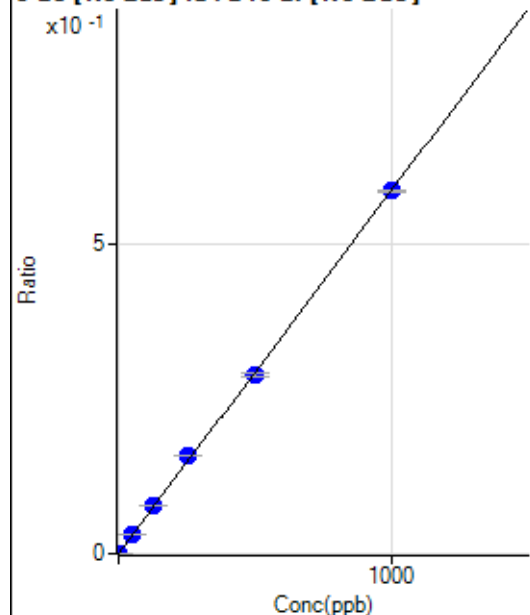


Batch Folder: D:\ICP-MS Data\P7122019MS.b\  
Analysis File: P7122019MS.batch.bin  
DA Date-Time: 2019-12-21 00:54:39  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2019-12-20 12:25:51 |
| 2     | 004CALS.d          | S02         | 2019-12-20 12:29:31 |
| 3     | 005CALS.d          | S03         | 2019-12-20 12:34:19 |
| 4     | 006CALS.d          | S04         | 2019-12-20 12:38:27 |
| 5     | 007CALS.d          | S05         | 2019-12-20 12:42:20 |
| 6     | 008CALS.d          | S06         | 2019-12-20 12:46:10 |
| 7     | 009CALS.d          | S07         | 2019-12-20 12:49:59 |
| 8     | 010CALS.d          | S08         | 2019-12-20 12:53:49 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 74.08      | 0.0000 | P   | 22.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.075      | 3193.01    | 0.0006 | P   | 3.6  |
| 3 | <input type="checkbox"/> | 50.000   | 54.302     | 162429.90  | 0.0319 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 132.875    | 379033.52  | 0.0782 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 268.508    | 718434.11  | 0.1579 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 490.643    | 1321782.90 | 0.2886 | P   | 2.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.852    | 2621632.84 | 0.5874 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 2972.60    | 0.0007 | P   | 1.8  |

$$y = 5.8808\text{E-}004 * x + 1.4722\text{E-}005$$

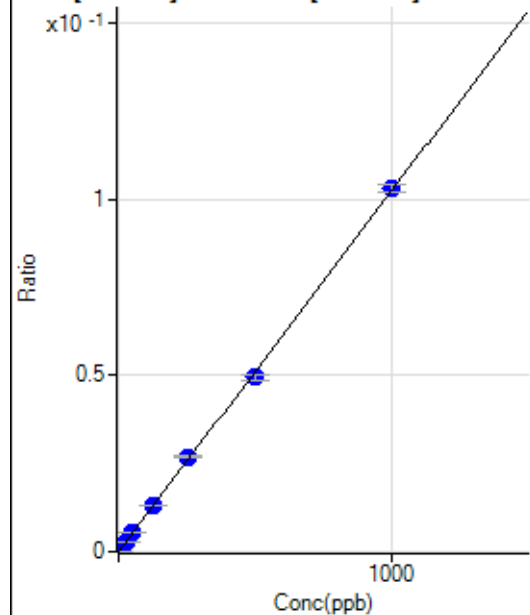
$$R = 0.9997$$

$$DL = 0.01672$$

$$BEC = 0.02503$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 394.47    | 0.0001 | P   | 4.3  |
| 2 | <input type="checkbox"/> | 25.000   | 24.665     | 12861.57  | 0.0026 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 50.000   | 53.015     | 28012.86  | 0.0055 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 127.985    | 63958.38  | 0.0132 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 262.917    | 122885.64 | 0.0270 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 481.904    | 226461.71 | 0.0494 | P   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.303   | 459923.89 | 0.1031 | P   | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 10826.54  | 0.0024 | P   | 12.3 |

$$y = 1.0243\text{E-}004 * x + 7.9265\text{E-}005$$

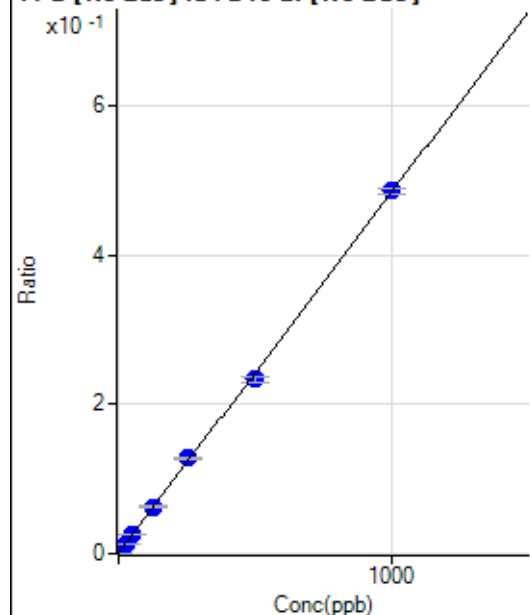
$$R = 0.9997$$

$$DL = 0.0998$$

$$BEC = 0.7738$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2183.59    | 0.0004 | P    | 2.9 |
| 2 | <input type="checkbox"/> | 25.000   | 24.601     | 60948.35   | 0.0124 | P    | 2.1 |
| 3 | <input type="checkbox"/> | 50.000   | 52.033     | 130313.70  | 0.0256 | P    | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 129.502    | 306177.48  | 0.0631 | P    | 1.3 |
| 5 | <input type="checkbox"/> | 250.000  | 263.055    | 581409.71  | 0.1278 | P    | 0.7 |
| 6 | <input type="checkbox"/> | 500.000  | 483.193    | 1073528.05 | 0.2344 | P    | 3.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.485   | 2172466.54 | 0.4868 | P    | 1.6 |
| 8 | <input type="checkbox"/> |          |            | 50340.68   | 0.0114 | P    | 8.3 |

$$y = 4.8416\text{E-}004 * x + 4.3964\text{E-}004$$

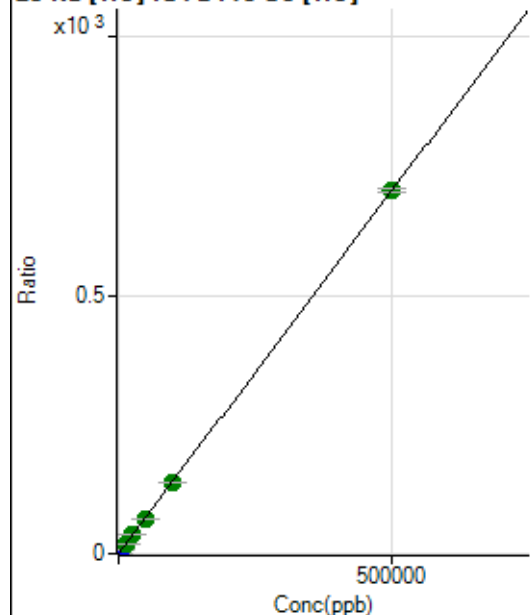
$$R = 0.9997$$

$$DL = 0.07995$$

$$BEC = 0.908$$

Weight: &lt;None&gt;

Min Conc: 0

**23 Na [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      | 15964.60    | 0.0348   | P    | 5.3 |
| 2 | <input type="checkbox"/> | 500.000   | 469.766    | 337644.65   | 0.6938   | P    | 1.0 |
| 3 | <input type="checkbox"/> | 5000.000  | 5038.127   | 3380120.87  | 7.1014   | P    | 0.8 |
| 4 | <input type="checkbox"/> | 12500.000 | 12639.957  | 7836136.46  | 17.7639  | A    | 0.7 |
| 5 | <input type="checkbox"/> | 25000.000 | 25926.749  | 15284901.56 | 36.4003  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 48622.155  | 28914744.74 | 68.2334  | A    | 0.3 |
| 7 | <input type="checkbox"/> | 100000.00 | 98915.325  | 59257327.02 | 138.7758 | A    | 0.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 500304.53  | 308191559.6 | 701.7735 | A    | 1.0 |

$$y = 0.0014 * x + 0.0348$$

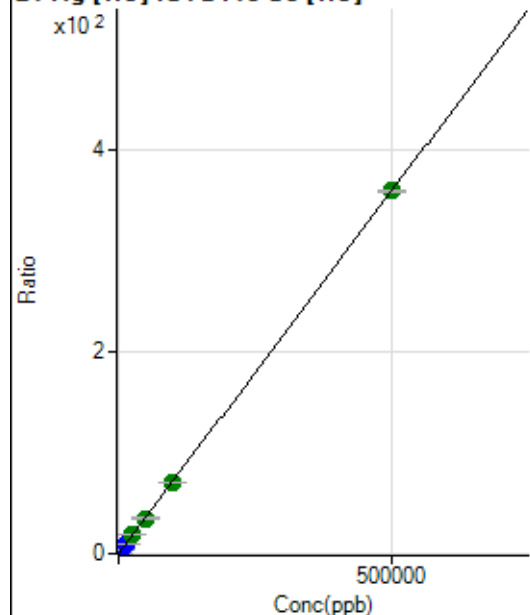
$$R = 1.0000$$

$$DL = 3.919$$

$$BEC = 24.84$$

Weight: &lt;None&gt;

Min Conc: 0

**24 Mg [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 225.01      | 0.0005   | P   | 27.4 |
| 2 | <input type="checkbox"/> | 500.000   | 491.163    | 172214.95   | 0.3538   | P   | 2.1  |
| 3 | <input type="checkbox"/> | 5000.000  | 5144.447   | 1761752.75  | 3.7014   | P   | 0.6  |
| 4 | <input type="checkbox"/> | 12500.000 | 12802.913  | 4063131.30  | 9.2108   | P   | 0.4  |
| 5 | <input type="checkbox"/> | 25000.000 | 26096.788  | 7883542.01  | 18.7743  | A   | 0.6  |
| 6 | <input type="checkbox"/> | 50000.000 | 49019.096  | 14943814.74 | 35.2644  | A   | 0.3  |
| 7 | <input type="checkbox"/> | 100000.00 | 98958.450  | 30398059.71 | 71.1903  | A   | 0.5  |
| 8 | <input type="checkbox"/> | 500000.00 | 500242.55  | 158034364.6 | 359.8704 | A   | 0.4  |

$$y = 7.1939\text{E-}004 * x + 4.9186\text{E-}004$$

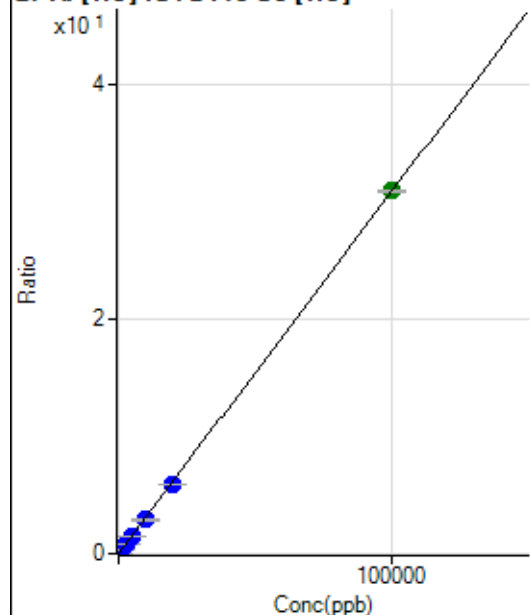
$$R = 1.0000$$

$$DL = 0.5623$$

$$BEC = 0.6837$$

Weight: &lt;None&gt;

Min Conc: 0

**27 Al [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 163.90      | 0.0004  | P   | 29.8 |
| 2 | <input type="checkbox"/> | 20.000    | 17.486     | 2794.82     | 0.0057  | P   | 3.8  |
| 3 | <input type="checkbox"/> | 1000.000  | 987.350    | 144887.80   | 0.3044  | P   | 1.2  |
| 4 | <input type="checkbox"/> | 2500.000  | 2461.541   | 334533.19   | 0.7584  | P   | 1.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 4989.211   | 645273.85   | 1.5367  | P   | 1.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 9318.023   | 1216100.21  | 2.8698  | P   | 0.4  |
| 7 | <input type="checkbox"/> | 20000.000 | 18977.427  | 2495536.56  | 5.8443  | P   | 0.2  |
| 8 | <input type="checkbox"/> | 100000.00 | 100274.34  | 13560355.51 | 30.8791 | A   | 0.3  |

$$y = 3.0794\text{E-}004 * x + 3.5677\text{E-}004$$

$$R = 0.9999$$

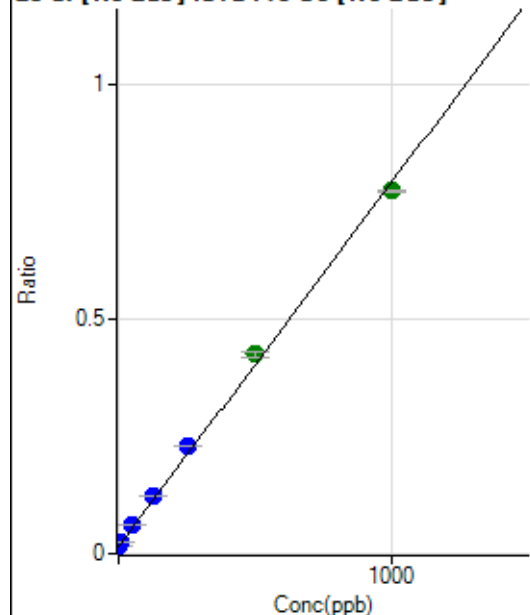
$$DL = 1.034$$

$$BEC = 1.159$$

Weight: &lt;None&gt;

