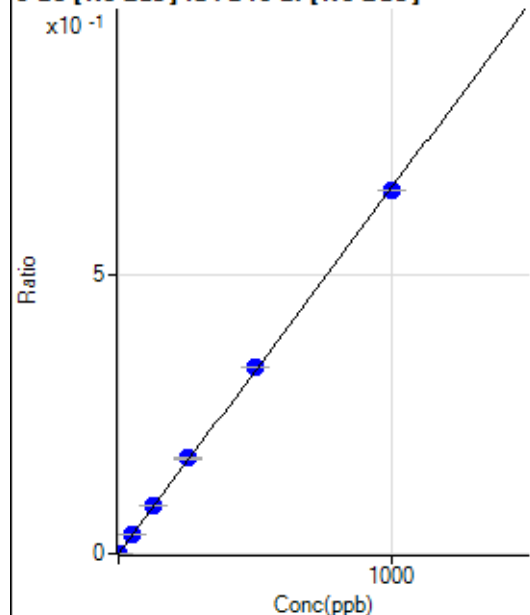


Calibration for 004CALS.d

Batch Folder: D:\ICP-MS Data\P7120518-MS.b\  
 Analysis File: P7120518-MS.batch.bin  
 DA Date-Time: 2018-12-05 13:01:57  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2018-12-05 12:19:39 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2018-12-05 12:28:00 |
| 4     | 006CALS.d          | S03         | 2018-12-05 12:31:54 |
| 5     | 007CALS.d          | S04         | 2018-12-05 12:36:00 |
| 6     | 008CALS.d          | S05         | 2018-12-05 12:39:48 |
| 7     | 009CALS.d          | S06         | 2018-12-05 12:43:33 |
| 8     | 010CALS.d          | S07         | 2018-12-05 12:47:18 |
| 9     | 011CALS.d          | S08         | 2018-12-05 12:51:03 |

**9 Be [No Gas] ISTD:6 Li [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 40.74      | 0.0000 | P        | 20.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.999      | 4091.41    | 0.0007 | P        | 6.9  |
| 4 | <input type="checkbox"/> | 50.000   | 52.981     | 208569.23  | 0.0348 | P        | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 131.892    | 486572.01  | 0.0865 | P        | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 260.547    | 871439.34  | 0.1709 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 508.854    | 1588425.36 | 0.3337 | P        | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.926    | 3091270.12 | 0.6506 | P        | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 722.26     | 0.0001 | P        | 9.2  |

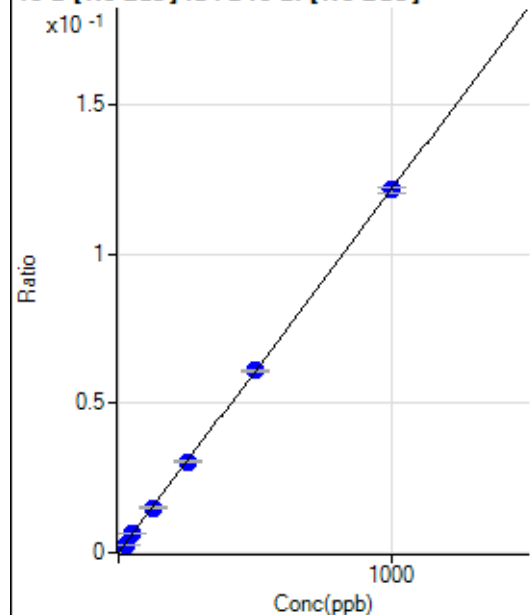
$$y = 6.5586\text{E-}004 * x + 6.7656\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.006414$$

Weight: &lt;None&gt;

Min Conc: 0

**10 B [No Gas] ISTD:6 Li [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 300.02    | 0.0000 | P        | 19.6 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |          |      |
| 3 | <input type="checkbox"/> | 25.000   | 22.951     | 17535.87  | 0.0028 | P        | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 51.269     | 37683.93  | 0.0063 | P        | 1.5  |
| 5 | <input type="checkbox"/> | 125.000  | 123.891    | 84941.10  | 0.0151 | P        | 1.8  |
| 6 | <input type="checkbox"/> | 250.000  | 250.632    | 155524.83 | 0.0305 | P        | 2.1  |
| 7 | <input type="checkbox"/> | 500.000  | 501.860    | 290456.47 | 0.0610 | P        | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.038    | 577053.66 | 0.1214 | P        | 1.6  |
| 9 | <input type="checkbox"/> |          |            | 14660.37  | 0.0028 | P        | 10.6 |

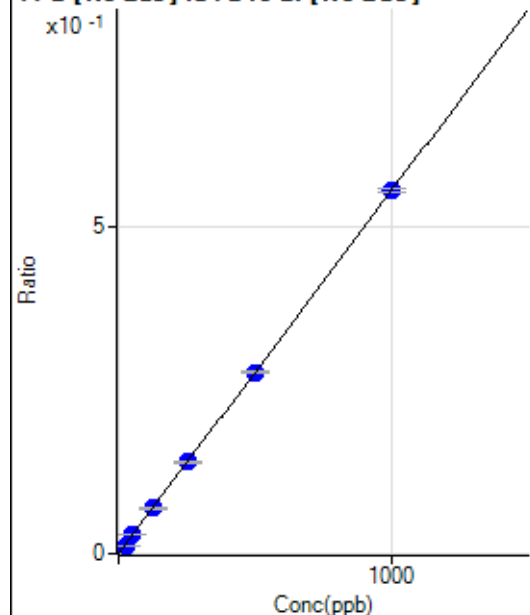
$$y = 1.2150\text{E-}004 * x + 4.9838\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.2407$$

Weight: &lt;None&gt;

Min Conc: 0

**11 B [No Gas] ISTD:6 Li [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1480.69    | 0.0002 | P   | 8.4  |
| 2 | <input type="checkbox"/> | 2.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 25.000   | 23.093     | 80902.92   | 0.0131 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 50.913     | 171472.42  | 0.0286 | P   | 1.4  |
| 5 | <input type="checkbox"/> | 125.000  | 124.821    | 391989.50  | 0.0697 | P   | 1.8  |
| 6 | <input type="checkbox"/> | 250.000  | 251.971    | 716092.95  | 0.1404 | P   | 1.9  |
| 7 | <input type="checkbox"/> | 500.000  | 500.289    | 1326025.68 | 0.2786 | P   | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.387    | 2643505.44 | 0.5563 | P   | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 66400.32   | 0.0129 | P   | 10.9 |

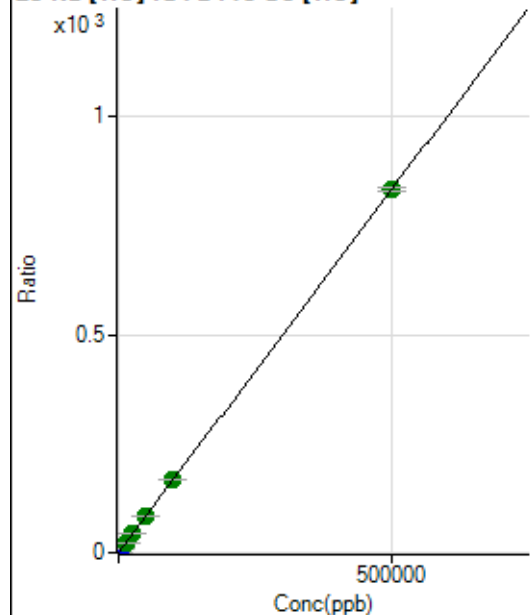
$$y = 5.5641\text{E-}004 * x + 2.4592\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1118$$

Weight: &lt;None&gt;

Min Conc: 0

**23 Na [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 9041.97     | 0.0208   | P   | 2.3 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 459.506    | 345214.81   | 0.7857   | P   | 0.6 |
| 4 | <input type="checkbox"/> | 5000.000  | 4966.037   | 3464240.01  | 8.2874   | P   | 0.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 12502.921  | 8040716.41  | 20.8336  | A   | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 25311.350  | 14683115.78 | 42.1549  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 50566.811  | 28437310.71 | 84.1960  | A   | 0.2 |
| 8 | <input type="checkbox"/> | 100000.00 | 100220.77  | 57161465.17 | 166.8516 | A   | 1.1 |
| 9 | <input type="checkbox"/> | 500000.00 | 499883.90  | 313610548.6 | 832.1441 | A   | 1.0 |

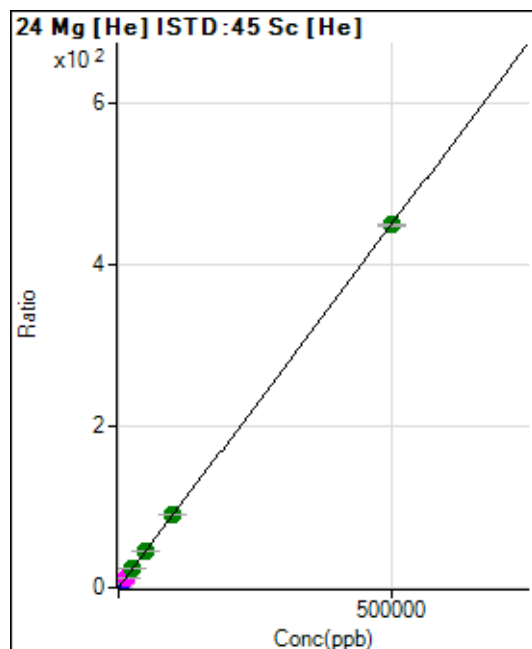
$$y = 0.0017 * x + 0.0208$$

$$R = 1.0000$$

$$DL = 0.8726$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 144.45      | 0.0003   | P    | 21.9 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 471.231    | 186679.16   | 0.4249   | P    | 1.3  |
| 4 | <input type="checkbox"/> | 5000.000  | 5132.396   | 1933045.75  | 4.6244   | P    | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12886.636  | 4481114.08  | 11.6105  | M    | 0.7  |
| 6 | <input type="checkbox"/> | 25000.000 | 25892.027  | 8125438.20  | 23.3278  | A    | 0.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 51412.624  | 15644871.01 | 46.3205  | A    | 0.2  |
| 8 | <input type="checkbox"/> | 100000.00 | 101228.19  | 31244755.56 | 91.2019  | A    | 1.1  |
| 9 | <input type="checkbox"/> | 500000.00 | 499557.53  | 169623709.3 | 450.0766 | A    | 0.8  |

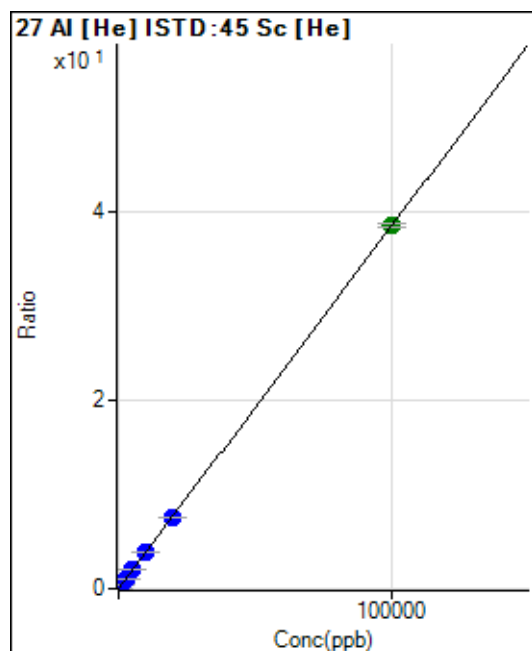
$$y = 9.0095\text{E-}004 * x + 3.3250\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2424$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 36.11       | 0.0001  | P    | 74.1 |
| 2 | <input type="checkbox"/> | 2.000     |            |             |         |      |      |
| 3 | <input type="checkbox"/> | 20.000    | 19.626     | 3358.83     | 0.0076  | P    | 1.7  |
| 4 | <input type="checkbox"/> | 1000.000  | 1010.641   | 162805.03   | 0.3895  | P    | 1.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2547.165   | 378784.13   | 0.9815  | P    | 1.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5089.298   | 683025.08   | 1.9609  | P    | 0.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 10122.024  | 1317202.90  | 3.8999  | P    | 0.3  |
| 8 | <input type="checkbox"/> | 20000.000 | 19709.720  | 2601636.30  | 7.5939  | P    | 1.2  |
| 9 | <input type="checkbox"/> | 100000.00 | 100040.10  | 14525868.21 | 38.5438 | A    | 1.0  |

$$y = 3.8528\text{E-}004 * x + 8.3090\text{E-}005$$

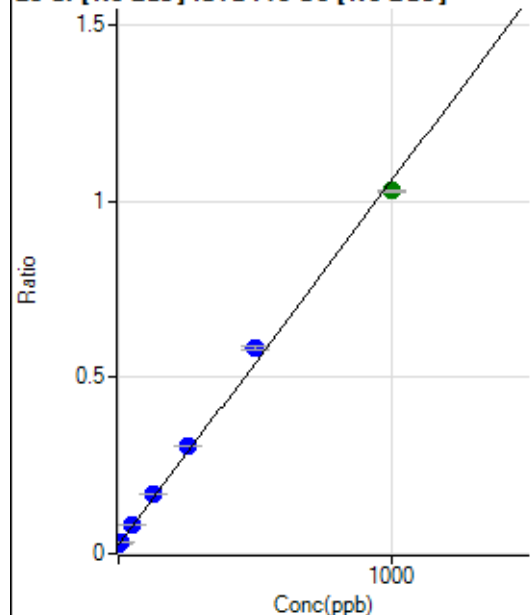
$$R = 1.0000$$

$$DL = 0.4793$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD : 45 Sc [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 249190.91  | 0.0253 | P    | 0.9 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 10.000   | 9.446      | 349083.78  | 0.0350 | P    | 0.3 |
| 4 | <input type="checkbox"/> | 50.000   | 55.555     | 799274.03  | 0.0826 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 137.759    | 1522609.93 | 0.1675 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 272.565    | 2501257.31 | 0.3068 | P    | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 539.843    | 4444711.65 | 0.5828 | P    | 1.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 972.570    | 7833623.00 | 1.0297 | A    | 0.8 |
| 9 | <input type="checkbox"/> |          |            | 975603.29  | 0.1189 | P    | 2.3 |

$$y = 0.0010 * x + 0.0253$$

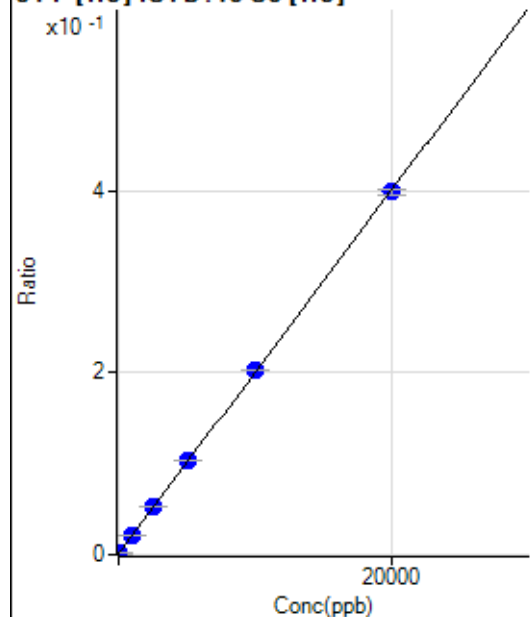
$$R = 0.9985$$

$$DL = 0.6354$$

Weight: &lt;None&gt;

Min Conc: 0

31 P [He] ISTD : 45 Sc [He]



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -23.264    | 202.79    | 0.0005 | P    | 25.0 |
| 2 | <input type="checkbox"/> | 0.000     |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 0.000     | 23.264     | 613.93    | 0.0014 | P    | 16.4 |
| 4 | <input type="checkbox"/> | 1000.000  | 1032.358   | 9016.98   | 0.0216 | P    | 4.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2602.132   | 20442.46  | 0.0530 | P    | 1.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5156.750   | 36239.35  | 0.1040 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 10072.340  | 68334.53  | 0.2023 | P    | 0.0  |
| 8 | <input type="checkbox"/> | 20000.000 | 19910.258  | 136710.81 | 0.3990 | P    | 1.7  |
| 9 | <input type="checkbox"/> |           |            | 247.24    | 0.0007 | P    | 8.9  |

$$y = 1.9994E-005 * x + 9.3185E-004$$

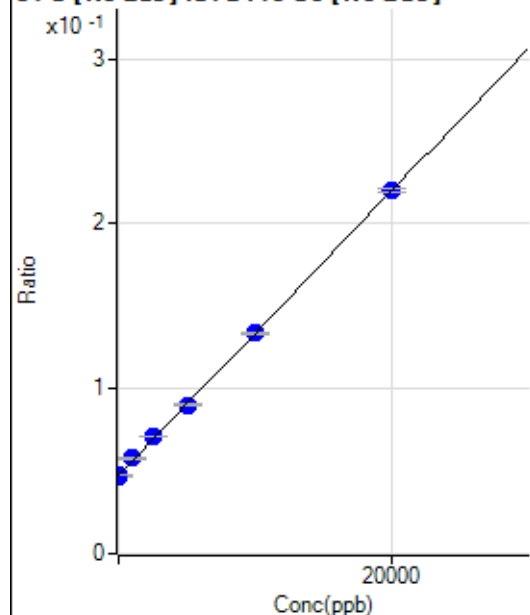
$$R = 0.9999$$

$$DL = 25.96$$

Weight: &lt;None&gt;

