      Custom ID2:      Custom ID3:  
 Comment:

|        |          |         |        |          |          |
|--------|----------|---------|--------|----------|----------|
| Elem   | Li6707   | P_1774  | Sr4077 | U_3670   | U_3859   |
| Units  | ppm      | ppm     | ppm    | ppm      | ppm      |
| Avg    | F .00602 | F .0054 | .00027 | F<.00000 | F 83.952 |
| Stddev | .00227   | .0011   | .00007 | .34054   | 14.966   |
| %RSD   | 37.759   | 19.81   | 27.666 | 22.649   | 17.827   |

|    |        |       |        |         |        |
|----|--------|-------|--------|---------|--------|
| #1 | .00393 | .0060 | .00027 | -1.3612 | 72.061 |
| #2 | .00844 | .0041 | .00019 | -1.8922 | 100.76 |
| #3 | .00570 | .0060 | .00034 | -1.2573 | 79.038 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2980.2 | 53460. | 3060.7 | 42.831 | 4228.3 |
| Stddev    | 3.8    | 192.   | 22.1   | 2.068  | 11.5   |
| %RSD      | .12854 | .35823 | .72059 | 4.8282 | .27213 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2979.6 | 53442. | 3062.8 | 41.717 | 4215.3 |
| #2 | 2984.3 | 53278. | 3037.7 | 41.558 | 4232.2 |
| #3 | 2976.7 | 53660. | 3081.7 | 45.217 | 4237.2 |

Sample Name: K2086-08MS      Acquired: 3/28/2019 0:19:08      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-11MS      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .76538 | 1.8024 | .87318 | 1.9989 | .78912 | 1.8696 | .24943 |
| Stddev | .00391 | .0117  | .00369 | .0008  | .00075 | .0077  | .00294 |
| %RSD   | .51047 | .64672 | .42306 | .04224 | .09496 | .41026 | 1.1777 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .76512 | 1.8018 | .87024 | 1.9981 | .78999 | 1.8662 | .24923 |
| #2 | .76160 | 1.7910 | .87198 | 1.9998 | .78866 | 1.8641 | .24660 |
| #3 | .76941 | 1.8143 | .87733 | 1.9988 | .78872 | 1.8783 | .25246 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19625 | .18632 | 4.0384 | .40892 | .18494 | .30432 | 3.3283 |
| Stddev | .00089 | .00090 | .0377  | .00091 | .00092 | .00131 | .0144  |
| %RSD   | .45321 | .48552 | .93353 | .22145 | .49809 | .42969 | .43301 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19577 | .18566 | 4.0331 | .40913 | .18464 | .30281 | 3.3413 |
| #2 | .19569 | .18595 | 4.0036 | .40793 | .18420 | .30514 | 3.3308 |
| #3 | .19727 | .18735 | 4.0784 | .40970 | .18597 | .30501 | 3.3128 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .26171 | 2.4072 | .45767 | .07099 | 280.43 | .31101 | .20133 |
| Stddev | .00043 | .0011  | .00302 | .00121 | 2.05   | .00097 | .00096 |
| %RSD   | .16461 | .04524 | .66038 | 1.7046 | .72936 | .31049 | .47764 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26129 | 2.4081 | .45501 | .07078 | 282.29 | .31085 | .20093 |
| #2 | .26170 | 2.4060 | .45704 | .07230 | 278.24 | .31013 | .20063 |
| #3 | .26215 | 2.4076 | .46095 | .06991 | 280.75 | .31204 | .20243 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.519 | .39466 | .28803 | .04047 | .98624 | .64577 | .18033 |
| Stddev | .108   | .00095 | .02028 | .00521 | .01382 | .00280 | .00242 |
| %RSD   | 1.0275 | .23949 | 7.0399 | 12.868 | 1.4010 | .43432 | 1.3402 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.486 | .39357 | .31140 | .04574 | .98147 | .64583 | .17896 |
| #2 | 10.432 | .39525 | .27501 | .03532 | 1.0018 | .64293 | .17891 |
| #3 | 10.640 | .39515 | .27769 | .04036 | .97544 | .64854 | .18312 |

Sample Name: K2086-08MS      Acquired: 3/28/2019 0:19:08      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-11MS      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .20932 | 5.077  | .19542 | .24492 | F<.00000 |
| Stddev | .00217 | .045   | .00074 | .50531 | 8.0277   |
| %RSD   | 1.0351 | .8887  | .37680 | 206.31 | 7.5040   |

|    |        |       |        |         |         |
|----|--------|-------|--------|---------|---------|
| #1 | .20763 | 5.083 | .19575 | .46804  | -97.712 |
| #2 | .20857 | 5.029 | .19458 | -.33354 | -111.83 |
| #3 | .21177 | 5.118 | .19594 | .60026  | -111.39 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2882.3 | 51960. | 3127.4 | 43.995 | 3837.3 |
| Stddev    | 5.3    | 46.    | 13.3   | .651   | 21.1   |
| %RSD      | .18389 | .08859 | .42507 | 1.4804 | .55073 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2876.3 | 51952. | 3125.8 | 44.576 | 3835.4 |
| #2 | 2886.5 | 52009. | 3115.0 | 44.117 | 3859.4 |
| #3 | 2884.0 | 51918. | 3141.5 | 43.291 | 3817.2 |

Sample Name: K2086-08MSD      Acquired: 3/28/2019 0:23:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-11MSD      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .76150 | 1.7952 | .86979 | 1.9945 | .78479 | 1.8488 | .24557 |
| Stddev | .00271 | .0159  | .00107 | .0046  | .00259 | .0357  | .00251 |
| %RSD   | .35619 | .88562 | .12340 | .23254 | .32939 | 1.9291 | 1.0225 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75878 | 1.7813 | .86963 | 1.9941 | .78591 | 1.8343 | .24347 |
| #2 | .76150 | 1.7917 | .87093 | 1.9900 | .78184 | 1.8227 | .24490 |
| #3 | .76421 | 1.8125 | .86880 | 1.9993 | .78663 | 1.8895 | .24835 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19530 | .18597 | 4.0480 | .40991 | .18416 | .30307 | 3.3370 |
| Stddev | .00056 | .00046 | .0047  | .00071 | .00044 | .00051 | .0148  |
| %RSD   | .28858 | .24581 | .11575 | .17443 | .23926 | .16835 | .44303 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19580 | .18555 | 4.0434 | .40909 | .18449 | .30313 | 3.3509 |
| #2 | .19469 | .18645 | 4.0478 | .41024 | .18433 | .30354 | 3.3214 |
| #3 | .19542 | .18590 | 4.0528 | .41041 | .18366 | .30253 | 3.3386 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .26170 | 2.3297 | .45688 | .07014 | 275.30 | .31293 | .20020 |
| Stddev | .00036 | .0569  | .00019 | .00091 | 1.26   | .00363 | .00046 |
| %RSD   | .13786 | 2.4426 | .04134 | 1.2907 | .45624 | 1.1586 | .23188 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26164 | 2.3920 | .45707 | .07118 | 275.32 | .31681 | .19999 |
| #2 | .26208 | 2.3167 | .45669 | .06973 | 276.55 | .31235 | .20073 |
| #3 | .26136 | 2.2804 | .45686 | .06951 | 274.04 | .30963 | .19988 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.376 | .39247 | .30480 | .04133 | .99070 | .64224 | .18286 |
| Stddev | .130   | .00159 | .02095 | .00415 | .02202 | .00252 | .00125 |
| %RSD   | 1.2560 | .40432 | 6.8720 | 10.036 | 2.2230 | .39268 | .68139 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.284 | .39119 | .28262 | .04532 | 1.0157 | .63933 | .18181 |
| #2 | 10.319 | .39198 | .30754 | .03704 | .97435 | .64367 | .18252 |
| #3 | 10.525 | .39425 | .32424 | .04164 | .98202 | .64373 | .18424 |



Sample Name: K2086-08MSD      Acquired: 3/28/2019 0:23:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-11MSD      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .21384 | 5.041  | .19345 | .46852 | F<.00000 |
| Stddev | .00159 | .048   | .00056 | .46310 | 15.358   |
| %RSD   | .74406 | .9517  | .29128 | 98.843 | 18.402   |

|    |        |       |        |         |         |
|----|--------|-------|--------|---------|---------|
| #1 | .21364 | 4.996 | .19399 | -.06552 | -68.886 |
| #2 | .21235 | 5.034 | .19287 | .75923  | -81.993 |
| #3 | .21552 | 5.092 | .19349 | .71185  | -99.496 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2890.2 | 51936. | 3101.0 | 43.386 | 3842.2 |
| Stddev    | 6.0    | 24.    | 14.1   | .871   | 8.8    |
| %RSD      | .20907 | .04603 | .45553 | 2.0083 | .22915 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2883.7 | 51910. | 3085.4 | 42.441 | 3834.1 |
| #2 | 2891.2 | 51944. | 3104.9 | 43.558 | 3841.1 |
| #3 | 2895.7 | 51956. | 3112.8 | 44.158 | 3851.6 |

Sample Name: K2086-08A      Acquired: 3/28/2019 0:27:33      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: PB118302BL      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .76006 | 1.7899 | .86864 | 1.9901 | .78055 | 1.8021 | .24321 |
| Stddev | .00528 | .0085  | .00129 | .0041  | .00099 | .0091  | .00034 |
| %RSD   | .69511 | .47329 | .14808 | .20698 | .12728 | .50197 | .14129 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .75416 | 1.7819 | .86736 | 1.9858 | .77981 | 1.7931 | .24309 |
| #2 | .76436 | 1.7988 | .86993 | 1.9905 | .78016 | 1.8112 | .24295 |
| #3 | .76166 | 1.7891 | .86862 | 1.9940 | .78168 | 1.8018 | .24360 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .19476 | .18505 | 4.0202 | .40784 | .18366 | .30158 | 3.3259 |
| Stddev | .00030 | .00023 | .0183  | .00179 | .00056 | .00094 | .0051  |
| %RSD   | .15529 | .12170 | .45411 | .43785 | .30335 | .31282 | .15405 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .19475 | .18516 | 4.0336 | .40691 | .18311 | .30122 | 3.3218 |
| #2 | .19506 | .18479 | 3.9994 | .40990 | .18364 | .30088 | 3.3317 |
| #3 | .19446 | .18520 | 4.0275 | .40671 | .18422 | .30266 | 3.3243 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .26034 | 2.3843 | .45508 | .07028 | 274.99 | .31206 | .19940 |
| Stddev | .00051 | .0701  | .00082 | .00016 | 1.19   | .00154 | .00016 |
| %RSD   | .19595 | 2.9382 | .18114 | .23172 | .43321 | .49316 | .08264 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26042 | 2.3045 | .45556 | .07009 | 276.13 | .31317 | .19923 |
| #2 | .26081 | 2.4356 | .45412 | .07037 | 275.09 | .31272 | .19942 |
| #3 | .25980 | 2.4128 | .45555 | .07038 | 273.76 | .31031 | .19955 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 10.289 | .39077 | .28529 | .04049 | 1.0001 | .63943 | .18584 |
| Stddev | .054   | .00140 | .02191 | .00283 | .0063  | .00135 | .00070 |
| %RSD   | .52871 | .35715 | 7.6798 | 6.9965 | .62582 | .21144 | .37424 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 10.228 | .38928 | .27762 | .03903 | .99512 | .63927 | .18662 |
| #2 | 10.307 | .39100 | .26825 | .04375 | 1.0071 | .64086 | .18530 |
| #3 | 10.332 | .39204 | .31001 | .03868 | .99805 | .63817 | .18559 |

Sample Name: K2086-08A      Acquired: 3/28/2019 0:27:33      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: PB118302BL      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |        |          |
|--------|--------|--------|--------|--------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670 | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .21514 | 5.036  | .19414 | .37160 | F<.00000 |
| Stddev | .00262 | .028   | .00055 | .08859 | 31.725   |
| %RSD   | 1.2194 | .5629  | .28572 | 23.840 | 65.479   |

|    |        |       |        |        |         |
|----|--------|-------|--------|--------|---------|
| #1 | .21243 | 5.012 | .19412 | .36317 | -76.913 |
| #2 | .21533 | 5.067 | .19470 | .46411 | -14.247 |
| #3 | .21767 | 5.030 | .19359 | .28753 | -54.193 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2881.8 | 52108. | 3062.0 | 41.747 | 3833.8 |
| Stddev    | .9     | 40.    | 7.9    | 1.031  | 6.8    |
| %RSD      | .03169 | .07706 | .25838 | 2.4703 | .17855 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2881.3 | 52065. | 3062.0 | 42.816 | 3831.6 |
| #2 | 2882.8 | 52113. | 3054.1 | 41.667 | 3828.3 |
| #3 | 2881.2 | 52145. | 3069.9 | 40.758 | 3841.4 |