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      | 185550.69  | 0.0155 | P   | 11.7 |
| 2 | <input type="checkbox"/> | 10.000   | 10.179     | 279558.92  | 0.0234 | P   | 3.6  |
| 3 | <input type="checkbox"/> | 50.000   | 57.378     | 746314.43  | 0.0600 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 138.381    | 1459440.35 | 0.1228 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 276.845    | 2547600.42 | 0.2302 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 528.517    | 4791716.51 | 0.4255 | A   | 3.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 976.987    | 8517670.24 | 0.7734 | A   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 988460.67  | 0.0898 | P   | 2.7  |

$$y = 7.7574\text{E-}004 * x + 0.0155$$

$$R = 0.9989$$

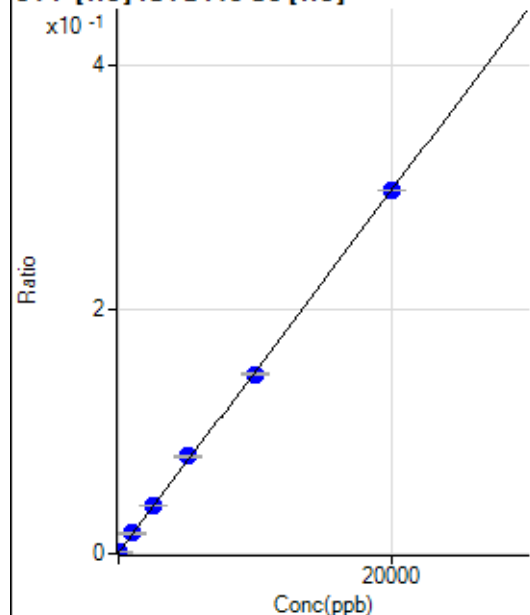
$$DL = 7.004$$

$$BEC = 19.93$$

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     | -29.664    | 130.56    | 0.0003 | P   | 10.4 |
| 2 | <input type="checkbox"/> | 0.000     | 29.664     | 566.70    | 0.0012 | P   | 12.7 |
| 3 | <input type="checkbox"/> | 1000.000  | 1075.491   | 7932.97   | 0.0167 | P   | 5.6  |
| 4 | <input type="checkbox"/> | 2500.000  | 2595.613   | 17293.96  | 0.0392 | P   | 2.3  |
| 5 | <input type="checkbox"/> | 5000.000  | 5313.225   | 33380.14  | 0.0795 | P   | 1.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 9870.994   | 62325.56  | 0.1471 | P   | 1.8  |
| 7 | <input type="checkbox"/> | 20000.000 | 19970.471  | 126734.63 | 0.2968 | P   | 0.2  |
| 8 | <input type="checkbox"/> |           |            | 241.68    | 0.0006 | P   | 5.9  |

$$y = 1.4826\text{E-}005 * x + 7.2396\text{E-}004$$

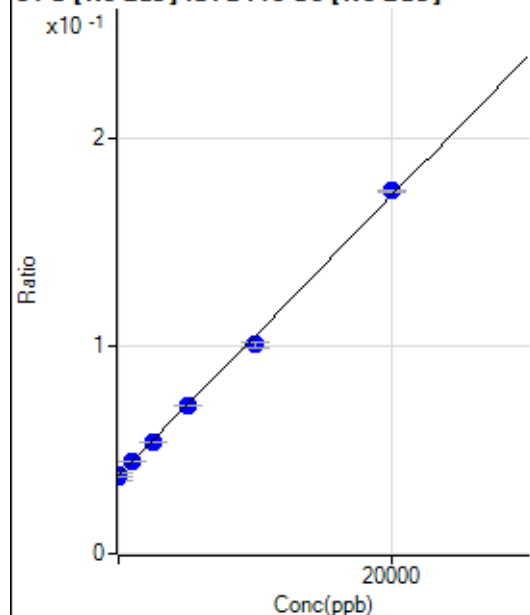
$$R = 0.9998$$

$$DL = 17.99$$

$$BEC = 48.83$$

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     | -62.660    | 446797.36  | 0.0372 | P   | 11.0 |
| 2 | <input type="checkbox"/> | 0.000     | 62.660     | 455475.23  | 0.0381 | P   | 3.5  |
| 3 | <input type="checkbox"/> | 1000.000  | 1030.187   | 554708.75  | 0.0446 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 2500.000  | 2404.903   | 639788.76  | 0.0538 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 5000.000  | 4979.258   | 787652.05  | 0.0712 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 9368.293   | 1134682.35 | 0.1007 | P   | 2.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 20331.417  | 1922847.76 | 0.1746 | P   | 0.6  |
| 8 | <input type="checkbox"/> |           |            | 378701.38  | 0.0344 | P   | 3.5  |

$$y = 6.7358\text{E-}006 * x + 0.0376$$

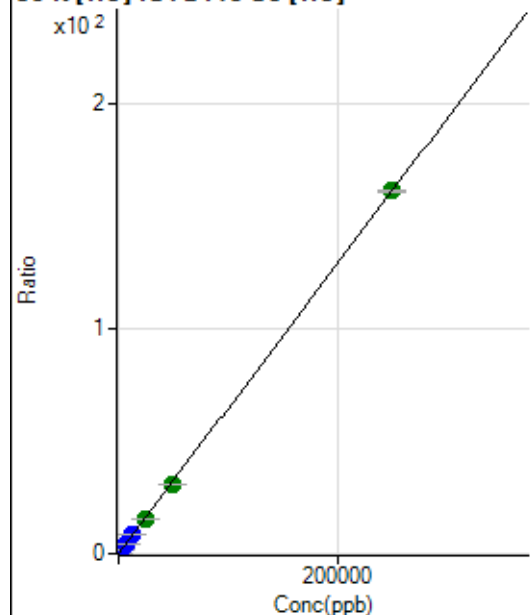
R = 0.9992

DL = 1203

BEC = 5588

Weight: <None>

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      | 18236.80    | 0.0398   | P   | 3.1 |
| 2 | <input type="checkbox"/> | 500.000   | 470.785    | 166640.35   | 0.3424   | P   | 1.9 |
| 3 | <input type="checkbox"/> | 2500.000  | 2519.515   | 789730.80   | 1.6592   | P   | 0.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6223.197   | 1782010.59  | 4.0397   | P   | 0.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 12660.317  | 3433650.47  | 8.1771   | P   | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 23562.476  | 6434529.53  | 15.1844  | A   | 0.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 48023.608  | 13197025.21 | 30.9066  | A   | 0.5 |
| 8 | <input type="checkbox"/> | 250000.00 | 250531.54  | 70732024.50 | 161.0672 | A   | 0.5 |

$$y = 6.4274\text{E-}004 * x + 0.0398$$

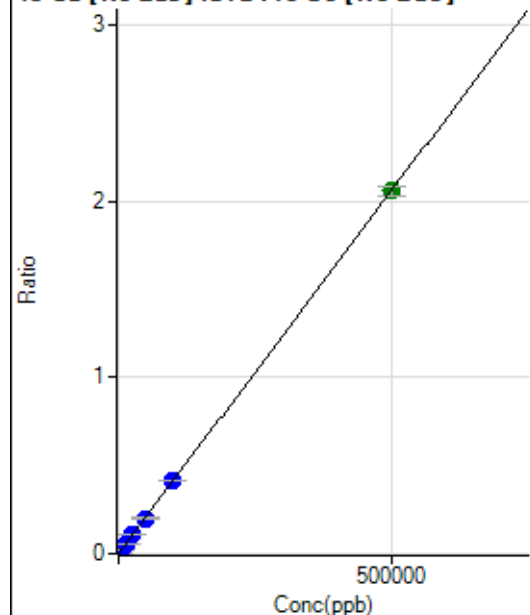
R = 1.0000

DL = 5.777

BEC = 61.9

Weight: <None>

Min Conc: 0

**43 Ca [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      | 369.47      | 0.0000 | P    | 33.5 |
| 2 | <input type="checkbox"/> | 500.000   | 496.160    | 24838.39    | 0.0021 | P    | 2.6  |
| 3 | <input type="checkbox"/> | 5000.000  | 5219.763   | 267965.03   | 0.0215 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 12500.000 | 13040.971  | 638757.22   | 0.0538 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 25000.000 | 26693.427  | 1217203.38  | 0.1100 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 50000.000 | 48783.890  | 2263628.00  | 0.2010 | P    | 3.4  |
| 7 | <input type="checkbox"/> | 100000.00 | 101716.25  | 4615335.52  | 0.4190 | P    | 0.3  |
| 8 | <input type="checkbox"/> | 500000.00 | 499677.97  | 22649846.86 | 2.0584 | A    | 2.7  |

$$y = 4.1194\text{E-}006 * x + 3.1072\text{E-}005$$

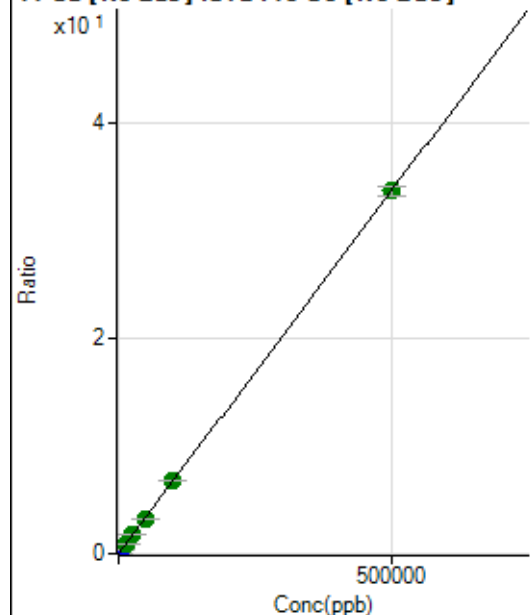
$$R = 1.0000$$

$$DL = 7.583$$

$$BEC = 7.543$$

Weight: &lt;None&gt;

Min Conc: 0

**44 Ca [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      | 10003.78    | 0.0008  | P    | 9.0 |
| 2 | <input type="checkbox"/> | 500.000   | 490.958    | 405869.11   | 0.0339  | P    | 4.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5149.758   | 4329308.00  | 0.3479  | P    | 0.3 |
| 4 | <input type="checkbox"/> | 12500.000 | 12757.842  | 10227660.65 | 0.8606  | A    | 0.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 26355.171  | 19665145.93 | 1.7770  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 48188.807  | 36589250.47 | 3.2485  | A    | 2.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 101177.02  | 75109799.59 | 6.8196  | A    | 0.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 499870.02  | 370709108.2 | 33.6895 | A    | 2.6 |

$$y = 6.7395\text{E-}005 * x + 8.3143\text{E-}004$$

$$R = 1.0000$$

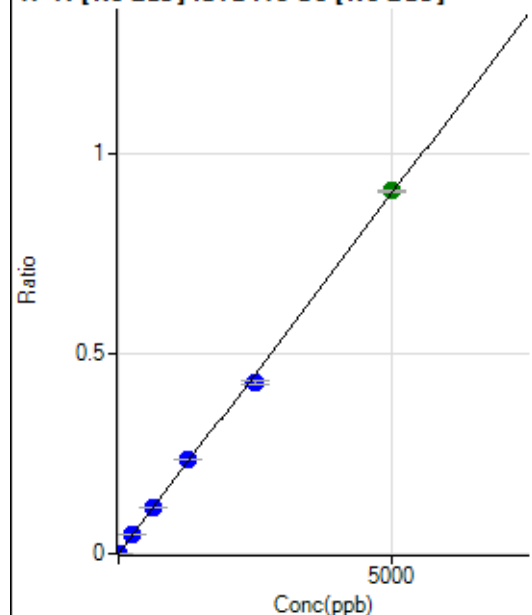
$$DL = 3.34$$

$$BEC = 12.34$$

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      | 136.12     | 0.0000 | P   | 9.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.116      | 11149.09   | 0.0009 | P   | 5.3 |
| 3 | <input type="checkbox"/> | 250.000  | 256.265    | 574052.65  | 0.0461 | P   | 0.6 |
| 4 | <input type="checkbox"/> | 625.000  | 643.718    | 1376908.65 | 0.1159 | P   | 1.0 |
| 5 | <input type="checkbox"/> | 1250.000 | 1307.332   | 2603829.68 | 0.2353 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 2500.000 | 2381.274   | 4827299.72 | 0.4286 | P   | 2.5 |
| 7 | <input type="checkbox"/> | 5000.000 | 5042.377   | 9994794.50 | 0.9075 | A   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 12903.33   | 0.0012 | P   | 2.8 |

$$y = 1.7997\text{E-}004 * x + 1.1187\text{E-}005$$

$$R = 0.9995$$

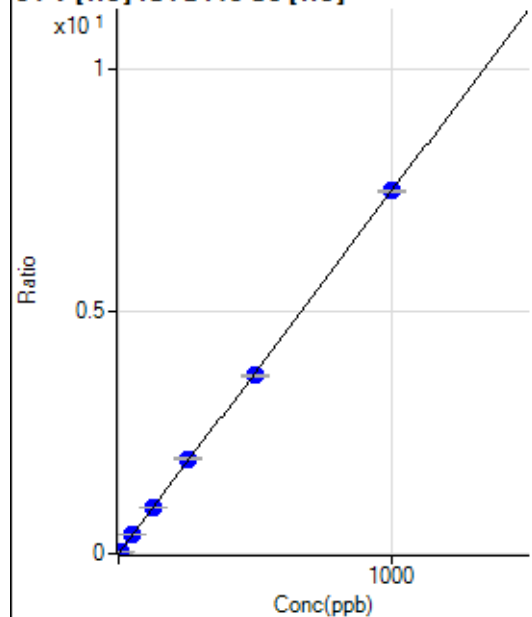
$$DL = 0.01776$$

$$BEC = 0.06216$$

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      | 5.55       | 0.0000 | P   | 69.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.062      | 18448.43   | 0.0379 | P   | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 51.937     | 185056.33  | 0.3888 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 128.487    | 424287.00  | 0.9618 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 261.860    | 823094.78  | 1.9602 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 491.769    | 1559946.96 | 3.6812 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.617   | 3198381.72 | 7.4903 | P   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 4396.28    | 0.0100 | P   | 3.4  |

$$y = 0.0075 * x + 1.2108\text{E-}005$$

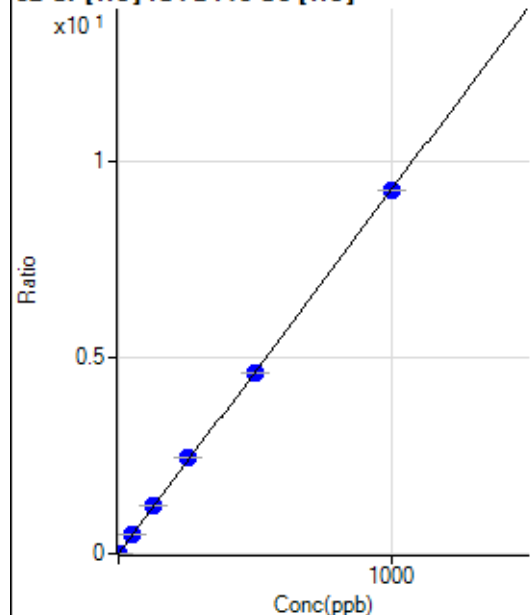
$$R = 0.9999$$

$$DL = 0.003356$$

$$BEC = 0.001617$$

Weight: &lt;None&gt;

Min Conc: 0

**52 Cr [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      | 1428.98    | 0.0031 | P    | 2.6 |
| 2 | <input type="checkbox"/> | 2.000    | 1.971      | 10434.94   | 0.0214 | P    | 2.2 |
| 3 | <input type="checkbox"/> | 50.000   | 52.811     | 235126.54  | 0.4940 | P    | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 130.856    | 537914.82  | 1.2194 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 265.180    | 1036299.56 | 2.4679 | P    | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 496.964    | 1958775.16 | 4.6223 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.850    | 3957770.39 | 9.2687 | P    | 0.1 |
| 8 | <input type="checkbox"/> |          |            | 117581.77  | 0.2677 | P    | 0.5 |

$$y = 0.0093 * x + 0.0031$$

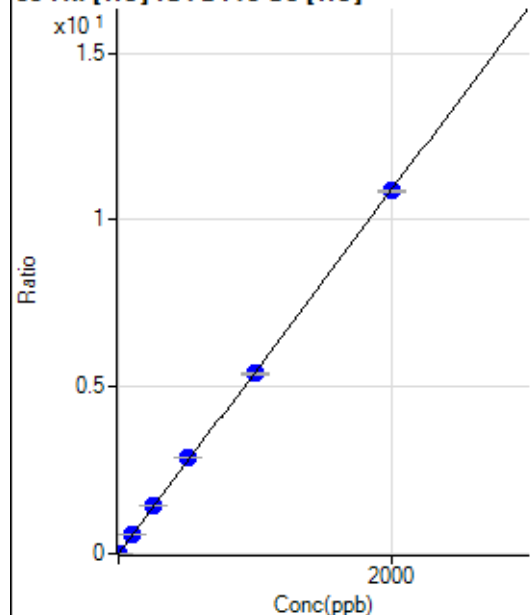
$$R = 0.9999$$

$$DL = 0.02585$$

$$BEC = 0.3353$$

Weight: &lt;None&gt;