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -73.693    | 462201.68  | 0.0469 | P   | 0.5 |
| 2 | <input type="checkbox"/> | 0.000     |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 0.000     | 73.693     | 479765.73  | 0.0481 | P   | 0.2 |
| 4 | <input type="checkbox"/> | 1000.000  | 1184.641   | 558190.47  | 0.0577 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2716.149   | 644604.62  | 0.0709 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 4967.404   | 736715.76  | 0.0903 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9968.239   | 1018149.13 | 0.1335 | P   | 0.5 |
| 8 | <input type="checkbox"/> | 20000.000 | 19987.779  | 1673276.83 | 0.2199 | P   | 1.0 |
| 9 | <input type="checkbox"/> |           |            | 370018.02  | 0.0451 | P   | 0.4 |

$$y = 8.6283\text{E-}006 * x + 0.0475$$

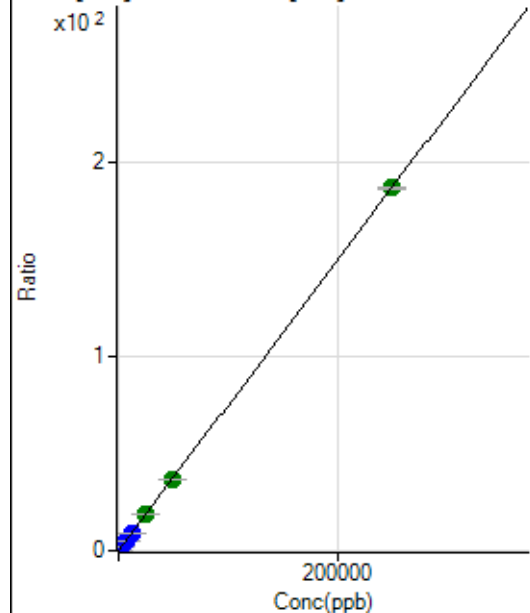
$$R = 0.9999$$

$$DL = 56.89$$

Weight: &lt;None&gt;

Min Conc: 0

39 K [He] ISTD:45 Sc [He]



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 21658.25    | 0.0498   | P   | 0.9 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 474.732    | 177350.37   | 0.4036   | P   | 0.7 |
| 4 | <input type="checkbox"/> | 2500.000  | 2518.741   | 805487.66   | 1.9270   | P   | 0.5 |
| 5 | <input type="checkbox"/> | 6250.000  | 6291.159   | 1828778.08  | 4.7384   | P   | 0.6 |
| 6 | <input type="checkbox"/> | 12500.000 | 12461.374  | 3252104.76  | 9.3368   | P   | 0.9 |
| 7 | <input type="checkbox"/> | 25000.000 | 24633.362  | 6217356.18  | 18.4081  | A   | 0.2 |
| 8 | <input type="checkbox"/> | 50000.000 | 48670.382  | 12443569.20 | 36.3219  | A   | 1.2 |
| 9 | <input type="checkbox"/> | 250000.00 | 250303.35  | 70327519.63 | 186.5906 | A   | 0.3 |

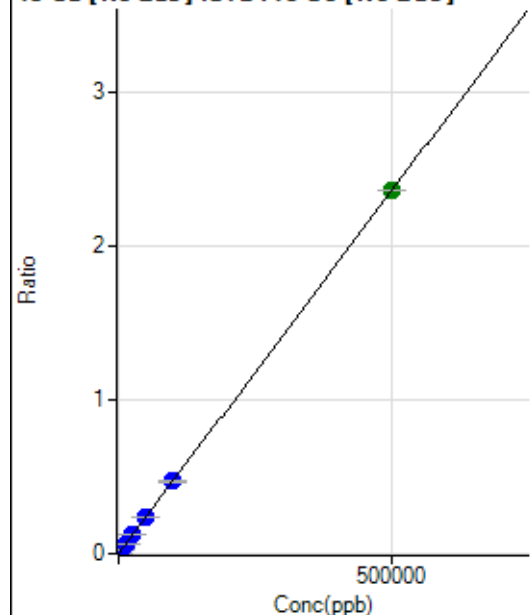
$$y = 7.4526\text{E-}004 * x + 0.0498$$

$$R = 1.0000$$

$$DL = 1.882$$

Weight: &lt;None&gt;

Min Conc: 0

**43 Ca [No Gas] ISTD:45 Sc [No Gas]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 163.90      | 0.0000 | P        | 44.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |        |          |      |
| 3 | <input type="checkbox"/> | 500.000   | 464.817    | 21997.76    | 0.0022 | P        | 2.1  |
| 4 | <input type="checkbox"/> | 5000.000  | 4975.905   | 226916.65   | 0.0235 | P        | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12544.894  | 537305.83   | 0.0591 | P        | 1.0  |
| 6 | <input type="checkbox"/> | 25000.000 | 25260.837  | 970587.68   | 0.1190 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 50007.719  | 1796995.87  | 0.2356 | P        | 1.2  |
| 8 | <input type="checkbox"/> | 100000.00 | 99528.115  | 3567478.55  | 0.4689 | P        | 0.8  |
| 9 | <input type="checkbox"/> | 500000.00 | 500079.71  | 19320662.06 | 2.3561 | A        | 0.1  |

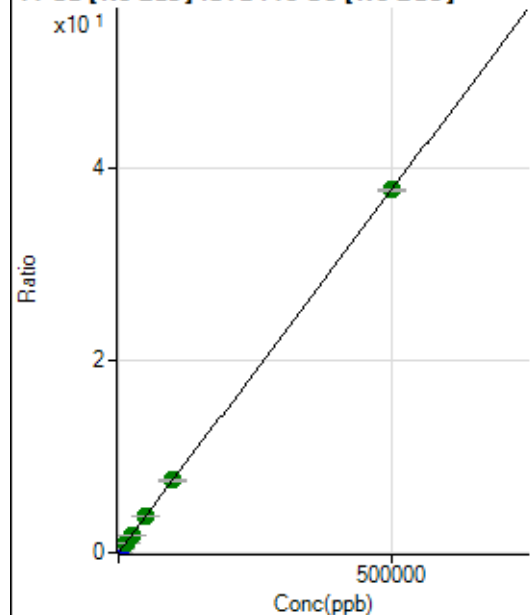
$$y = 4.7114\text{E-}006 * x + 1.6623\text{E-}005$$

$$R = 1.0000$$

$$DL = 4.662$$

Weight: &lt;None&gt;

Min Conc: 0

**44 Ca [No Gas] ISTD:45 Sc [No Gas]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 9790.74     | 0.0010  | P        | 1.1 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |          |     |
| 3 | <input type="checkbox"/> | 500.000   | 465.676    | 359868.05   | 0.0361  | P        | 0.7 |
| 4 | <input type="checkbox"/> | 5000.000  | 5040.164   | 3684666.32  | 0.3809  | P        | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12476.243  | 8557128.66  | 0.9415  | A        | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 25141.538  | 15462351.74 | 1.8963  | A        | 0.1 |
| 7 | <input type="checkbox"/> | 50000.000 | 50007.041  | 28758794.74 | 3.7708  | A        | 0.5 |
| 8 | <input type="checkbox"/> | 100000.00 | 99516.263  | 57080711.00 | 7.5031  | A        | 0.7 |
| 9 | <input type="checkbox"/> | 500000.00 | 500089.19  | 309159681.9 | 37.7006 | A        | 0.5 |

$$y = 7.5386\text{E-}005 * x + 9.9249\text{E-}004$$

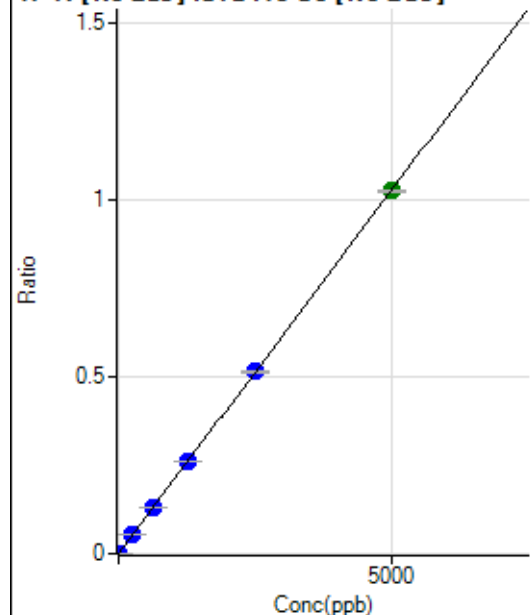
$$R = 1.0000$$

$$DL = 0.4499$$

Weight: &lt;None&gt;

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.00     | 0.0000 | P    | 43.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.851      | 10051.10   | 0.0010 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 250.000  | 252.957    | 503511.80  | 0.0521 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 630.690    | 1179439.34 | 0.1298 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 1250.000 | 1258.505   | 2111423.81 | 0.2589 | P    | 0.1  |
| 7 | <input type="checkbox"/> | 2500.000 | 2509.303   | 3937636.03 | 0.5163 | P    | 0.9  |
| 8 | <input type="checkbox"/> | 5000.000 | 4992.363   | 7814529.69 | 1.0272 | A    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 6712.93    | 0.0008 | P    | 2.5  |

$$y = 2.0575E-004 * x + 1.0134E-005$$

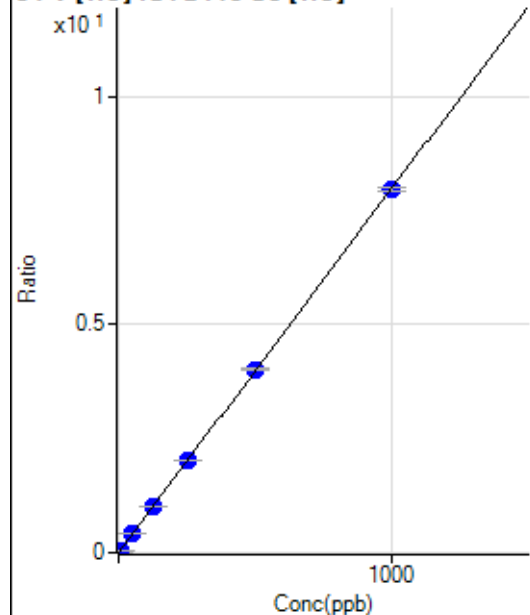
$$R = 1.0000$$

$$DL = 0.06381$$

Weight: &lt;None&gt;

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.45       | 0.0000 | P    | 86.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.996      | 17516.17   | 0.0399 | P    | 2.2  |
| 4 | <input type="checkbox"/> | 50.000   | 50.938     | 169886.22  | 0.4064 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 127.055    | 391243.09  | 1.0137 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 253.548    | 704608.11  | 2.0229 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 503.581    | 1356990.39 | 4.0177 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.018    | 2725168.02 | 7.9545 | P    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 1190.07    | 0.0032 | P    | 4.3  |

$$y = 0.0080 * x + 1.0239E-005$$

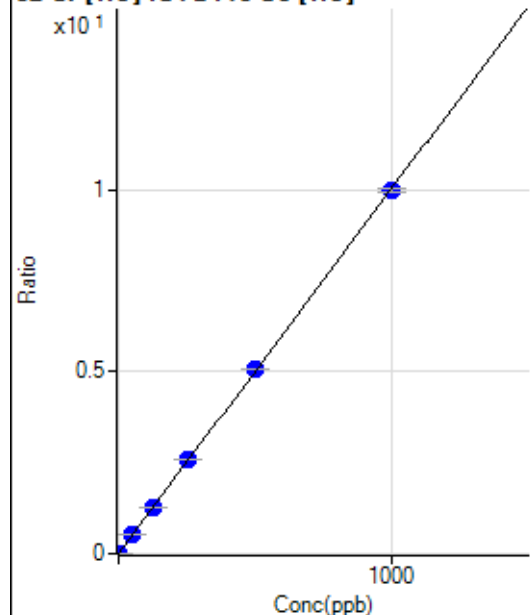
$$R = 1.0000$$

$$DL = 0.003334$$

Weight: &lt;None&gt;

Min Conc: 0



**52 Cr [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1015.61    | 0.0023 | P    | 3.2 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.906      | 9427.61    | 0.0215 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 51.409     | 216562.32  | 0.5181 | P    | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 128.032    | 496651.80  | 1.2868 | P    | 0.1 |
| 6 | <input type="checkbox"/> | 250.000  | 257.041    | 899025.78  | 2.5810 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 507.001    | 1718714.02 | 5.0887 | P    | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 994.290    | 3418248.80 | 9.9773 | P    | 1.1 |
| 9 | <input type="checkbox"/> |          |            | 126209.74  | 0.3349 | P    | 0.7 |

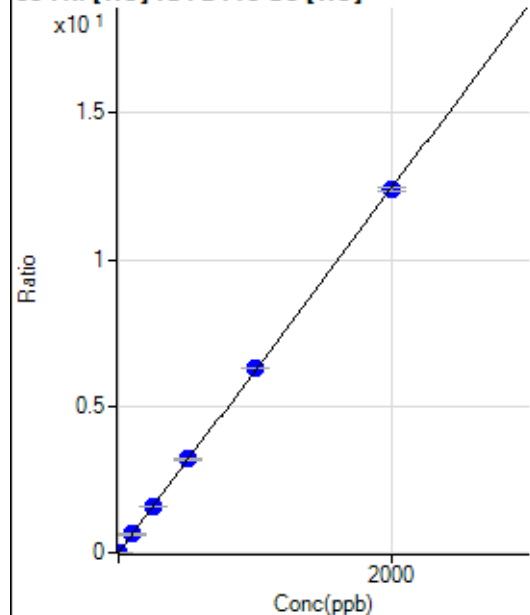
$$y = 0.0100 * x + 0.0023$$

$$R = 0.9999$$

$$DL = 0.02212$$

Weight: &lt;None&gt;

Min Conc: 0

**55 Mn [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 46.67      | 0.0001  | P    | 46.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.991      | 2753.64    | 0.0063  | P    | 1.9  |
| 4 | <input type="checkbox"/> | 100.000  | 100.251    | 260536.23  | 0.6233  | P    | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 253.995    | 609409.75  | 1.5790  | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 512.965    | 1110658.37 | 3.1887  | P    | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.639   | 2121869.12 | 6.2823  | P    | 0.4  |
| 8 | <input type="checkbox"/> | 2000.000 | 1990.928   | 4239969.07 | 12.3759 | P    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 30618.74   | 0.0812  | P    | 1.6  |

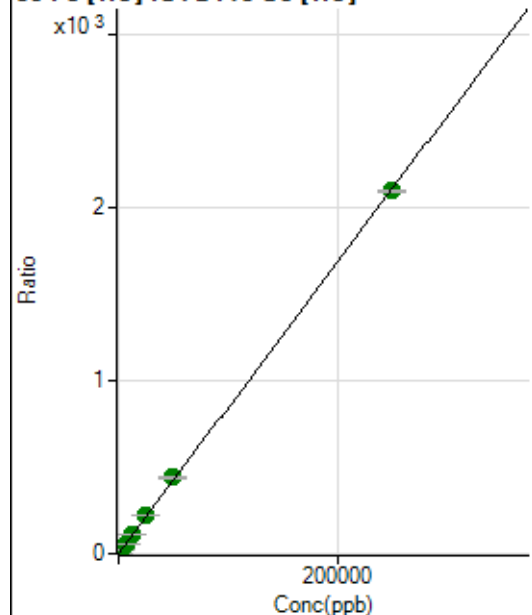
$$y = 0.0062 * x + 1.0737E-004$$

$$R = 1.0000$$

$$DL = 0.02424$$

Weight: &lt;None&gt;