Sample Name: K2086-09      Acquired: 3/28/2019 0:31:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-12      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00302 | -.00360 | .00394 | .00142  | .00016  | .01321  | .04191  | -.00012 |
| Stddev | .00262 | .00085  | .00086 | .00325  | .00168  | .01678  | .00119  | .00004  |
| %RSD   | 86.809 | 23.676  | 21.779 | 228.20  | 1057.2  | 127.08  | 2.8299  | 30.777  |
| #1     | .00021 | -.00450 | .00470 | .00202  | -.00142 | .03130  | .04316  | -.00008 |
| #2     | .00345 | -.00352 | .00412 | .00433  | .00193  | -.00186 | .04081  | -.00016 |
| #3     | .00540 | -.00280 | .00301 | -.00208 | -.00003 | .01018  | .04175  | -.00012 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00040 | 33.506  | .00189 | .00142  | .01546  | .58500  | .12770  | 18.913  |
| Stddev | .00010 | .045    | .00009 | .00005  | .00024  | .00328  | .00046  | .104    |
| %RSD   | 24.002 | .13538  | 4.7923 | 3.4065  | 1.5462  | .56090  | .36400  | .55103  |
| #1     | .00038 | 33.458  | .00198 | .00147  | .01522  | .58865  | .12823  | 18.971  |
| #2     | .00050 | 33.514  | .00188 | .00138  | .01570  | .58230  | .12746  | 18.975  |
| #3     | .00031 | 33.547  | .00180 | .00141  | .01545  | .58406  | .12739  | 18.793  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00307 | -.00154 | 351.69 | -.00042 | .01414  | .40395  | .00013  | .00179  |
| Stddev | .00047 | .00098  | 2.22   | .00046  | .00013  | .04353  | .00021  | .01031  |
| %RSD   | 15.462 | 63.693  | .63252 | 108.75  | .95424  | 10.775  | 158.14  | 575.59  |
| #1     | .00252 | -.00210 | 353.47 | -.00094 | .01418  | .40839  | .00033  | .01012  |
| #2     | .00334 | -.00210 | 352.41 | -.00007 | .01426  | .44508  | -.00009 | -.00974 |
| #3     | .00334 | -.00041 | 349.20 | -.00025 | .01399  | .35837  | .00016  | .00499  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .04105 | .23183  | .00301 | -.00058 | .01657  | .0059   | .01655  | 1.1523  |
| Stddev | .00254 | .00444  | .00125 | .00252  | .00065  | .0019   | .00010  | .1009   |
| %RSD   | 6.1817 | 1.9152  | 41.613 | 433.68  | 3.9379  | 32.07   | .60369  | 8.7544  |
| #1     | .04064 | .22766  | .00442 | -.00045 | .01685  | .0081   | .01644  | 1.0529  |
| #2     | .03874 | .23650  | .00203 | .00187  | .01583  | .0052   | .01659  | 1.1496  |
| #3     | .04376 | .23132  | .00258 | -.00317 | .01705  | .0045   | .01663  | 1.2546  |

Sample Name: K2086-09      Acquired: 3/28/2019 0:31:43      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-12      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 179.11  
Stddev      33.19  
%RSD      18.532

#1      205.51  
#2      141.85  
#3      189.98

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2814.4 | 50531. | 3074.7 | 42.825 | 3725.2 |
| Stddev    | 3.6    | 75.    | 18.8   | .547   | 13.1   |
| %RSD      | .12948 | .14845 | .61234 | 1.2765 | .35226 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2818.3 | 50449. | 3094.1 | 43.433 | 3710.4 |
| #2 | 2811.0 | 50596. | 3056.5 | 42.667 | 3729.9 |
| #3 | 2813.9 | 50549. | 3073.5 | 42.375 | 3735.3 |

Sample Name: K2086-10      Acquired: 3/28/2019 0:36:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-13      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00491 | -.00492 | .00332 | -.00109 | -.00046 | -.04971 | .03856 | -.00012 |
| Stddev | .00225 | .00083  | .00024 | .00127  | .00104  | .01272  | .00167 | .00005  |
| %RSD   | 45.868 | 16.901  | 7.2800 | 116.94  | 223.94  | 25.592  | 4.3415 | 42.551  |

|    |        |         |        |         |         |         |        |         |
|----|--------|---------|--------|---------|---------|---------|--------|---------|
| #1 | .00238 | -.00397 | .00338 | -.00105 | -.00022 | -.03851 | .03698 | -.00008 |
| #2 | .00567 | -.00551 | .00352 | .00016  | -.00160 | -.04707 | .03840 | -.00011 |
| #3 | .00669 | -.00529 | .00305 | -.00238 | .00043  | -.06354 | .04031 | -.00018 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00048 | 57.974 | .00155 | .00230 | .01748 | .48962 | .10354 | 33.813 |
| Stddev | .00011 | .208   | .00047 | .00017 | .00053 | .00347 | .00087 | .265   |
| %RSD   | 22.062 | .35951 | 30.319 | 7.5689 | 3.0424 | .70795 | .83930 | .78246 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00036 | 57.885 | .00203 | .00241 | .01696 | .49001 | .10399 | 34.058 |
| #2 | .00057 | 57.824 | .00153 | .00210 | .01802 | .48598 | .10254 | 33.848 |
| #3 | .00050 | 58.212 | .00109 | .00238 | .01744 | .49288 | .10409 | 33.532 |

|        |        |         |        |         |        |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00294 | -.00228 | 351.73 | -.00012 | .01468 | .29746 | .00042 | .01950 |
| Stddev | .00027 | .00097  | 1.38   | .00036  | .00009 | .05583 | .00022 | .02143 |
| %RSD   | 9.1392 | 42.328  | .39159 | 297.19  | .62003 | 18.767 | 52.762 | 109.90 |

|    |        |         |        |         |        |        |        |         |
|----|--------|---------|--------|---------|--------|--------|--------|---------|
| #1 | .00317 | -.00338 | 350.83 | -.00043 | .01468 | .24939 | .00065 | -.00097 |
| #2 | .00265 | -.00155 | 351.04 | -.00022 | .01459 | .35869 | .00041 | .01769  |
| #3 | .00300 | -.00192 | 353.32 | .00028  | .01477 | .28432 | .00020 | .04178  |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .03847 | .07541 | .00312 | .00123 | .01745 | .0056  | .02143 | 1.0932 |
| Stddev | .00348 | .00387 | .00015 | .00207 | .00085 | .0010  | .00013 | .2158  |
| %RSD   | 9.0400 | 5.1263 | 4.8300 | 168.49 | 4.8873 | 18.53  | .61715 | 19.745 |

|    |        |        |        |         |        |       |        |        |
|----|--------|--------|--------|---------|--------|-------|--------|--------|
| #1 | .04077 | .07979 | .00298 | -.00108 | .01726 | .0062 | .02129 | 1.0204 |
| #2 | .03447 | .07249 | .00328 | .00292  | .01839 | .0063 | .02144 | .92311 |
| #3 | .04017 | .07394 | .00311 | .00185  | .01671 | .0044 | .02155 | 1.3360 |

Sample Name: K2086-10      Acquired: 3/28/2019 0:36:20      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-13      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 169.63  
 Stddev      29.39  
 %RSD      17.328

#1      193.63  
 #2      136.85  
 #3      178.40

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2782.2 | 50434. | 3050.3 | 42.619 | 3697.6 |
| Stddev    | 1.8    | 200.   | 39.7   | 2.205  | 5.0    |
| %RSD      | .06606 | .39565 | 1.3013 | 5.1747 | .13553 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2782.2 | 50381. | 3085.7 | 40.158 | 3703.1 |
| #2 | 2780.4 | 50655. | 3058.0 | 43.283 | 3693.2 |
| #3 | 2784.1 | 50267. | 3007.4 | 44.417 | 3696.6 |

Sample Name: K2086-11      Acquired: 3/28/2019 0:40:56      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-14      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00514 | -.00432 | .00326 | -.00018 | -.00163 | -.00790 | .08719  | -.00015 |
| Stddev | .00147 | .00156  | .00026 | .00211  | .00202  | .00189  | .00089  | .00006  |
| %RSD   | 28.620 | 36.243  | 7.9188 | 1189.5  | 124.12  | 23.879  | 1.0229  | 38.435  |
| #1     | .00592 | -.00600 | .00297 | -.00164 | -.00353 | -.01008 | .08634  | -.00014 |
| #2     | .00344 | -.00406 | .00335 | -.00114 | .00050  | -.00687 | .08710  | -.00009 |
| #3     | .00605 | -.00290 | .00345 | .00225  | -.00186 | -.00675 | .08812  | -.00020 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00054 | 61.487  | .00124 | .00301  | .01141  | .38824  | .20431  | 34.387  |
| Stddev | .00005 | .344    | .00005 | .00028  | .00016  | .00568  | .00097  | .249    |
| %RSD   | 9.6672 | .56012  | 4.0213 | 9.3840  | 1.4184  | 1.4627  | .47419  | .72527  |
| #1     | .00051 | 61.232  | .00129 | .00314  | .01130  | .38206  | .20358  | 34.256  |
| #2     | .00051 | 61.879  | .00125 | .00321  | .01159  | .38943  | .20394  | 34.231  |
| #3     | .00060 | 61.349  | .00119 | .00269  | .01133  | .39322  | .20541  | 34.675  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00276 | -.00233 | 344.70 | -.00051 | .02643  | .52768  | .00007  | .01060  |
| Stddev | .00033 | .00022  | 2.18   | .00043  | .00012  | .06203  | .00040  | .04985  |
| %RSD   | 11.860 | 9.5896  | .63226 | 84.665  | .46977  | 11.755  | 553.14  | 470.16  |
| #1     | .00299 | -.00218 | 342.57 | -.00098 | .02629  | .55225  | .00051  | .01799  |
| #2     | .00239 | -.00259 | 344.61 | -.00015 | .02650  | .45714  | .00001  | -.04253 |
| #3     | .00291 | -.00223 | 346.92 | -.00038 | .02650  | .57367  | -.00029 | .05635  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .08503 | .25505  | .00166 | .00166  | .01706  | .0095   | .02944  | 1.7378  |
| Stddev | .00242 | .00091  | .00142 | .00466  | .00383  | .0012   | .00010  | .3006   |
| %RSD   | 2.8436 | .35657  | 85.798 | 281.11  | 22.472  | 12.78   | .34441  | 17.296  |
| #1     | .08755 | .25403  | .00315 | -.00183 | .01328  | .0093   | .02954  | 1.9431  |
| #2     | .08273 | .25578  | .00150 | .00694  | .01695  | .0084   | .02944  | 1.8774  |
| #3     | .08481 | .25534  | .00032 | -.00015 | .02095  | .0108   | .02934  | 1.3928  |



Sample Name: K2086-11      Acquired: 3/28/2019 0:40:56      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-14      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 163.13  
Stddev      30.79  
%RSD      18.873

#1      140.20  
#2      151.05  
#3      198.12

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2748.2 | 49386. | 2984.1 | 41.319 | 3651.4 |
| Stddev    | 9.8    | 69.    | 25.4   | .475   | 18.5   |
| %RSD      | .35603 | .13989 | .85253 | 1.1498 | .50693 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2737.3 | 49370. | 2991.0 | 41.650 | 3643.1 |
| #2 | 2756.2 | 49327. | 2955.9 | 40.775 | 3672.6 |
| #3 | 2751.0 | 49462. | 3005.3 | 41.533 | 3638.5 |