Min Conc: 0

**55 Mn [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      | 50.00      | 0.0001  | P    | 32.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.030      | 2783.64    | 0.0057  | P    | 3.7  |
| 3 | <input type="checkbox"/> | 100.000  | 104.175    | 270222.62  | 0.5677  | P    | 0.7  |
| 4 | <input type="checkbox"/> | 250.000  | 259.927    | 624803.31  | 1.4164  | P    | 0.5  |
| 5 | <input type="checkbox"/> | 500.000  | 530.697    | 1214253.97 | 2.8917  | P    | 0.7  |
| 6 | <input type="checkbox"/> | 1000.000 | 991.570    | 2289509.34 | 5.4029  | P    | 0.7  |
| 7 | <input type="checkbox"/> | 2000.000 | 1995.091   | 4641991.56 | 10.8709 | P    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 21904.34   | 0.0499  | P    | 1.9  |

$$y = 0.0054 * x + 1.0792E-004$$

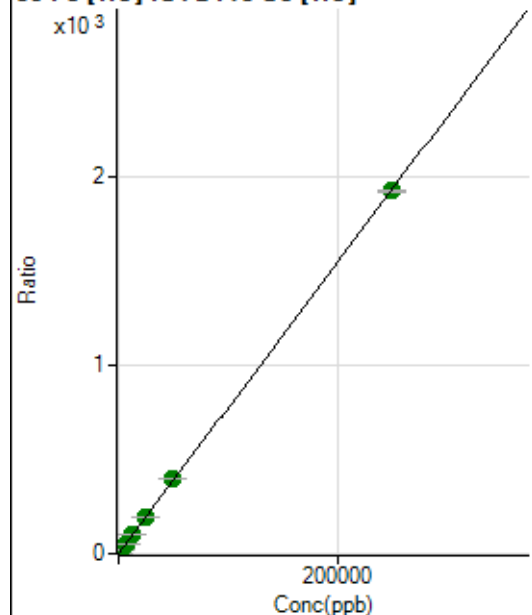
$$R = 0.9999$$

$$DL = 0.01946$$

$$BEC = 0.01981$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3885.81     | 0.0085    | P   | 7.7 |
| 2 | <input type="checkbox"/> | 50.000    | 52.551     | 201031.68   | 0.4131    | P   | 1.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2690.875   | 9864509.71  | 20.7250   | A   | 0.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6724.082   | 22839346.11 | 51.7758   | A   | 1.0 |
| 5 | <input type="checkbox"/> | 12500.000 | 13744.393  | 44436167.20 | 105.8237  | A   | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 25689.093  | 83813873.17 | 197.7835  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 51470.460  | 169208000.0 | 396.2689  | A   | 0.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249561.01  | 843700685.5 | 1,921.327 | A   | 0.4 |

$$y = 0.0077 * x + 0.0085$$

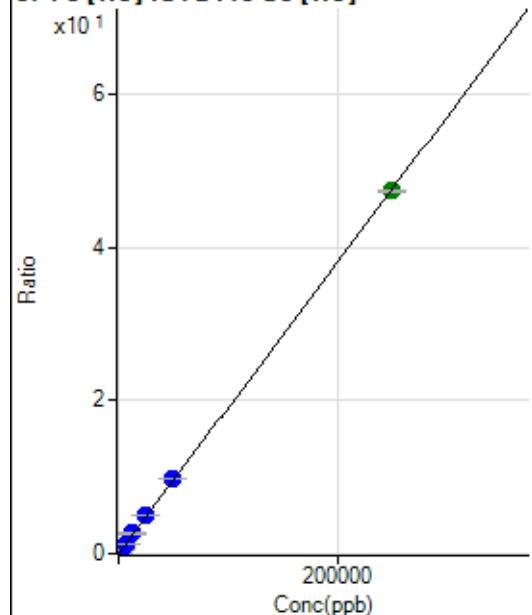
$$R = 1.0000$$

$$DL = 0.2553$$

$$BEC = 1.102$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 181.49      | 0.0004  | P   | 19.3 |
| 2 | <input type="checkbox"/> | 50.000    | 54.742     | 5243.66     | 0.0108  | P   | 4.0  |
| 3 | <input type="checkbox"/> | 2500.000  | 2702.366   | 244108.14   | 0.5129  | P   | 1.1  |
| 4 | <input type="checkbox"/> | 6250.000  | 6731.262   | 563266.15   | 1.2769  | P   | 1.2  |
| 5 | <input type="checkbox"/> | 12500.000 | 13888.877  | 1106143.18  | 2.6343  | P   | 0.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 25835.809  | 2076384.83  | 4.8999  | P   | 0.3  |
| 7 | <input type="checkbox"/> | 50000.000 | 51631.989  | 4181157.38  | 9.7919  | P   | 0.1  |
| 8 | <input type="checkbox"/> | 250000.00 | 249506.52  | 20778549.54 | 47.3167 | A   | 0.6  |

$$y = 1.8964E-004 * x + 3.9562E-004$$

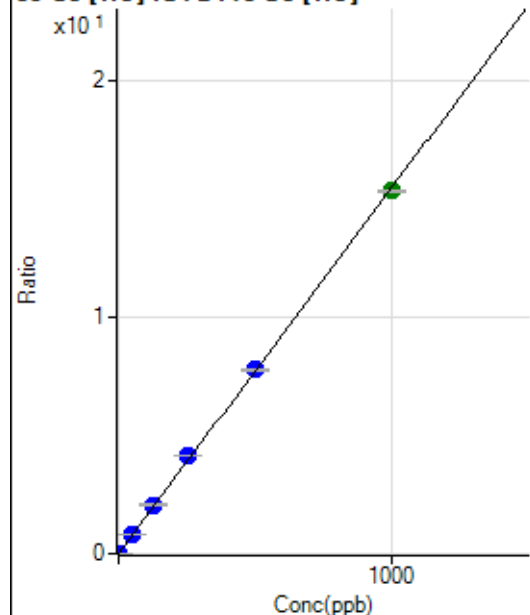
$$R = 1.0000$$

$$DL = 1.209$$

$$BEC = 2.086$$

Weight: &lt;None&gt;

Min Conc: 0

**59 Co [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      | 138.89     | 0.0003  | P   | 15.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.990      | 7584.30    | 0.0156  | P   | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 53.872     | 395697.99  | 0.8314  | P   | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 133.566    | 909044.45  | 2.0608  | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 269.534    | 1746099.37 | 4.1583  | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 503.002    | 3288306.20 | 7.7599  | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.351    | 6536898.38 | 15.3088 | A   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 18775.55   | 0.0428  | P   | 2.3  |

$$y = 0.0154 * x + 3.0396E-004$$

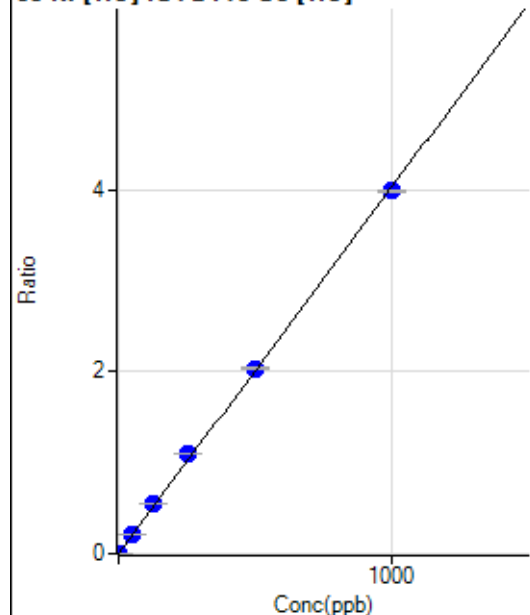
$$R = 0.9998$$

$$DL = 0.009108$$

$$BEC = 0.0197$$

Weight: &lt;None&gt;

Min Conc: 0

**60 Ni [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      | 61.11      | 0.0001 | P   | 10.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.070      | 2161.30    | 0.0044 | P   | 4.4  |
| 3 | <input type="checkbox"/> | 50.000   | 54.765     | 105016.96  | 0.2206 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 135.721    | 241114.68  | 0.5466 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 272.201    | 460261.24  | 1.0961 | P   | 0.0  |
| 6 | <input type="checkbox"/> | 500.000  | 504.584    | 860949.64  | 2.0317 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.579    | 1703134.59 | 3.9885 | P   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 36162.37   | 0.0824 | P   | 1.1  |

$$y = 0.0040 * x + 1.3359E-004$$

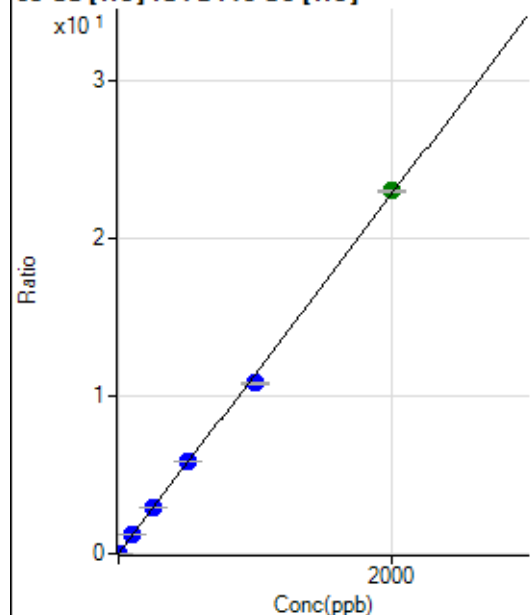
$$R = 0.9997$$

$$DL = 0.01026$$

$$BEC = 0.03318$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>63</sup>Cu [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      | 863.37     | 0.0019  | P    | 7.7 |
| 2 | <input type="checkbox"/> | 2.000    | 1.933      | 11643.68   | 0.0239  | P    | 1.5 |
| 3 | <input type="checkbox"/> | 100.000  | 104.051    | 565542.75  | 1.1882  | P    | 0.9 |
| 4 | <input type="checkbox"/> | 250.000  | 258.186    | 1299325.20 | 2.9455  | P    | 1.0 |
| 5 | <input type="checkbox"/> | 500.000  | 516.259    | 2472309.94 | 5.8878  | P    | 0.5 |
| 6 | <input type="checkbox"/> | 1000.000 | 949.692    | 4588986.77 | 10.8294 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 2000.000 | 2019.864   | 9834028.47 | 23.0305 | A    | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 25865.21   | 0.0589  | P    | 1.0 |

$$y = 0.0114 * x + 0.0019$$

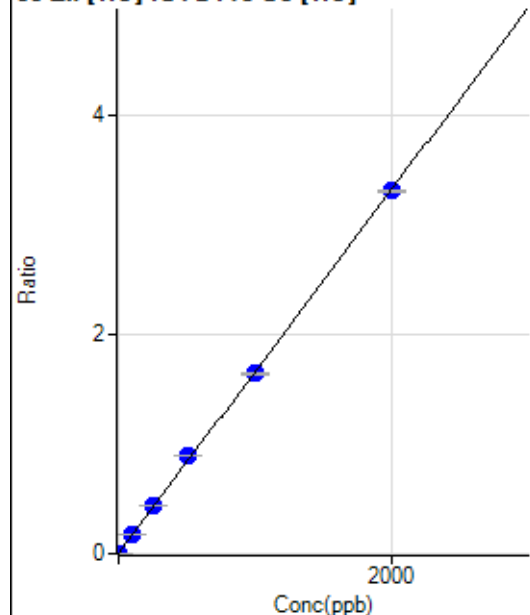
$$R = 0.9995$$

$$DL = 0.03809$$

$$BEC = 0.1654$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>66</sup>Zn [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      | 1004.50    | 0.0022 | P    | 1.9 |
| 2 | <input type="checkbox"/> | 2.000    | 2.172      | 2821.43    | 0.0058 | P    | 1.2 |
| 3 | <input type="checkbox"/> | 100.000  | 106.889    | 85590.09   | 0.1798 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 250.000  | 265.605    | 195680.57  | 0.4436 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 500.000  | 537.243    | 375835.75  | 0.8950 | P    | 0.6 |
| 6 | <input type="checkbox"/> | 1000.000 | 990.088    | 698176.07  | 1.6476 | P    | 0.9 |
| 7 | <input type="checkbox"/> | 2000.000 | 1993.350   | 1415474.65 | 3.3149 | P    | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 24415.07   | 0.0556 | P    | 1.5 |

$$y = 0.0017 * x + 0.0022$$

$$R = 0.9998$$

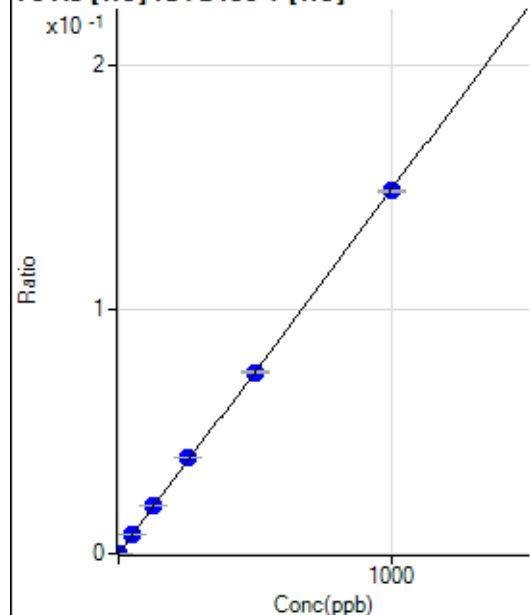
$$DL = 0.07616$$

$$BEC = 1.317$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.64      | 0.0000 | P    | 62.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.076      | 495.69    | 0.0002 | P    | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 53.385     | 23799.75  | 0.0080 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 131.869    | 55036.92  | 0.0196 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 265.150    | 106317.65 | 0.0395 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 498.057    | 201693.93 | 0.0742 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.156    | 402632.04 | 0.1483 | P    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 585.82    | 0.0002 | P    | 4.9  |

$$y = 1.4889\text{E-}004 * x + 3.0401\text{E-}006$$

$$R = 0.9999$$

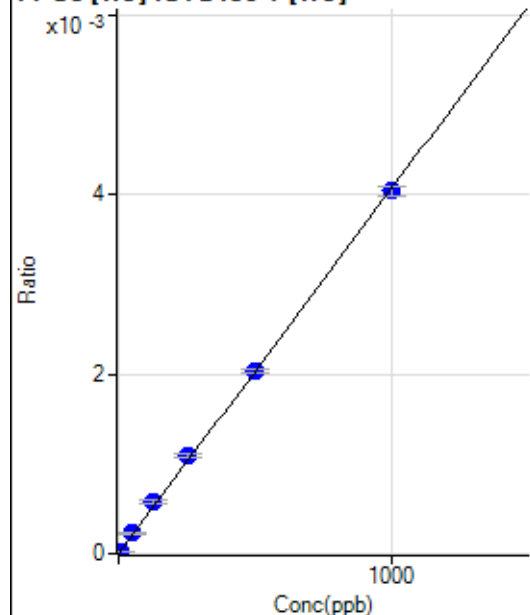
$$DL = 0.03802$$

$$BEC = 0.02042$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><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"/> | 5.000    | 5.565      | 68.89    | 0.0000 | P    | 47.6 |
| 3 | <input type="checkbox"/> | 50.000   | 55.792     | 678.92   | 0.0002 | P    | 8.1  |
| 4 | <input type="checkbox"/> | 125.000  | 142.236    | 1620.12  | 0.0006 | P    | 3.8  |
| 5 | <input type="checkbox"/> | 250.000  | 267.971    | 2933.68  | 0.0011 | P    | 3.1  |
| 6 | <input type="checkbox"/> | 500.000  | 499.087    | 5517.80  | 0.0020 | P    | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.517    | 10963.23 | 0.0040 | P    | 2.8  |
| 8 | <input type="checkbox"/> |          |            | 10.00    | 0.0000 | P    | 115. |

$$y = 4.0649\text{E-}006 * x + 0.0000\text{E+}000$$

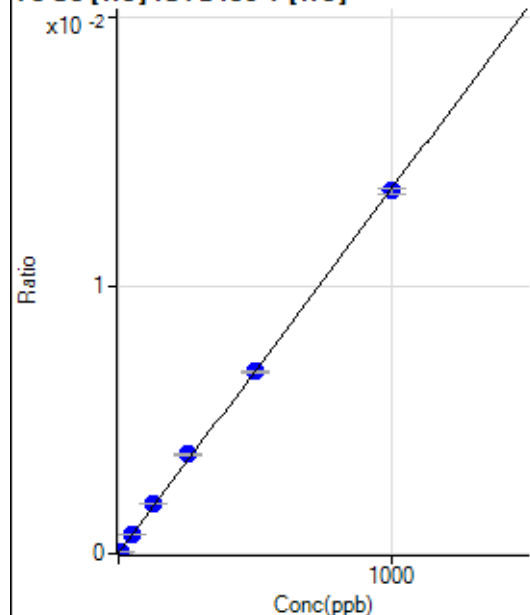
$$R = 0.9997$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 56.17    | 0.0000 | P   | 15.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.663      | 293.83   | 0.0001 | P   | 8.7  |
| 3 | <input type="checkbox"/> | 50.000   | 53.451     | 2235.38  | 0.0007 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 134.276    | 5175.04  | 0.0018 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 272.712    | 10043.68 | 0.0037 | P   | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 497.335    | 18456.85 | 0.0068 | P   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.319    | 36774.32 | 0.0135 | P   | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 132.10   | 0.0000 | P   | 3.6  |

$$y = 1.3605\text{E-}005 * x + 1.9644\text{E-}005$$

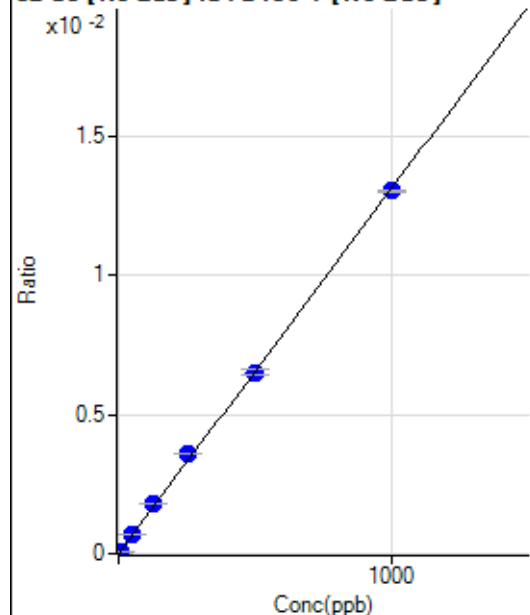
$$R = 0.9997$$

$$DL = 0.6577$$

$$BEC = 1.444$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 55.02     | 0.0000 | P   | 134. |
| 2 | <input type="checkbox"/> | 5.000    | 5.336      | 1749.13   | 0.0001 | P   | 1.3  |
| 3 | <input type="checkbox"/> | 50.000   | 54.900     | 18088.34  | 0.0007 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 135.682    | 43106.55  | 0.0018 | P   | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 273.184    | 82698.53  | 0.0036 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 497.480    | 153482.83 | 0.0065 | P   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.882    | 299853.97 | 0.0130 | P   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 466.69    | 0.0000 | P   | 10.3 |

$$y = 1.3106\text{E-}005 * x + 2.5307\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.7806$$