Min Conc: 0

**56 Fe [He] ISTD:45 Sc [He]**

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 5026.94     | 0.0116    | P    | 2.9 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |      |     |
| 3 | <input type="checkbox"/> | 50.000    | 52.386     | 198376.81   | 0.4515    | P    | 1.1 |
| 4 | <input type="checkbox"/> | 2500.000  | 2679.040   | 9409660.28  | 22.5107   | A    | 0.5 |
| 5 | <input type="checkbox"/> | 6250.000  | 6746.437   | 21871607.43 | 56.6695   | A    | 0.8 |
| 6 | <input type="checkbox"/> | 12500.000 | 13557.686  | 39662838.39 | 113.8717  | A    | 0.9 |
| 7 | <input type="checkbox"/> | 25000.000 | 26805.969  | 76039210.96 | 225.1333  | A    | 0.2 |
| 8 | <input type="checkbox"/> | 50000.000 | 52485.462  | 151011044.1 | 440.7947  | A    | 1.2 |
| 9 | <input type="checkbox"/> | 250000.00 | 249255.22  | 788956995.4 | 2,093.305 | A    | 0.6 |

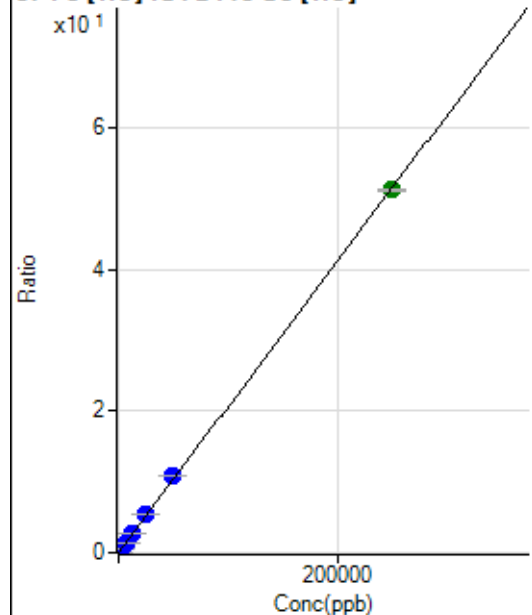
$$y = 0.0084 * x + 0.0116$$

$$R = 0.9999$$

$$DL = 0.1208$$

Weight: &lt;None&gt;

Min Conc: 0

**57 Fe [He] ISTD:45 Sc [He]**

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 137.04      | 0.0003  | P    | 6.3 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |         |      |     |
| 3 | <input type="checkbox"/> | 50.000    | 54.290     | 5051.01     | 0.0115  | P    | 1.2 |
| 4 | <input type="checkbox"/> | 2500.000  | 2670.369   | 230017.67   | 0.5503  | P    | 0.8 |
| 5 | <input type="checkbox"/> | 6250.000  | 6726.593   | 534796.48   | 1.3856  | P    | 0.1 |
| 6 | <input type="checkbox"/> | 12500.000 | 13568.345  | 973390.41   | 2.7946  | P    | 0.8 |
| 7 | <input type="checkbox"/> | 25000.000 | 26810.934  | 1865015.84  | 5.5218  | P    | 0.7 |
| 8 | <input type="checkbox"/> | 50000.000 | 52498.194  | 3704188.95  | 10.8119 | P    | 0.7 |
| 9 | <input type="checkbox"/> | 250000.00 | 249252.23  | 19346294.64 | 51.3320 | A    | 0.8 |

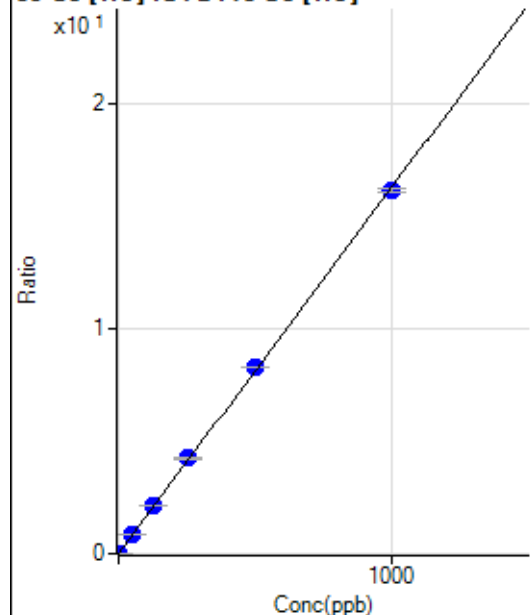
$$y = 2.0594E-004 * x + 3.1542E-004$$

$$R = 0.9999$$

$$DL = 0.2899$$

Weight: &lt;None&gt;

Min Conc: 0

**59 Co [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 61.11      | 0.0001  | P        | 24.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.000      | 7218.54    | 0.0164  | P        | 5.1  |
| 4 | <input type="checkbox"/> | 50.000   | 52.511     | 357552.20  | 0.8554  | P        | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 130.570    | 820814.09  | 2.1267  | P        | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 260.068    | 1475404.58 | 4.2358  | P        | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 510.918    | 2810531.56 | 8.3213  | P        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.202    | 5530655.40 | 16.1436 | P        | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 72282.52   | 0.1918  | P        | 1.3  |

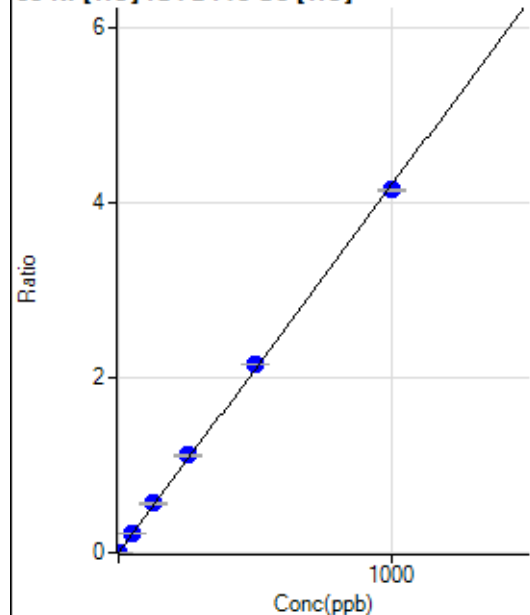
$$y = 0.0163 * x + 1.4066E-004$$

$$R = 0.9998$$

$$DL = 0.00637$$

Weight: &lt;None&gt;

Min Conc: 0

**60 Ni [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 66.67      | 0.0002 | P        | 30.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.034      | 1979.06    | 0.0045 | P        | 6.5  |
| 4 | <input type="checkbox"/> | 50.000   | 54.049     | 95095.72   | 0.2275 | P        | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 133.555    | 216871.00  | 0.5619 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 264.903    | 388152.21  | 1.1144 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 514.935    | 731586.52  | 2.1660 | P        | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 987.535    | 1423113.07 | 4.1539 | P        | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 45682.13   | 0.1212 | P        | 1.3  |

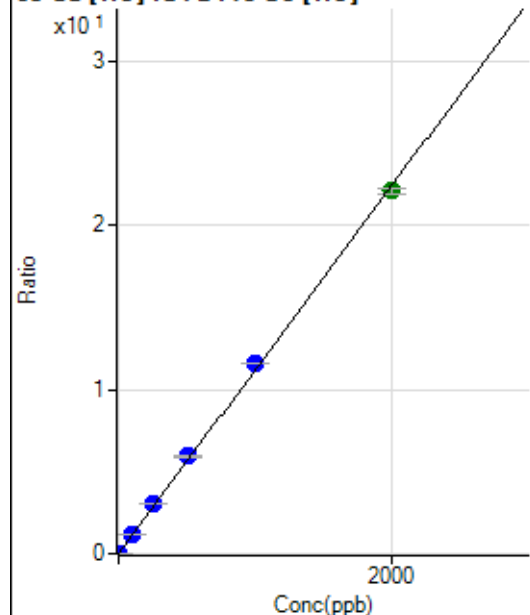
$$y = 0.0042 * x + 1.5347E-004$$

$$R = 0.9997$$

$$DL = 0.03338$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>63</sup>Cu [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 441.13     | 0.0010  | P   | 8.6 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.098      | 10758.53   | 0.0245  | P   | 0.9 |
| 4 | <input type="checkbox"/> | 100.000  | 108.410    | 507476.69  | 1.2140  | P   | 0.0 |
| 5 | <input type="checkbox"/> | 250.000  | 267.935    | 1157505.03 | 2.9990  | P   | 0.1 |
| 6 | <input type="checkbox"/> | 500.000  | 529.693    | 2064694.36 | 5.9278  | P   | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 1032.557   | 3902532.13 | 11.5545 | P   | 0.3 |
| 8 | <input type="checkbox"/> | 2000.000 | 1973.635   | 7565842.73 | 22.0843 | A   | 1.3 |
| 9 | <input type="checkbox"/> |          |            | 19593.35   | 0.0520  | P   | 1.6 |

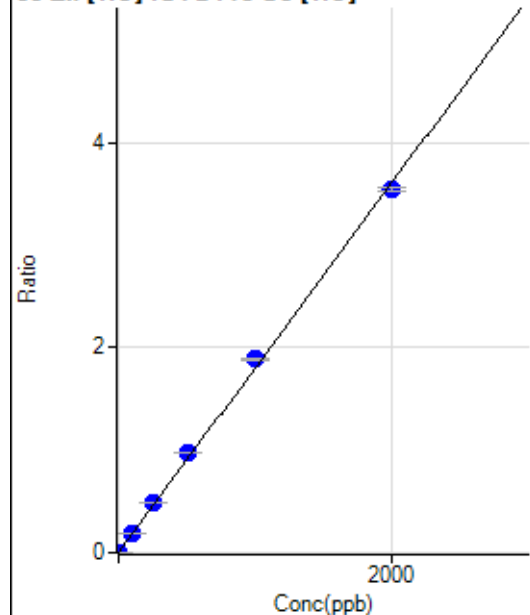
$$y = 0.0112 * x + 0.0010$$

$$R = 0.9997$$

$$DL = 0.02344$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>66</sup>Zn [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 443.35     | 0.0010 | P   | 9.3 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.101      | 2111.30    | 0.0048 | P   | 3.6 |
| 4 | <input type="checkbox"/> | 100.000  | 107.937    | 81699.10   | 0.1954 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 269.670    | 187879.43  | 0.4868 | P   | 0.1 |
| 6 | <input type="checkbox"/> | 500.000  | 539.512    | 338857.46  | 0.9729 | P   | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 1046.860   | 637252.32  | 1.8867 | P   | 0.7 |
| 8 | <input type="checkbox"/> | 2000.000 | 1963.836   | 1212259.89 | 3.5385 | P   | 1.2 |
| 9 | <input type="checkbox"/> |          |            | 11400.15   | 0.0303 | P   | 1.9 |

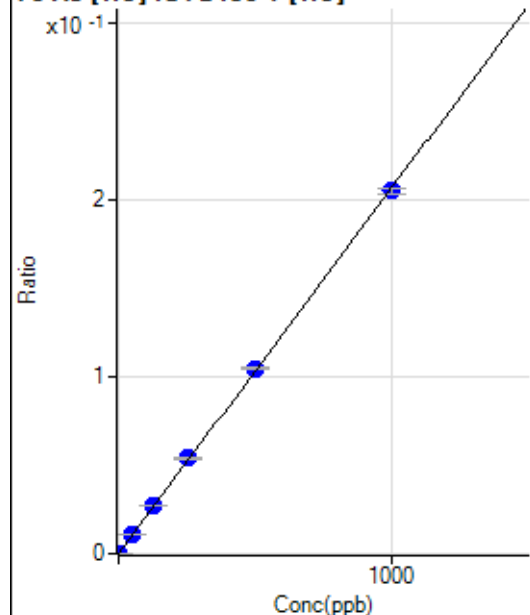
$$y = 0.0018 * x + 0.0010$$

$$R = 0.9993$$

$$DL = 0.1585$$

Weight: &lt;None&gt;

Min Conc: 0

**75 As [He] ISTD:89 Y [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.94      | 0.0000 | P    | 56.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.965      | 453.72    | 0.0002 | P    | 12.4 |
| 4 | <input type="checkbox"/> | 50.000   | 53.416     | 23765.75  | 0.0110 | P    | 1.6  |
| 5 | <input type="checkbox"/> | 125.000  | 132.289    | 54793.34  | 0.0274 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 261.775    | 98955.66  | 0.0541 | P    | 1.6  |
| 7 | <input type="checkbox"/> | 500.000  | 506.972    | 187049.94 | 0.1048 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.488    | 368635.34 | 0.2052 | P    | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 730.89    | 0.0004 | P    | 11.7 |

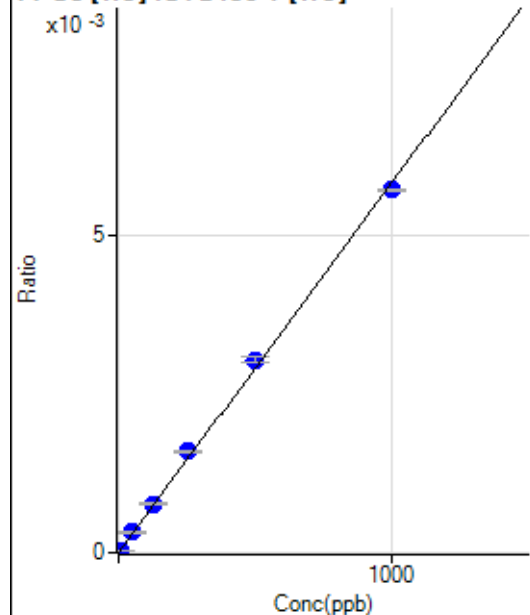
$$y = 2.0674\text{E-}004 * x + 2.1993\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01814$$

Weight: &lt;None&gt;

Min Conc: 0

**77 Se [He] ISTD:89 Y [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00     | 0.0000 | P    |      |
| 2 | <input type="checkbox"/> | 0.500    |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.928      | 77.78    | 0.0000 | P    | 25.7 |
| 4 | <input type="checkbox"/> | 50.000   | 55.601     | 697.81   | 0.0003 | P    | 4.4  |
| 5 | <input type="checkbox"/> | 125.000  | 132.699    | 1550.11  | 0.0008 | P    | 4.9  |
| 6 | <input type="checkbox"/> | 250.000  | 273.770    | 2919.23  | 0.0016 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 500.000  | 521.091    | 5423.33  | 0.0030 | P    | 2.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 982.265    | 10292.70 | 0.0057 | P    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 17.78    | 0.0000 | P    | 12.2 |

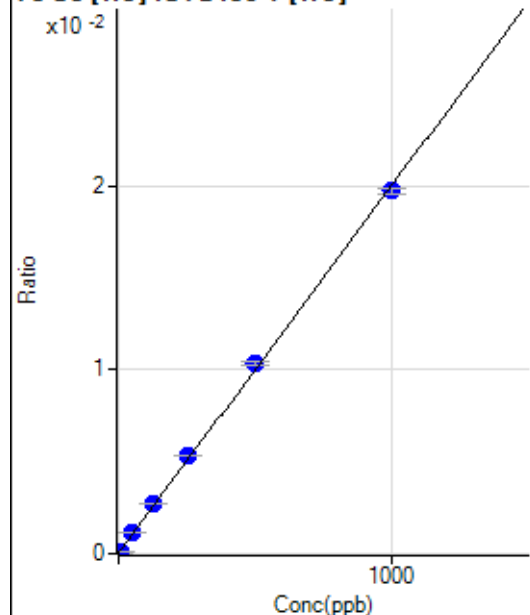
$$y = 5.8318\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9994$$

$$DL = 0$$

Weight: &lt;None&gt;

Min Conc: 0

**78 Se [He] ISTD:89 Y [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 80.25    | 0.0000 | P        | 12.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |          |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.923      | 301.86   | 0.0001 | P        | 6.2  |
| 4 | <input type="checkbox"/> | 50.000   | 55.730     | 2473.69  | 0.0011 | P        | 2.7  |
| 5 | <input type="checkbox"/> | 125.000  | 135.145    | 5482.56  | 0.0027 | P        | 2.3  |
| 6 | <input type="checkbox"/> | 250.000  | 266.253    | 9795.35  | 0.0054 | P        | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 515.973    | 18466.15 | 0.0103 | P        | 2.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.396    | 35479.69 | 0.0197 | P        | 1.6  |
| 9 | <input type="checkbox"/> |          |            | 87.04    | 0.0000 | P        | 5.6  |

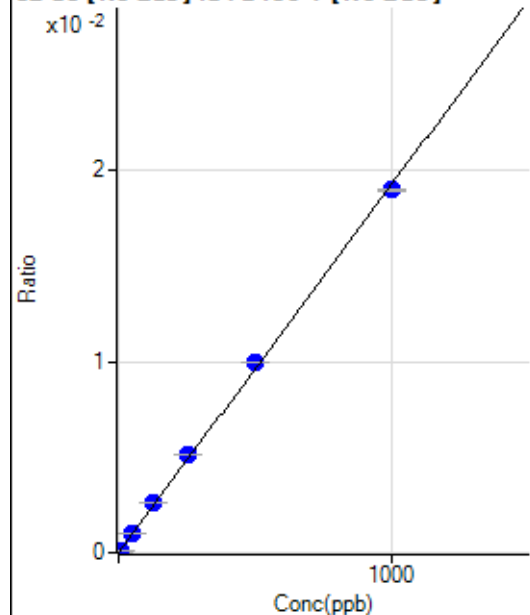
$$y = 1.9984\text{E-}005 * x + 3.5859\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.6818$$