Sample Name: K2086-12      Acquired: 3/28/2019 0:45:32      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-15      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |         |         |
|--------|--------|---------|--------|---------|---------|---------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00357 | -.00372 | .00373 | -.00134 | -.00238 | -.04111 | .06805  | -.00008 |
| Stddev | .00267 | .00186  | .00033 | .00374  | .00152  | .00997  | .00111  | .00007  |
| %RSD   | 74.594 | 49.942  | 8.7107 | 279.08  | 63.910  | 24.253  | 1.6281  | 96.272  |
| #1     | .00469 | -.00206 | .00411 | .00106  | -.00071 | -.04244 | .06915  | -.00002 |
| #2     | .00550 | -.00573 | .00359 | .00057  | -.00274 | -.03055 | .06693  | -.00005 |
| #3     | .00053 | -.00339 | .00351 | -.00565 | -.00369 | -.05036 | .06807  | -.00016 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00044 | 69.435  | .00164 | .00243  | .01112  | .48037  | .14314  | 28.249  |
| Stddev | .00004 | .219    | .00051 | .00015  | .00013  | .00286  | .00073  | .082    |
| %RSD   | 9.4228 | .31497  | 31.267 | 6.3363  | 1.1737  | .59457  | .50653  | .28982  |
| #1     | .00048 | 69.182  | .00112 | .00254  | .01113  | .48024  | .14303  | 28.295  |
| #2     | .00045 | 69.566  | .00167 | .00225  | .01125  | .47757  | .14247  | 28.297  |
| #3     | .00040 | 69.557  | .00214 | .00249  | .01099  | .48328  | .14391  | 28.154  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00309 | -.00242 | 370.78 | -.00058 | .02576  | .48195  | .00007  | .01656  |
| Stddev | .00034 | .00058  | 3.29   | .00056  | .00007  | .02507  | .00035  | .01467  |
| %RSD   | 11.136 | 23.913  | .88845 | 95.855  | .26994  | 5.2025  | 480.91  | 88.557  |
| #1     | .00295 | -.00176 | 374.31 | .00006  | .02576  | .51088  | -.00031 | -.00028 |
| #2     | .00283 | -.00271 | 367.79 | -.00082 | .02569  | .46667  | .00013  | .02652  |
| #3     | .00348 | -.00281 | 370.23 | -.00098 | .02583  | .46829  | .00039  | .02345  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .08051 | .12182  | .00288 | -.00092 | .01707  | .0085   | .03651  | 1.7629  |
| Stddev | .00480 | .00064  | .00053 | .00076  | .00129  | .0020   | .00028  | .1934   |
| %RSD   | 5.9651 | .52486  | 18.349 | 82.866  | 7.5552  | 23.75   | .77641  | 10.972  |
| #1     | .07498 | .12112  | .00279 | -.00115 | .01717  | .0074   | .03636  | 1.9802  |
| #2     | .08355 | .12196  | .00345 | -.00007 | .01573  | .0072   | .03684  | 1.6095  |
| #3     | .08301 | .12238  | .00241 | -.00153 | .01831  | .0108   | .03633  | 1.6989  |

Sample Name: K2086-12      Acquired: 3/28/2019 0:45:32      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-15      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 185.80  
 Stddev      33.33  
 %RSD      17.941

#1      207.94  
 #2      147.46  
 #3      202.00

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2711.5 | 48818. | 2961.2 | 39.539 | 3596.0 |
| Stddev    | 10.7   | 159.   | 8.9    | .253   | 2.8    |
| %RSD      | .39638 | .32560 | .29933 | .64009 | .07812 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2705.8 | 48635. | 2959.4 | 39.258 | 3599.1 |
| #2 | 2704.7 | 48907. | 2970.8 | 39.608 | 3593.6 |
| #3 | 2723.9 | 48914. | 2953.4 | 39.750 | 3595.4 |

Sample Name: K2086-13      Acquired: 3/28/2019 0:50:08      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-16      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00357 | -.00363 | .00462 | -.00117 | -.00274 | -.02459 | .06226 | -.00015 |
| Stddev | .00091 | .00256  | .00136 | .00178  | .00057  | .01299  | .00071 | .00011  |
| %RSD   | 25.423 | 70.546  | 29.487 | 152.06  | 20.818  | 52.814  | 1.1327 | 74.284  |

|    |        |         |        |         |         |         |        |         |
|----|--------|---------|--------|---------|---------|---------|--------|---------|
| #1 | .00396 | -.00154 | .00534 | -.00072 | -.00209 | -.01001 | .06301 | -.00025 |
| #2 | .00422 | -.00648 | .00548 | .00034  | -.00314 | -.02885 | .06160 | -.00003 |
| #3 | .00253 | -.00286 | .00305 | -.00313 | -.00298 | -.03491 | .06218 | -.00018 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00029 | 50.981 | .00156 | .00095 | .00730 | .39086 | .07536 | 29.793 |
| Stddev | .00006 | .134   | .00004 | .00007 | .00037 | .00078 | .00032 | .236   |
| %RSD   | 21.975 | .26269 | 2.4009 | 7.6081 | 5.0289 | .19999 | .42105 | .79376 |

|    |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00024 | 50.974 | .00153 | .00101 | .00705 | .39014 | .07514 | 29.538 |
| #2 | .00026 | 50.851 | .00160 | .00087 | .00772 | .39076 | .07522 | 29.837 |
| #3 | .00036 | 51.119 | .00154 | .00098 | .00712 | .39169 | .07573 | 30.005 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00221 | -.00256 | 352.05 | .00002 | .02247 | .40690 | .00027 | .03164 |
| Stddev | .00050 | .00066  | 1.26   | .00117 | .00024 | .01340 | .00021 | .01772 |
| %RSD   | 22.824 | 25.878  | .35749 | 6708.8 | 1.0890 | 3.2928 | 79.180 | 56.005 |

|    |        |         |        |         |        |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|--------|
| #1 | .00183 | -.00331 | 353.51 | -.00133 | .02275 | .40500 | .00046 | .02559 |
| #2 | .00202 | -.00233 | 351.29 | .00081  | .02235 | .42114 | .00004 | .01774 |
| #3 | .00278 | -.00205 | 351.36 | .00057  | .02232 | .39455 | .00029 | .05160 |

|        |        |        |        |         |        |        |        |        |
|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361  | Li6707 | P_1774 | Sr4077 | U_3670 |
| Units  | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    |
| Avg    | .07709 | .07153 | .00210 | -.00151 | .01517 | .0072  | .02044 | .71504 |
| Stddev | .00405 | .00249 | .00051 | .00214  | .00260 | .0005  | .00016 | .07810 |
| %RSD   | 5.2584 | 3.4878 | 24.159 | 141.04  | 17.141 | 6.925  | .76827 | 10.922 |

|    |        |        |        |         |        |       |        |        |
|----|--------|--------|--------|---------|--------|-------|--------|--------|
| #1 | .07898 | .06869 | .00152 | -.00306 | .01268 | .0069 | .02026 | .68823 |
| #2 | .07244 | .07252 | .00233 | .00092  | .01496 | .0069 | .02049 | .80301 |
| #3 | .07986 | .07337 | .00246 | -.00240 | .01786 | .0077 | .02056 | .65387 |

Sample Name: K2086-13      Acquired: 3/28/2019 0:50:08      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-16      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 189.43  
 Stddev      9.94  
 %RSD      5.2475

#1      190.79  
 #2      178.87  
 #3      198.61

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2796.0 | 50438. | 3061.5 | 41.886 | 3726.0 |
| Stddev    | 7.3    | 64.    | 7.8    | 1.330  | 13.6   |
| %RSD      | .26017 | .12762 | .25491 | 3.1749 | .36582 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2792.9 | 50397. | 3053.2 | 43.075 | 3738.6 |
| #2 | 2790.8 | 50512. | 3068.6 | 42.133 | 3711.5 |
| #3 | 2804.3 | 50405. | 3062.7 | 40.450 | 3727.9 |

Sample Name: K2086-14      Acquired: 3/28/2019 0:54:44      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-18      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00149 | -.00455 | .00381 | .00355  | -.00239 | -.05745 | .07262 | -.00015 |
| Stddev | .00134 | .00042  | .00112 | .00246  | .00151  | .01617  | .00111 | .00007  |
| %RSD   | 90.045 | 9.1351  | 29.361 | 69.298  | 63.314  | 28.154  | 1.5333 | 47.755  |
| #1     | .00082 | -.00502 | .00505 | .00382  | -.00074 | -.03949 | .07348 | -.00016 |
| #2     | .00303 | -.00438 | .00288 | .00585  | -.00372 | -.07086 | .07137 | -.00008 |
| #3     | .00062 | -.00424 | .00350 | .00096  | -.00271 | -.06200 | .07302 | -.00022 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00045 | 68.146  | .00167 | .00357  | .00676  | .82162  | .25346 | 36.794  |
| Stddev | .00005 | .370    | .00045 | .00025  | .00017  | .00704  | .00051 | .089    |
| %RSD   | 10.312 | .54298  | 26.675 | 6.9476  | 2.5100  | .85639  | .20230 | .24174  |
| #1     | .00049 | 67.838  | .00173 | .00379  | .00696  | .81395  | .25314 | 36.860  |
| #2     | .00047 | 68.556  | .00209 | .00361  | .00666  | .82312  | .25319 | 36.692  |
| #3     | .00040 | 68.044  | .00120 | .00330  | .00667  | .82778  | .25406 | 36.829  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00555 | -.00275 | 327.24 | -.00083 | .03154  | .69509  | .00039 | .00732  |
| Stddev | .00019 | .00057  | 3.79   | .00051  | .00035  | .03824  | .00023 | .00133  |
| %RSD   | 3.5007 | 20.855  | 1.1567 | 61.835  | 1.1030  | 5.5008  | 58.969 | 18.131  |
| #1     | .00563 | -.00211 | 327.68 | -.00097 | .03185  | .70550  | .00051 | .00657  |
| #2     | .00569 | -.00323 | 323.25 | -.00127 | .03160  | .65273  | .00013 | .00655  |
| #3     | .00533 | -.00291 | 330.79 | -.00026 | .03117  | .72705  | .00054 | .00886  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .08719 | .22738  | .00354 | .00120  | .01745  | .0239   | .03369 | 1.3793  |
| Stddev | .00774 | .00249  | .00075 | .00199  | .00207  | .0012   | .00009 | .0447   |
| %RSD   | 8.8767 | 1.0955  | 21.170 | 165.94  | 11.848  | 4.910   | .26997 | 3.2420  |
| #1     | .09519 | .22524  | .00341 | .00171  | .01510  | .0237   | .03363 | 1.4308  |
| #2     | .07975 | .22678  | .00287 | -.00100 | .01901  | .0252   | .03379 | 1.3570  |
| #3     | .08663 | .23011  | .00435 | .00289  | .01822  | .0228   | .03364 | 1.3502  |

Sample Name: K2086-14      Acquired: 3/28/2019 0:54:44      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-18      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 151.40 |
| Stddev | 26.15    |
| %RSD   | 17.274   |

|    |        |
|----|--------|
| #1 | 168.70 |
| #2 | 121.31 |
| #3 | 164.18 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2769.4 | 50015. | 3010.8 | 40.664 | 3713.1 |
| Stddev    | 12.5   | 126.   | 22.6   | .421   | 21.6   |
| %RSD      | .45291 | .25186 | .75020 | 1.0353 | .58277 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2759.4 | 49877. | 3035.6 | 40.250 | 3706.3 |
| #2 | 2765.3 | 50123. | 2991.3 | 40.650 | 3695.7 |
| #3 | 2783.4 | 50046. | 3005.6 | 41.092 | 3737.3 |

Sample Name: K2090-03      Acquired: 3/28/2019 0:59:20      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: P-5(0-10)      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |         |         |        |         |
|--------|---------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00033  | -.00407 | .22442 | -.00254 | .00060  | -.07788 | .62681 | -.00013 |
| Stddev | .00407  | .00063  | .00039 | .00165  | .00131  | .01461  | .00483 | .00007  |
| %RSD   | 1216.5  | 15.584  | .17512 | 64.904  | 218.54  | 18.762  | .77056 | 58.480  |
| #1     | -.00047 | -.00471 | .22417 | -.00432 | -.00072 | -.06434 | .63239 | -.00020 |
| #2     | .00474  | -.00344 | .22487 | -.00227 | .00190  | -.07592 | .62420 | -.00006 |
| #3     | -.00327 | -.00408 | .22422 | -.00105 | .00061  | -.09337 | .62385 | -.00012 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00498  | 91.305  | .00065 | .00413  | .04998  | -.00130 | .56682 | 3.9987  |
| Stddev | .00008  | .185    | .00041 | .00043  | .00004  | .00099  | .00101 | .0937   |
| %RSD   | 1.5508  | .20264  | 63.237 | 10.332  | .08497  | 75.723  | .17874 | 2.3438  |
| #1     | .00490  | 91.459  | .00086 | .00450  | .05003  | -.00060 | .56775 | 3.9225  |
| #2     | .00499  | 91.357  | .00018 | .00423  | .04997  | -.00243 | .56697 | 4.1034  |
| #3     | .00506  | 91.100  | .00091 | .00367  | .04995  | -.00088 | .56574 | 3.9704  |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .01309  | -.00368 | 389.72 | -.00103 | 1.4871  | 2.1312  | .00020 | .04269  |
| Stddev | .00013  | .00093  | 2.24   | .00074  | .0055   | .0518   | .00018 | .00810  |
| %RSD   | .99576  | 25.174  | .57591 | 71.363  | .37269  | 2.4312  | 88.001 | 18.971  |
| #1     | .01296  | -.00268 | 390.72 | -.00077 | 1.4935  | 2.0963  | .00040 | .03524  |
| #2     | .01322  | -.00383 | 391.28 | -.00186 | 1.4837  | 2.1908  | .00007 | .04152  |
| #3     | .01311  | -.00451 | 387.14 | -.00046 | 1.4840  | 2.1066  | .00013 | .05130  |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .62972  | 1.4313  | .00213 | -.00195 | .02813  | .0206   | .26683 | .43541  |
| Stddev | .00216  | .0055   | .00050 | .00051  | .00133  | .0010   | .00176 | .12232  |
| %RSD   | .34361  | .38681  | 23.521 | 26.259  | 4.7393  | 4.953   | .65773 | 28.092  |
| #1     | .63197  | 1.4366  | .00242 | -.00217 | .02667  | .0212   | .26850 | .38404  |
| #2     | .62765  | 1.4256  | .00241 | -.00232 | .02929  | .0195   | .26699 | .57503  |
| #3     | .62953  | 1.4317  | .00155 | -.00137 | .02843  | .0213   | .26500 | .34716  |