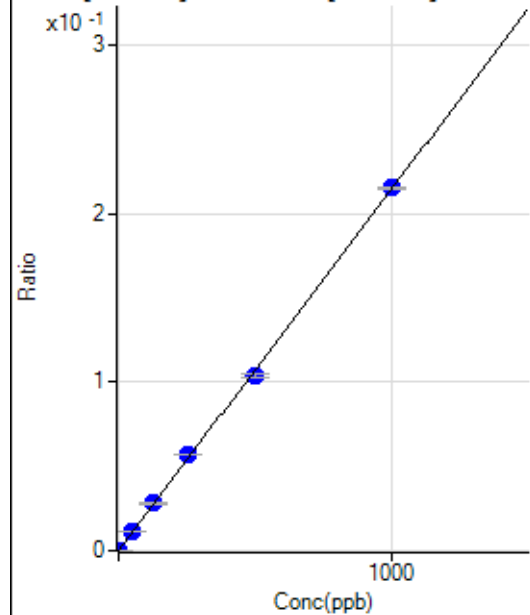
$$BEC = 0.1931$$

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"/> |       |            | 676.69 |       | P        | 3.0 |
| 2 | <input type="checkbox"/> |       |            | 725.59 |       | P        | 4.6 |
| 3 | <input type="checkbox"/> |       |            | 722.25 |       | P        | 6.9 |
| 4 | <input type="checkbox"/> |       |            | 666.69 |       | P        | 6.1 |
| 5 | <input type="checkbox"/> |       |            | 604.47 |       | P        | 8.8 |
| 6 | <input type="checkbox"/> |       |            | 590.02 |       | P        | 6.7 |
| 7 | <input type="checkbox"/> |       |            | 568.91 |       | P        | 6.9 |
| 8 | <input type="checkbox"/> |       |            | 700.03 |       | P        | 1.0 |

**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      | 1205.66    | 0.0001 | P        | 10.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.979      | 6271.08    | 0.0003 | P        | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 51.862     | 279805.42  | 0.0112 | P        | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 130.281    | 677377.06  | 0.0280 | P        | 1.2  |
| 5 | <input type="checkbox"/> | 250.000  | 264.185    | 1308530.36 | 0.0567 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 484.246    | 2444276.81 | 0.1039 | P        | 2.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.578   | 4953349.55 | 0.2152 | P        | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 26027.21   | 0.0012 | P        | 3.1  |

$$y = 2.1440\text{E-}004 * x + 5.0085\text{E-}005$$

$$R = 0.9997$$

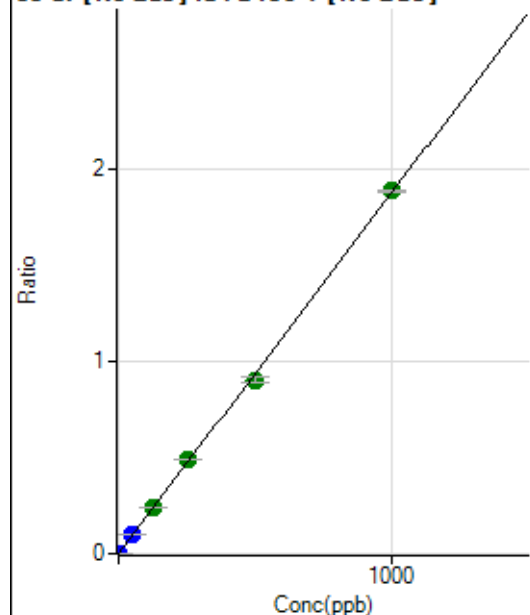
$$DL = 0.0764$$

$$BEC = 0.2336$$

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      | 647.27      | 0.0000 | P   | 24.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.014      | 46518.40    | 0.0019 | P   | 4.0  |
| 3 | <input type="checkbox"/> | 50.000   | 51.502     | 2418874.94  | 0.0966 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 127.223    | 5773021.44  | 0.2385 | A   | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 262.470    | 11355890.10 | 0.4920 | A   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 481.946    | 21255856.03 | 0.9033 | A   | 3.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.557   | 43379040.20 | 1.8848 | A   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 220723.32   | 0.0099 | P   | 2.4  |

$$y = 0.0019 * x + 2.7059E-005$$

$$R = 0.9997$$

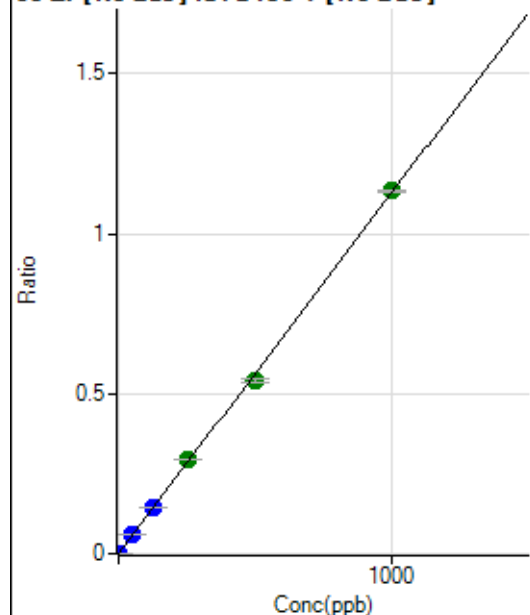
$$DL = 0.01062$$

$$BEC = 0.01444$$

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      | 1255.67     | 0.0001 | P   | 11.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.807      | 23172.25    | 0.0010 | P   | 5.7  |
| 3 | <input type="checkbox"/> | 50.000   | 51.234     | 1446369.00  | 0.0577 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 128.082    | 3492101.56  | 0.1443 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 260.637    | 6774529.32  | 0.2935 | A   | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 480.647    | 12737546.90 | 0.5412 | A   | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.571   | 26083770.20 | 1.1334 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 30895.30    | 0.0014 | P   | 4.2  |

$$y = 0.0011 * x + 5.2129E-005$$

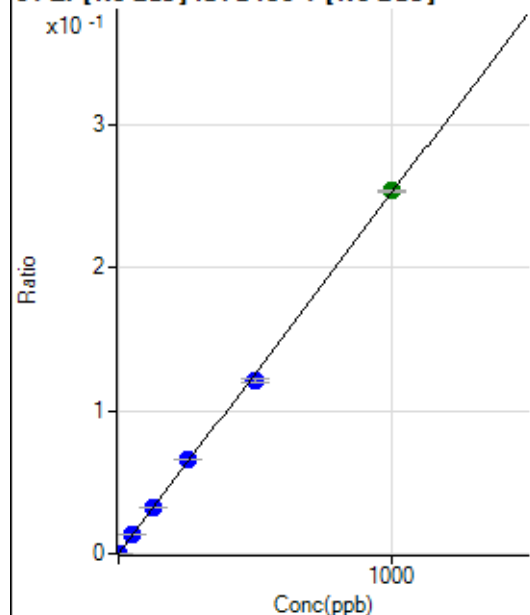
$$R = 0.9997$$

$$DL = 0.01567$$

$$BEC = 0.0463$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 211.12     | 0.0000 | P    | 12.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.850      | 5367.93    | 0.0002 | P    | 8.0  |
| 3 | <input type="checkbox"/> | 50.000   | 51.268     | 323658.59  | 0.0129 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 128.537    | 783806.65  | 0.0324 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 262.247    | 1524595.90 | 0.0661 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 479.658    | 2842897.76 | 0.1208 | P    | 2.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.604   | 5834561.89 | 0.2535 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 6757.41    | 0.0003 | P    | 5.6  |

$$y = 2.5184\text{E-}004 * x + 8.6411\text{E-}006$$

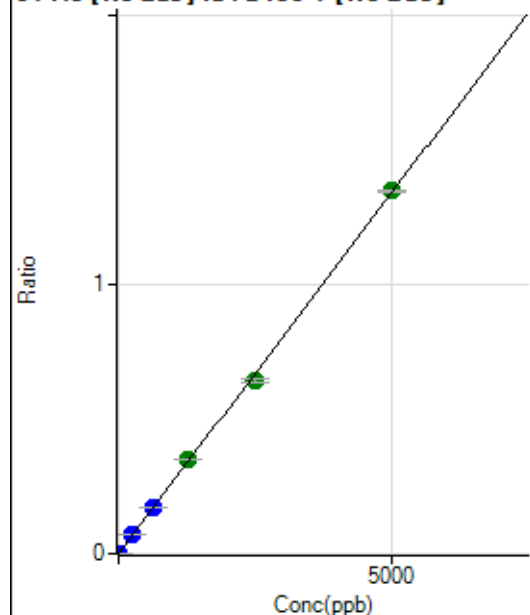
$$R = 0.9996$$

$$DL = 0.01329$$

$$BEC = 0.03431$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 508.36      | 0.0000 | P    | 13.3 |
| 2 | <input type="checkbox"/> | 5.000    | 4.930      | 32412.85    | 0.0013 | P    | 3.3  |
| 3 | <input type="checkbox"/> | 250.000  | 256.535    | 1724809.44  | 0.0689 | P    | 0.3  |
| 4 | <input type="checkbox"/> | 625.000  | 643.563    | 4180368.58  | 0.1727 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1309.423   | 8109643.32  | 0.3513 | A    | 0.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2408.311   | 15207279.68 | 0.6462 | A    | 2.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 5028.342   | 31051034.72 | 1.3492 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 52020.83    | 0.0023 | P    | 2.8  |

$$y = 2.6831\text{E-}004 * x + 2.0734\text{E-}005$$

$$R = 0.9997$$

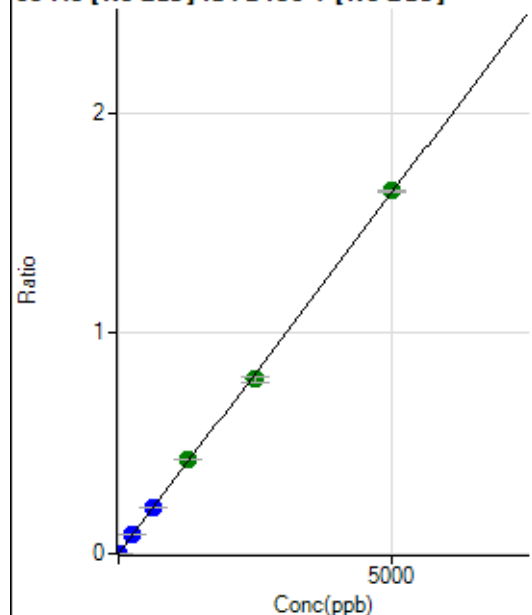
$$DL = 0.03093$$

$$BEC = 0.07728$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 75.00       | 0.0000 | P    | 16.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.224      | 41358.13    | 0.0017 | P    | 3.1  |
| 3 | <input type="checkbox"/> | 250.000  | 257.394    | 2111867.91  | 0.0843 | P    | 0.4  |
| 4 | <input type="checkbox"/> | 625.000  | 641.609    | 5086532.32  | 0.2101 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1309.187   | 9896447.79  | 0.4288 | A    | 0.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2411.629   | 18586215.52 | 0.7898 | A    | 2.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 5026.943   | 37891649.11 | 1.6464 | A    | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 71800.55    | 0.0032 | P    | 3.1  |

$$y = 3.2751E-004 * x + 3.0835E-006$$

$$R = 0.9997$$

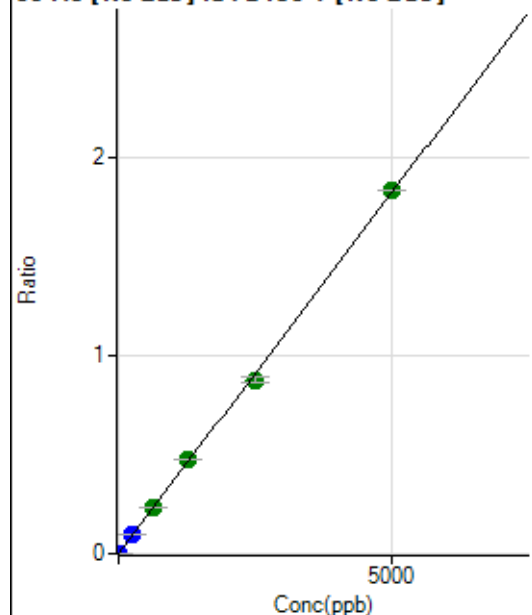
$$DL = 0.004745$$

$$BEC = 0.009415$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 200.01      | 0.0000 | P    | 14.4 |
| 2 | <input type="checkbox"/> | 5.000    | 5.154      | 45428.95    | 0.0019 | P    | 4.7  |
| 3 | <input type="checkbox"/> | 250.000  | 256.773    | 2340274.03  | 0.0934 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 625.000  | 636.556    | 5605743.70  | 0.2316 | A    | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1309.632   | 10996833.75 | 0.4764 | A    | 0.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2409.002   | 20623092.99 | 0.8764 | A    | 2.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 5028.807   | 42104760.32 | 1.8294 | A    | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 86917.11    | 0.0039 | P    | 1.9  |

$$y = 3.6379E-004 * x + 8.3342E-006$$

$$R = 0.9997$$

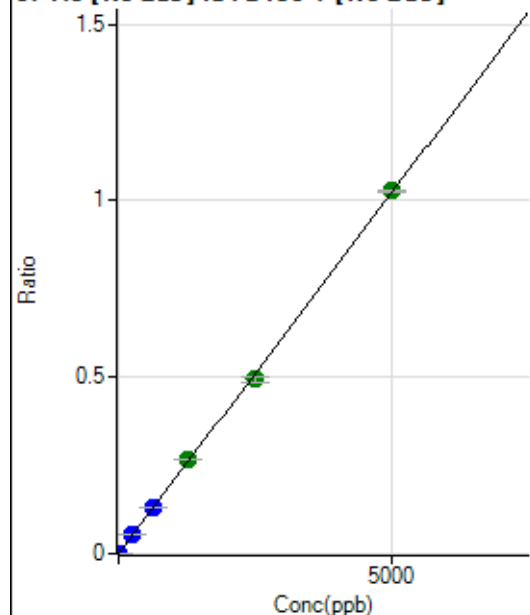
$$DL = 0.009871$$

$$BEC = 0.02291$$

Weight: &lt;None&gt;