Weight: &lt;None&gt;

Min Conc: 0

**82 Se [No Gas] ISTD:89 Y [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 7.69      | 0.0000 | P        | 781. |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.600      | 1729.17   | 0.0001 | P        | 5.5  |
| 4 | <input type="checkbox"/> | 50.000   | 54.256     | 16209.90  | 0.0010 | P        | 1.6  |
| 5 | <input type="checkbox"/> | 125.000  | 136.528    | 38729.66  | 0.0026 | P        | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 265.496    | 70009.73  | 0.0051 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 516.959    | 129594.25 | 0.0099 | P        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 985.990    | 246997.79 | 0.0190 | P        | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 307.67    | 0.0000 | P        | 26.3 |

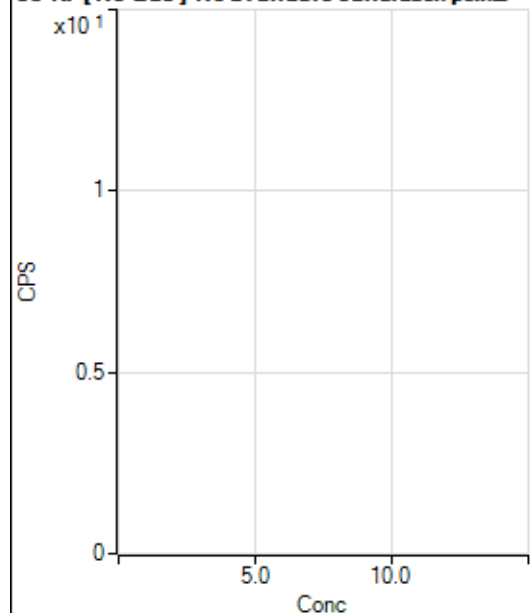
$$y = 1.9239\text{E-}005 * x + 4.8673\text{E-}007$$

$$R = 0.9996$$

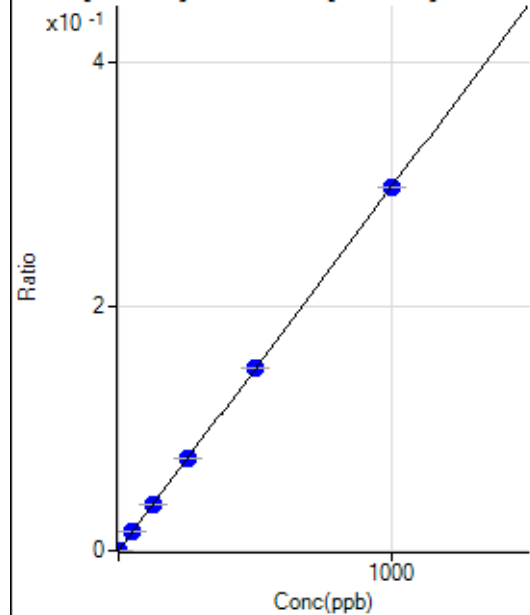
$$DL = 0.5932$$

Weight: &lt;None&gt;

Min Conc: 0

**83 Kr [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 810.03 |       | P        | 4.7  |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 775.59 |       | P        | 3.9  |
| 4 | <input type="checkbox"/> |       |            | 795.59 |       | P        | 3.2  |
| 5 | <input type="checkbox"/> |       |            | 715.58 |       | P        | 13.5 |
| 6 | <input type="checkbox"/> |       |            | 645.58 |       | P        | 17.3 |
| 7 | <input type="checkbox"/> |       |            | 694.47 |       | P        | 6.1  |
| 8 | <input type="checkbox"/> |       |            | 634.47 |       | P        | 10.8 |
| 9 | <input type="checkbox"/> |       |            | 768.92 |       | P        | 12.7 |

**86 Sr [ No Gas ] ISTD : 89 Y [ No Gas ]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1225.11    | 0.0001 | P        | 9.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.985      | 5929.27    | 0.0004 | P        | 5.3 |
| 4 | <input type="checkbox"/> | 50.000   | 50.498     | 234644.54  | 0.0151 | P        | 0.8 |
| 5 | <input type="checkbox"/> | 125.000  | 127.087    | 559117.10  | 0.0379 | P        | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 252.034    | 1029811.92 | 0.0751 | P        | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 503.198    | 1953661.42 | 0.1499 | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.607    | 3869538.54 | 0.2972 | P        | 0.1 |
| 9 | <input type="checkbox"/> |          |            | 18598.80   | 0.0014 | P        | 1.0 |

$$y = 2.9783\text{E-}004 * x + 7.7821\text{E-}005$$

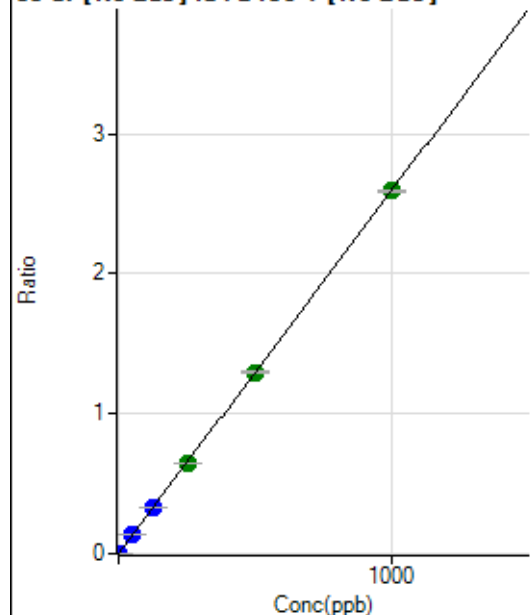
$$R = 1.0000$$

$$DL = 0.07432$$

Weight: &lt;None&gt;

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 119.45      | 0.0000 | P    | 31.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.930      | 38622.52    | 0.0024 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 50.000   | 50.752     | 2041807.79  | 0.1315 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 127.711    | 4879629.93  | 0.3310 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 250.509    | 8898510.18  | 0.6493 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 499.845    | 16879773.82 | 1.2955 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.574    | 33732278.18 | 2.5908 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 156439.09   | 0.0118 | P    | 0.1  |

$$y = 0.0026 * x + 7.5877E-006$$

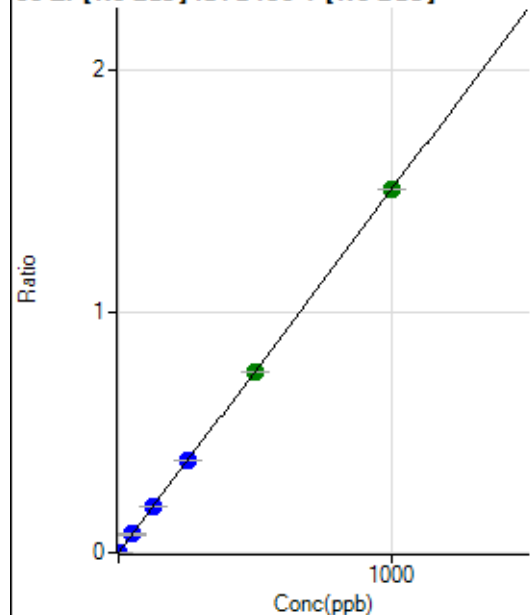
$$R = 1.0000$$

$$DL = 0.002746$$

Weight: &lt;None&gt;

Min Conc: 0

90 Zr [No Gas] ISTD:89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1225.11     | 0.0001 | P    | 6.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.936      | 23742.74    | 0.0015 | P    | 3.1 |
| 4 | <input type="checkbox"/> | 50.000   | 50.298     | 1175704.74  | 0.0757 | P    | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 126.515    | 2806998.89  | 0.1904 | P    | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 253.596    | 5229853.94  | 0.3816 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 498.981    | 9781923.14  | 0.7508 | A    | 0.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 999.407    | 19577871.27 | 1.5036 | A    | 0.1 |
| 9 | <input type="checkbox"/> |          |            | 10473.68    | 0.0008 | P    | 2.3 |

$$y = 0.0015 * x + 7.7834E-005$$

$$R = 1.0000$$

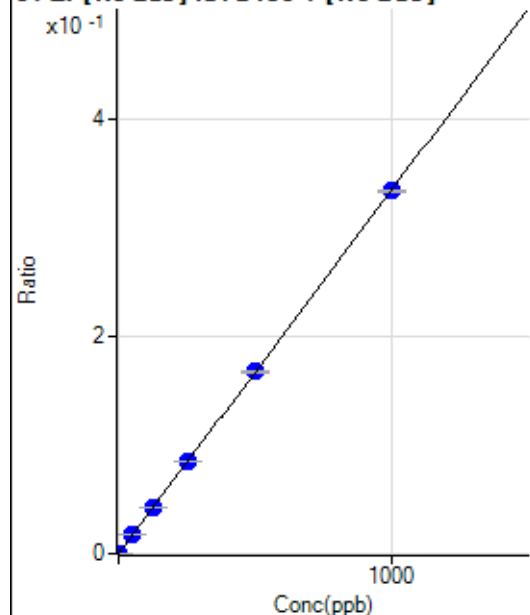
$$DL = 0.009798$$

Weight: &lt;None&gt;

Min Conc: 0



91 Zr [No Gas] ISTD: 89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 275.01     | 0.0000 | P    | 23.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.932      | 5251.17    | 0.0003 | P    | 4.9  |
| 4 | <input type="checkbox"/> | 50.000   | 50.585     | 262514.05  | 0.0169 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 126.268    | 621995.10  | 0.0422 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 253.265    | 1159598.94 | 0.0846 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 501.492    | 2182664.39 | 0.1675 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.250    | 4341633.65 | 0.3334 | P    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 2339.18    | 0.0002 | P    | 1.5  |

$$y = 3.3401\text{E-}004 * x + 1.7477\text{E-}005$$

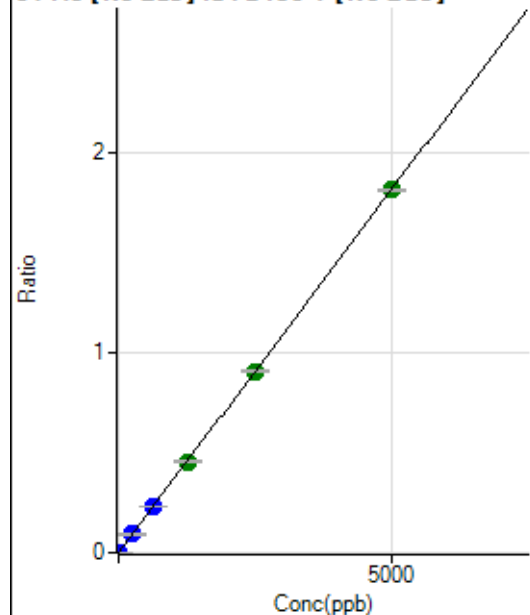
$$R = 1.0000$$

$$DL = 0.03727$$

Weight: &lt;None&gt;

Min Conc: 0

94 Mo [No Gas] ISTD: 89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 416.69      | 0.0000 | P    | 4.3 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.779      | 28078.51    | 0.0018 | P    | 1.7 |
| 4 | <input type="checkbox"/> | 250.000  | 252.337    | 1419446.71  | 0.0915 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 625.000  | 635.129    | 3392653.07  | 0.2301 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 1250.000 | 1255.238   | 6233407.74  | 0.4548 | A    | 0.5 |
| 7 | <input type="checkbox"/> | 2500.000 | 2500.883   | 11806253.21 | 0.9061 | A    | 0.6 |
| 8 | <input type="checkbox"/> | 5000.000 | 4996.866   | 23572188.55 | 1.8105 | A    | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 30620.01    | 0.0023 | P    | 2.3 |

$$y = 3.6232\text{E-}004 * x + 2.6478\text{E-}005$$

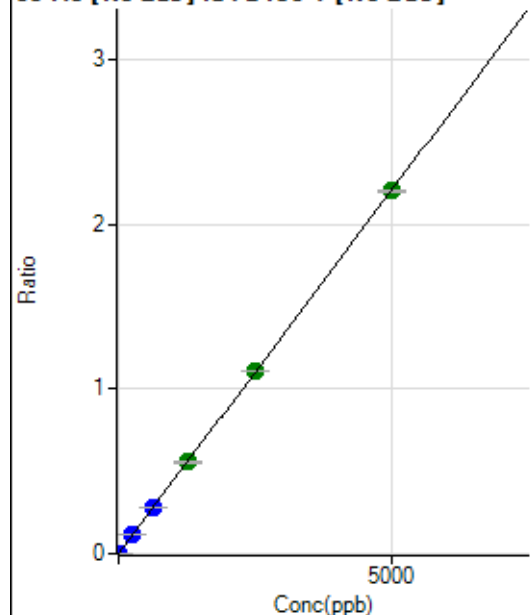
$$R = 1.0000$$

$$DL = 0.009512$$

Weight: &lt;None&gt;

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.56       | 0.0000 | P    | 41.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.899      | 34576.28    | 0.0022 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 250.000  | 254.089    | 1741148.91  | 0.1122 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 625.000  | 639.244    | 4160222.84  | 0.2822 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 1250.000 | 1258.389   | 7614049.22  | 0.5556 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2505.894   | 14414329.66 | 1.1063 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4992.971   | 28700074.95 | 2.2043 | A    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 47059.12    | 0.0036 | P    | 0.4  |

$$y = 4.4148\text{E-}004 * x + 1.9415\text{E-}006$$

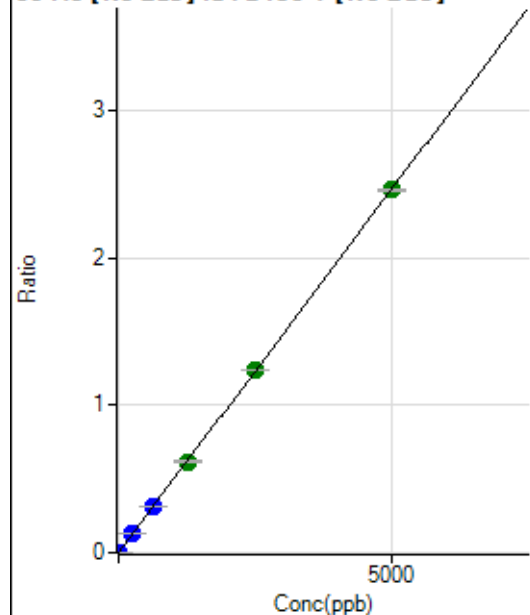
$$R = 1.0000$$

$$DL = 0.005483$$

Weight: &lt;None&gt;

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 208.35      | 0.0000 | P    | 38.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.891      | 38711.90    | 0.0024 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 250.000  | 253.428    | 1938812.02  | 0.1249 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 637.032    | 4628332.44  | 0.3140 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1255.515   | 8480435.61  | 0.6188 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2505.055   | 16085940.63 | 1.2346 | A    | 0.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 4994.418   | 32049283.70 | 2.4615 | A    | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 58177.65    | 0.0044 | P    | 1.9  |

$$y = 4.9285\text{E-}004 * x + 1.3250\text{E-}005$$

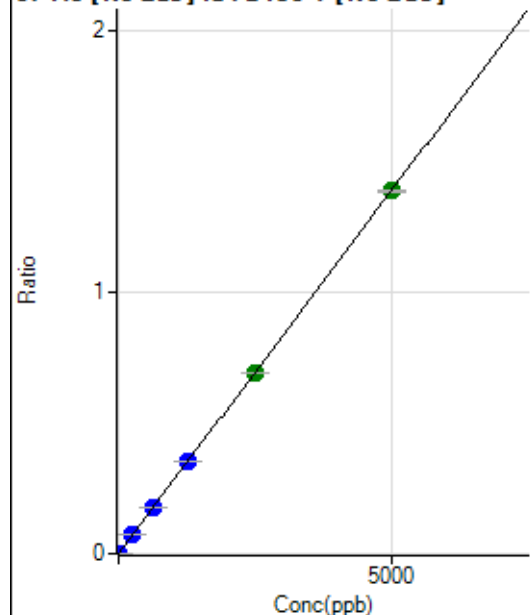
$$R = 1.0000$$

$$DL = 0.03109$$

Weight: &lt;None&gt;