Sample Name: K2090-03      Acquired: 3/28/2019 0:59:20      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: P-5(0-10)      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 170.93  
 Stddev      22.74  
 %RSD      13.302

#1      166.48  
 #2      150.75  
 #3      195.56

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2776.5 | 50041. | 3045.7 | 42.589 | 3694.6 |
| Stddev    | 6.4    | 312.   | 3.5    | 2.120  | 14.5   |
| %RSD      | .23217 | .62284 | .11332 | 4.9776 | .39303 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2771.3 | 49691. | 3041.8 | 44.071 | 3677.9 |
| #2 | 2783.7 | 50147. | 3046.7 | 43.535 | 3704.2 |
| #3 | 2774.6 | 50286. | 3048.4 | 40.161 | 3701.7 |

Sample Name: CCV13      Acquired: 3/28/2019 1:03:52      Type: Unk  
Method: P4-ICP2(v2989)      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    | 5.1520 | 5.0726 | 4.7483 | 5.3925 | 5.1686 | 9.6542   | 10.085 | .26706   |
| Stddev | .0067  | .0065  | .0030  | .0124  | .0207  | .0490    | .058   | .00063   |
| %RSD   | .13006 | .12814 | .06402 | .22935 | .40055 | .50788   | .57808 | .23609   |
| #1     | 5.1521 | 5.0798 | 4.7517 | 5.4050 | 5.1821 | 9.6941   | 10.145 | .26777   |
| #2     | 5.1453 | 5.0672 | 4.7475 | 5.3803 | 5.1448 | 9.6689   | 10.081 | .26657   |
| #3     | 5.1587 | 5.0708 | 4.7458 | 5.3922 | 5.1790 | 9.5995   | 10.028 | .26684   |
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404   | Mn2576 | Mg2790   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 2.4780 | 25.466 | 1.0770 | 2.3957 | 1.2666 | F 5.8899 | 2.7338 | 25.959   |
| Stddev | .0043  | .069   | .0024  | .0031  | .0036  | .0071    | .0020  | .278     |
| %RSD   | .17258 | .27227 | .22327 | .12819 | .28530 | .12075   | .07301 | 1.0712   |
| #1     | 2.4790 | 25.546 | 1.0759 | 2.3959 | 1.2698 | 5.8958   | 2.7360 | 26.223   |
| #2     | 2.4733 | 25.418 | 1.0753 | 2.3925 | 1.2627 | 5.8820   | 2.7321 | 25.985   |
| #3     | 2.4817 | 25.435 | 1.0797 | 2.3986 | 1.2673 | 5.8920   | 2.7333 | 25.669   |
| Elem   | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664   | Mo2020 | B_2496   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 2.3836 | 1.3475 | 26.743 | 2.6863 | 2.3749 | 24.900   | 5.1254 | 5.0281   |
| Stddev | .0052  | .0021  | .184   | .0063  | .0041  | .158     | .0126  | .0916    |
| %RSD   | .21694 | .15881 | .68897 | .23654 | .17093 | .63441   | .24628 | 1.8223   |
| #1     | 2.3815 | 1.3500 | 26.938 | 2.6889 | 2.3761 | 25.082   | 5.1280 | 4.9730   |
| #2     | 2.3798 | 1.3462 | 26.718 | 2.6791 | 2.3703 | 24.815   | 5.1117 | 5.1339   |
| #3     | 2.3894 | 1.3464 | 26.572 | 2.6910 | 2.3782 | 24.802   | 5.1365 | 4.9774   |
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774   | Sr4077 | U_3670   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      | ppm    | ppm      |
| Avg    | 4.6806 | 5.1168 | 4.8291 | 4.7791 | 5.1016 | 4.692    | 4.9213 | F 1.5304 |
| Stddev | .0088  | .0652  | .0112  | .0391  | .0382  | .012     | .0311  | .1529    |
| %RSD   | .18742 | 1.2745 | .23098 | .81704 | .74974 | .2600    | .63086 | 9.9905   |
| #1     | 4.6814 | 5.1034 | 4.8174 | 4.7476 | 5.0999 | 4.706    | 4.9434 | 1.4027   |
| #2     | 4.6714 | 5.0593 | 4.8303 | 4.7670 | 5.0641 | 4.687    | 4.8858 | 1.6998   |
| #3     | 4.6889 | 5.1876 | 4.8396 | 4.8228 | 5.1406 | 4.683    | 4.9347 | 1.4886   |

Sample Name: CCV13      Acquired: 3/28/2019 1:03:52      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CRI      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 124.17 |
| Stddev | 13.89    |
| %RSD   | 11.187   |

|    |        |
|----|--------|
| #1 | 108.29 |
| #2 | 130.14 |
| #3 | 134.08 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2809.9 | 50458. | 2983.9 | 40.933 | 3742.7 |
| Stddev    | 5.7    | 55.    | 32.7   | 2.401  | 5.7    |
| %RSD      | .20344 | .10854 | 1.0942 | 5.8663 | .15179 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2808.3 | 50513. | 2998.5 | 40.161 | 3741.4 |
| #2 | 2816.3 | 50456. | 3006.7 | 39.013 | 3748.9 |
| #3 | 2805.2 | 50404. | 2946.5 | 43.625 | 3737.7 |

Sample Name: CC1B3      Acquired: 3/28/2019 1:07:52      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: LCSW      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |         |        |
|--------|--------|---------|--------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00276 | -.00101 | .00095 | -.00283 | .00191 | -.02834 | .00819 |
| Stddev | .00158 | .00113  | .00038 | .00083  | .00140 | .01114  | .00053 |
| %RSD   | 57.463 | 112.14  | 39.982 | 29.484  | 73.509 | 39.314  | 6.4228 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .00408 | -.00231 | .00067 | -.00373 | .00043 | -.03967 | .00879 |
| #2 | .00100 | -.00026 | .00138 | -.00265 | .00322 | -.02795 | .00781 |
| #3 | .00320 | -.00046 | .00080 | -.00209 | .00207 | -.01740 | .00797 |

|        |         |        |         |        |         |        |        |
|--------|---------|--------|---------|--------|---------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00012 | .00015 | -.01125 | .00058 | -.00010 | .00163 | .01726 |
| Stddev | .00001  | .00001 | .00445  | .00051 | .00012  | .00026 | .00087 |
| %RSD   | 5.9563  | 8.2185 | 39.576  | 88.046 | 121.11  | 15.972 | 5.0312 |

|    |         |        |         |        |         |        |        |
|----|---------|--------|---------|--------|---------|--------|--------|
| #1 | -.00011 | .00015 | -.00916 | .00051 | .00004  | .00187 | .01630 |
| #2 | -.00012 | .00014 | -.00823 | .00111 | -.00017 | .00135 | .01799 |
| #3 | -.00012 | .00016 | -.01637 | .00011 | -.00018 | .00165 | .01750 |

|        |        |         |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00082 | -.02010 | .00124 | .00019 | .30527 | .00028 | .00014 |
| Stddev | .00005 | .06126  | .00018 | .00065 | .01428 | .00033 | .00003 |
| %RSD   | 6.0660 | 304.85  | 14.570 | 348.27 | 4.6790 | 117.48 | 22.941 |

|    |        |         |        |         |        |         |        |
|----|--------|---------|--------|---------|--------|---------|--------|
| #1 | .00087 | .03871  | .00136 | .00056  | .32175 | .00054  | .00014 |
| #2 | .00083 | -.01545 | .00104 | -.00056 | .29643 | .00041  | .00017 |
| #3 | .00077 | -.08355 | .00133 | .00056  | .29764 | -.00009 | .00011 |

|        |        |        |        |        |         |        |        |
|--------|--------|--------|--------|--------|---------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881  | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | .02191 | .00028 | .01570 | .00053 | -.00245 | .00311 | .00028 |
| Stddev | .05681 | .00022 | .02019 | .00274 | .00208  | .00142 | .00100 |
| %RSD   | 259.26 | 79.464 | 128.58 | 517.99 | 84.920  | 45.720 | 358.02 |

|    |         |        |         |         |         |        |         |
|----|---------|--------|---------|---------|---------|--------|---------|
| #1 | .06628  | .00046 | -.00345 | .00363  | -.00015 | .00474 | -.00042 |
| #2 | -.04212 | .00003 | .03678  | -.00152 | -.00299 | .00231 | .00142  |
| #3 | .04158  | .00034 | .01377  | -.00054 | -.00422 | .00226 | -.00016 |

Sample Name: CC1B3      Acquired: 3/28/2019 1:07:52      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: LCSW      Custom ID2:      Custom ID3:  
 Comment:

|           |          |         |        |          |          |
|-----------|----------|---------|--------|----------|----------|
| Elem      | Li6707   | P_1774  | Sr4077 | U_3670   | U_3859   |
| Units     | ppm      | ppm     | ppm    | ppm      | ppm      |
| Avg       | F .00669 | F .0078 | .00041 | F<.00000 | F 69.998 |
| Stddev    | .00159   | .0010   | .00016 | .26717   | 21.003   |
| %RSD      | 23.822   | 13.00   | 39.776 | 35.485   | 30.005   |
| #1        | .00816   | .0077   | .00045 | -.71010  | 56.567   |
| #2        | .00691   | .0069   | .00023 | -.50974  | 94.201   |
| #3        | .00500   | .0089   | .00056 | -1.0389  | 59.225   |
| Int. Std. | Y_2243   | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S    | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2950.9   | 52371.  | 3000.1 | 42.194   | 4238.9   |
| Stddev    | 3.9      | 29.     | 36.1   | .417     | 8.0      |
| %RSD      | .13106   | .05513  | 1.2034 | .98795   | .18877   |
| #1        | 2946.6   | 52390.  | 2959.2 | 41.817   | 4231.4   |
| #2        | 2953.9   | 52338.  | 3013.7 | 42.125   | 4238.0   |
| #3        | 2952.3   | 52386.  | 3027.5 | 42.642   | 4247.4   |

Sample Name: K2097-07      Acquired: 3/28/2019 1:12:23      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-20      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |        |        |         |
|--------|--------|---------|--------|---------|--------|--------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    | ppm     |
| Avg    | .00194 | -.00320 | .01780 | -.00284 | .00113 | .03822 | .06245 | -.00015 |
| Stddev | .00160 | .00026  | .00048 | .00254  | .00057 | .01500 | .00056 | .00008  |
| %RSD   | 82.702 | 8.2711  | 2.7218 | 89.220  | 50.292 | 39.252 | .89738 | 54.067  |

|    |        |         |        |         |        |        |        |         |
|----|--------|---------|--------|---------|--------|--------|--------|---------|
| #1 | .00306 | -.00312 | .01772 | -.00152 | .00073 | .04242 | .06293 | -.00013 |
| #2 | .00010 | -.00299 | .01735 | -.00577 | .00179 | .05067 | .06183 | -.00008 |
| #3 | .00265 | -.00350 | .01831 | -.00124 | .00088 | .02157 | .06260 | -.00024 |

|        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00036 | 1.3145 | .00143 | .00009 | .01385 | .03579 | .00521 | .29885 |
| Stddev | .00002 | .0367  | .00043 | .00016 | .00047 | .00079 | .00004 | .08084 |
| %RSD   | 4.8129 | 2.7933 | 29.808 | 174.87 | 3.3955 | 2.2089 | .75406 | 27.052 |

|    |        |        |        |         |        |        |        |        |
|----|--------|--------|--------|---------|--------|--------|--------|--------|
| #1 | .00036 | 1.2798 | .00182 | .00013  | .01436 | .03494 | .00520 | .21756 |
| #2 | .00037 | 1.3529 | .00097 | -.00008 | .01344 | .03650 | .00517 | .29976 |
| #3 | .00034 | 1.3108 | .00150 | .00022  | .01375 | .03595 | .00524 | .37924 |