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [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    | 9.1 |
| 2 | <input type="checkbox"/> | 5.000    | 5.243      | 25968.88    | 0.0011 | P    | 3.9 |
| 3 | <input type="checkbox"/> | 250.000  | 255.995    | 1311648.15  | 0.0524 | P    | 0.5 |
| 4 | <input type="checkbox"/> | 625.000  | 639.979    | 3168322.23  | 0.1309 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 1250.000 | 1309.064   | 6179406.86  | 0.2677 | A    | 0.7 |
| 6 | <input type="checkbox"/> | 2500.000 | 2413.284   | 11613340.89 | 0.4936 | A    | 3.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 5026.420   | 23658824.66 | 1.0280 | A    | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 44593.01    | 0.0020 | P    | 2.4 |

$$y = 2.0451\text{E-}004 * x + 4.1406\text{E-}006$$

$$R = 0.9997$$

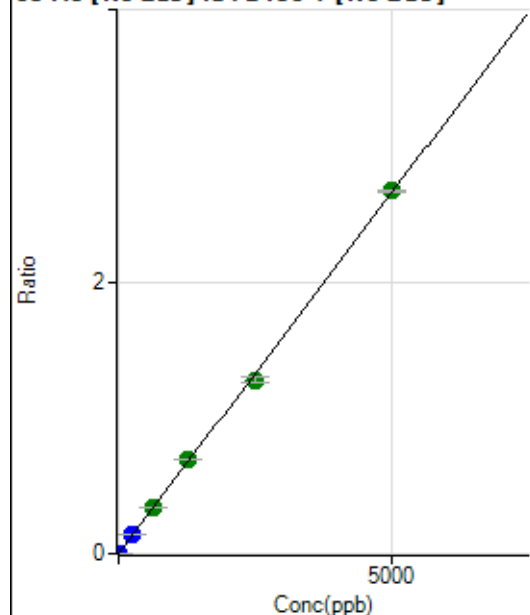
$$DL = 0.005554$$

$$BEC = 0.02025$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 125.01      | 0.0000 | P    | 32.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.245      | 67256.48    | 0.0028 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 250.000  | 255.271    | 3391987.27  | 0.1354 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 634.223    | 8143225.70  | 0.3364 | A    | 1.0  |
| 5 | <input type="checkbox"/> | 1250.000 | 1304.932   | 15976219.46 | 0.6922 | A    | 0.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2406.542   | 30037570.46 | 1.2765 | A    | 2.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 5031.579   | 61422211.09 | 2.6688 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 116640.92   | 0.0052 | P    | 0.9  |

$$y = 5.3041\text{E-}004 * x + 5.0922\text{E-}006$$

$$R = 0.9997$$

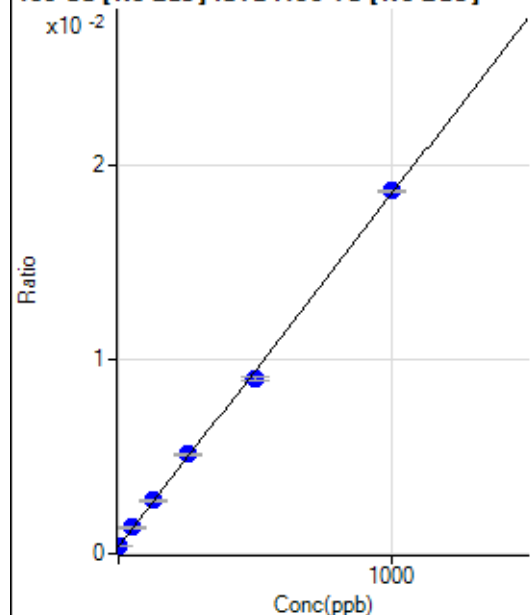
$$DL = 0.009445$$

$$BEC = 0.009601$$

Weight: &lt;None&gt;

Min Conc: 0

106 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      | 9784.44   | 0.0004 | P   | 3.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.248      | 9767.70   | 0.0004 | P   | 3.5 |
| 3 | <input type="checkbox"/> | 50.000   | 54.576     | 37745.70  | 0.0013 | P   | 2.8 |
| 4 | <input type="checkbox"/> | 125.000  | 130.791    | 75280.87  | 0.0027 | P   | 1.5 |
| 5 | <input type="checkbox"/> | 250.000  | 261.371    | 138001.41 | 0.0051 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 473.980    | 249785.92 | 0.0090 | P   | 2.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.215   | 506748.35 | 0.0187 | P   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 9656.45   | 0.0004 | P   | 1.4 |

$$y = 1.8161\text{E-}005 * x + 3.5868\text{E-}004$$

$$R = 0.9994$$

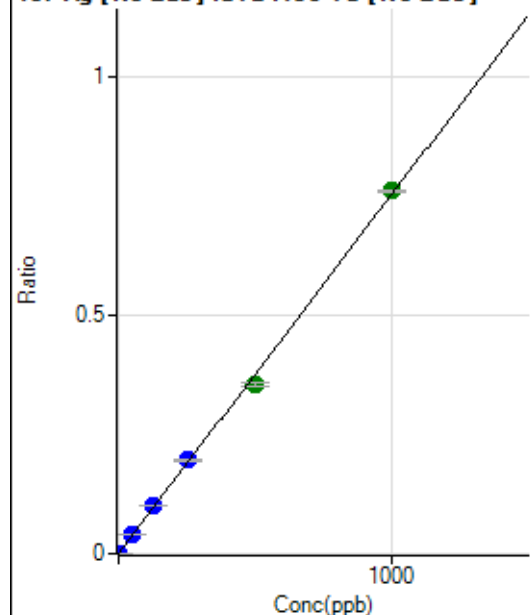
$$DL = 2.02$$

$$BEC = 19.75$$

Weight: &lt;None&gt;

Min Conc: 0

107 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      | 1566.83     | 0.0001 | P   | 6.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.120      | 24263.17    | 0.0009 | P   | 2.0 |
| 3 | <input type="checkbox"/> | 50.000   | 55.112     | 1163057.95  | 0.0416 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 133.007    | 2761589.77  | 0.1003 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 260.304    | 5304192.91  | 0.1962 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 471.101    | 9891117.67  | 0.3551 | A   | 3.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.617   | 20655649.24 | 0.7617 | A   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 21892.77    | 0.0009 | P   | 2.4 |

$$y = 7.5364\text{E-}004 * x + 5.7678\text{E-}005$$

$$R = 0.9993$$

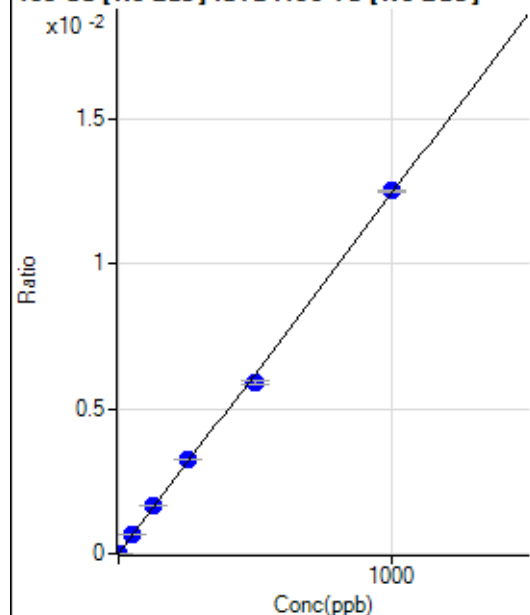
$$DL = 0.01374$$

$$BEC = 0.07653$$

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      | 19.44     | 0.0000 | P   | 45.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.011      | 356.96    | 0.0000 | P   | 10.7 |
| 3 | <input type="checkbox"/> | 50.000   | 54.289     | 18873.95  | 0.0007 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 133.278    | 45598.39  | 0.0017 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 263.474    | 88474.32  | 0.0033 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 474.729    | 164253.93 | 0.0059 | P   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1008.018   | 339523.89 | 0.0125 | P   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 369.46    | 0.0000 | P   | 7.8  |

$$y = 1.2420\text{E-}005 * x + 6.9074\text{E-}007$$

$$R = 0.9994$$

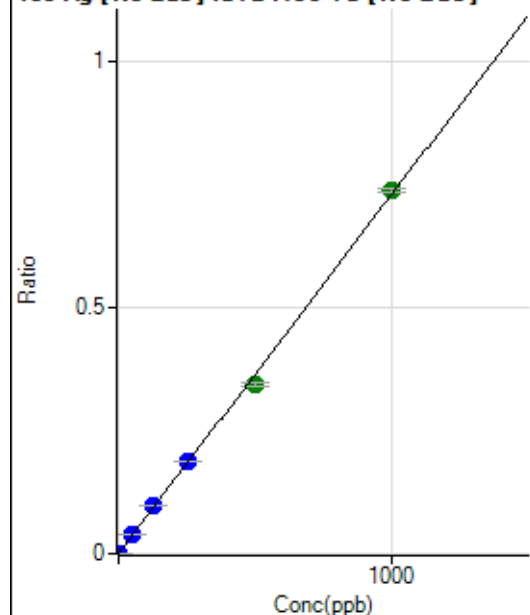
$$DL = 0.07574$$

$$BEC = 0.05562$$

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      | 1291.79     | 0.0000 | P   | 19.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.123      | 23317.23    | 0.0009 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 50.000   | 54.761     | 1117837.36  | 0.0400 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 132.455    | 2660476.66  | 0.0966 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 258.251    | 5090834.36  | 0.1883 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 472.593    | 9600156.03  | 0.3446 | A   | 2.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.471   | 19979808.61 | 0.7368 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 21186.01    | 0.0008 | P   | 1.0  |

$$y = 7.2911\text{E-}004 * x + 4.8092\text{E-}005$$

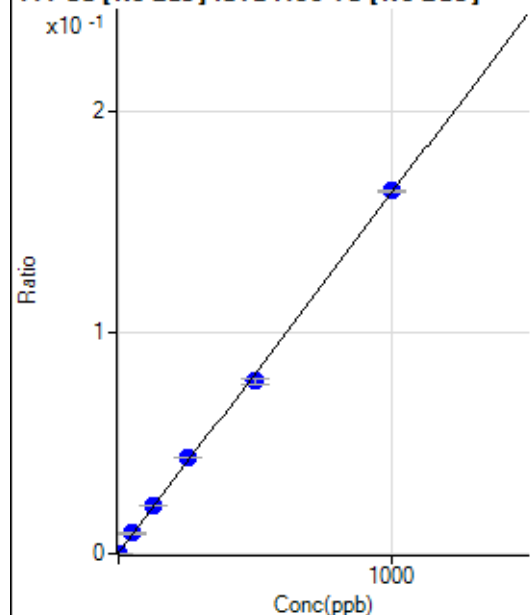
$$R = 0.9994$$

$$DL = 0.03854$$

$$BEC = 0.06596$$

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      | 6888.28    | 0.0003 | P    | 3.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.981      | 11088.34   | 0.0004 | P    | 4.7 |
| 3 | <input type="checkbox"/> | 50.000   | 54.777     | 256690.61  | 0.0092 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 133.838    | 607540.83  | 0.0221 | P    | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 265.031    | 1174351.38 | 0.0434 | P    | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 477.081    | 2172623.29 | 0.0780 | P    | 3.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.358   | 4454381.26 | 0.1643 | P    | 0.2 |
| 8 | <input type="checkbox"/> |          |            | 11129.51   | 0.0004 | P    | 0.9 |

$$y = 1.6297\text{E-}004 * x + 2.5261\text{E-}004$$

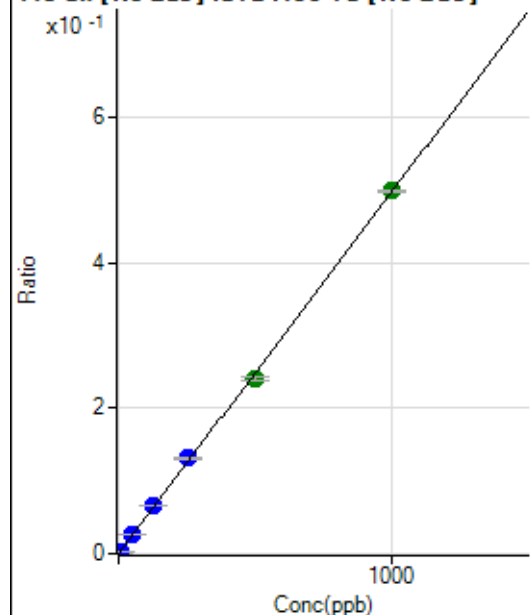
$$R = 0.9995$$

$$DL = 0.1645$$

$$BEC = 1.55$$

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      | 1602.94     | 0.0001 | P    | 14.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.227      | 71484.85    | 0.0027 | P    | 3.9  |
| 3 | <input type="checkbox"/> | 50.000   | 53.378     | 743830.04   | 0.0266 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 132.260    | 1812387.21  | 0.0658 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 263.410    | 3541972.21  | 0.1310 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 483.979    | 6705757.96  | 0.2407 | A    | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.580   | 13533538.84 | 0.4991 | A    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 20816.15    | 0.0008 | P    | 1.4  |

$$y = 4.9723\text{E-}004 * x + 5.9441\text{E-}005$$

$$R = 0.9997$$

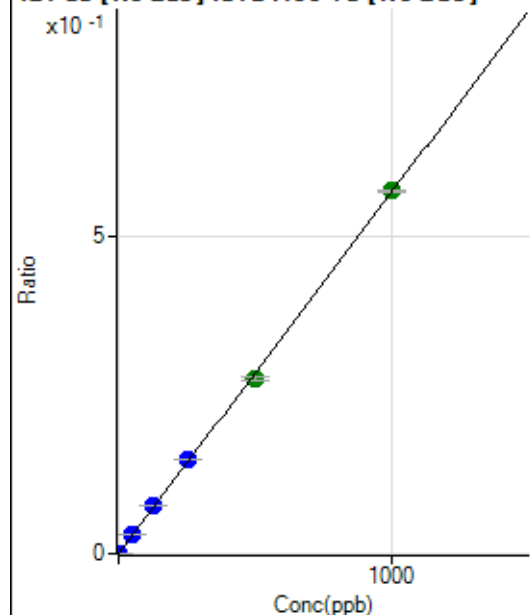
$$DL = 0.05257$$

$$BEC = 0.1195$$

Weight: &lt;None&gt;

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.01      | 0.0000 | P    | 39.5 |
| 2 | <input type="checkbox"/> | 2.000    | 1.988      | 30464.61    | 0.0011 | P    | 5.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.360     | 832152.77   | 0.0298 | P    | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 130.934    | 2048867.08  | 0.0744 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 262.414    | 4031004.60  | 0.1491 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 484.626    | 7672034.03  | 0.2754 | A    | 2.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.724   | 15467875.35 | 0.5704 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 29698.96    | 0.0012 | P    | 0.5  |

$$y = 5.6827E-004 * x + 3.7860E-006$$

$$R = 0.9997$$

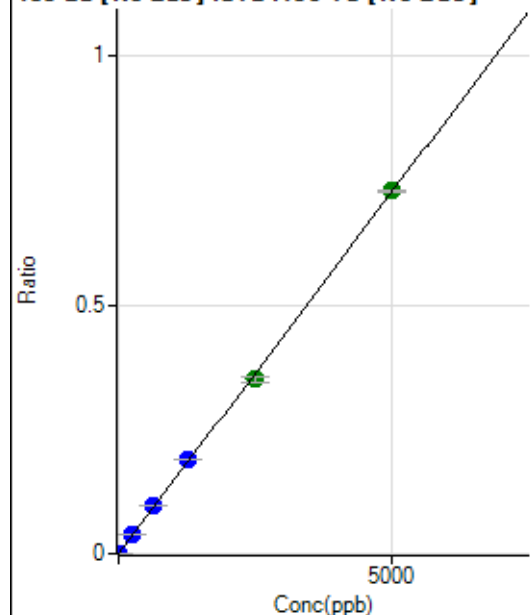
$$DL = 0.0079$$

$$BEC = 0.006662$$

Weight: &lt;None&gt;

