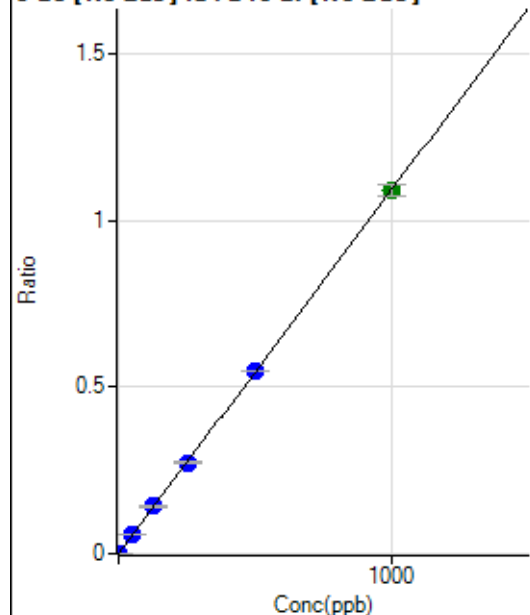


Batch Folder: D:\P8100617MS.b\  
Analysis File: P8100617MS.batch.bin  
DA Date-Time: 2017-10-06 14:39:46  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2017-10-06 11:46:43 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2017-10-06 11:53:44 |
| 4     | 006CALS.d          | S03         | 2017-10-06 11:57:14 |
| 5     | 007CALS.d          | S04         | 2017-10-06 12:00:42 |
| 6     | 008CALS.d          | S05         | 2017-10-06 12:04:06 |
| 7     | 009CALS.d          | S06         | 2017-10-06 12:07:23 |
| 8     | 010CALS.d          | S07         | 2017-10-06 12:10:39 |
| 9     | 011CALS.d          | S08         | 2017-10-06 12:13:48 |

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0000 | P    | 52.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.985      | 1183.42    | 0.0011 | P    | 10.4 |
| 4 | <input type="checkbox"/> | 50.000   | 52.891     | 65735.22   | 0.0577 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 131.621    | 164007.59  | 0.1436 | P    | 3.2  |
| 6 | <input type="checkbox"/> | 250.000  | 251.069    | 319957.31  | 0.2740 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 502.176    | 626524.99  | 0.5480 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.673    | 1231216.00 | 1.0886 | A    | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 218.53     | 0.0002 | P    | 22.7 |

$$y = 0.0011 * x + 2.4826E-005$$

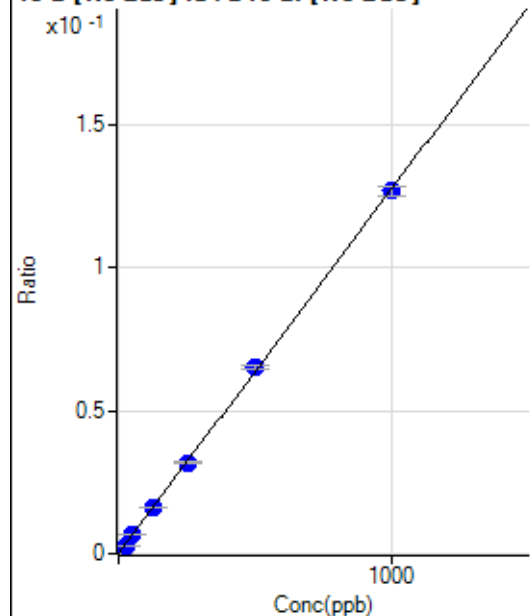
$$R = 1.0000$$

$$DL = 0.03601$$

$$BEC = 0.02275$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 88.89     | 0.0001 | P    | 42.6 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 25.000   | 22.768     | 3211.61   | 0.0030 | P    | 2.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.359     | 7393.90   | 0.0065 | P    | 1.6  |
| 5 | <input type="checkbox"/> | 125.000  | 124.088    | 18139.80  | 0.0159 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 248.863    | 37104.66  | 0.0318 | P    | 2.6  |
| 7 | <input type="checkbox"/> | 500.000  | 510.422    | 74398.76  | 0.0651 | P    | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.225    | 143425.66 | 0.1268 | P    | 2.8  |
| 9 | <input type="checkbox"/> |          |            | 5501.28   | 0.0050 | P    | 11.6 |