|        |        |         |        |        |        |        |        |        |
|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 | K_7664 | Mo2020 | B_2496 |
| Units  | ppm    | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | .00259 | -.00067 | 312.00 | .00008 | .03128 | .25521 | .00036 | .01807 |
| Stddev | .00010 | .00031  | .41    | .00032 | .00035 | .01182 | .00043 | .01365 |
| %RSD   | 3.9662 | 46.194  | .13251 | 418.53 | 1.1341 | 4.6298 | 118.03 | 75.547 |

|    |        |         |        |         |        |        |         |        |
|----|--------|---------|--------|---------|--------|--------|---------|--------|
| #1 | .00270 | -.00089 | 311.94 | -.00018 | .03168 | .24193 | .00042  | .01871 |
| #2 | .00257 | -.00032 | 312.44 | .00043  | .03117 | .26456 | .00076  | .00411 |
| #3 | .00250 | -.00081 | 311.62 | -.00003 | .03099 | .25913 | -.00009 | .03139 |

|        |        |        |        |        |        |        |        |         |
|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Elem   | S_1820 | Si2881 | Sn1899 | Ti3361 | Li6707 | P_1774 | Sr4077 | U_3670  |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     |
| Avg    | .15696 | .10424 | .00234 | .00092 | .00855 | .0082  | .01144 | <.00000 |
| Stddev | .00633 | .00546 | .00103 | .00111 | .00108 | .0017  | .00010 | .17538  |
| %RSD   | 4.0342 | 5.2347 | 44.062 | 120.57 | 12.585 | 20.82  | .88611 | 24.209  |

|    |        |        |        |         |        |       |        |         |
|----|--------|--------|--------|---------|--------|-------|--------|---------|
| #1 | .16407 | .09987 | .00331 | -.00007 | .00792 | .0100 | .01135 | -.58851 |
| #2 | .15485 | .11036 | .00244 | .00070  | .00979 | .0079 | .01141 | -.66236 |
| #3 | .15194 | .10251 | .00126 | .00213  | .00794 | .0066 | .01155 | -.92239 |

Sample Name: K2097-07      Acquired: 3/28/2019 1:12:23      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-20      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 122.95  
Stddev      17.99  
%RSD      14.631

#1      117.29  
#2      143.09  
#3      108.48

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2852.8 | 50956. | 3050.8 | 42.928 | 3866.0 |
| Stddev    | 14.4   | 146.   | 22.5   | 1.134  | 39.0   |
| %RSD      | .50412 | .28578 | .73669 | 2.6409 | 1.0079 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2838.6 | 50948. | 3076.7 | 44.133 | 3825.7 |
| #2 | 2852.4 | 50814. | 3040.1 | 41.883 | 3868.8 |
| #3 | 2867.4 | 51105. | 3035.8 | 42.766 | 3903.5 |

Sample Name: K2097-08      Acquired: 3/28/2019 1:16:58      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-21      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |         |        |        |         |
|--------|---------|---------|--------|---------|---------|--------|--------|---------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00139  | -.00422 | .01465 | .00017  | .00075  | .06811 | .09276 | -.00015 |
| Stddev | .00296  | .00036  | .00126 | .00431  | .00271  | .02318 | .00208 | .00005  |
| %RSD   | 213.36  | 8.5644  | 8.6246 | 2533.3  | 360.05  | 34.033 | 2.2469 | 32.070  |
| #1     | .00099  | -.00380 | .01607 | .00471  | .00385  | .06182 | .09173 | -.00015 |
| #2     | -.00135 | -.00443 | .01427 | -.00387 | -.00123 | .09378 | .09138 | -.00010 |
| #3     | .00452  | -.00442 | .01363 | -.00033 | -.00036 | .04872 | .09515 | -.00020 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00049  | 3.4992  | .00178 | .00021  | .03895  | .35761 | .02524 | .63846  |
| Stddev | .00005  | .0300   | .00085 | .00015  | .00033  | .00464 | .00035 | .10223  |
| %RSD   | 11.038  | .85661  | 47.609 | 70.976  | .85955  | 1.2986 | 1.3982 | 16.011  |
| #1     | .00048  | 3.4807  | .00269 | .00023  | .03932  | .35411 | .02503 | .62135  |
| #2     | .00055  | 3.4831  | .00165 | .00034  | .03866  | .36288 | .02564 | .54587  |
| #3     | .00045  | 3.5338  | .00101 | .00005  | .03887  | .35585 | .02503 | .74817  |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00308  | -.00114 | 408.43 | -.00003 | .04606  | .25689 | .00015 | .01564  |
| Stddev | .00024  | .00040  | 3.94   | .00005  | .00009  | .01005 | .00018 | .01895  |
| %RSD   | 7.9065  | 35.249  | .96504 | 179.71  | .20123  | 3.9131 | 121.72 | 121.13  |
| #1     | .00336  | -.00136 | 408.89 | -.00005 | .04616  | .25426 | .00002 | .01743  |
| #2     | .00290  | -.00068 | 404.28 | -.00007 | .04598  | .26799 | .00036 | -.00414 |
| #3     | .00298  | -.00138 | 412.12 | .00003  | .04604  | .24841 | .00007 | .03363  |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .22461  | .24039  | .00301 | .00090  | .01417  | .0132  | .03588 | 1.0282  |
| Stddev | .00480  | .00853  | .00121 | .00296  | .00317  | .0029  | .00025 | .6217   |
| %RSD   | 2.1372  | 3.5468  | 40.184 | 327.88  | 22.389  | 22.22  | .68616 | 60.458  |
| #1     | .22626  | .23281  | .00222 | .00314  | .01071  | .0164  | .03574 | 1.5672  |
| #2     | .22837  | .24962  | .00440 | -.00245 | .01487  | .0123  | .03616 | .34818  |
| #3     | .21920  | .23874  | .00241 | .00202  | .01693  | .0108  | .03573 | 1.1693  |



Sample Name: K2097-08      Acquired: 3/28/2019 1:16:58      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-21      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 128.31 |
| Stddev | 45.01    |
| %RSD   | 35.082   |

|    |        |
|----|--------|
| #1 | 110.42 |
| #2 | 179.52 |
| #3 | 94.988 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2722.4 | 48612. | 2932.6 | 40.611 | 3644.7 |
| Stddev    | 8.8    | 186.   | 4.1    | 1.717  | 14.9   |
| %RSD      | .32292 | .38186 | .14122 | 4.2285 | .40989 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2712.6 | 48398. | 2937.2 | 40.133 | 3654.1 |
| #2 | 2724.9 | 48706. | 2931.3 | 42.517 | 3627.4 |
| #3 | 2729.6 | 48731. | 2929.2 | 39.183 | 3652.4 |

Sample Name: K2097-09      Acquired: 3/28/2019 1:21:35      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-22      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |         |         |         |
|--------|--------|---------|--------|---------|--------|---------|---------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934  | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00823 | -.00434 | .00293 | .00259  | .00260 | -.00073 | .05851  | -.00020 |
| Stddev | .00034 | .00072  | .00047 | .00377  | .00062 | .02418  | .00051  | .00007  |
| %RSD   | 4.1911 | 16.537  | 16.008 | 145.62  | 23.851 | 3316.8  | .87962  | 33.829  |
| #1     | .00863 | -.00393 | .00239 | .00666  | .00285 | -.00805 | .05823  | -.00024 |
| #2     | .00804 | -.00517 | .00318 | -.00079 | .00306 | .02627  | .05910  | -.00012 |
| #3     | .00802 | -.00393 | .00322 | .00190  | .00189 | -.02040 | .05819  | -.00025 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404  | Mn2576  | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00016 | 6.5278  | .00156 | .00007  | .00609 | .02449  | .01218  | .69011  |
| Stddev | .00001 | .0471   | .00073 | .00007  | .00016 | .00054  | .00008  | .05344  |
| %RSD   | 7.5984 | .72109  | 46.740 | 89.205  | 2.5786 | 2.1961  | .64239  | 7.7441  |
| #1     | .00017 | 6.4853  | .00236 | -.00000 | .00627 | .02500  | .01219  | .65561  |
| #2     | .00016 | 6.5196  | .00095 | .00010  | .00596 | .02453  | .01210  | .66305  |
| #3     | .00015 | 6.5784  | .00135 | .00013  | .00606 | .02393  | .01225  | .75167  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664  | Mo2020  | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .00067 | -.00135 | 346.65 | .00030  | .02524 | .33271  | .00004  | .01076  |
| Stddev | .00025 | .00057  | 4.15   | .00083  | .00010 | .03779  | .00028  | .02383  |
| %RSD   | 37.246 | 42.349  | 1.1983 | 277.37  | .40204 | 11.360  | 744.03  | 221.53  |
| #1     | .00095 | -.00197 | 348.92 | .00000  | .02525 | .30311  | -.00029 | .00234  |
| #2     | .00047 | -.00121 | 341.85 | -.00034 | .02534 | .37528  | .00020  | -.00772 |
| #3     | .00059 | -.00086 | 349.16 | .00124  | .02514 | .31973  | .00021  | .03766  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774  | Sr4077  | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     |
| Avg    | .10565 | .27198  | .00258 | .00176  | .01330 | .0158   | .02850  | .77979  |
| Stddev | .00311 | .00311  | .00031 | .00131  | .00200 | .0015   | .00032  | .39506  |
| %RSD   | 2.9474 | 1.1443  | 11.979 | 74.177  | 15.042 | 9.715   | 1.1233  | 50.662  |
| #1     | .10913 | .27033  | .00288 | .00298  | .01407 | .0145   | .02813  | .91612  |
| #2     | .10314 | .27004  | .00259 | .00038  | .01103 | .0175   | .02871  | .33462  |
| #3     | .10468 | .27557  | .00226 | .00192  | .01481 | .0155   | .02865  | 1.0886  |

Sample Name: K2097-09      Acquired: 3/28/2019 1:21:35      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-22      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 134.02 |
| Stddev | 46.67    |
| %RSD   | 34.822   |

|    |        |
|----|--------|
| #1 | 155.36 |
| #2 | 80.497 |
| #3 | 166.21 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2791.8 | 49594. | 3014.9 | 40.958 | 3770.0 |
| Stddev    | 6.7    | 359.   | 24.0   | 1.082  | 3.3    |
| %RSD      | .23953 | .72376 | .79689 | 2.6416 | .08668 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2795.4 | 49500. | 3029.8 | 42.183 | 3773.7 |
| #2 | 2784.1 | 49991. | 3027.8 | 40.133 | 3767.6 |
| #3 | 2796.0 | 49291. | 2987.2 | 40.558 | 3768.6 |

Sample Name: K2097-10      Acquired: 3/28/2019 1:26:13      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-19      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00242 | -.00435 | .02080 | .00221  | .00098  | .01426  | .13772 | -.00010 |
| Stddev | .00066 | .00058  | .00049 | .00287  | .00104  | .01699  | .00192 | .00013  |
| %RSD   | 27.094 | 13.341  | 2.3427 | 129.63  | 105.75  | 119.12  | 1.3960 | 130.95  |
| #1     | .00168 | -.00500 | .02137 | .00141  | .00202  | .02414  | .13969 | .00005  |
| #2     | .00293 | -.00389 | .02056 | -.00017 | -.00006 | -.00535 | .13765 | -.00015 |
| #3     | .00266 | -.00416 | .02049 | .00540  | .00099  | .02399  | .13584 | -.00021 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00072 | 33.434  | .00144 | .00756  | .20837  | .20867  | .33007 | 14.494  |
| Stddev | .00005 | .033    | .00052 | .00028  | .00138  | .00153  | .00213 | .134    |
| %RSD   | 6.6014 | .09959  | 36.042 | 3.6378  | .66247  | .73365  | .64651 | .92313  |
| #1     | .00067 | 33.421  | .00194 | .00785  | .20996  | .20964  | .33226 | 14.644  |
| #2     | .00073 | 33.409  | .00146 | .00752  | .20770  | .20946  | .32995 | 14.453  |
| #3     | .00077 | 33.472  | .00090 | .00731  | .20746  | .20690  | .32800 | 14.386  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00776 | -.00186 | 354.60 | -.00099 | .03088  | .54199  | .00024 | .02959  |
| Stddev | .00039 | .00044  | 3.71   | .00029  | .00028  | .04108  | .00022 | .00806  |
| %RSD   | 4.9689 | 23.518  | 1.0472 | 29.553  | .89313  | 7.5797  | 88.024 | 27.255  |
| #1     | .00734 | -.00154 | 357.48 | -.00069 | .03117  | .53319  | .00013 | .02086  |
| #2     | .00810 | -.00236 | 355.91 | -.00101 | .03084  | .58675  | .00011 | .03116  |
| #3     | .00783 | -.00168 | 350.41 | -.00127 | .03063  | .50601  | .00049 | .03676  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .10942 | .51365  | .00232 | .00127  | .01465  | .0109   | .04377 | .46209  |
| Stddev | .00122 | .00396  | .00055 | .00026  | .00082  | .0012   | .00019 | .57467  |
| %RSD   | 1.1129 | .77012  | 23.650 | 20.696  | 5.5713  | 10.95   | .44158 | 124.36  |
| #1     | .10932 | .51348  | .00169 | .00102  | .01399  | .0105   | .04399 | .64369  |
| #2     | .10825 | .50978  | .00269 | .00125  | .01439  | .0122   | .04362 | .92404  |
| #3     | .11068 | .51769  | .00259 | .00154  | .01556  | .0099   | .04370 | -.18144 |