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78       | 0.0000 | P    | 30.9 |
| 2 | <input type="checkbox"/> | 10.000   | 10.420     | 40688.38    | 0.0015 | P    | 2.6  |
| 3 | <input type="checkbox"/> | 250.000  | 263.146    | 1067096.49  | 0.0382 | P    | 0.7  |
| 4 | <input type="checkbox"/> | 625.000  | 657.458    | 2625116.27  | 0.0953 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 1250.000 | 1310.240   | 5135864.78  | 0.1900 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2411.673   | 9741553.17  | 0.3497 | A    | 2.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 5024.388   | 19757533.95 | 0.7286 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 22716.64    | 0.0009 | P    | 3.4  |

$$y = 1.4501E-004 * x + 1.9251E-006$$

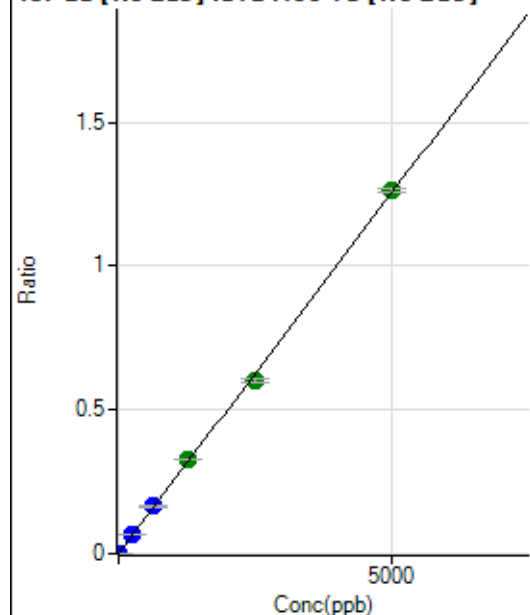
$$R = 0.9997$$

$$DL = 0.0123$$

$$BEC = 0.01328$$

Weight: &lt;None&gt;

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      | 61.11       | 0.0000 | P        | 8.6 |
| 2 | <input type="checkbox"/> | 10.000   | 10.436     | 70409.33    | 0.0026 | P        | 3.4 |
| 3 | <input type="checkbox"/> | 250.000  | 263.303    | 1845759.33  | 0.0660 | P        | 0.5 |
| 4 | <input type="checkbox"/> | 625.000  | 655.481    | 4524219.72  | 0.1643 | P        | 1.0 |
| 5 | <input type="checkbox"/> | 1250.000 | 1304.122   | 8836831.01  | 0.3269 | A        | 0.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2396.356   | 16734214.26 | 0.6007 | A        | 2.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 5033.815   | 34218051.46 | 1.2618 | A        | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 38562.81    | 0.0015 | P        | 3.8 |

$$y = 2.5067E-004 * x + 2.2240E-006$$

$$R = 0.9996$$

$$DL = 0.002297$$

$$BEC = 0.008872$$

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"/> |       |            | 11.11   |       | P        | 34.6 |
| 2 | <input type="checkbox"/> |       |            | 13.33   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 84.45   |       | P        | 37.3 |
| 4 | <input type="checkbox"/> |       |            | 222.23  |       | P        | 3.5  |
| 5 | <input type="checkbox"/> |       |            | 482.25  |       | P        | 17.3 |
| 6 | <input type="checkbox"/> |       |            | 742.27  |       | P        | 14.6 |
| 7 | <input type="checkbox"/> |       |            | 1506.81 |       | P        | 6.1  |
| 8 | <input type="checkbox"/> |       |            | 222.23  |       | P        | 23.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3.33   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 78.1 |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 17.3 |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 45.8 |
| 5 | <input type="checkbox"/> |       |            | 36.67  |       | P        | 27.3 |
| 6 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 22.2 |
| 7 | <input type="checkbox"/> |       |            | 135.56 |       | P        | 26.5 |
| 8 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 30.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 21.7 |
| 2 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 10.8 |
| 3 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 60.0 |
| 4 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 11.5 |
| 5 | <input type="checkbox"/> |       |            | 102.78 |       | P        | 20.4 |
| 6 | <input type="checkbox"/> |       |            | 172.23 |       | P        | 24.8 |
| 7 | <input type="checkbox"/> |       |            | 380.58 |       | P        | 20.7 |
| 8 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 33.5 |

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

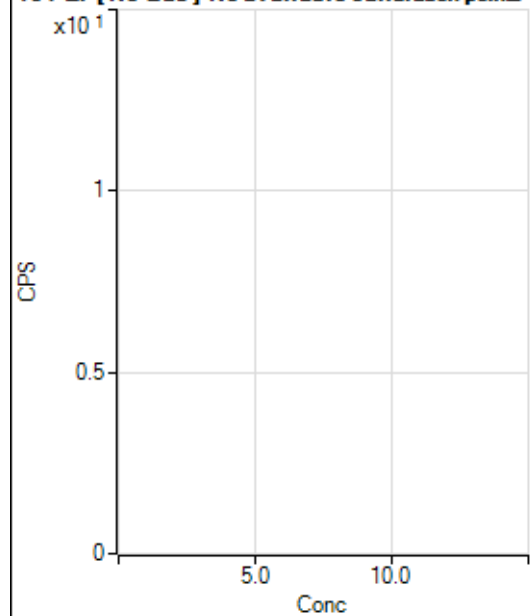
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 48.0 |
| 2 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 57.3 |
| 3 | <input type="checkbox"/> |       |            | 36.67  |       | P        | 18.2 |
| 4 | <input type="checkbox"/> |       |            | 67.78  |       | P        | 38.2 |
| 5 | <input type="checkbox"/> |       |            | 115.56 |       | P        | 8.3  |
| 6 | <input type="checkbox"/> |       |            | 203.34 |       | P        | 7.1  |
| 7 | <input type="checkbox"/> |       |            | 338.90 |       | P        | 10.8 |
| 8 | <input type="checkbox"/> |       |            | 63.33  |       | P        | 9.1  |

**160 Gd [No Gas] Noavailable calibration poin...**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 183.34 |       | P        | 9.1  |
| 2 | <input type="checkbox"/> |       |            | 152.79 |       | P        | 24.6 |
| 3 | <input type="checkbox"/> |       |            | 197.23 |       | P        | 14.8 |
| 4 | <input type="checkbox"/> |       |            | 191.68 |       | P        | 8.7  |
| 5 | <input type="checkbox"/> |       |            | 197.23 |       | P        | 20.8 |
| 6 | <input type="checkbox"/> |       |            | 197.23 |       | P        | 19.1 |
| 7 | <input type="checkbox"/> |       |            | 241.68 |       | P        | 24.9 |
| 8 | <input type="checkbox"/> |       |            | 186.12 |       | P        | 10.3 |

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

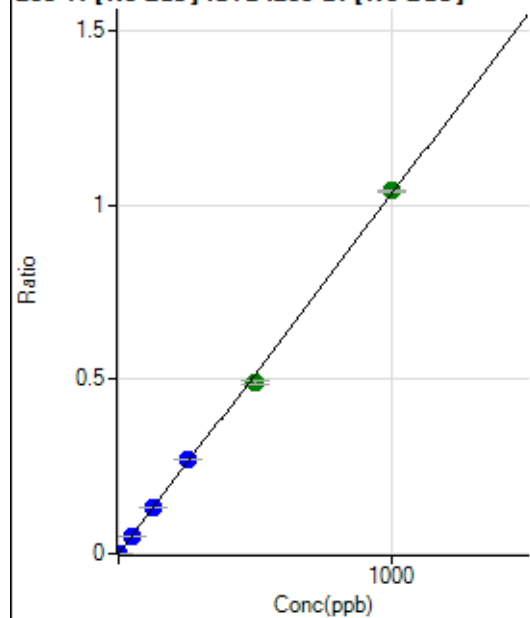
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 365.57 |       | P        | 9.2  |
| 2 | <input type="checkbox"/> |       |            | 386.68 |       | P        | 6.5  |
| 3 | <input type="checkbox"/> |       |            | 366.68 |       | P        | 11.1 |
| 4 | <input type="checkbox"/> |       |            | 381.12 |       | P        | 6.6  |
| 5 | <input type="checkbox"/> |       |            | 374.46 |       | P        | 16.9 |
| 6 | <input type="checkbox"/> |       |            | 366.68 |       | P        | 7.3  |
| 7 | <input type="checkbox"/> |       |            | 380.01 |       | P        | 4.6  |
| 8 | <input type="checkbox"/> |       |            | 377.79 |       | P        | 1.3  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 141.67 |       | P        | 11.8 |
| 2 | <input type="checkbox"/> |       |            | 141.67 |       | P        | 35.8 |
| 3 | <input type="checkbox"/> |       |            | 144.45 |       | P        | 6.7  |
| 4 | <input type="checkbox"/> |       |            | 138.90 |       | P        | 45.4 |
| 5 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 15.6 |
| 6 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 21.7 |
| 7 | <input type="checkbox"/> |       |            | 191.68 |       | P        | 19.9 |
| 8 | <input type="checkbox"/> |       |            | 144.45 |       | P        | 8.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 39.3 |
| 2 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 14.3 |
| 3 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 39.0 |
| 4 | <input type="checkbox"/> |       |            | 78.89  |       | P        | 2.4  |
| 5 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 25.0 |
| 6 | <input type="checkbox"/> |       |            | 78.89  |       | P        | 6.5  |
| 7 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 4.8  |
| 8 | <input type="checkbox"/> |       |            | 107.78 |       | P        | 21.7 |

**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      | 738.94      | 0.0000 | P        | 23.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.962      | 17534.48    | 0.0010 | P        | 5.8  |
| 3 | <input type="checkbox"/> | 50.000   | 49.973     | 894269.96   | 0.0517 | P        | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 126.974    | 2232622.25  | 0.1312 | P        | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 259.579    | 4492587.47  | 0.2681 | P        | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 477.001    | 8465237.78  | 0.4926 | A        | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1008.859   | 17034312.02 | 1.0419 | A        | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 20349.77    | 0.0015 | P        | 2.3  |

$$y = 0.0010 * x + 4.4118E-005$$

$$R = 0.9996$$

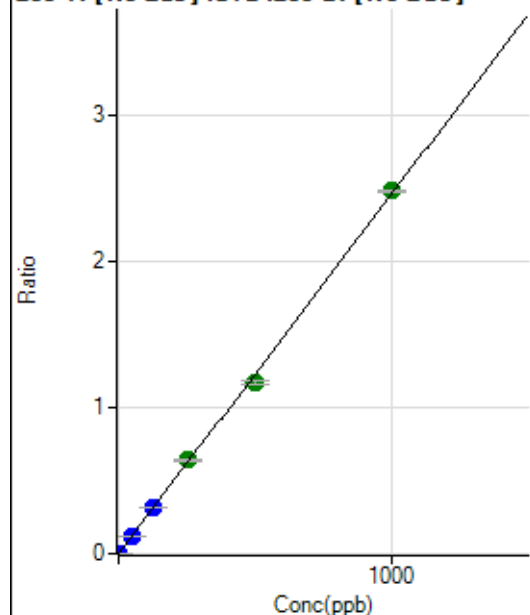
$$DL = 0.02984$$

$$BEC = 0.04272$$

Weight: &lt;None&gt;

Min Conc: 0

205 Tl [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      | 1747.42     | 0.0001 | P   | 13.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.953      | 41418.18    | 0.0025 | P   | 5.0  |
| 3 | <input type="checkbox"/> | 50.000   | 50.519     | 2155240.37  | 0.1245 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 126.788    | 5314900.07  | 0.3123 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 259.521    | 10708338.61 | 0.6391 | A   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 476.853    | 20176252.36 | 1.1741 | A   | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1008.944   | 40615056.81 | 2.4842 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 46797.51    | 0.0034 | P   | 2.1  |

$$y = 0.0025 * x + 1.0366E-004$$

$$R = 0.9996$$

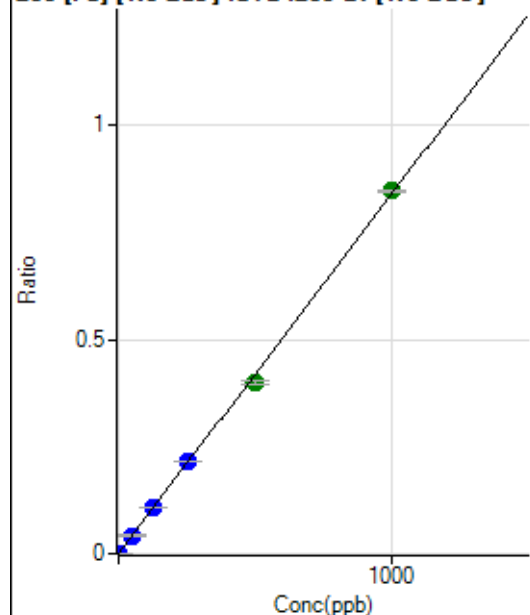
$$DL = 0.01733$$

$$BEC = 0.0421$$

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 | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1926.12     | 0.0001 | P   | 10.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.949      | 15381.48    | 0.0009 | P   | 4.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.651     | 737460.15   | 0.0426 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 127.017    | 1815105.74  | 0.1066 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 258.970    | 3641367.79  | 0.2173 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 475.967    | 6861465.49  | 0.3993 | A   | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.489   | 13844271.37 | 0.8468 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 62757.13    | 0.0046 | P   | 2.3  |

$$y = 8.3870E-004 * x + 1.1399E-004$$

$$R = 0.9995$$

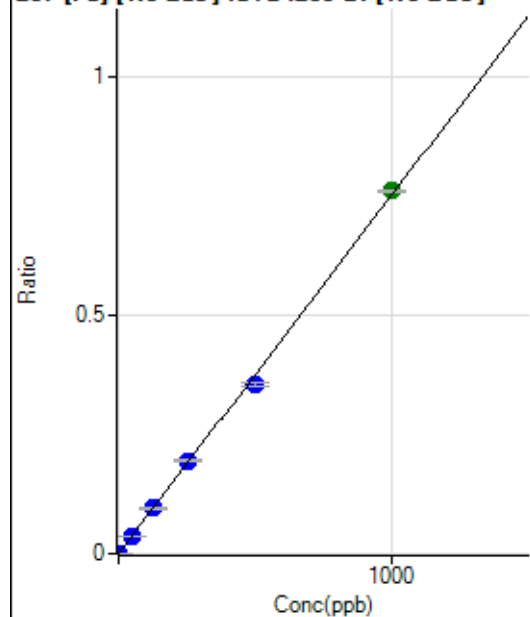
$$DL = 0.04299$$

$$BEC = 0.1359$$

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      | 1724.24     | 0.0001 | P   | 14.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.936      | 13636.95    | 0.0008 | P   | 3.9  |
| 3 | <input type="checkbox"/> | 50.000   | 50.282     | 656594.24   | 0.0379 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 126.354    | 1619397.61  | 0.0951 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 259.299    | 3269801.92  | 0.1951 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 470.054    | 6077087.41  | 0.3537 | P   | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1012.465   | 12452955.14 | 0.7617 | A   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 57775.77    | 0.0042 | P   | 1.8  |

$$y = 7.5219\text{E-}004 * x + 1.0240\text{E-}004$$

$$R = 0.9993$$

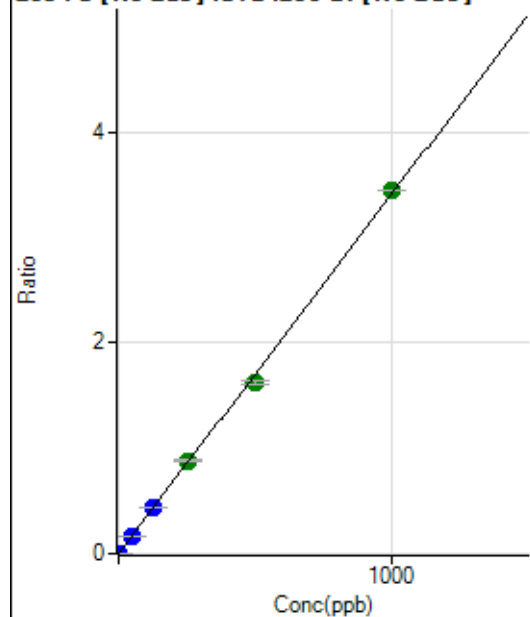
$$DL = 0.06085$$

$$BEC = 0.1361$$

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      | 7323.19     | 0.0004 | P   | 12.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.936      | 61257.95    | 0.0036 | P   | 4.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.549     | 2990550.30  | 0.1727 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 127.122    | 7382327.92  | 0.4337 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 259.029    | 14801297.15 | 0.8833 | A   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 475.097    | 27833424.53 | 1.6198 | A   | 2.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.902   | 56287566.77 | 3.4427 | A   | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 257429.04   | 0.0188 | P   | 2.2  |

$$y = 0.0034 * x + 4.3394\text{E-}004$$

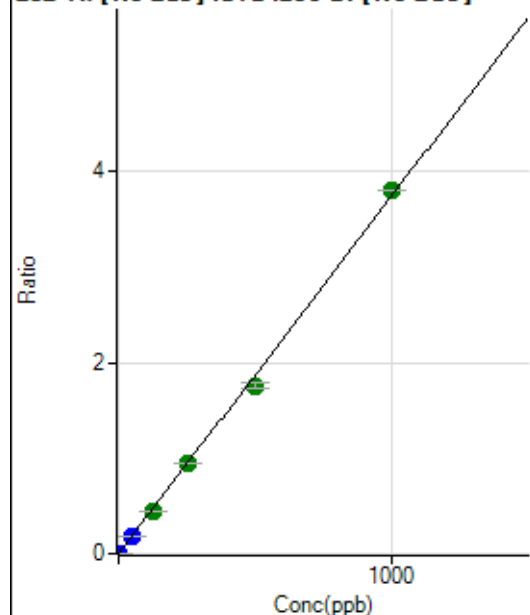
$$R = 0.9995$$

$$DL = 0.0462$$

$$BEC = 0.1273$$

Weight: &lt;None&gt;