$$y = 1.2734E-004 * x + 7.9544E-005$$

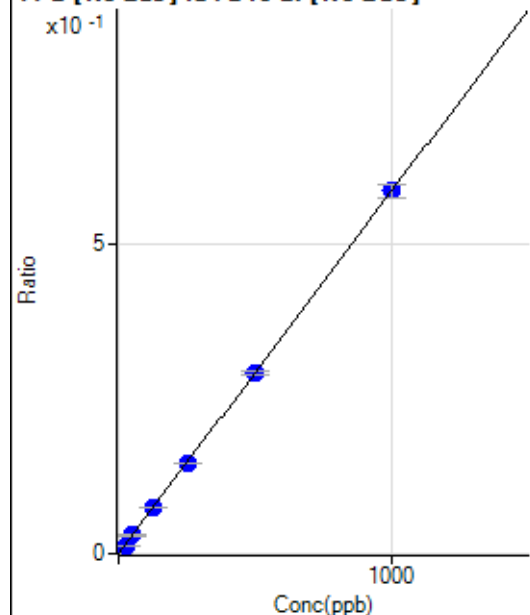
$$R = 0.9999$$

$$DL = 0.7991$$

$$BEC = 0.6247$$

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      | 380.58    | 0.0003 | P    | 17.1 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 25.000   | 22.138     | 14346.65  | 0.0133 | P    | 5.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.566     | 34130.41  | 0.0300 | P    | 3.1  |
| 5 | <input type="checkbox"/> | 125.000  | 127.709    | 85912.43  | 0.0752 | P    | 1.7  |
| 6 | <input type="checkbox"/> | 250.000  | 248.989    | 170889.02 | 0.1463 | P    | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 497.537    | 333885.51 | 0.2921 | P    | 2.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.189   | 664238.78 | 0.5874 | P    | 3.6  |
| 9 | <input type="checkbox"/> |          |            | 24488.58  | 0.0221 | P    | 10.1 |

$$y = 5.8632\text{E-}004 * x + 3.4008\text{E-}004$$

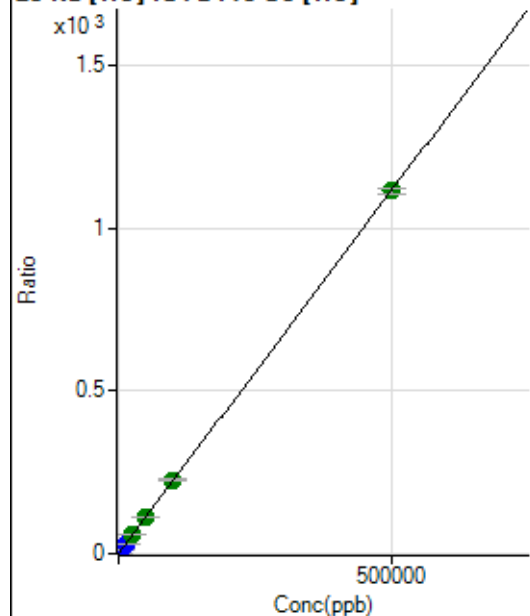
$$R = 1.0000$$

$$DL = 0.2979$$

$$BEC = 0.58$$

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      | 11663.64    | 0.3626    | P    | 6.3 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |           |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 440.044    | 45512.68    | 1.3451    | P    | 1.7 |
| 4 | <input type="checkbox"/> | 5000.000  | 5131.120   | 408578.65   | 11.8190   | P    | 1.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 13032.467  | 992779.56   | 29.4606   | P    | 1.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 25923.711  | 1935762.61  | 58.2433   | A    | 0.2 |
| 7 | <input type="checkbox"/> | 50000.000 | 50522.519  | 3616702.82  | 113.1658  | A    | 0.5 |
| 8 | <input type="checkbox"/> | 100000.00 | 101698.15  | 7172368.91  | 227.4272  | A    | 3.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 499547.36  | 37731072.37 | 1,115.717 | A    | 1.4 |