Sample Name: K2097-10      Acquired: 3/28/2019 1:26:13      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-19      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 143.47 |
| Stddev | 45.57    |
| %RSD   | 31.765   |

|    |        |
|----|--------|
| #1 | 98.529 |
| #2 | 142.23 |
| #3 | 189.65 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2790.5 | 49493. | 3003.6 | 41.083 | 3735.7 |
| Stddev    | 15.0   | 376.   | 3.1    | 2.046  | 40.6   |
| %RSD      | .53644 | .75889 | .10324 | 4.9798 | 1.0881 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2773.4 | 49144. | 3000.4 | 38.858 | 3691.7 |
| #2 | 2797.0 | 49443. | 3003.6 | 41.508 | 3743.7 |
| #3 | 2801.1 | 49891. | 3006.6 | 42.883 | 3771.8 |

Sample Name: K2097-11      Acquired: 3/28/2019 1:30:48      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-17      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00314 | -.00487 | .00333 | .00189  | .00022  | -.05547 | .05494 | -.00011 |
| Stddev | .00191 | .00059  | .00057 | .00026  | .00176  | .00939  | .00111 | .00014  |
| %RSD   | 60.696 | 12.069  | 17.146 | 13.837  | 791.29  | 16.922  | 2.0278 | 121.25  |
| #1     | .00473 | -.00551 | .00398 | .00205  | .00208  | -.05853 | .05476 | -.00018 |
| #2     | .00367 | -.00474 | .00290 | .00203  | -.00141 | -.06295 | .05393 | -.00020 |
| #3     | .00103 | -.00436 | .00311 | .00159  | -.00001 | -.04494 | .05614 | .00005  |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00041 | 59.469  | .00113 | .00301  | .00551  | .45862  | .25802 | 30.014  |
| Stddev | .00008 | .347    | .00034 | .00022  | .00056  | .00100  | .00241 | .232    |
| %RSD   | 20.460 | .58277  | 30.213 | 7.2908  | 10.225  | .21762  | .93269 | .77324  |
| #1     | .00044 | 59.118  | .00128 | .00327  | .00616  | .45977  | .25606 | 29.753  |
| #2     | .00032 | 59.477  | .00074 | .00291  | .00514  | .45805  | .26070 | 30.094  |
| #3     | .00048 | 59.811  | .00138 | .00286  | .00523  | .45803  | .25730 | 30.196  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00403 | -.00242 | 287.02 | -.00063 | .02927  | .37875  | .00039 | .01347  |
| Stddev | .00009 | .00028  | 1.45   | .00080  | .00027  | .03752  | .00021 | .04104  |
| %RSD   | 2.1433 | 11.478  | .50580 | 127.77  | .91363  | 9.9076  | 53.373 | 304.76  |
| #1     | .00395 | -.00252 | 287.54 | -.00051 | .02897  | .33984  | .00057 | -.02892 |
| #2     | .00412 | -.00211 | 285.38 | -.00148 | .02946  | .38168  | .00043 | .01629  |
| #3     | .00402 | -.00264 | 288.14 | .00011  | .02939  | .41472  | .00016 | .05302  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .05676 | .14946  | .00190 | .00051  | .01254  | .0101   | .03187 | .12265  |
| Stddev | .00649 | .00258  | .00071 | .00230  | .00185  | .0014   | .00011 | .33536  |
| %RSD   | 11.438 | 1.7269  | 37.160 | 447.41  | 14.744  | 13.52   | .34477 | 273.42  |
| #1     | .05591 | .15192  | .00264 | -.00212 | .01071  | .0092   | .03178 | .27202  |
| #2     | .06363 | .14969  | .00181 | .00158  | .01440  | .0095   | .03199 | -.26144 |
| #3     | .05073 | .14677  | .00124 | .00208  | .01250  | .0117   | .03183 | .35738  |

Sample Name: K2097-11      Acquired: 3/28/2019 1:30:48      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: CS-17      Custom ID2:      Custom ID3:  
 Comment:

Elem      U\_3859  
 Units      ppm  
 Avg      F 144.00  
 Stddev      1.00  
 %RSD      .69276

#1      143.31  
 #2      145.15  
 #3      143.54

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2781.7 | 50066. | 2993.6 | 41.814 | 3752.5 |
| Stddev    | 4.7    | 285.   | 10.5   | 1.155  | 4.5    |
| %RSD      | .16841 | .56987 | .35069 | 2.7633 | .12036 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2776.4 | 49825. | 2983.1 | 41.917 | 3747.3 |
| #2 | 2783.6 | 50381. | 2993.5 | 42.914 | 3755.2 |
| #3 | 2785.2 | 49991. | 3004.1 | 40.610 | 3755.0 |

Sample Name: K2097-12      Acquired: 3/28/2019 1:35:15      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-6      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |         |        |         |
|--------|--------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00365 | -.00425 | .00458 | -.00138 | -.00214 | -.07484 | .05108 | -.00011 |
| Stddev | .00261 | .00073  | .00063 | .00049  | .00067  | .01059  | .00168 | .00003  |
| %RSD   | 71.506 | 17.281  | 13.670 | 35.147  | 31.401  | 14.144  | 3.2811 | 31.053  |
| #1     | .00070 | -.00406 | .00396 | -.00128 | -.00217 | -.08416 | .04954 | -.00009 |
| #2     | .00564 | -.00506 | .00457 | -.00191 | -.00145 | -.07704 | .05084 | -.00009 |
| #3     | .00461 | -.00363 | .00522 | -.00096 | -.00279 | -.06333 | .05287 | -.00015 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00058 | 79.965  | .00077 | .00243  | .00813  | .32314  | .19624 | 44.316  |
| Stddev | .00004 | .195    | .00057 | .00037  | .00054  | .00632  | .00205 | .339    |
| %RSD   | 7.2340 | .24372  | 74.451 | 15.049  | 6.6801  | 1.9557  | 1.0452 | .76556  |
| #1     | .00054 | 79.995  | .00079 | .00271  | .00769  | .32961  | .19861 | 44.201  |
| #2     | .00063 | 79.756  | .00134 | .00202  | .00873  | .32281  | .19513 | 44.697  |
| #3     | .00057 | 80.142  | .00019 | .00256  | .00796  | .31699  | .19498 | 44.048  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00368 | -.00372 | 444.91 | -.00086 | .02687  | .42481  | .00035 | .01198  |
| Stddev | .00049 | .00075  | 3.77   | .00027  | .00029  | .07114  | .00015 | .01628  |
| %RSD   | 13.383 | 20.241  | .84730 | 30.940  | 1.0871  | 16.747  | 42.496 | 135.87  |
| #1     | .00412 | -.00435 | 449.08 | -.00058 | .02703  | .39836  | .00047 | .00485  |
| #2     | .00315 | -.00288 | 443.91 | -.00089 | .02705  | .37068  | .00018 | .03060  |
| #3     | .00378 | -.00392 | 441.75 | -.00112 | .02653  | .50538  | .00041 | .00048  |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .07431 | .14428  | .00249 | -.00056 | .01787  | .0084   | .03779 | .47145  |
| Stddev | .00869 | .00233  | .00021 | .00138  | .00088  | .0030   | .00053 | .33665  |
| %RSD   | 11.700 | 1.6161  | 8.3056 | 245.97  | 4.9214  | 35.45   | 1.3938 | 71.407  |
| #1     | .08330 | .14488  | .00241 | -.00196 | .01851  | .0050   | .03832 | .08290  |
| #2     | .07369 | .14170  | .00234 | -.00051 | .01687  | .0102   | .03778 | .65559  |
| #3     | .06594 | .14624  | .00273 | .00079  | .01823  | .0100   | .03726 | .67586  |



Sample Name: K2097-12      Acquired: 3/28/2019 1:35:15      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: CS-6      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 192.50  
Stddev      6.60  
%RSD      3.4268

#1      199.33  
#2      186.16  
#3      192.02

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2756.0 | 49261. | 3047.9 | 41.693 | 3668.0 |
| Stddev    | 9.9    | 82.    | 5.8    | 1.983  | 33.2   |
| %RSD      | .36056 | .16617 | .19101 | 4.7551 | .90532 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2748.3 | 49172. | 3048.3 | 43.949 | 3638.5 |
| #2 | 2752.5 | 49279. | 3053.5 | 40.903 | 3661.5 |
| #3 | 2767.2 | 49332. | 3041.8 | 40.228 | 3703.9 |

Sample Name: K2105-04      Acquired: 3/28/2019 1:39:51      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: NJ-WATER      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |         |        |        |         |
|--------|--------|---------|--------|---------|---------|--------|--------|---------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961 | Ba4934 | Be2348  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00163 | -.00400 | .00474 | -.00345 | .00173  | .19841 | .08486 | .00001  |
| Stddev | .00126 | .00023  | .00010 | .00292  | .00228  | .00597 | .00151 | .00005  |
| %RSD   | 77.012 | 5.7042  | 2.1115 | 84.625  | 132.12  | 3.0096 | 1.7747 | 403.97  |
| #1     | .00086 | -.00419 | .00468 | -.00137 | .00428  | .20130 | .08323 | .00008  |
| #2     | .00096 | -.00405 | .00469 | -.00678 | .00099  | .19154 | .08517 | -.00002 |
| #3     | .00308 | -.00375 | .00486 | -.00219 | -.00010 | .20238 | .08619 | -.00001 |
| Elem   | Cd2265 | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404 | Mn2576 | Mg2790  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00018 | 3.9081  | .00142 | .00204  | .00567  | .58401 | .09450 | .71256  |
| Stddev | .00006 | .0226   | .00056 | .00017  | .00041  | .00148 | .00016 | .02816  |
| %RSD   | 33.036 | .57938  | 39.589 | 8.2712  | 7.1805  | .25259 | .17258 | 3.9519  |
| #1     | .00023 | 3.8820  | .00082 | .00223  | .00588  | .58237 | .09459 | .68783  |
| #2     | .00020 | 3.9232  | .00193 | .00199  | .00520  | .58440 | .09460 | .74321  |
| #3     | .00011 | 3.9190  | .00150 | .00190  | .00593  | .58525 | .09431 | .70664  |
| Elem   | Ni2316 | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664 | Mo2020 | B_2496  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .00398 | -.00093 | 363.11 | .00082  | .02497  | .46966 | .00038 | .00998  |
| Stddev | .00019 | .00109  | 4.13   | .00062  | .00036  | .04360 | .00014 | .02075  |
| %RSD   | 4.6848 | 118.17  | 1.1375 | 75.601  | 1.4594  | 9.2836 | 37.412 | 207.97  |
| #1     | .00390 | .00003  | 367.25 | .00062  | .02536  | .41941 | .00053 | .03392  |
| #2     | .00419 | -.00212 | 363.07 | .00032  | .02491  | .49740 | .00026 | -.00143 |
| #3     | .00384 | -.00068 | 358.99 | .00152  | .02464  | .49218 | .00034 | -.00257 |
| Elem   | S_1820 | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774 | Sr4077 | U_3670  |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm     | ppm    | ppm    | ppm     |
| Avg    | .16992 | .35454  | .00136 | .00544  | .01343  | .0115  | .02905 | .45727  |
| Stddev | .00634 | .00422  | .00071 | .00098  | .00122  | .0007  | .00026 | .36345  |
| %RSD   | 3.7286 | 1.1890  | 52.370 | 18.072  | 9.0752  | 6.195  | .89276 | 79.482  |
| #1     | .16927 | .35903  | .00176 | .00446  | .01269  | .0115  | .02932 | .26435  |
| #2     | .17655 | .35066  | .00178 | .00545  | .01277  | .0107  | .02905 | .87650  |
| #3     | .16393 | .35394  | .00054 | .00642  | .01484  | .0121  | .02880 | .23096  |

Sample Name: K2105-04      Acquired: 3/28/2019 1:39:51      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: NJ-WATER      Custom ID2:      Custom ID3:  
Comment:

Elem      U\_3859  
Units      ppm  
Avg      F 115.43  
Stddev      29.59  
%RSD      25.634