Min Conc: 0

**232 Th [No Gas] ISTD :209 Bi [No Gas]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2241.00     | 0.0001 | P    | 5.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.721      | 47785.69    | 0.0028 | P    | 6.5 |
| 3 | <input type="checkbox"/> | 50.000   | 46.848     | 3035227.32  | 0.1753 | P    | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 119.686    | 7619721.29  | 0.4477 | A    | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 252.376    | 15814965.98 | 0.9438 | A    | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 470.358    | 30222042.34 | 1.7589 | A    | 2.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1015.049   | 62058360.18 | 3.7957 | A    | 0.1 |
| 8 | <input type="checkbox"/> |          |            | 17953.47    | 0.0013 | P    | 4.6 |

$$y = 0.0037 * x + 1.3204E-004$$

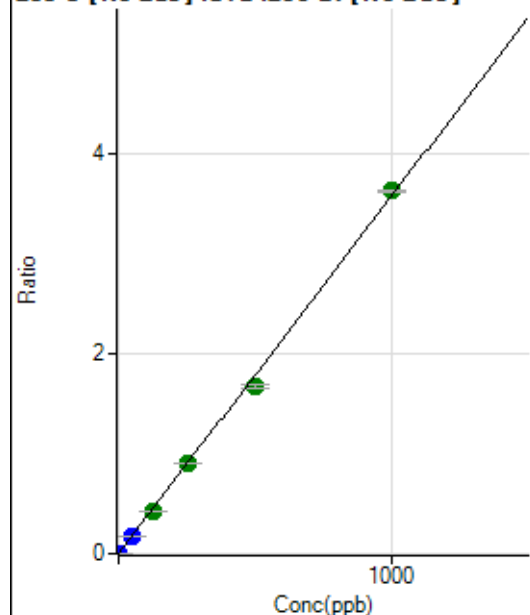
$$R = 0.9994$$

$$DL = 0.005847$$

$$BEC = 0.03531$$

Weight: &lt;None&gt;

Min Conc: 0

**238 U [No Gas] ISTD :209 Bi [No Gas]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2253.09     | 0.0001 | P    | 8.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.884      | 55569.52    | 0.0033 | P    | 3.9 |
| 3 | <input type="checkbox"/> | 50.000   | 47.586     | 2942120.10  | 0.1699 | P    | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 120.264    | 7306490.35  | 0.4293 | A    | 0.1 |
| 5 | <input type="checkbox"/> | 250.000  | 253.942    | 15185789.58 | 0.9063 | A    | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 469.899    | 28813135.37 | 1.6769 | A    | 2.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1014.778   | 59204650.63 | 3.6212 | A    | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 56677.25    | 0.0041 | P    | 1.9 |

$$y = 0.0036 * x + 1.3314E-004$$

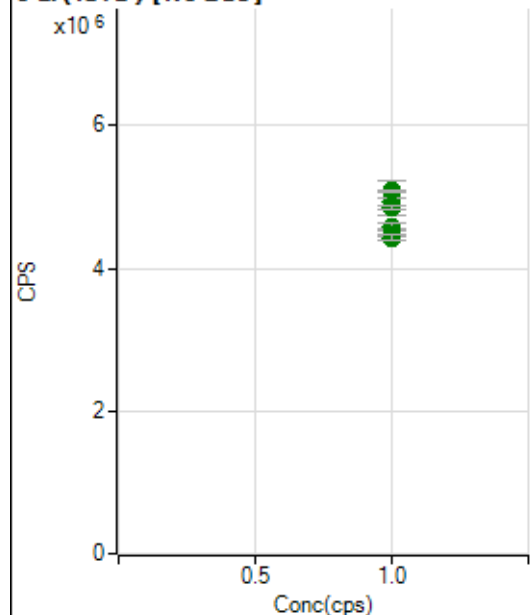
$$R = 0.9993$$

$$DL = 0.009743$$

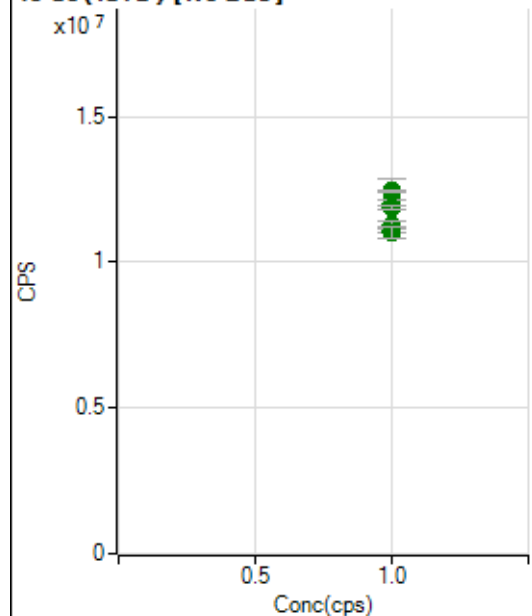
$$BEC = 0.03731$$

Weight: &lt;None&gt;

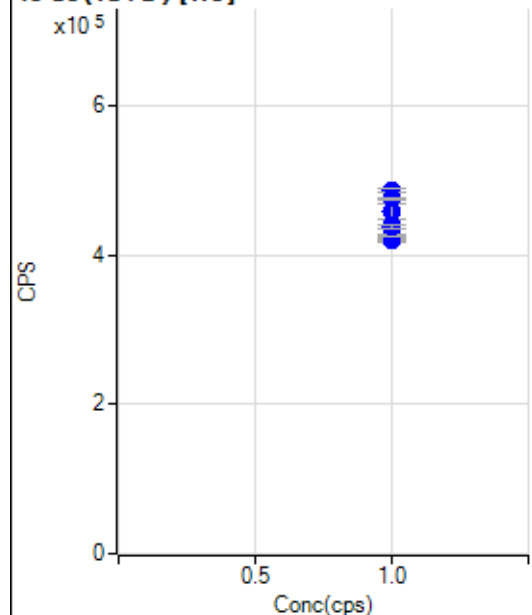
Min Conc: 0

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

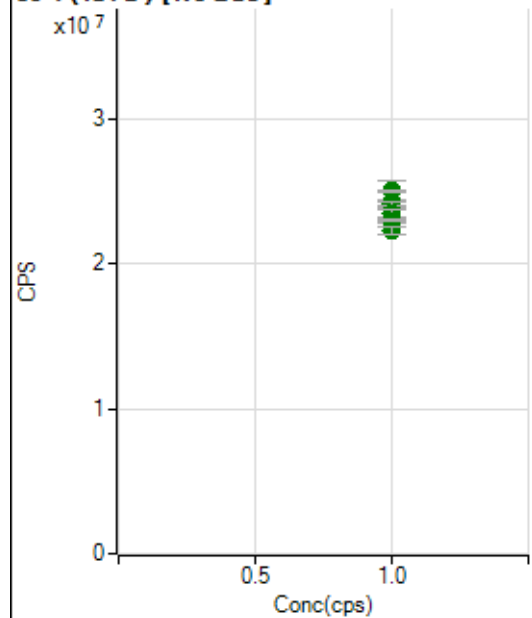
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4976443.95 |       | A        | 9.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4936591.21 |       | A        | 2.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5084178.53 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4849533.78 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4549445.63 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4582315.07 |       | A        | 2.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4462980.38 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4432392.68 |       | A        | 2.3 |

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

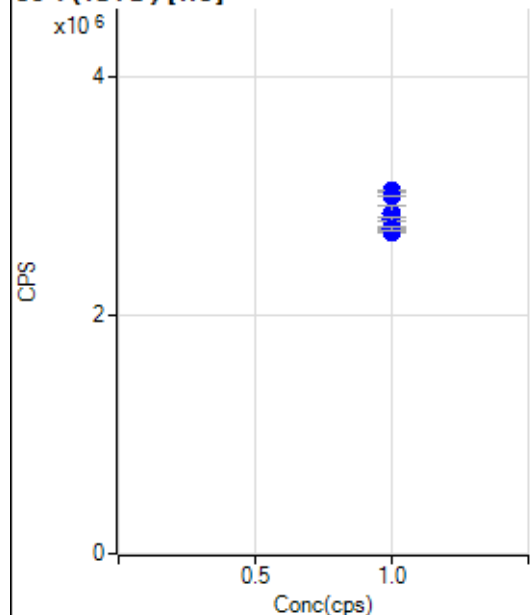
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 12113781.78 |       | A        | 12.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11976006.17 |       | A        | 3.0  |
| 3 | <input type="checkbox"/> | 1.000 |            | 12444202.45 |       | A        | 0.6  |
| 4 | <input type="checkbox"/> | 1.000 |            | 11883842.02 |       | A        | 0.9  |
| 5 | <input type="checkbox"/> | 1.000 |            | 11066656.50 |       | A        | 1.3  |
| 6 | <input type="checkbox"/> | 1.000 |            | 11268050.17 |       | A        | 2.3  |
| 7 | <input type="checkbox"/> | 1.000 |            | 11013921.69 |       | A        | 0.6  |
| 8 | <input type="checkbox"/> | 1.000 |            | 11009696.34 |       | A        | 3.1  |

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

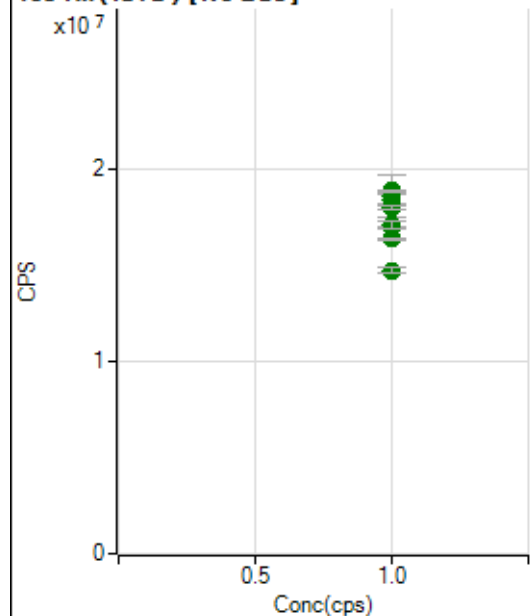
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 458808.76 |       | P        | 4.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 486662.26 |       | P        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 475977.52 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 441130.18 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 419911.29 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 423767.76 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 427005.91 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 439138.17 |       | P        | 1.1 |

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

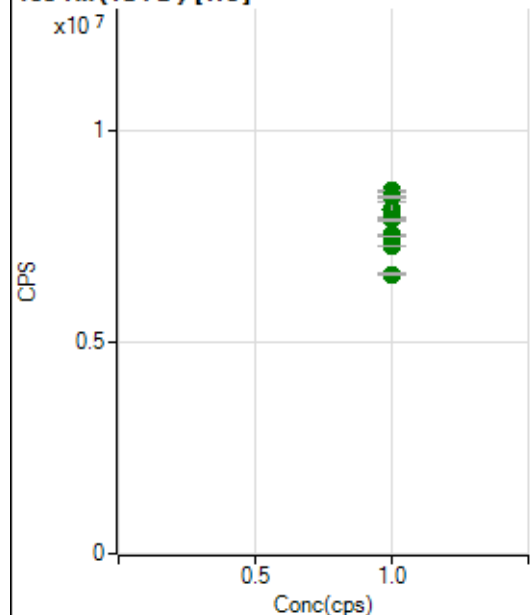
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 24276103.80 |       | A        | 12.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 24139169.08 |       | A        | 2.5  |
| 3 | <input type="checkbox"/> | 1.000 |            | 25051374.35 |       | A        | 0.3  |
| 4 | <input type="checkbox"/> | 1.000 |            | 24207594.64 |       | A        | 1.1  |
| 5 | <input type="checkbox"/> | 1.000 |            | 23081683.55 |       | A        | 0.7  |
| 6 | <input type="checkbox"/> | 1.000 |            | 23542064.65 |       | A        | 2.3  |
| 7 | <input type="checkbox"/> | 1.000 |            | 23015404.66 |       | A        | 0.6  |
| 8 | <input type="checkbox"/> | 1.000 |            | 22284918.28 |       | A        | 2.4  |

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

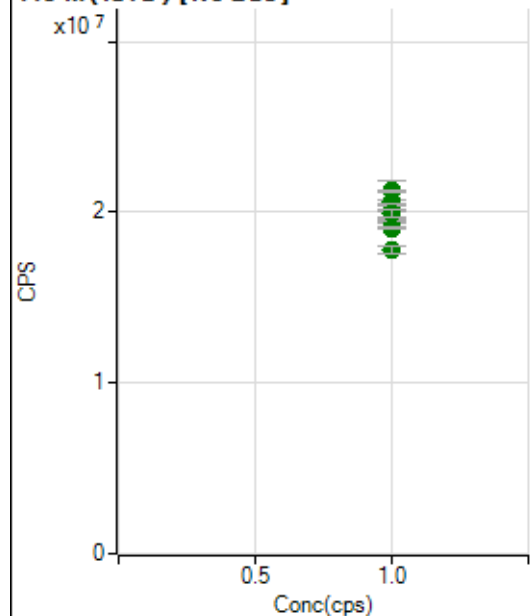
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2848770.90 |       | P        | 4.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3037531.21 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2993206.76 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2802753.22 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2692950.44 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2719970.62 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2714654.19 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2724421.35 |       | P        | 0.9 |

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

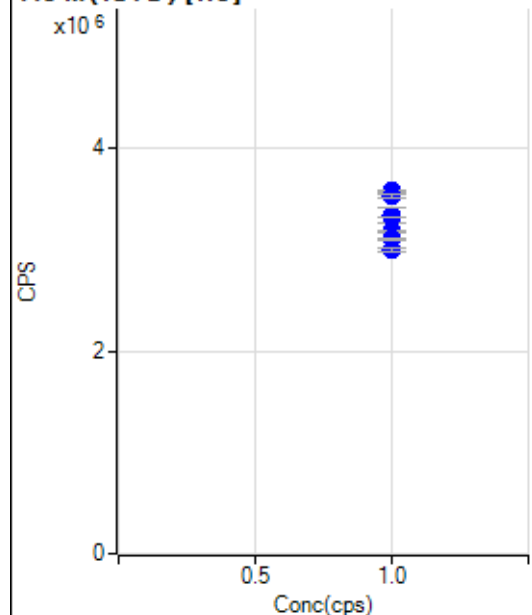
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 18612811.18 |       | A        | 11.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 18460353.19 |       | A        | 3.0  |
| 3 | <input type="checkbox"/> | 1.000 |            | 18902111.19 |       | A        | 0.8  |
| 4 | <input type="checkbox"/> | 1.000 |            | 18050613.60 |       | A        | 1.2  |
| 5 | <input type="checkbox"/> | 1.000 |            | 16988463.05 |       | A        | 1.0  |
| 6 | <input type="checkbox"/> | 1.000 |            | 17139209.23 |       | A        | 2.7  |
| 7 | <input type="checkbox"/> | 1.000 |            | 16388198.98 |       | A        | 0.6  |
| 8 | <input type="checkbox"/> | 1.000 |            | 14767029.67 |       | A        | 2.3  |