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 55.56       | 0.0000 | P        | 45.8 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.946      | 21964.85    | 0.0014 | P        | 3.2  |
| 4 | <input type="checkbox"/> | 250.000  | 252.344    | 1086187.85  | 0.0700 | P        | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 633.162    | 2588376.45  | 0.1756 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1267.121   | 4815775.19  | 0.3514 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2495.874   | 9017870.17  | 0.6921 | A        | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4996.645   | 18041079.57 | 1.3856 | A        | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 28793.79    | 0.0022 | P        | 0.3  |

$$y = 2.7731\text{E-}004 * x + 3.5302\text{E-}006$$

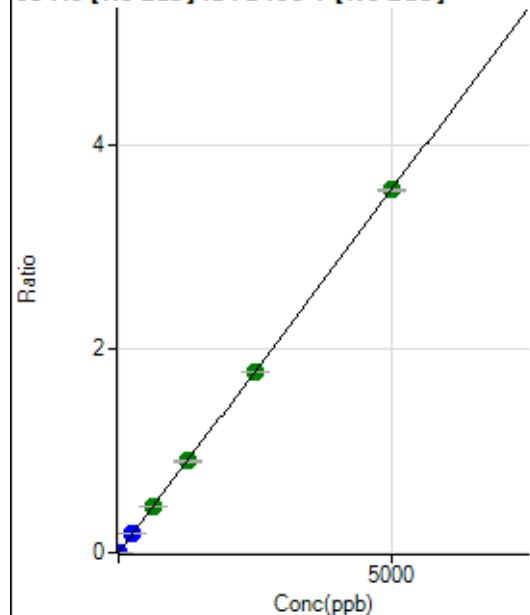
$$R = 1.0000$$

$$DL = 0.01747$$

Weight: &lt;None&gt;

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.45       | 0.0000 | P        | 6.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |          |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.938      | 56323.44    | 0.0035 | P        | 1.1 |
| 4 | <input type="checkbox"/> | 250.000  | 252.975    | 2800725.32  | 0.1804 | P        | 1.0 |
| 5 | <input type="checkbox"/> | 625.000  | 627.673    | 6599895.46  | 0.4477 | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1250.000 | 1260.754   | 12324676.84 | 0.8993 | A        | 0.5 |
| 7 | <input type="checkbox"/> | 2500.000 | 2499.419   | 23228359.20 | 1.7828 | A        | 0.1 |
| 8 | <input type="checkbox"/> | 5000.000 | 4997.119   | 46409605.55 | 3.5644 | A        | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 73068.40    | 0.0055 | P        | 0.7 |

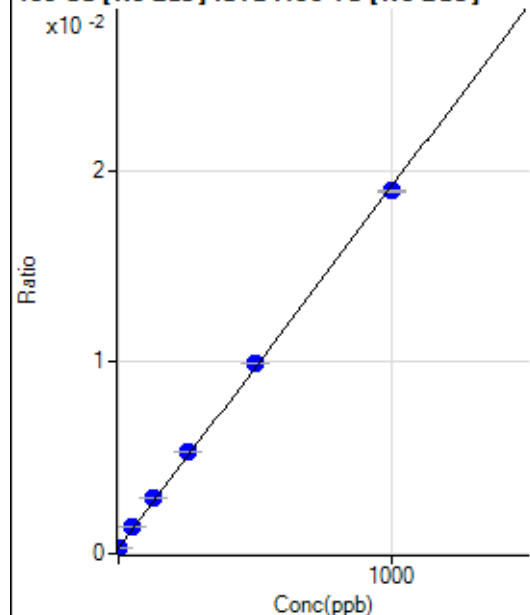
$$y = 7.1328\text{E-}004 * x + 4.4120\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.001229$$

Weight: &lt;None&gt;

Min Conc: 0

**106 Cd [No Gas] ISTD :159 Tb [No Gas]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 6340.60   | 0.0003 | P    | 5.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.728      | 7216.05   | 0.0003 | P    | 3.5 |
| 4 | <input type="checkbox"/> | 50.000   | 56.799     | 29559.59  | 0.0014 | P    | 1.5 |
| 5 | <input type="checkbox"/> | 125.000  | 138.821    | 61090.90  | 0.0029 | P    | 1.0 |
| 6 | <input type="checkbox"/> | 250.000  | 268.394    | 108606.09 | 0.0054 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 510.318    | 196857.14 | 0.0099 | P    | 0.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 988.174    | 377897.48 | 0.0189 | P    | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 5379.04   | 0.0003 | P    | 5.7 |

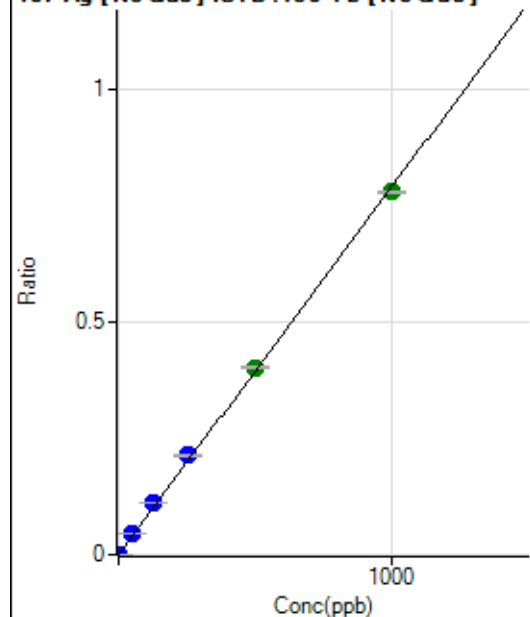
$$y = 1.8861\text{E-}005 * x + 2.9737\text{E-}004$$

$$R = 0.9997$$

$$DL = 2.351$$

Weight: &lt;None&gt;

Min Conc: 0

**107 Ag [No Gas] ISTD :159 Tb [No Gas]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 158.34      | 0.0000 | P    | 20.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.050      | 18273.49    | 0.0008 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 58.285     | 993119.10   | 0.0460 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 142.568    | 2356439.09  | 0.1125 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 269.998    | 4315832.22  | 0.2130 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 509.741    | 7977132.64  | 0.4021 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 987.520    | 15545772.22 | 0.7789 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 1808.53     | 0.0001 | P    | 5.2  |

$$y = 7.8878\text{E-}004 * x + 7.4233\text{E-}006$$

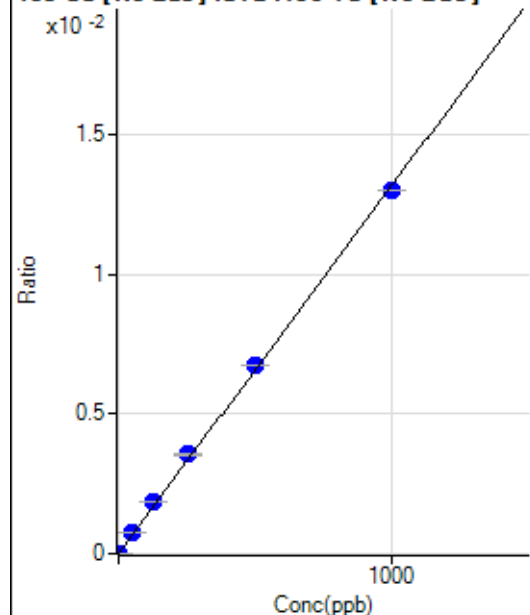
$$R = 0.9996$$

$$DL = 0.005877$$

Weight: &lt;None&gt;

Min Conc: 0

108 Cd [No Gas] ISTD :159 Tb [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22     | 0.0000 | P   | 10.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.060      | 327.79    | 0.0000 | P   | 25.5 |
| 4 | <input type="checkbox"/> | 50.000   | 56.515     | 16077.41  | 0.0007 | P   | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 141.305    | 38964.88  | 0.0019 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 269.622    | 71886.87  | 0.0035 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 512.446    | 133747.04 | 0.0067 | P   | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.508    | 258989.88 | 0.0130 | P   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 120.84    | 0.0000 | P   | 19.2 |

$$y = 1.3153\text{E-}005 * x + 1.0420\text{E-}006$$

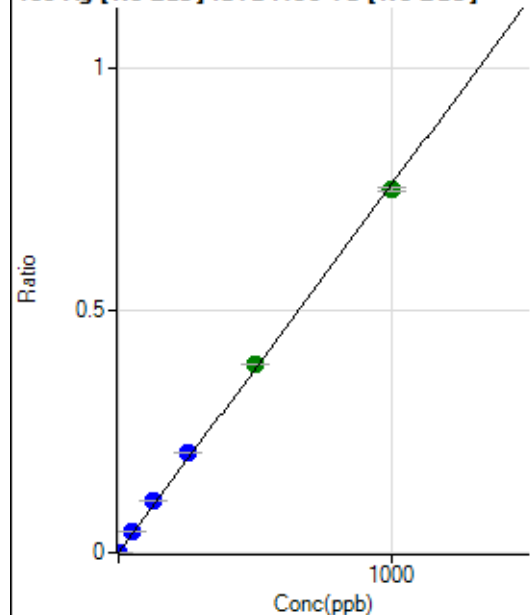
$$R = 0.9996$$

$$DL = 0.02543$$

Weight: &lt;None&gt;

Min Conc: 0

109 Ag [No Gas] ISTD :159 Tb [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72.23       | 0.0000 | P   | 37.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.052      | 17575.52    | 0.0008 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 58.015     | 953060.59   | 0.0441 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 142.293    | 2267701.27  | 0.1082 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 270.815    | 4173920.32  | 0.2060 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 512.427    | 7732272.83  | 0.3897 | A   | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.020    | 14966571.69 | 0.7499 | A   | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 1686.30     | 0.0001 | P   | 11.4 |

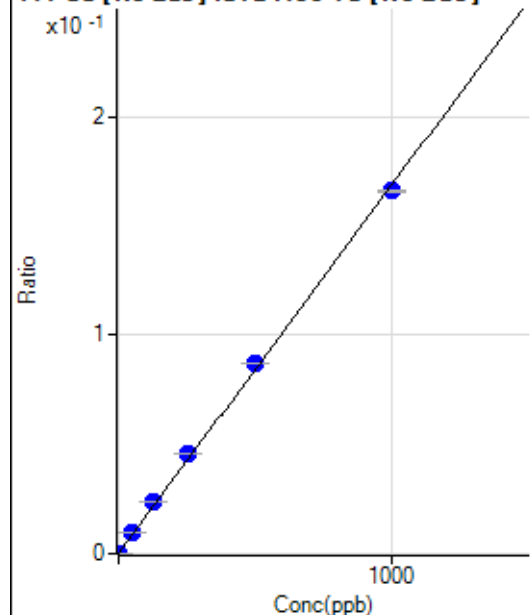
$$y = 7.6056\text{E-}004 * x + 3.3880\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.00496$$

Weight: &lt;None&gt;

Min Conc: 0

**111 Cd [No Gas] ISTD :159 Tb [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2527.63    | 0.0001 | P    | 5.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.113      | 6690.95    | 0.0003 | P    | 2.8 |
| 4 | <input type="checkbox"/> | 50.000   | 57.074     | 210093.24  | 0.0097 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 125.000  | 140.142    | 496860.80  | 0.0237 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 270.617    | 925658.75  | 0.0457 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 500.000  | 515.348    | 1723752.95 | 0.0869 | P    | 0.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 984.925    | 3311876.22 | 0.1659 | P    | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 3337.94    | 0.0002 | P    | 2.0 |

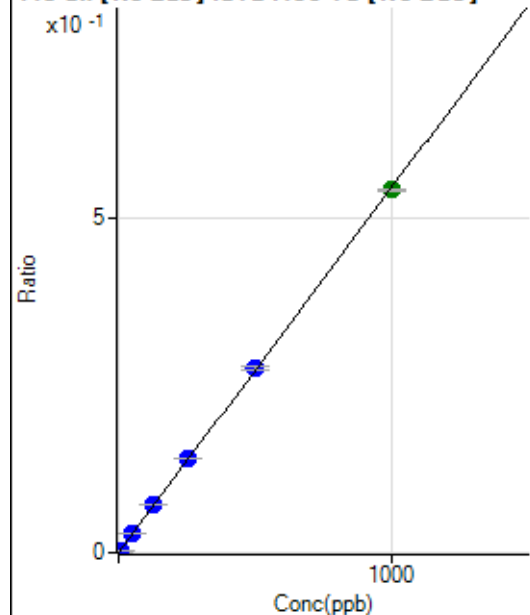
$$y = 1.6836\text{E-}004 * x + 1.1854\text{E-}004$$

$$R = 0.9995$$

$$DL = 0.1059$$

Weight: &lt;None&gt;

Min Conc: 0

**118 Sn [No Gas] ISTD :159 Tb [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 861.18      | 0.0000 | P    | 8.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 5.136      | 62107.42    | 0.0028 | P    | 0.9 |
| 4 | <input type="checkbox"/> | 50.000   | 53.577     | 631616.17   | 0.0292 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 125.000  | 133.032    | 1520252.44  | 0.0726 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 258.796    | 2859453.69  | 0.1411 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 504.653    | 5458449.17  | 0.2751 | P    | 1.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 994.291    | 10817361.35 | 0.5420 | A    | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 26873.71    | 0.0014 | P    | 1.8 |

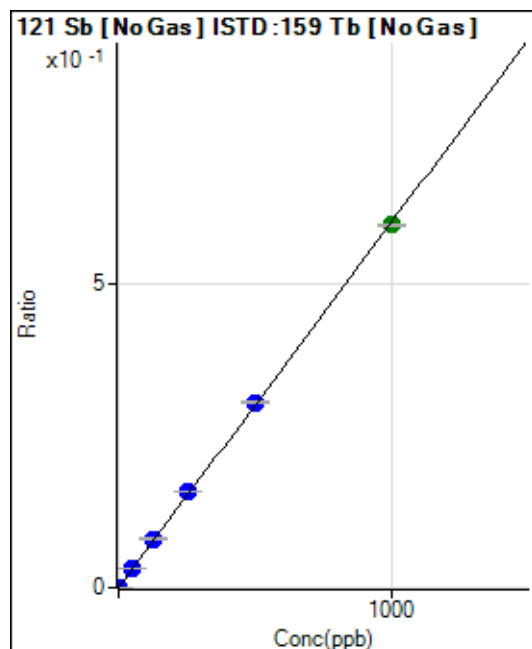
$$y = 5.4509\text{E-}004 * x + 4.0381\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01791$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11       | 0.0000 | P    | 26.8 |
| 2 | <input type="checkbox"/> | 0.200    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.948      | 25607.54    | 0.0012 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 53.856     | 698097.21   | 0.0323 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 133.964    | 1684611.97  | 0.0804 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 260.873    | 3172605.15  | 0.1566 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 506.199    | 6027134.38  | 0.3038 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.869    | 11891920.93 | 0.5959 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 15806.70    | 0.0008 | P    | 0.9  |

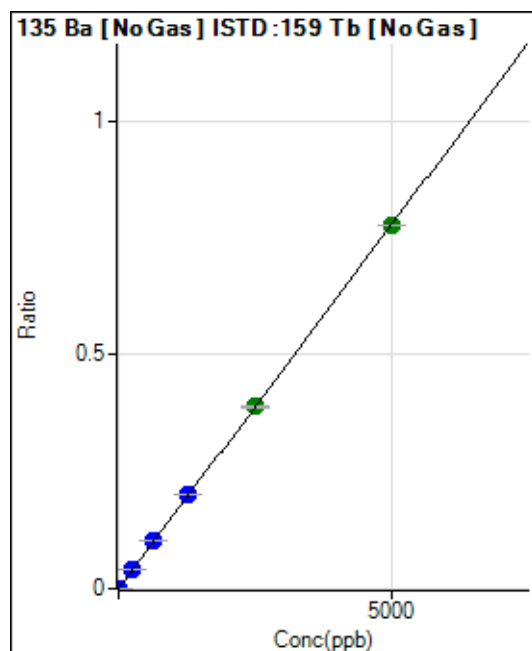
$$y = 6.0013\text{E-}004 * x + 1.6943\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.002272$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89       | 0.0000 | P    | 25.1 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 10.042     | 34220.78    | 0.0016 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 250.000  | 264.952    | 890605.12   | 0.0412 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 625.000  | 664.535    | 2167063.42  | 0.1034 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1296.782   | 4089708.38  | 0.2018 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2497.040   | 7709937.41  | 0.3886 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4984.095   | 15480798.96 | 0.7757 | A    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 2842.09     | 0.0001 | P    | 2.5  |