#1      133.91  
#2      81.300  
#3      131.07

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
|-----------|--------|--------|--------|--------|--------|
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2776.0 | 49300. | 3020.5 | 40.917 | 3733.9 |
| Stddev    | 24.9   | 196.   | 25.5   | .331   | 63.3   |
| %RSD      | .89657 | .39660 | .84464 | .80930 | 1.6945 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2758.6 | 49237. | 2995.4 | 40.567 | 3678.7 |
| #2 | 2764.8 | 49143. | 3046.4 | 41.225 | 3720.1 |
| #3 | 2804.5 | 49519. | 3019.8 | 40.958 | 3802.9 |

Sample Name: K2109-01      Acquired: 3/28/2019 1:44:29      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SB-4(0.5-1.5      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |         |         |        |         |
|--------|---------|---------|--------|---------|---------|---------|--------|---------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00370  | -.00288 | .00933 | -.00167 | -.00036 | -.13605 | .10829 | -.00020 |
| Stddev | .00235  | .00121  | .00112 | .00244  | .00069  | .00467  | .00143 | .00010  |
| %RSD   | 63.644  | 41.963  | 11.972 | 146.41  | 190.56  | 3.4339  | 1.3195 | 47.927  |
| #1     | .00300  | -.00409 | .00818 | -.00275 | -.00093 | -.13946 | .10970 | -.00018 |
| #2     | .00632  | -.00287 | .00939 | .00113  | -.00055 | -.13072 | .10685 | -.00031 |
| #3     | .00177  | -.00168 | .01041 | -.00338 | .00040  | -.13795 | .10833 | -.00012 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00041  | 158.03  | .00221 | -.00008 | .00590  | -.00043 | .03512 | 6.6995  |
| Stddev | .00012  | .83     | .00028 | .00017  | .00090  | .00069  | .00017 | .1562   |
| %RSD   | 28.239  | .52640  | 12.687 | 198.33  | 15.220  | 160.18  | .49787 | 2.3311  |
| #1     | .00051  | 157.14  | .00252 | .00011  | .00494  | -.00111 | .03503 | 6.8789  |
| #2     | .00028  | 158.18  | .00197 | -.00020 | .00604  | .00028  | .03501 | 6.5935  |
| #3     | .00043  | 158.78  | .00215 | -.00016 | .00672  | -.00047 | .03532 | 6.6262  |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | -.00023 | -.00502 | 300.14 | .00084  | .01897  | 3.1788  | .00183 | .03184  |
| Stddev | .00023  | .00070  | .36    | .00069  | .00011  | .0696   | .00058 | .03037  |
| %RSD   | 102.08  | 13.962  | .12128 | 82.206  | .59266  | 2.1887  | 31.509 | 95.391  |
| #1     | -.00000 | -.00428 | 299.78 | .00148  | .01891  | 3.0988  | .00145 | .00114  |
| #2     | -.00046 | -.00511 | 300.15 | .00011  | .01910  | 3.2131  | .00249 | .06187  |
| #3     | -.00021 | -.00568 | 300.50 | .00093  | .01890  | 3.2247  | .00155 | .03251  |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | 2.8887  | 6.0912  | .00079 | -.00370 | .02195  | .0207   | .85887 | .26546  |
| Stddev | .0310   | .0412   | .00064 | .00089  | .00229  | .0027   | .00468 | .26315  |
| %RSD   | 1.0741  | .67709  | 81.806 | 23.928  | 10.413  | 13.25   | .54519 | 99.128  |
| #1     | 2.8808  | 6.0545  | .00096 | -.00388 | .01937  | .0235   | .85352 | .02392  |
| #2     | 2.8623  | 6.1359  | .00133 | -.00449 | .02373  | .0206   | .86223 | .22658  |
| #3     | 2.9229  | 6.0832  | .00008 | -.00274 | .02274  | .0180   | .86085 | .54588  |

Sample Name: K2109-01      Acquired: 3/28/2019 1:44:29      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SB-4(0.5-1.5 Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 152.28 |
| Stddev | 26.90    |
| %RSD   | 17.664   |

|    |        |
|----|--------|
| #1 | 158.13 |
| #2 | 122.94 |
| #3 | 175.77 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2737.4 | 49400. | 3007.8 | 41.947 | 3685.1 |
| Stddev    | 1.7    | 124.   | 20.0   | 1.357  | 18.7   |
| %RSD      | .06380 | .25166 | .66601 | 3.2356 | .50659 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2735.7 | 49525. | 3027.9 | 43.446 | 3693.5 |
| #2 | 2737.3 | 49276. | 2987.9 | 41.592 | 3698.0 |
| #3 | 2739.2 | 49399. | 3007.6 | 40.803 | 3663.7 |

Sample Name: K2109-02      Acquired: 3/28/2019 1:48:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SB-7(6-7)      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |        |         |        |         |        |         |
|--------|---------|---------|--------|---------|--------|---------|--------|---------|
| Elem   | As1890  | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934 | Be2348  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | .00733  | -.00402 | .01199 | .00102  | .00273 | -.12814 | .17384 | -.00049 |
| Stddev | .00262  | .00120  | .00018 | .00400  | .00209 | .01871  | .00029 | .00003  |
| %RSD   | 35.770  | 29.873  | 1.5004 | 393.04  | 76.618 | 14.605  | .16774 | 6.5654  |
| #1     | .01015  | -.00320 | .01211 | -.00313 | .00404 | -.10680 | .17416 | -.00049 |
| #2     | .00687  | -.00346 | .01178 | .00486  | .00032 | -.14176 | .17375 | -.00051 |
| #3     | .00497  | -.00539 | .01207 | .00133  | .00384 | -.13585 | .17359 | -.00045 |
| Elem   | Cd2265  | Ca3736  | Cr2677 | Co2286  | Cu2247 | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | .00007  | 146.80  | .00051 | .00527  | .00650 | 4.0854  | .80800 | 2.6835  |
| Stddev | .00010  | .22     | .00055 | .00011  | .00035 | .0139   | .00152 | .0997   |
| %RSD   | 137.29  | .14893  | 107.95 | 2.0525  | 5.4465 | .34013  | .18806 | 3.7140  |
| #1     | -.00004 | 146.99  | .00115 | .00523  | .00686 | 4.0974  | .80751 | 2.6851  |
| #2     | .00010  | 146.85  | .00024 | .00539  | .00615 | 4.0888  | .80970 | 2.7824  |
| #3     | .00015  | 146.56  | .00015 | .00519  | .00650 | 4.0702  | .80678 | 2.5831  |
| Elem   | Ni2316  | Ag3280  | Na5895 | V_2924  | Zn2138 | K_7664  | Mo2020 | B_2496  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | .00811  | -.00512 | 310.72 | -.00212 | .06475 | 1.8349  | .00197 | .02370  |
| Stddev | .00050  | .00045  | 1.16   | .00059  | .00011 | .0028   | .00015 | .01791  |
| %RSD   | 6.1797  | 8.6993  | .37423 | 28.067  | .17028 | .15149  | 7.4095 | 75.593  |
| #1     | .00838  | -.00463 | 311.57 | -.00145 | .06481 | 1.8317  | .00198 | .03418  |
| #2     | .00753  | -.00549 | 311.19 | -.00229 | .06463 | 1.8359  | .00211 | .03390  |
| #3     | .00842  | -.00523 | 309.39 | -.00260 | .06482 | 1.8370  | .00182 | .00301  |
| Elem   | S_1820  | Si2881  | Sn1899 | Ti3361  | Li6707 | P_1774  | Sr4077 | U_3670  |
| Units  | ppm     | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     |
| Avg    | 1.5831  | .47674  | .00169 | -.00223 | .01984 | .0136   | .32097 | 1.0568  |
| Stddev | .0156   | .00195  | .00060 | .00207  | .00141 | .0026   | .00124 | .1126   |
| %RSD   | .98297  | .40913  | 35.471 | 92.814  | 7.0818 | 18.79   | .38493 | 10.655  |
| #1     | 1.5831  | .47665  | .00119 | -.00445 | .01883 | .0107   | .32237 | .94202  |
| #2     | 1.5676  | .47484  | .00235 | -.00035 | .02145 | .0155   | .32054 | 1.1671  |
| #3     | 1.5987  | .47874  | .00152 | -.00190 | .01924 | .0147   | .32002 | 1.0612  |

Sample Name: K2109-02      Acquired: 3/28/2019 1:48:55      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: SB-7(6-7)      Custom ID2:      Custom ID3:  
 Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 143.39 |
| Stddev | 33.38    |
| %RSD   | 23.277   |

|    |        |
|----|--------|
| #1 | 173.99 |
| #2 | 148.40 |
| #3 | 107.80 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2707.6 | 48626. | 2961.6 | 39.487 | 3645.8 |
| Stddev    | 5.2    | 78.    | 11.0   | 1.104  | 15.7   |
| %RSD      | .19021 | .15939 | .37108 | 2.7958 | .42982 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2708.5 | 48540. | 2956.8 | 39.500 | 3659.1 |
| #2 | 2702.1 | 48691. | 2974.2 | 40.584 | 3628.5 |
| #3 | 2712.3 | 48646. | 2953.9 | 38.377 | 3649.7 |

Sample Name: K2109-03      Acquired: 3/28/2019 1:53:21      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SB-10(6-7)-0      Custom ID2:      Custom ID3:  
Comment:

|        |         |         |         |         |         |         |        |         |
|--------|---------|---------|---------|---------|---------|---------|--------|---------|
| Elem   | As1890  | Tl1908  | Pb2203  | Se1960  | Sb2068  | Al3961  | Ba4934 | Be2348  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .04859  | -.00465 | .05433  | .00305  | -.00196 | -.12224 | .21329 | -.00066 |
| Stddev | .00403  | .00093  | .00109  | .00328  | .00370  | .00674  | .00113 | .00004  |
| %RSD   | 8.3033  | 19.904  | 2.0114  | 107.65  | 189.26  | 5.5169  | .53205 | 6.4705  |
| #1     | .04891  | -.00369 | .05400  | .00561  | -.00010 | -.12598 | .21218 | -.00067 |
| #2     | .05245  | -.00472 | .05344  | -.00065 | -.00622 | -.11445 | .21324 | -.00069 |
| #3     | .04440  | -.00554 | .05555  | .00417  | .00045  | -.12629 | .21445 | -.00061 |
| Elem   | Cd2265  | Ca3736  | Cr2677  | Co2286  | Cu2247  | Fe2404  | Mn2576 | Mg2790  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | -.00011 | 133.06  | -.00028 | .00741  | .00760  | 6.2005  | 1.4868 | 4.7358  |
| Stddev | .00004  | 1.33    | .00026  | .00024  | .00091  | .0269   | .0043  | .1044   |
| %RSD   | 35.070  | .99608  | 91.831  | 3.2767  | 11.991  | .43380  | .28962 | 2.2042  |
| #1     | -.00012 | 133.60  | -.00031 | .00733  | .00680  | 6.2111  | 1.4891 | 4.8546  |
| #2     | -.00014 | 134.04  | -.00053 | .00768  | .00859  | 6.2205  | 1.4894 | 4.6941  |
| #3     | -.00007 | 131.56  | -.00001 | .00721  | .00742  | 6.1699  | 1.4818 | 4.6588  |
| Elem   | Ni2316  | Ag3280  | Na5895  | V_2924  | Zn2138  | K_7664  | Mo2020 | B_2496  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | .00643  | -.00443 | 327.60  | -.00325 | .10676  | 2.1091  | .00851 | .04481  |
| Stddev | .00050  | .00041  | 4.04    | .00049  | .00016  | .0377   | .00016 | .01018  |
| %RSD   | 7.7188  | 9.1878  | 1.2344  | 15.006  | .15355  | 1.7851  | 1.9170 | 22.717  |
| #1     | .00635  | -.00435 | 329.25  | -.00278 | .10657  | 2.1050  | .00832 | .05559  |
| #2     | .00696  | -.00487 | 322.99  | -.00376 | .10687  | 2.1486  | .00861 | .03536  |
| #3     | .00597  | -.00407 | 330.56  | -.00320 | .10684  | 2.0737  | .00859 | .04349  |
| Elem   | S_1820  | Si2881  | Sn1899  | Ti3361  | Li6707  | P_1774  | Sr4077 | U_3670  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm    | ppm     |
| Avg    | 2.0858  | .74231  | .00118  | -.00044 | .02565  | .0850   | .40916 | <.00000 |
| Stddev | .0175   | .00605  | .00098  | .00074  | .00218  | .0005   | .00361 | .40337  |
| %RSD   | .83756  | .81454  | 82.503  | 169.14  | 8.5164  | .6123   | .88251 | 147.79  |
| #1     | 2.0834  | .74879  | .00068  | .00029  | .02344  | .0848   | .41200 | .07206  |
| #2     | 2.1043  | .74133  | .00057  | -.00041 | .02780  | .0845   | .41038 | -.17445 |
| #3     | 2.0696  | .73681  | .00231  | -.00120 | .02570  | .0855   | .40510 | -.71643 |