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

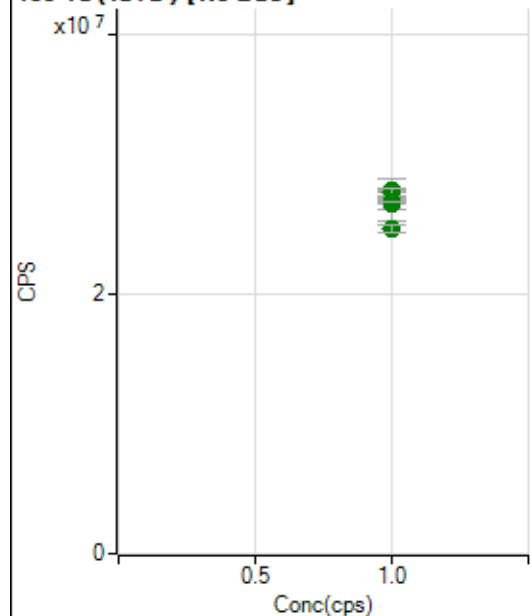
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8146167.52 |       | A        | 4.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8587604.18 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8457488.28 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7904924.67 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7551148.29 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7504074.12 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7273495.17 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6610444.70 |       | A        | 0.8 |

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

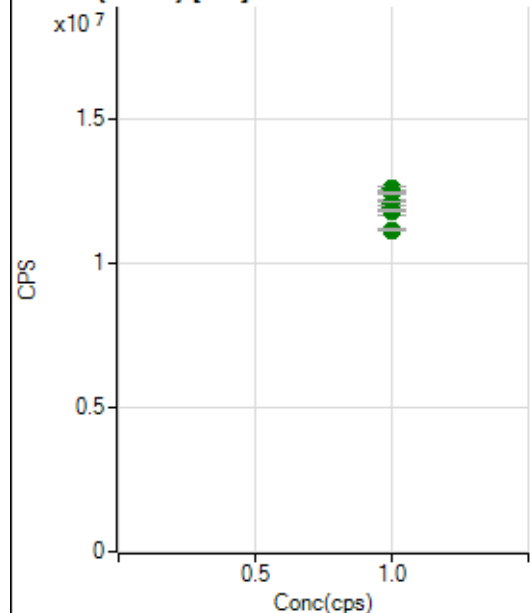
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 20624882.69 |       | A        | 12.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 20371067.27 |       | A        | 3.1  |
| 3 | <input type="checkbox"/> | 1.000 |            | 21240090.02 |       | A        | 0.4  |
| 4 | <input type="checkbox"/> | 1.000 |            | 20460920.75 |       | A        | 0.3  |
| 5 | <input type="checkbox"/> | 1.000 |            | 19558563.90 |       | A        | 0.7  |
| 6 | <input type="checkbox"/> | 1.000 |            | 19930525.46 |       | A        | 2.5  |
| 7 | <input type="checkbox"/> | 1.000 |            | 19034383.83 |       | A        | 0.5  |
| 8 | <input type="checkbox"/> | 1.000 |            | 17837542.96 |       | A        | 2.5  |

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

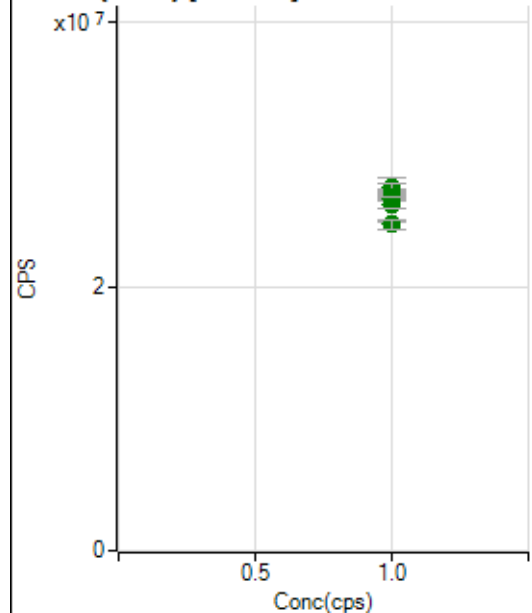
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3338223.38 |       | P        | 4.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3579870.37 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3528836.04 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3319070.04 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3184695.63 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3179808.09 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3104093.72 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2998024.87 |       | P        | 0.9 |

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

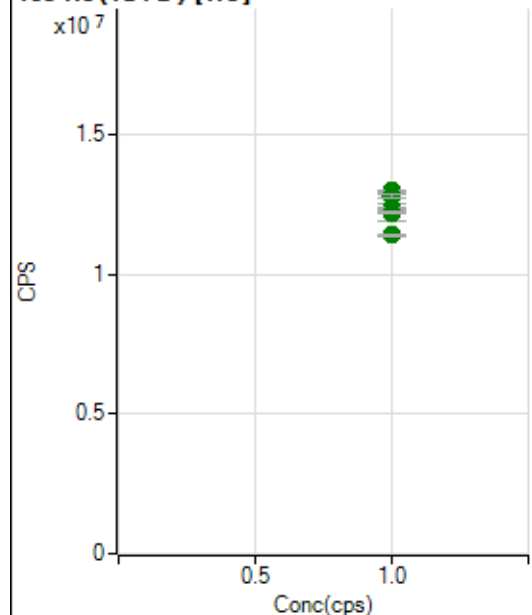
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 27294005.43 |       | A        | 12.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 26904976.54 |       | A        | 2.4  |
| 3 | <input type="checkbox"/> | 1.000 |            | 27963919.30 |       | A        | 0.3  |
| 4 | <input type="checkbox"/> | 1.000 |            | 27534956.26 |       | A        | 0.6  |
| 5 | <input type="checkbox"/> | 1.000 |            | 27031170.43 |       | A        | 0.9  |
| 6 | <input type="checkbox"/> | 1.000 |            | 27867237.92 |       | A        | 2.3  |
| 7 | <input type="checkbox"/> | 1.000 |            | 27118223.76 |       | A        | 0.4  |
| 8 | <input type="checkbox"/> | 1.000 |            | 25074865.18 |       | A        | 2.5  |

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

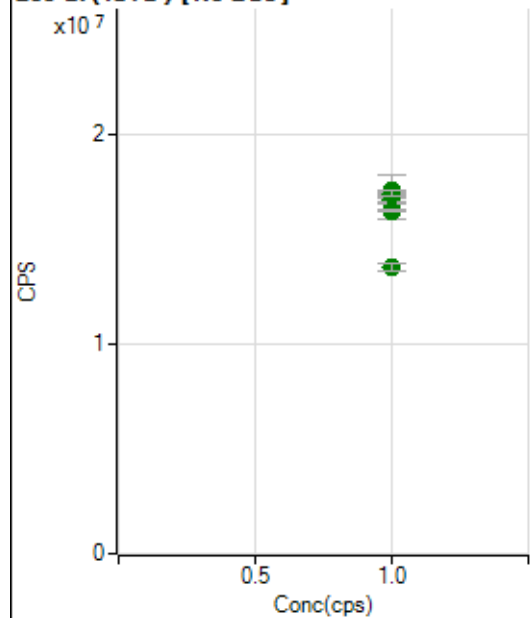
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11909981.63 |       | A        | 4.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12567555.92 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12437531.07 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11978505.65 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11810287.74 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12050827.18 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11815114.96 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11133301.50 |       | A        | 0.7 |

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

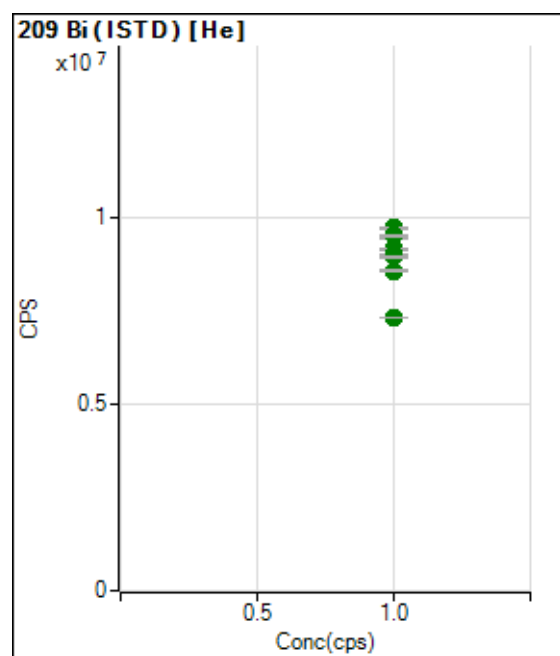
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 26556072.30 |       | A        | 12.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 26254343.99 |       | A        | 2.7  |
| 3 | <input type="checkbox"/> | 1.000 |            | 27288561.89 |       | A        | 0.6  |
| 4 | <input type="checkbox"/> | 1.000 |            | 26976942.62 |       | A        | 0.2  |
| 5 | <input type="checkbox"/> | 1.000 |            | 26630556.67 |       | A        | 0.7  |
| 6 | <input type="checkbox"/> | 1.000 |            | 27449967.63 |       | A        | 2.4  |
| 7 | <input type="checkbox"/> | 1.000 |            | 26754700.25 |       | A        | 0.4  |
| 8 | <input type="checkbox"/> | 1.000 |            | 24665972.43 |       | A        | 3.1  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12253297.73 |       | A        | 4.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13010654.67 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12829105.23 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12371206.62 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12254652.45 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12414952.73 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12230543.15 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11429384.00 |       | A        | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 17043373.50 |       | A        | 12.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 16916910.58 |       | A        | 2.8  |
| 3 | <input type="checkbox"/> | 1.000 |            | 17313459.60 |       | A        | 0.2  |
| 4 | <input type="checkbox"/> | 1.000 |            | 17020667.11 |       | A        | 0.4  |
| 5 | <input type="checkbox"/> | 1.000 |            | 16756474.47 |       | A        | 0.7  |
| 6 | <input type="checkbox"/> | 1.000 |            | 17187797.52 |       | A        | 1.9  |
| 7 | <input type="checkbox"/> | 1.000 |            | 16349708.50 |       | A        | 0.4  |
| 8 | <input type="checkbox"/> | 1.000 |            | 13673521.19 |       | A        | 2.9  |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9199831.95 |       | A        | 5.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9745028.74 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9539014.23 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9172008.33 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9023286.25 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8971196.81 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8587305.43 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7331456.63 |       | A        | 0.4 |

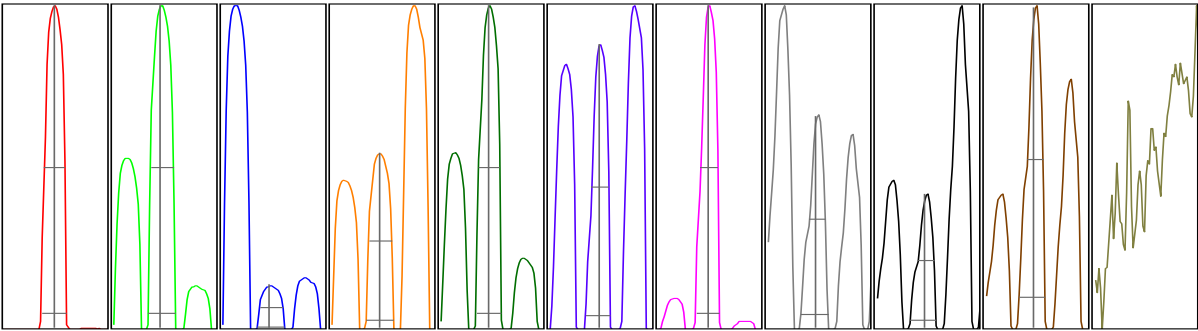
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7122019MS.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |        |          |            |        |
|----------|--------|----------|------------|--------|
| Mass     | Count  | RSD%     | RSD%       | RSD%   |
|          | (Mean) | (Actual) | (Required) | (Flag) |
| 9        | 12818  | 0.68     | 5.00       |        |
| 24       | 165670 | 0.73     | 5.00       |        |
| 25       | 22458  | 0.74     | 5.00       |        |
| 26       | 26380  | 0.74     | 5.00       |        |
| 59       | 130246 | 0.83     | 5.00       |        |
| 113      | 18283  | 0.69     | 5.00       |        |
| 115      | 217358 | 0.66     | 5.00       |        |
| 206      | 52870  | 0.68     | 5.00       |        |
| 207      | 49030  | 0.74     | 5.00       |        |
| 208      | 114297 | 0.49     | 5.00       |        |
| 220      | 103    | 3.13     |            |        |

|      | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 |
|------|-------------|-------------|-------------|-------------|-------------|
| Mass | Count       | Count       | Count       | Count       | Count       |
| 9    | 12824       | 12734       | 12842       | 12948       | 12740       |
| 24   | 166171      | 164654      | 165731      | 167397      | 164397      |
| 25   | 22461       | 22304       | 22497       | 22711       | 22316       |
| 26   | 26403       | 26212       | 26382       | 26688       | 26213       |
| 59   | 130738      | 129182      | 130553      | 131644      | 129113      |
| 113  | 18274       | 18280       | 18237       | 18484       | 18138       |
| 115  | 218125      | 216797      | 217507      | 219075      | 215286      |
| 206  | 53245       | 52648       | 52620       | 53276       | 52561       |
| 207  | 49051       | 48725       | 48877       | 49647       | 48848       |
| 208  | 114423      | 113832      | 113977      | 115219      | 114033      |
| 220  | 106         | 104         | 105         | 98          | 102         |

Integration Time [sec] = 0.1



| Mass | Peak Height | Axis (Actual) | Axis (Required) | Axis (Flag) | Width-X% (Actual) | Width-X% (Required) | Width-X% (Flag) |
|------|-------------|---------------|-----------------|-------------|-------------------|---------------------|-----------------|
| 9    | 21611       | 9.00          | 8.9 - 9.1       |             | 0.742             | 0.900               |                 |
| 24   | 261723      | 23.90         | 23.9 - 24.1     |             | 0.789             | 0.900               |                 |
| 25   | 35064       | 24.90         | 24.9 - 25.1     |             | 0.792             | 0.900               |                 |
| 26   | 41325       | 25.95         | 25.9 - 26.1     |             | 0.792             | 0.900               |                 |
| 59   | 222530      | 58.95         | 58.9 - 59.1     |             | 0.741             | 0.900               |                 |
| 113  | 35625       | 113.00        | 112.9 - 113.1   |             | 0.718             | 0.900               |                 |
| 115  | 423596      | 115.00        | 114.9 - 115.1   |             | 0.691             | 0.900               |                 |
| 206  | 106140      | 205.95        | 205.9 - 206.1   |             | 0.784             | 0.900               |                 |
| 207  | 96764       | 206.95        | 206.9 - 207.1   |             | 0.736             | 0.900               |                 |
| 208  | 230861      | 207.95        | 207.9 - 208.1   |             | 0.746             | 0.900               |                 |
| 220  |             |               | -               |             |                   |                     |                 |

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    | 6.9   | V    | Deflect       | 13.4  | V    |
| Extract 2     | -120.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -60    | 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       | 180   | V    |                       |       |       |

[He]

| Mass | Count  | RSD%     | RSD%       |
|------|--------|----------|------------|
|      | (Mean) | (Actual) | (Required) |
| 59   | 32004  | 0.51     |            |
| 89   | 10506  | 0.48     |            |
| 205  | 45209  | 0.33     |            |

|      | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 |
|------|-------------|-------------|-------------|-------------|-------------|
| Mass | Count       | Count       | Count       | Count       | Count       |
| 59   | 32000       | 32243       | 31820       | 31889       | 32068       |
| 89   | 10487       | 10566       | 10441       | 10490       | 10547       |
| 205  | 45197       | 45443       | 45103       | 45066       | 45236       |

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    | 7.4   | V    | Deflect       | 1.8   | V    |
| Extract 2     | -125.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -65    | 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    |                       |       |       |