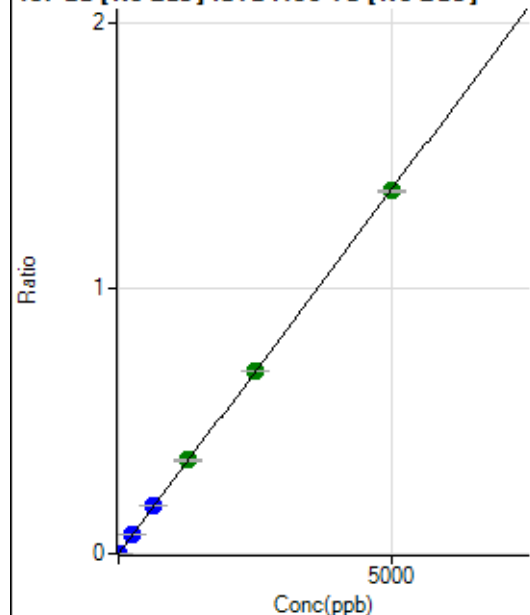
$$y = 1.5563\text{E-}004 * x + 1.8248\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.008837$$

Weight: <None>

Min Conc: 0

**137 Ba [No Gas] ISTD :159 Tb [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89       | 0.0000 | P        | 32.5 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |          |      |
| 3 | <input type="checkbox"/> | 10.000   | 10.046     | 60231.39    | 0.0028 | P        | 0.3  |
| 4 | <input type="checkbox"/> | 250.000  | 263.949    | 1561813.00  | 0.0723 | P        | 0.4  |
| 5 | <input type="checkbox"/> | 625.000  | 658.137    | 3777983.33  | 0.1803 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1281.260   | 7113132.63  | 0.3510 | A        | 0.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2510.997   | 13647972.70 | 0.6879 | A        | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4981.847   | 27238468.32 | 1.3648 | A        | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 5423.53     | 0.0003 | P        | 2.5  |

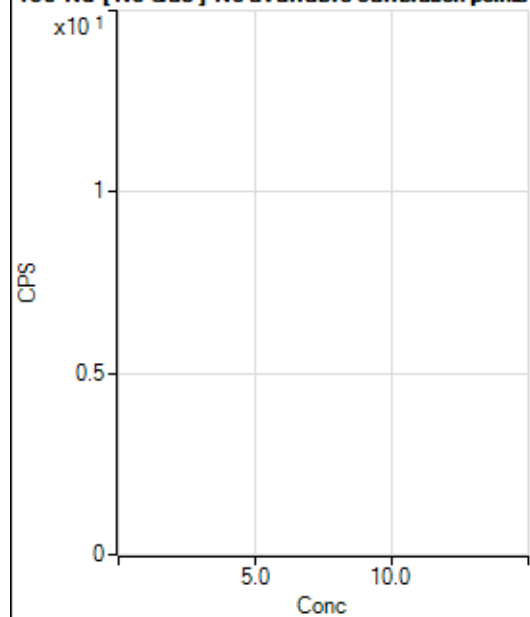
$$y = 2.7396E-004 * x + 1.8227E-006$$

$$R = 1.0000$$

$$DL = 0.006488$$

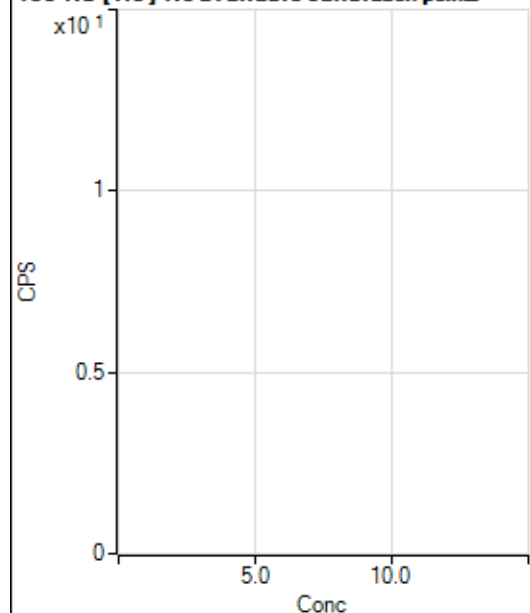
Weight: &lt;None&gt;

Min Conc: 0

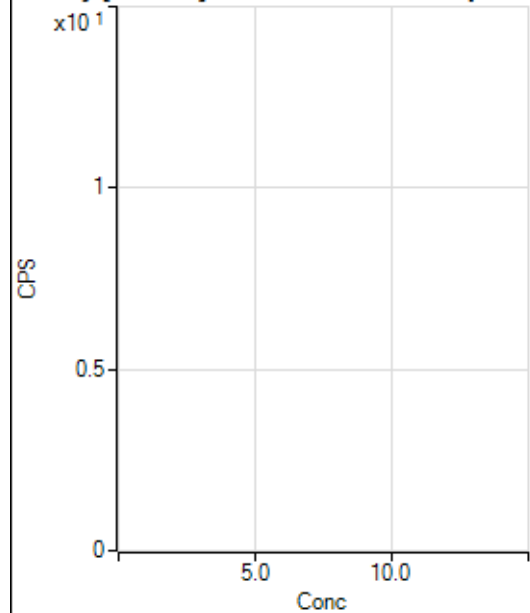
**150 Nd [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22    |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            |         |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 6.67    |       | P        | 0.0  |
| 4 | <input type="checkbox"/> |       |            | 88.89   |       | P        | 8.7  |
| 5 | <input type="checkbox"/> |       |            | 171.12  |       | P        | 15.7 |
| 6 | <input type="checkbox"/> |       |            | 353.35  |       | P        | 24.7 |
| 7 | <input type="checkbox"/> |       |            | 624.48  |       | P        | 6.5  |
| 8 | <input type="checkbox"/> |       |            | 1231.22 |       | P        | 13.4 |
| 9 | <input type="checkbox"/> |       |            | 331.13  |       | P        | 20.4 |

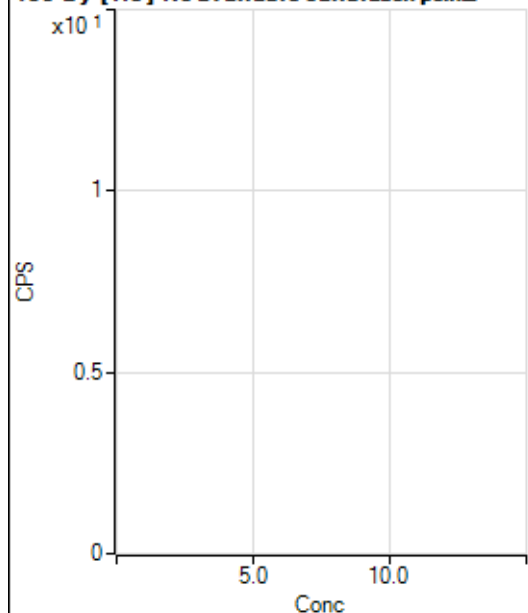


**150 Nd [He] No available calibration points**

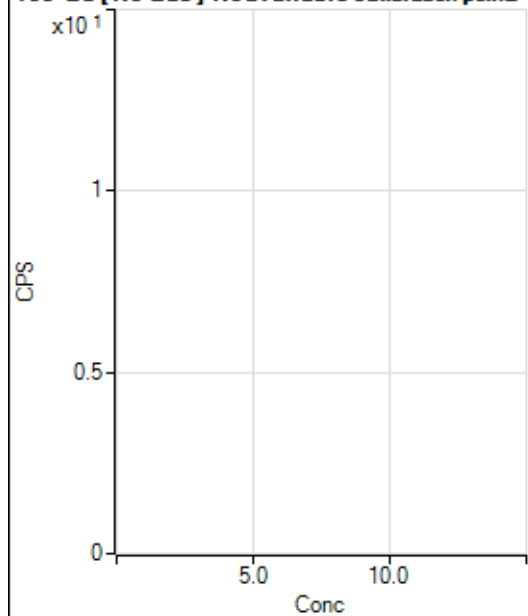
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 4 | <input type="checkbox"/> |       |            | 5.56   |       | P        | 91.6 |
| 5 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 60.6 |
| 6 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 38.6 |
| 7 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 26.6 |
| 8 | <input type="checkbox"/> |       |            | 112.23 |       | P        | 15.2 |
| 9 | <input type="checkbox"/> |       |            | 115.56 |       | P        | 16.7 |

**156 Dy [No Gas] No available calibration points**

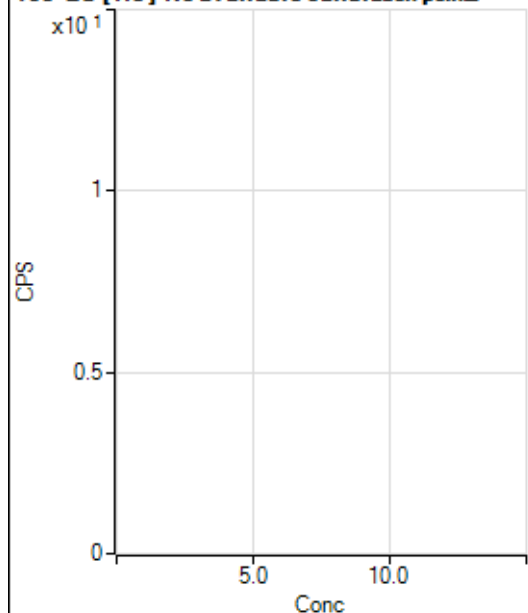
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.33   |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 13.89  |       | P        | 124. |
| 4 | <input type="checkbox"/> |       |            | 19.44  |       | P        | 49.5 |
| 5 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 20.0 |
| 6 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 37.8 |
| 7 | <input type="checkbox"/> |       |            | 177.79 |       | P        | 16.5 |
| 8 | <input type="checkbox"/> |       |            | 266.68 |       | P        | 8.3  |
| 9 | <input type="checkbox"/> |       |            | 311.13 |       | P        | 10.1 |

**156 Dy [He] No available calibration points**

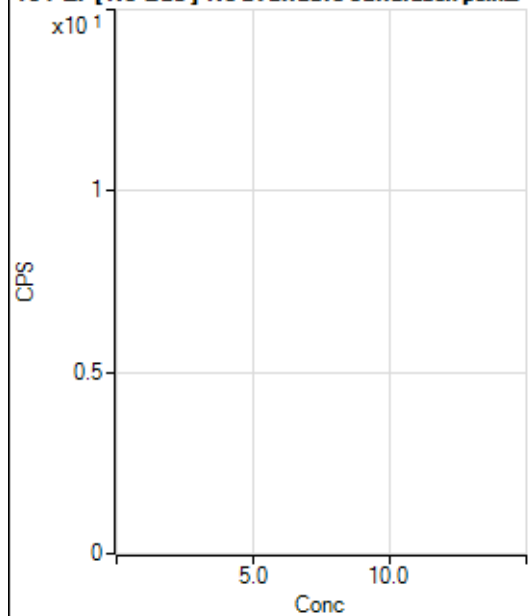
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3.33   |       | P        | 0.0  |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 6.66   |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 21.11  |       | P        | 48.2 |
| 5 | <input type="checkbox"/> |       |            | 31.11  |       | P        | 22.3 |
| 6 | <input type="checkbox"/> |       |            | 70.00  |       | P        | 16.5 |
| 7 | <input type="checkbox"/> |       |            | 112.22 |       | P        | 21.5 |
| 8 | <input type="checkbox"/> |       |            | 230.01 |       | P        | 11.5 |
| 9 | <input type="checkbox"/> |       |            | 108.89 |       | P        | 24.7 |

**160 Gd [No Gas] Noavailable calibration poin\_**

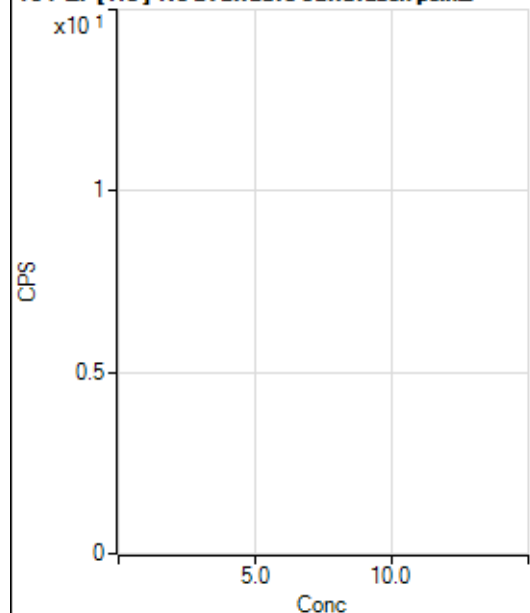
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 53.2 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 10.0 |
| 4 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 23.9 |
| 5 | <input type="checkbox"/> |       |            | 125.01 |       | P        | 20.0 |
| 6 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 3.9  |
| 7 | <input type="checkbox"/> |       |            | 136.12 |       | P        | 3.5  |
| 8 | <input type="checkbox"/> |       |            | 169.46 |       | P        | 12.4 |
| 9 | <input type="checkbox"/> |       |            | 252.79 |       | P        | 20.9 |

**160 Gd [He] No available calibration points**

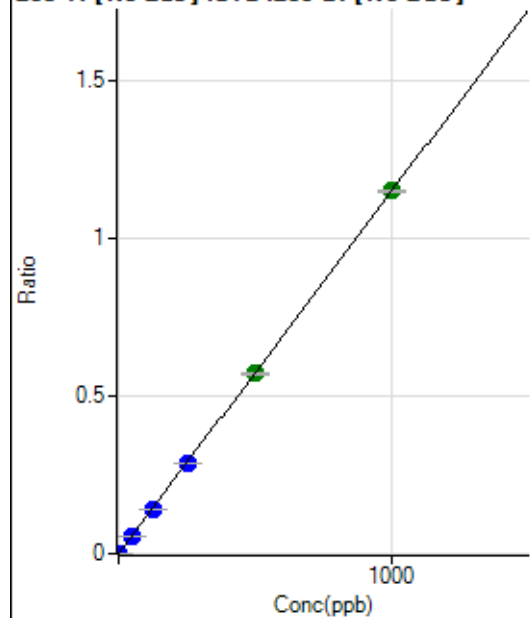
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 265.56 |       | P        | 10.5 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 267.78 |       | P        | 3.1  |
| 4 | <input type="checkbox"/> |       |            | 244.45 |       | P        | 14.6 |
| 5 | <input type="checkbox"/> |       |            | 207.78 |       | P        | 11.4 |
| 6 | <input type="checkbox"/> |       |            | 200.01 |       | P        | 4.4  |
| 7 | <input type="checkbox"/> |       |            | 216.67 |       | P        | 12.6 |
| 8 | <input type="checkbox"/> |       |            | 238.90 |       | P        | 13.0 |
| 9 | <input type="checkbox"/> |       |            | 260.00 |       | P        | 13.5 |

**164 Er [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 91.67  |       | P        | 27.3 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 69.45  |       | P        | 38.6 |
| 4 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 31.6 |
| 5 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 43.8 |
| 6 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 41.8 |
| 7 | <input type="checkbox"/> |       |            | 91.67  |       | P        | 24.1 |
| 8 | <input type="checkbox"/> |       |            | 86.12  |       | P        | 29.6 |
| 9 | <input type="checkbox"/> |       |            | 100.01 |       | P        | 41.7 |

**164 Er [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 13.9 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 30.00 |       | P        | 29.4 |
| 4 | <input type="checkbox"/> |       |            | 35.56 |       | P        | 42.3 |
| 5 | <input type="checkbox"/> |       |            | 28.89 |       | P        | 35.2 |
| 6 | <input type="checkbox"/> |       |            | 23.33 |       | P        | 37.8 |
| 7 | <input type="checkbox"/> |       |            | 35.56 |       | P        | 28.6 |
| 8 | <input type="checkbox"/> |       |            | 36.67 |       | P        | 18.2 |
| 9 | <input type="checkbox"/> |       |            | 58.89 |       | P        | 8.6  |