Sample Name: K2109-03      Acquired: 3/28/2019 1:53:21      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: SB-10(6-7)-0      Custom ID2:      Custom ID3:  
Comment:

|        |          |
|--------|----------|
| Elem   | U_3859   |
| Units  | ppm      |
| Avg    | F 139.77 |
| Stddev | 10.35    |
| %RSD   | 7.4080   |

|    |        |
|----|--------|
| #1 | 128.18 |
| #2 | 143.03 |
| #3 | 148.11 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2747.2 | 49637. | 3057.4 | 41.684 | 3705.0 |
| Stddev    | 3.9    | 281.   | 32.0   | 1.918  | 20.1   |
| %RSD      | .14043 | .56534 | 1.0466 | 4.6010 | .54262 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2745.4 | 49360. | 3038.6 | 39.632 | 3688.6 |
| #2 | 2744.6 | 49629. | 3039.2 | 41.991 | 3727.4 |
| #3 | 2751.7 | 49921. | 3094.3 | 43.431 | 3699.0 |

Sample Name: CCV14      Acquired: 3/28/2019 1:57:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSA8082      Custom ID2:      Custom ID3:  
Comment:

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 5.1002 | 4.9868 | 4.6205 | 5.3813 | 5.1078 | 9.4132 | 9.9441 |
| Stddev | .0146  | .0188  | .0037  | .0135  | .0062  | .1115  | .1044  |
| %RSD   | .28693 | .37774 | .07894 | .25154 | .12109 | 1.1848 | 1.0502 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 5.1035 | 4.9652 | 4.6182 | 5.3778 | 5.1147 | 9.4140 | 9.9790 |
| #2 | 5.1129 | 4.9957 | 4.6185 | 5.3962 | 5.1026 | 9.3014 | 9.8266 |
| #3 | 5.0842 | 4.9997 | 4.6247 | 5.3699 | 5.1063 | 9.5244 | 10.027 |

|        |        |        |        |        |        |        |          |
|--------|--------|--------|--------|--------|--------|--------|----------|
| Elem   | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404   |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm      |
| Avg    | .26627 | 2.4412 | 25.320 | 1.0591 | 2.3476 | 1.2424 | F 6.0011 |
| Stddev | .00056 | .0030  | .181   | .0029  | .0036  | .0003  | .0233    |
| %RSD   | .20898 | .12244 | .71331 | .27287 | .15493 | .02374 | .38844   |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .26658 | 2.4405 | 25.129 | 1.0600 | 2.3472 | 1.2421 | 6.0061 |
| #2 | .26563 | 2.4385 | 25.488 | 1.0559 | 2.3442 | 1.2423 | 5.9757 |
| #3 | .26661 | 2.4444 | 25.343 | 1.0615 | 2.3514 | 1.2427 | 6.0215 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 2.7239 | 25.586 | 2.3359 | 1.3616 | 26.620 | 2.6990 | 2.3179 |
| Stddev | .0047  | .524   | .0054  | .0042  | .292   | .0061  | .0021  |
| %RSD   | .17167 | 2.0497 | .22948 | .30449 | 1.0985 | .22644 | .09146 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 2.7254 | 25.598 | 2.3362 | 1.3582 | 26.646 | 2.7024 | 2.3171 |
| #2 | 2.7186 | 25.056 | 2.3304 | 1.3603 | 26.316 | 2.6920 | 2.3163 |
| #3 | 2.7276 | 26.104 | 2.3411 | 1.3662 | 26.899 | 2.7027 | 2.3203 |

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Elem   | K_7664 | Mo2020 | B_2496 | S_1820 | Si2881 | Sn1899 | Ti3361 |
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avg    | 24.739 | 5.0773 | 5.0059 | 4.5322 | 5.0588 | 4.7742 | 4.6440 |
| Stddev | .261   | .0024  | .0887  | .0037  | .0730  | .0157  | .0243  |
| %RSD   | 1.0537 | .04715 | 1.7708 | .08137 | 1.4420 | .32814 | .52252 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | 24.902 | 5.0770 | 5.0049 | 4.5358 | 5.0104 | 4.7611 | 4.6161 |
| #2 | 24.439 | 5.0750 | 4.9178 | 4.5325 | 5.1427 | 4.7699 | 4.6605 |
| #3 | 24.878 | 5.0798 | 5.0951 | 4.5284 | 5.0232 | 4.7915 | 4.6553 |

Sample Name: CCV14      Acquired: 3/28/2019 1:57:55      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSA8082      Custom ID2:      Custom ID3:  
 Comment:

|        |        |        |        |          |          |
|--------|--------|--------|--------|----------|----------|
| Elem   | Li6707 | P_1774 | Sr4077 | U_3670   | U_3859   |
| Units  | ppm    | ppm    | ppm    | ppm      | ppm      |
| Avg    | 5.0816 | 4.556  | 4.8608 | F<.00000 | F 79.225 |
| Stddev | .0342  | .012   | .0310  | .11703   | 13.691   |
| %RSD   | .67261 | .2667  | .63767 | 808.43   | 17.281   |

|    |        |       |        |         |        |
|----|--------|-------|--------|---------|--------|
| #1 | 5.0430 | 4.547 | 4.8268 | .11002  | 64.848 |
| #2 | 5.1079 | 4.570 | 4.8874 | -.12225 | 80.719 |
| #3 | 5.0940 | 4.552 | 4.8682 | -.03120 | 92.107 |

|           |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | In2306 | In2306 |
| Units     | Cts/S  | Cts/S  | Cts/S  | Cts/S  | Cts/S  |
| Avg       | 2821.2 | 50469. | 2981.5 | 41.281 | 3791.7 |
| Stddev    | 2.2    | 243.   | 32.7   | .383   | 3.3    |
| %RSD      | .07639 | .48141 | 1.0970 | .92723 | .08592 |

|    |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|
| #1 | 2818.8 | 50437. | 3010.7 | 41.167 | 3789.6 |
| #2 | 2821.8 | 50726. | 2946.2 | 41.708 | 3795.4 |
| #3 | 2823.0 | 50243. | 2987.5 | 40.969 | 3790.0 |

Sample Name: CCB14      Acquired: 3/28/2019 2:01:55      Type: Unk  
Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
User: Bin He      Custom ID1: ICSAB8082      Custom ID2:      Custom ID3:  
Comment:

|        |        |         |        |         |        |         |        |
|--------|--------|---------|--------|---------|--------|---------|--------|
| Elem   | As1890 | Tl1908  | Pb2203 | Se1960  | Sb2068 | Al3961  | Ba4934 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm     | ppm    |
| Avg    | .00004 | -.00033 | .00092 | -.00299 | .00151 | -.02411 | .00686 |
| Stddev | .00422 | .00124  | .00017 | .00355  | .00066 | .00799  | .00057 |
| %RSD   | 11660. | 374.90  | 18.215 | 118.97  | 43.369 | 33.141  | 8.2365 |

|    |         |         |        |         |        |         |        |
|----|---------|---------|--------|---------|--------|---------|--------|
| #1 | .00231  | -.00150 | .00077 | -.00239 | .00227 | -.02028 | .00746 |
| #2 | -.00483 | -.00047 | .00090 | .00023  | .00115 | -.01877 | .00634 |
| #3 | .00263  | .00097  | .00110 | -.00680 | .00111 | -.03330 | .00678 |

|        |         |        |        |        |         |        |        |
|--------|---------|--------|--------|--------|---------|--------|--------|
| Elem   | Be2348  | Cd2265 | Ca3736 | Cr2677 | Co2286  | Cu2247 | Fe2404 |
| Units  | ppm     | ppm    | ppm    | ppm    | ppm     | ppm    | ppm    |
| Avg    | -.00010 | .00010 | .00514 | .00028 | -.00007 | .00089 | .01741 |
| Stddev | .00004  | .00008 | .02471 | .00027 | .00013  | .00010 | .00016 |
| %RSD   | 41.450  | 78.380 | 480.68 | 97.174 | 172.74  | 11.792 | .94079 |

|    |         |        |         |        |         |        |        |
|----|---------|--------|---------|--------|---------|--------|--------|
| #1 | -.00005 | .00018 | .02350  | .00007 | .00004  | .00101 | .01758 |
| #2 | -.00012 | .00005 | .01487  | .00059 | -.00020 | .00084 | .01726 |
| #3 | -.00013 | .00006 | -.02295 | .00018 | -.00006 | .00082 | .01738 |

|        |        |         |        |         |        |        |        |
|--------|--------|---------|--------|---------|--------|--------|--------|
| Elem   | Mn2576 | Mg2790  | Ni2316 | Ag3280  | Na5895 | V_2924 | Zn2138 |
| Units  | ppm    | ppm     | ppm    | ppm     | ppm    | ppm    | ppm    |
| Avg    | .00086 | -.00894 | .00137 | -.00072 | .30133 | .00024 | .00015 |
| Stddev | .00010 | .03613  | .00037 | .00087  | .00241 | .00026 | .00009 |
| %RSD   | 11.370 | 404.01  | 26.922 | 121.71  | .79923 | 106.07 | 60.391 |

|    |        |         |        |         |        |        |        |
|----|--------|---------|--------|---------|--------|--------|--------|
| #1 | .00078 | -.04424 | .00167 | -.00166 | .30162 | .00008 | .00013 |
| #2 | .00083 | -.01055 | .00147 | .00006  | .29878 | .00054 | .00025 |
| #3 | .00096 | .02796  | .00096 | -.00054 | .30357 | .00011 | .00007 |

|        |        |        |          |         |         |        |         |
|--------|--------|--------|----------|---------|---------|--------|---------|
| Elem   | K_7664 | Mo2020 | B_2496   | S_1820  | Si2881  | Sn1899 | Ti3361  |
| Units  | ppm    | ppm    | ppm      | ppm     | ppm     | ppm    | ppm     |
| Avg    | .07185 | .00040 | F .03139 | -.00044 | -.00119 | .00362 | -.00042 |
| Stddev | .01308 | .00029 | .00589   | .00318  | .00125  | .00092 | .00065  |
| %RSD   | 18.207 | 72.001 | 18.756   | 725.08  | 104.64  | 25.503 | 155.34  |

|    |        |        |        |         |         |        |         |
|----|--------|--------|--------|---------|---------|--------|---------|
| #1 | .08569 | .00052 | .03662 | -.00124 | -.00162 | .00454 | .00006  |
| #2 | .07018 | .00060 | .02501 | .00307  | -.00217 | .00269 | -.00116 |
| #3 | .05969 | .00007 | .03253 | -.00315 | .00021  | .00363 | -.00016 |

Sample Name: CCB14      Acquired: 3/28/2019 2:01:55      Type: Unk  
 Method: P4-ICP2(v2989)      Mode: CONC      Corr. Factor: 1.000000  
 User: Bin He      Custom ID1: ICSAB8082      Custom ID2:      Custom ID3:  
 Comment:

|           |          |         |        |          |          |
|-----------|----------|---------|--------|----------|----------|
| Elem      | Li6707   | P_1774  | Sr4077 | U_3670   | U_3859   |
| Units     | ppm      | ppm     | ppm    | ppm      | ppm      |
| Avg       | F .00788 | F .0082 | .00028 | F<.00000 | F 60.307 |
| Stddev    | .00170   | .0030   | .00007 | .30784   | 35.708   |
| %RSD      | 21.541   | 37.13   | 26.447 | 12.219   | 59.210   |
| #1        | .00930   | .0047   | .00033 | -2.3683  | 19.487   |
| #2        | .00600   | .0098   | .00019 | -2.3162  | 85.753   |
| #3        | .00835   | .0101   | .00032 | -2.8735  | 75.680   |
| Int. Std. | Y_2243   | Y_3600  | Y_3710 | In2306   | In2306   |
| Units     | Cts/S    | Cts/S   | Cts/S  | Cts/S    | Cts/S    |
| Avg       | 2949.5   | 52285.  | 3013.1 | 40.575   | 4249.2   |
| Stddev    | 5.3      | 97.     | 26.0   | .808     | 8.2      |
| %RSD      | .17897   | .18573  | .86210 | 1.9916   | .19315   |
| #1        | 2954.2   | 52174.  | 2988.0 | 40.667   | 4252.0   |
| #2        | 2950.4   | 52329.  | 3039.9 | 41.333   | 4255.6   |
| #3        | 2943.8   | 52353.  | 3011.4 | 39.725   | 4239.9   |