**203 Tl [No Gas] ISTD :209 Bi [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 127.78      | 0.0000 | P        | 46.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.871      | 15770.98    | 0.0010 | P        | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 48.787     | 856191.31   | 0.0560 | P        | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 123.683    | 2103547.38  | 0.1420 | P        | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 247.703    | 4090167.11  | 0.2845 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 498.844    | 7978570.58  | 0.5729 | A        | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.378   | 15732880.56 | 1.1500 | A        | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 16096.44    | 0.0013 | P        | 1.9  |

$$y = 0.0011 * x + 8.3630E-006$$

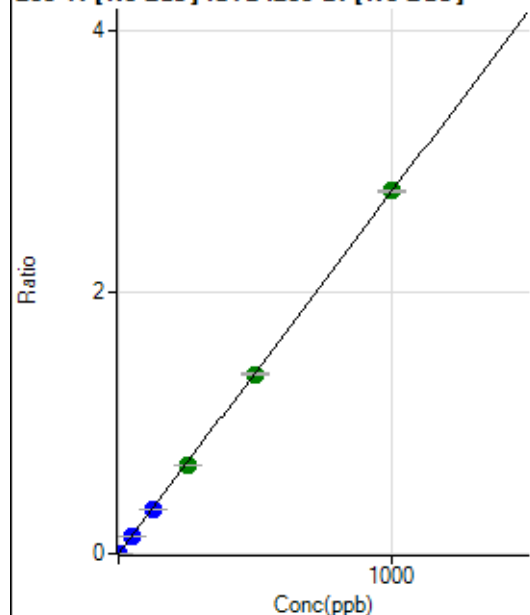
$$R = 1.0000$$

$$DL = 0.01016$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 305.57      | 0.0000 | P        | 6.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.881      | 38362.03    | 0.0025 | P        | 1.6 |
| 4 | <input type="checkbox"/> | 50.000   | 49.031     | 2070945.19  | 0.1355 | P        | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 124.668    | 5103033.45  | 0.3446 | P        | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 245.663    | 9762570.18  | 0.6790 | A        | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 496.172    | 19099615.53 | 1.3714 | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.088   | 37929970.29 | 2.7725 | A        | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 38567.83    | 0.0032 | P        | 1.2 |

$$y = 0.0028 * x + 1.9979E-005$$

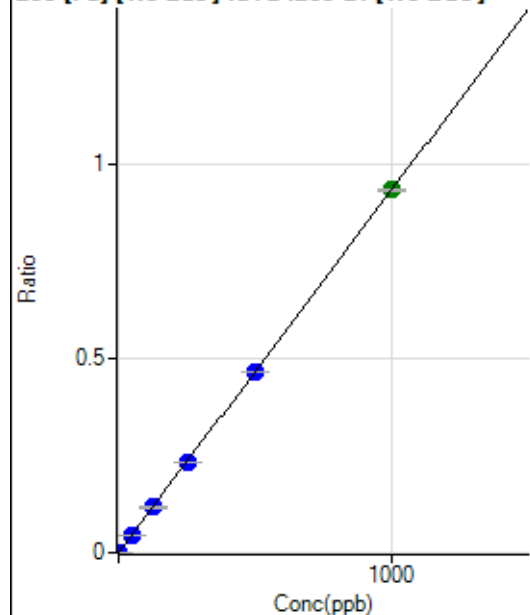
$$R = 1.0000$$

$$DL = 0.001435$$

Weight: &lt;None&gt;

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 381.50      | 0.0000 | P        | 9.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.889      | 13377.42    | 0.0009 | P        | 0.6 |
| 4 | <input type="checkbox"/> | 50.000   | 49.209     | 703378.39   | 0.0460 | P        | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 124.741    | 1727521.87  | 0.1167 | P        | 0.4 |
| 6 | <input type="checkbox"/> | 250.000  | 249.964    | 3360591.74  | 0.2337 | P        | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 498.966    | 6497777.69  | 0.4665 | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.598   | 12799236.28 | 0.9356 | A        | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 65388.48    | 0.0054 | P        | 1.1 |

$$y = 9.3497E-004 * x + 2.4944E-005$$

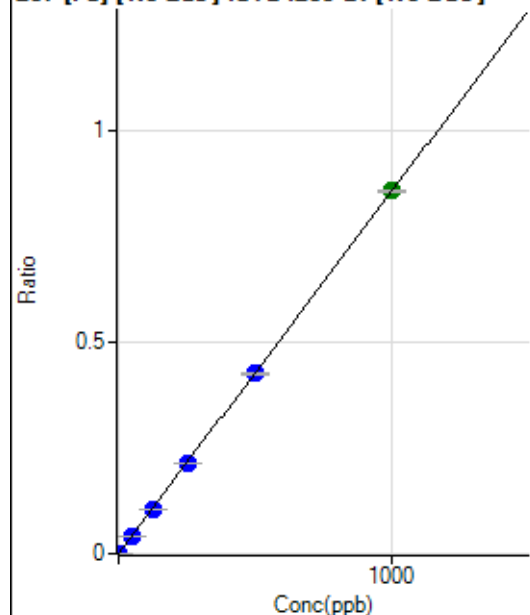
$$R = 1.0000$$

$$DL = 0.007847$$

Weight: &lt;None&gt;

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 362.98      | 0.0000 | P   | 4.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.880      | 12159.61    | 0.0008 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 50.000   | 48.687     | 637966.31   | 0.0418 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 123.503    | 1567936.25  | 0.1059 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 250.000  | 248.775    | 3066039.88  | 0.2132 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 497.341    | 5937226.12  | 0.4263 | P   | 0.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.889   | 11748269.94 | 0.8587 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 55863.60    | 0.0046 | P   | 1.4 |

$$y = 8.5709\text{E-}004 * x + 2.3734\text{E-}005$$

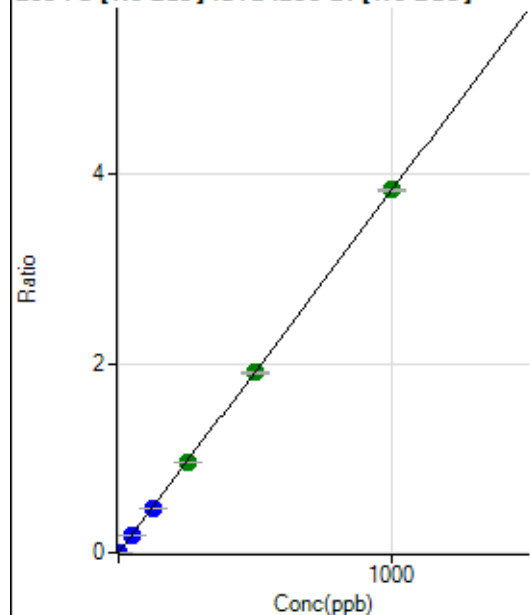
$$R = 1.0000$$

$$DL = 0.003519$$

Weight: &lt;None&gt;

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1585.27     | 0.0001 | P   | 8.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.884      | 54504.25    | 0.0035 | P   | 0.1 |
| 4 | <input type="checkbox"/> | 50.000   | 48.983     | 2866511.43  | 0.1876 | P   | 0.0 |
| 5 | <input type="checkbox"/> | 125.000  | 124.566    | 7062767.20  | 0.4769 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 248.170    | 13659924.44 | 0.9501 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 496.983    | 26496942.78 | 1.9025 | A   | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.071   | 52479146.43 | 3.8359 | A   | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 258132.95   | 0.0213 | P   | 0.5 |

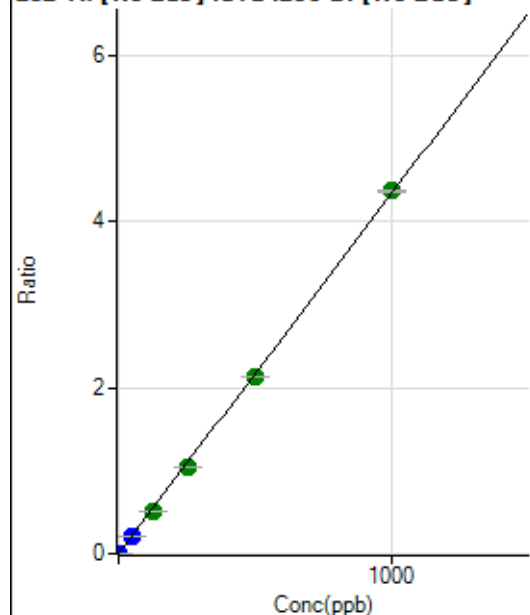
$$y = 0.0038 * x + 1.0365\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.006956$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>232</sup>Th [No Gas] ISTD :<sup>209</sup>Bi [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 116.67      | 0.0000 | P   | 12.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.815      | 55404.16    | 0.0035 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 50.000   | 46.551     | 3087536.50  | 0.2021 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 117.022    | 7522261.22  | 0.5080 | A   | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 240.920    | 15035631.47 | 1.0457 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 491.837    | 29733671.03 | 2.1349 | A   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1007.521   | 59829037.45 | 4.3733 | A   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 10005.95    | 0.0008 | P   | 4.0  |

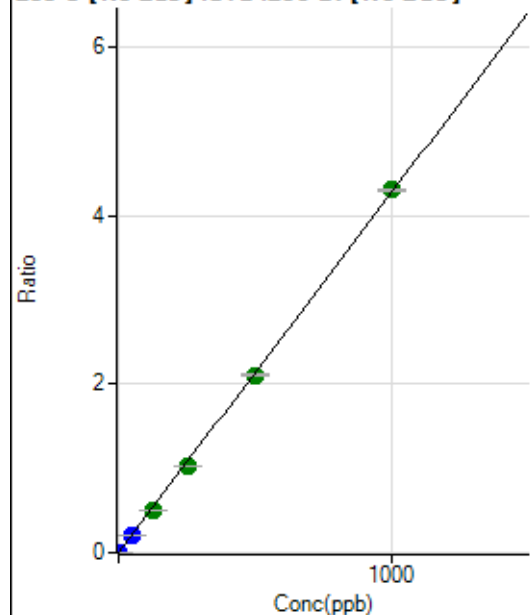
$$y = 0.0043 * x + 7.6300E-006$$

$$R = 0.9999$$

$$DL = 0.0006732$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>238</sup>U [No Gas] ISTD :<sup>209</sup>Bi [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89       | 0.0000 | P   | 12.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.825      | 55173.50    | 0.0035 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 50.000   | 46.661     | 3047825.15  | 0.1995 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 116.994    | 7406381.07  | 0.5001 | A   | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 240.272    | 14767645.99 | 1.0271 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 492.460    | 29319894.41 | 2.1052 | A   | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 1007.370   | 58913099.24 | 4.3063 | A   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 6235.11     | 0.0005 | P   | 4.9  |

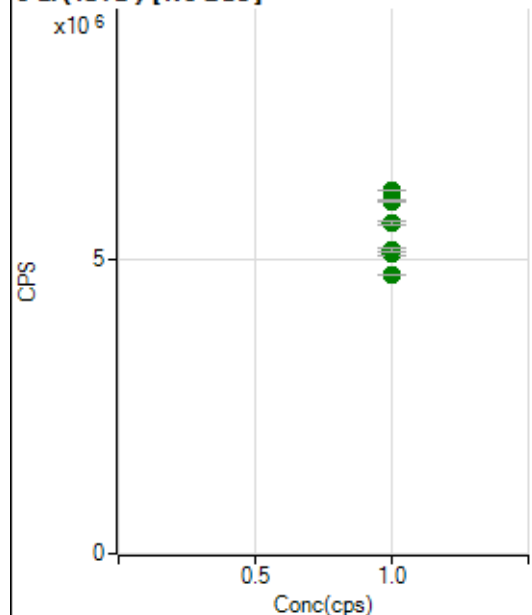
$$y = 0.0043 * x + 2.5427E-006$$

$$R = 0.9999$$

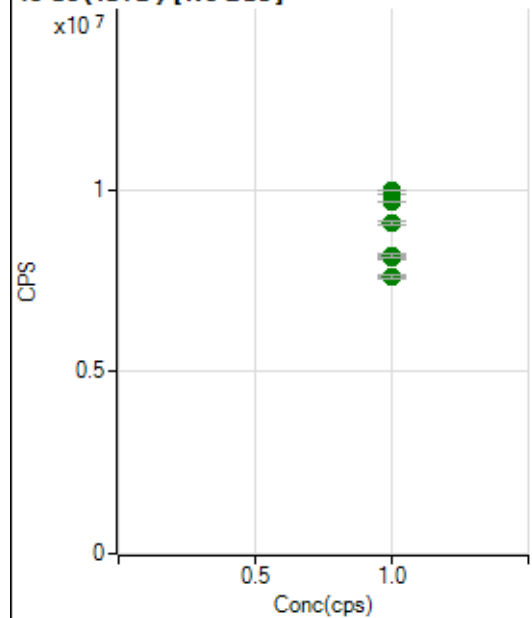
$$DL = 0.0002188$$

Weight: &lt;None&gt;

Min Conc: 0

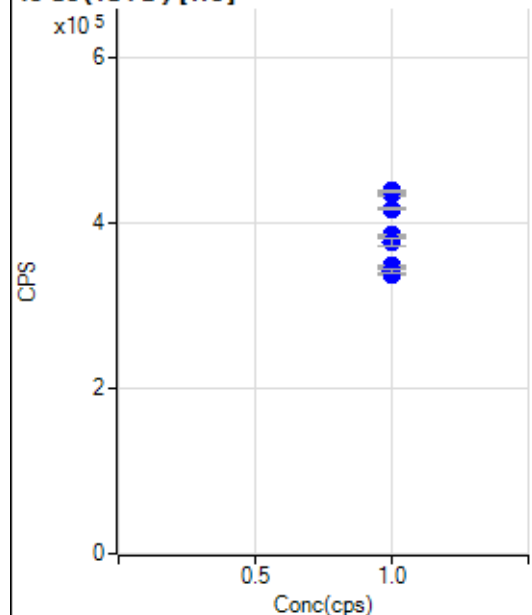
**6 Li (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6020699.63 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 6178010.18 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6001197.62 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5624643.67 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5099389.64 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4759457.71 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4751643.47 |       | A        | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5164783.95 |       | A        | 1.4 |

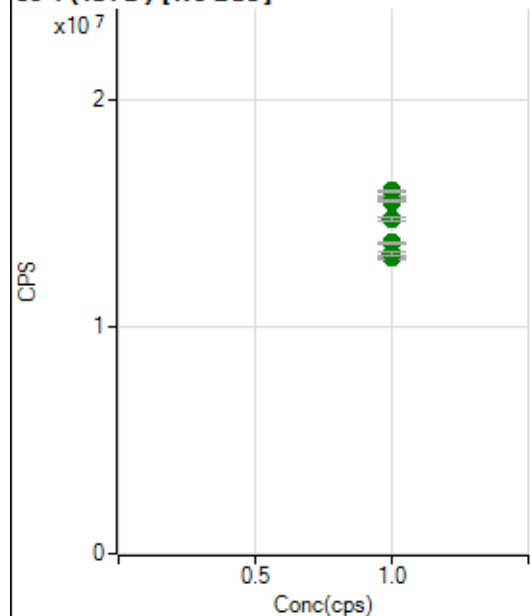
**45 Sc (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9864948.83 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 9969196.49 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9672328.95 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9088864.27 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8153879.17 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7626773.00 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7607926.21 |       | A        | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8200346.62 |       | A        | 1.4 |

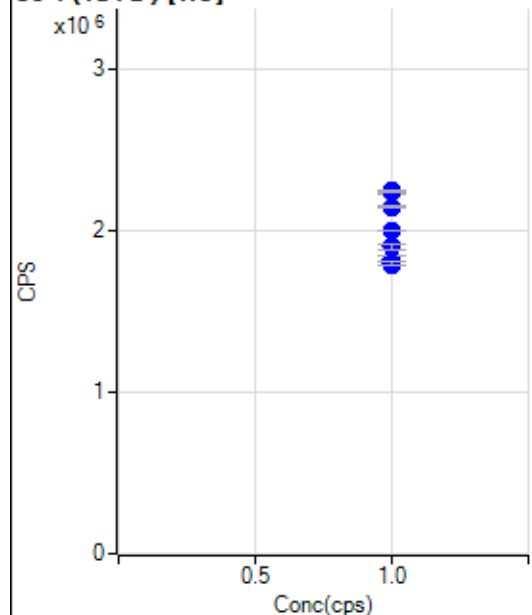


**45 Sc (ISTD) [He]**

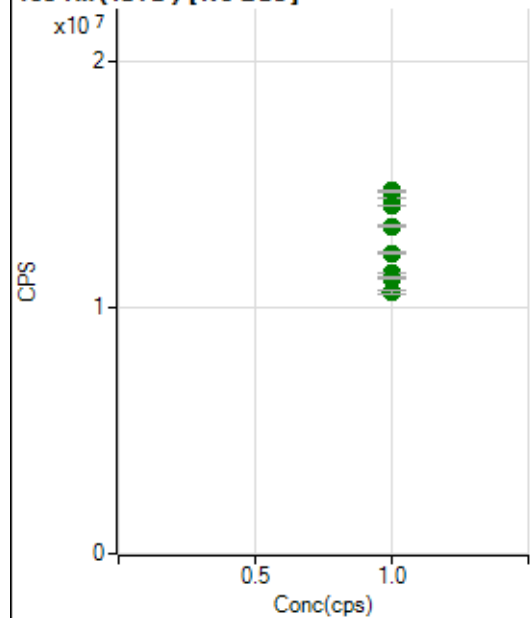
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 434486.86 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 439367.50 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 418008.72 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 385963.51 |       | P        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 348329.51 |       | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 337751.91 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 342613.05 |       | P        | 1.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 376922.89 |       | P        | 2.2 |

**89 Y (ISTD) [No Gas]**

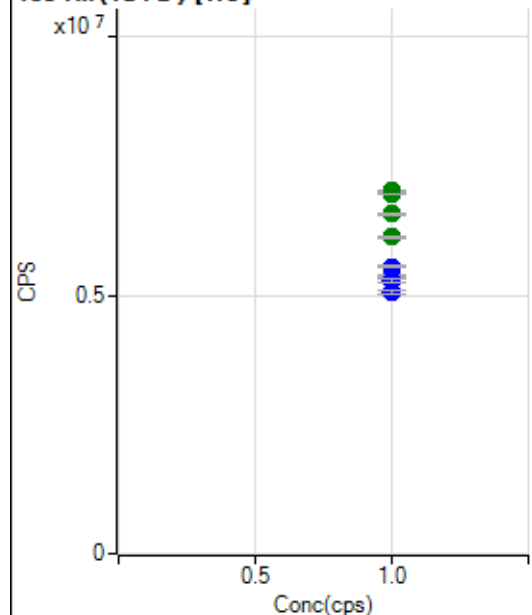
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15738610.74 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 15973309.21 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15521391.71 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14741857.14 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13704946.88 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13029126.47 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13020263.42 |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13226237.72 |       | A        | 1.4 |

**89 Y (ISTD) [He]**

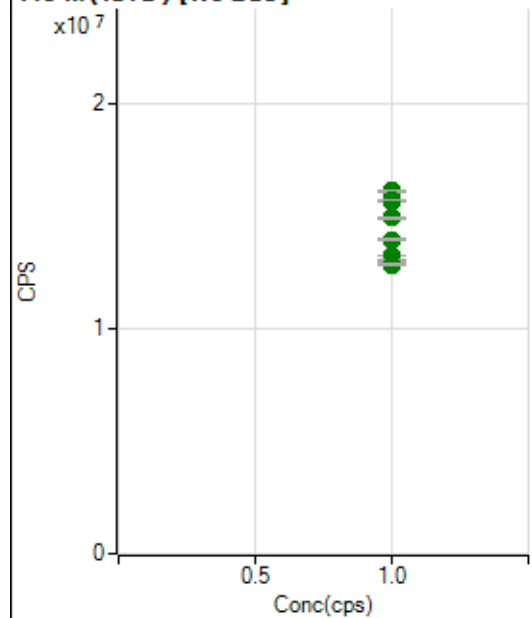
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2239365.87 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2249073.11 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2151676.11 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2003302.62 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1828691.95 |       | P        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1784610.30 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1796806.39 |       | P        | 1.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1902848.70 |       | P        | 1.4 |

**103 Rh (ISTD) [No Gas]**

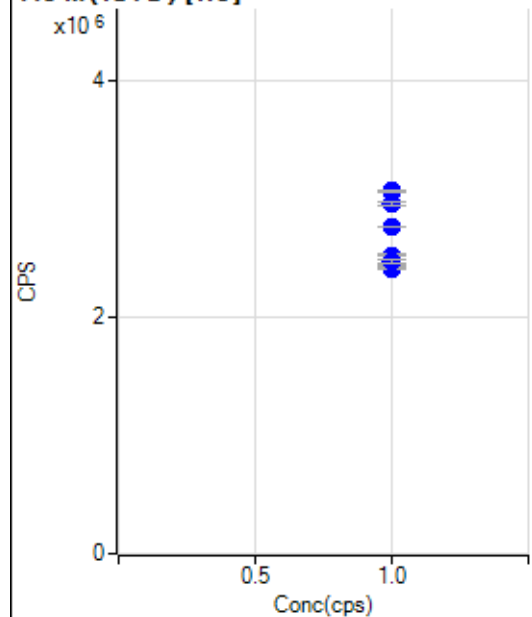
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14437844.59 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 14748829.15 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14145682.09 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13327165.23 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12232563.12 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11444117.79 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11198142.79 |       | A        | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 10643274.63 |       | A        | 1.1 |

**103 Rh (ISTD) [He]**

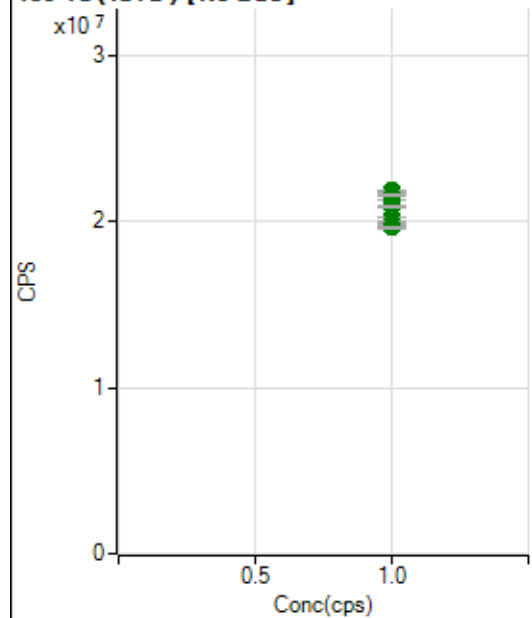
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7021180.24 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 6963140.17 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6578195.87 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6127875.95 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5563530.05 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5369699.01 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5284345.44 |       | P        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5064576.66 |       | P        | 1.8 |

**115 In (ISTD) [No Gas]**

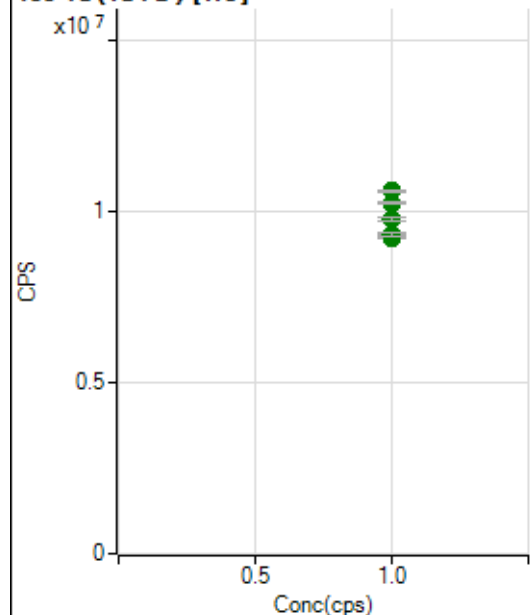
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15700184.79 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 16148492.42 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15738462.45 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14963012.58 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13976997.95 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13297528.36 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13062563.12 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 12881175.69 |       | A        | 0.6 |

**115 In (ISTD) [He]**

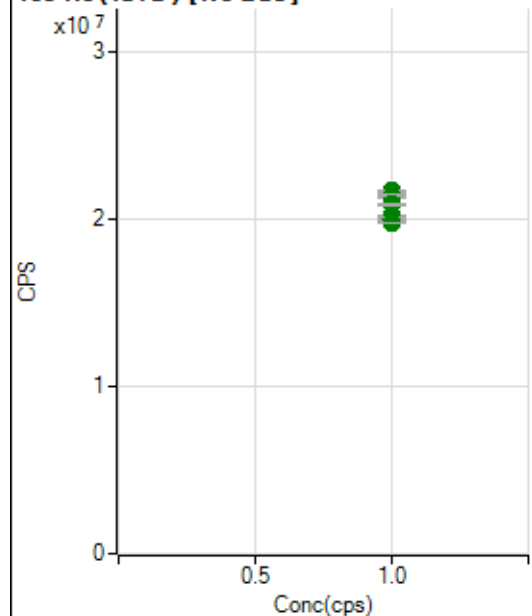
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3063873.29 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3067745.48 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2959197.06 |       | P        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2765893.06 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2527803.03 |       | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2439507.62 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2414198.65 |       | P        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2470974.50 |       | P        | 1.5 |

**159 Tb (ISTD) [No Gas]**

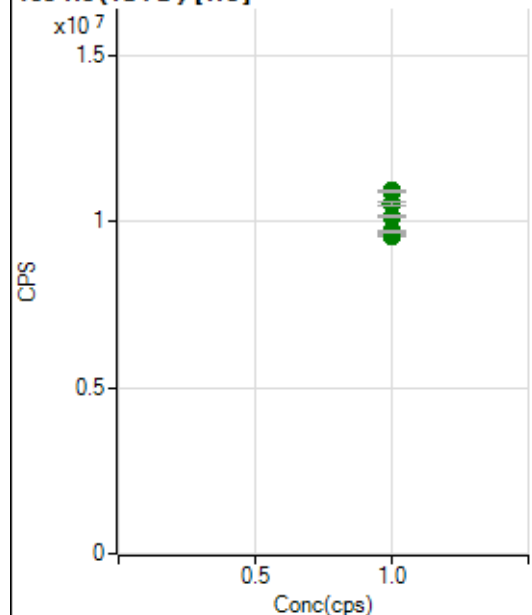
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 21322655.24 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 21871138.28 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 21598101.90 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 20953829.27 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 20264422.34 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 19839900.54 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 19957969.84 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 19681110.68 |       | A        | 0.6 |

**159 Tb (ISTD) [He]**

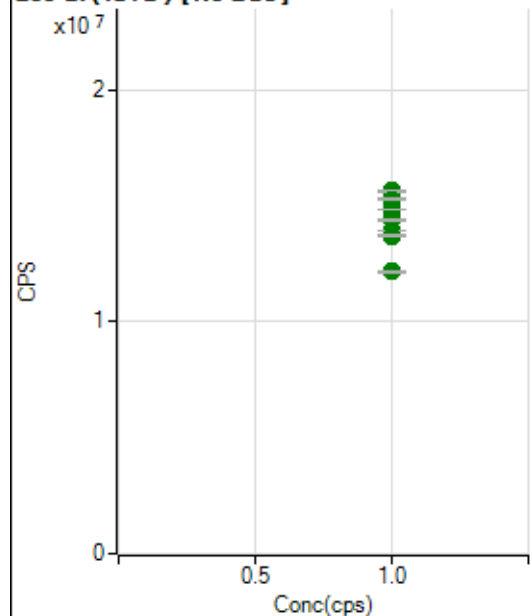
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10615151.51 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 10613049.91 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10262420.54 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9784486.17  |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9332096.81  |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9248064.59  |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9306108.26  |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9340849.31  |       | A        | 0.9 |

**165 Ho (ISTD) [No Gas]**

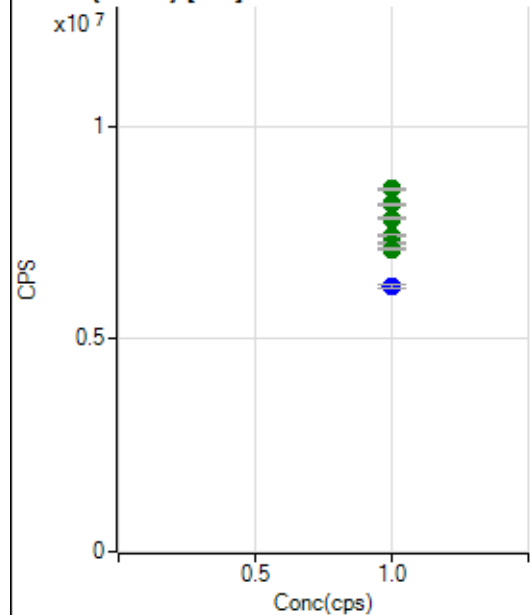
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 21293297.18 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 21655573.05 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 21401018.19 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 20842515.40 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 20182978.06 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 19911260.34 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 19985505.31 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 19750385.51 |       | A        | 0.1 |

**165 Ho (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10915071.92 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 10930608.31 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10535796.37 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10140450.40 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9641547.01  |       | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9564298.54  |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9667395.83  |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9713305.76  |       | A        | 0.8 |

**209 Bi (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15292851.02 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 15632436.02 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15279556.03 |       | A        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14808933.95 |       | A        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14378210.20 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13927556.32 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13681069.94 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 12139228.01 |       | A        | 0.1 |

**209 Bi (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8533533.27 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 8529826.54 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8185473.98 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7839607.10 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7434126.28 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7252200.59 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7109191.84 |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 6232853.66 |       | P        | 1.1 |

US EPA Tune Check Sample Report

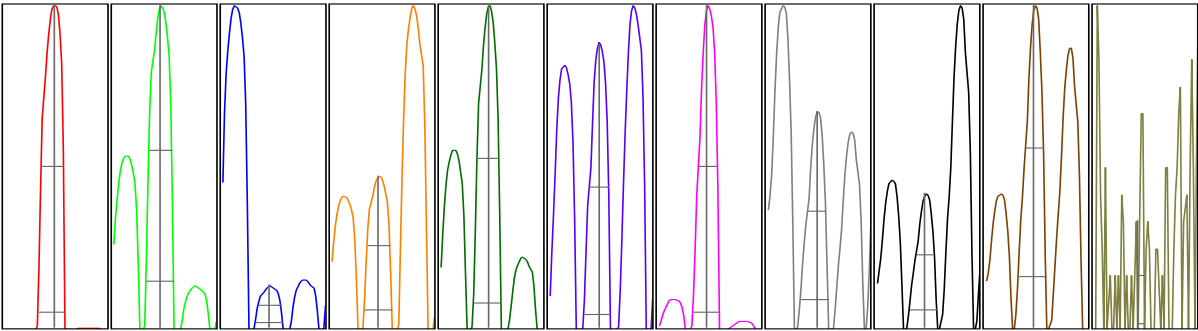
Batch Folder D:\ICP-MS Data\P7120518-MS.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 16869           | 1.26             | 5.00               |                |
| 24   | 140473          | 1.44             | 5.00               |                |
| 25   | 18774           | 1.44             | 5.00               |                |
| 26   | 22143           | 1.37             | 5.00               |                |
| 59   | 118585          | 1.63             | 5.00               |                |
| 113  | 16423           | 1.79             | 5.00               |                |
| 115  | 198662          | 1.82             | 5.00               |                |
| 206  | 55093           | 1.56             | 5.00               |                |
| 207  | 52984           | 1.56             | 5.00               |                |
| 208  | 119780          | 1.67             | 5.00               |                |
| 220  | 0               | 0.00             |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 16572                | 17163                | 16889                | 16905                | 16814                |
| 24   | 137381               | 142962               | 141143               | 140610               | 140269               |
| 25   | 18455                | 19197                | 18789                | 18745                | 18683                |
| 26   | 21746                | 22590                | 22180                | 22135                | 22062                |
| 59   | 115624               | 120961               | 119265               | 118792               | 118283               |
| 113  | 16047                | 16834                | 16491                | 16481                | 16261                |
| 115  | 194731               | 204398               | 199448               | 197710               | 197022               |
| 206  | 53782                | 56171                | 55153                | 55028                | 55330                |
| 207  | 51748                | 54043                | 53123                | 52817                | 53186                |
| 208  | 116665               | 122042               | 120135               | 119326               | 120730               |
| 220  | 0                    | 0                    | 0                    | 0                    | 0                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 27575          | 9.00             | 8.9 - 9.1          |                | 0.783                | 0.900                  |                        |
| 24   | 223251         | 23.90            | 23.9 - 24.1        |                | 0.798                | 0.900                  |                        |
| 25   | 29722          | 24.90            | 24.9 - 25.1        |                | 0.794                | 0.900                  |                        |
| 26   | 34055          | 25.90            | 25.9 - 26.1        |                | 0.802                | 0.900                  |                        |
| 59   | 199115         | 58.95            | 58.9 - 59.1        |                | 0.802                | 0.900                  |                        |
| 113  | 29713          | 113.00           | 112.9 - 113.1      |                | 0.771                | 0.900                  |                        |
| 115  | 363447         | 114.95           | 114.9 - 115.1      |                | 0.771                | 0.900                  |                        |
| 206  | 98322          | 206.00           | 205.9 - 206.1      |                | 0.803                | 0.900                  |                        |
| 207  | 89478          | 206.95           | 206.9 - 207.1      |                | 0.801                | 0.900                  |                        |
| 208  | 214377         | 207.95           | 207.9 - 208.1      |                | 0.800                | 0.900                  |                        |
| 220  | 0              | 219.80           | -                  |                | 0.196                |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 6.1   | V    | Deflect       | 14.0  | V    |
| Extract 2     | -120.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -65    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 170   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 29504           | 1.48             |                    |
| 89   | 38587           | 1.66             |                    |
| 205  | 45411           | 0.99             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 30203                | 29374                | 29406                | 29524                | 29012                |
| 89   | 39603                | 38658                | 38420                | 38404                | 37849                |
| 205  | 46104                | 45153                | 45548                | 45324                | 44927                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 6.7   | V    | Deflect       | 1.2   | V    |
| Extract 2     | -105.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 4.1   | mL/min | OctP RF       | 200   | V    |                       |       |       |