$$y = 0.0022 * x + 0.3626$$

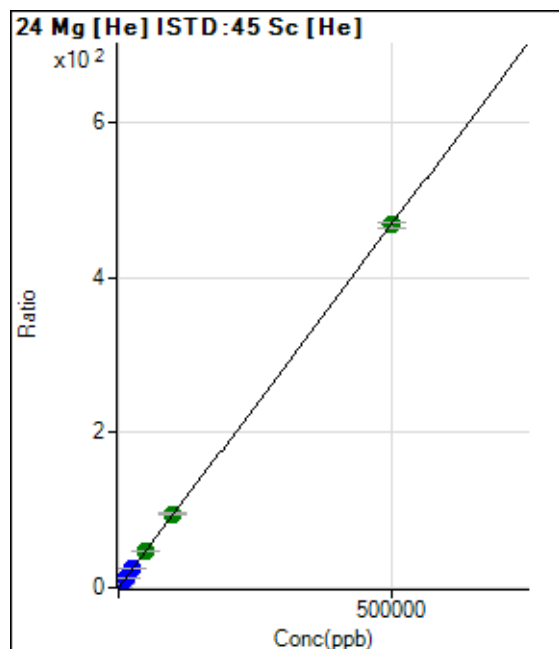
$$R = 1.0000$$

$$DL = 30.55$$

$$BEC = 162.4$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 88.89       | 0.0027   | P    | 22.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 452.986    | 14469.05    | 0.4276   | P    | 1.1  |
| 4 | <input type="checkbox"/> | 5000.000  | 5099.210   | 165448.31   | 4.7858   | P    | 0.6  |
| 5 | <input type="checkbox"/> | 12500.000 | 13030.050  | 411955.72   | 12.2249  | P    | 1.8  |
| 6 | <input type="checkbox"/> | 25000.000 | 25646.155  | 799587.28   | 24.0589  | P    | 1.0  |
| 7 | <input type="checkbox"/> | 50000.000 | 50953.885  | 1527588.93  | 47.7976  | A    | 0.2  |
| 8 | <input type="checkbox"/> | 100000.00 | 101744.38  | 3010345.27  | 95.4392  | A    | 2.7  |
| 9 | <input type="checkbox"/> | 500000.00 | 499509.23  | 15844982.47 | 468.5436 | A    | 1.6  |

$$y = 9.3800\text{E-}004 * x + 0.0027$$

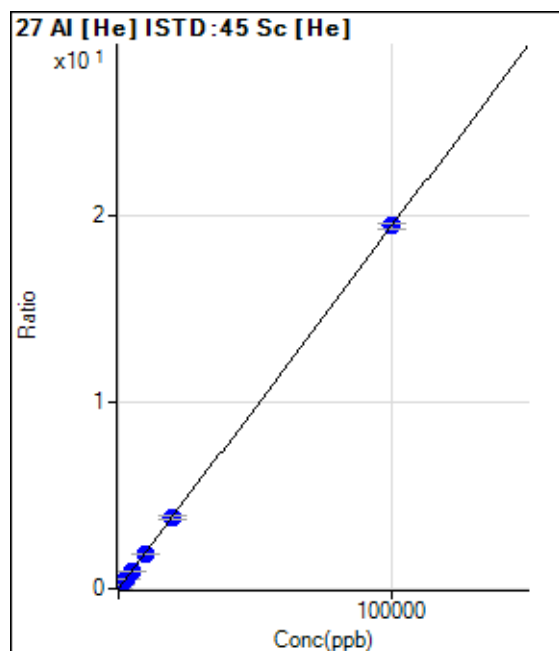
$$R = 1.0000$$

$$DL = 1.92$$

$$BEC = 2.91$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-----------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 5.55      | 0.0002  | P    | 86.7 |
| 2 | <input type="checkbox"/> | 2.000     |            |           |         |      |      |
| 3 | <input type="checkbox"/> | 20.000    | 24.563     | 166.68    | 0.0049  | P    | 30.3 |
| 4 | <input type="checkbox"/> | 1000.000  | 983.673    | 6596.26   | 0.1908  | P    | 4.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2529.720   | 16524.10  | 0.4904  | P    | 2.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 4899.905   | 31563.73  | 0.9497  | P    | 0.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9548.331   | 59143.50  | 1.8505  | P    | 1.4  |
| 8 | <input type="checkbox"/> | 20000.000 | 19577.604  | 119650.81 | 3.7940  | P    | 3.4  |
| 9 | <input type="checkbox"/> | 100000.00 | 100134.07  | 656213.70 | 19.4044 | P    | 1.5  |

$$y = 1.9378\text{E-}004 * x + 1.6547\text{E-}004$$

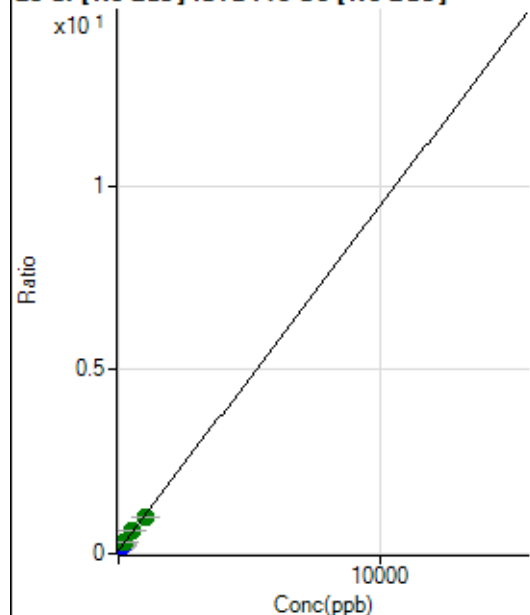
$$R = 1.0000$$

$$DL = 2.22$$

$$BEC = 0.8539$$

Weight: &lt;None&gt;

Min Conc: 0

**28 Si [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      | 365042.97  | 0.0907 | P    | 0.7 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 10.000   | 18.629     | 422782.26  | 0.1082 | P    | 3.8 |
| 4 | <input type="checkbox"/> | 50.000   | 59.483     | 612772.22  | 0.1466 | P    | 2.9 |
| 5 | <input type="checkbox"/> | 125.000  | 153.213    | 977232.89  | 0.2345 | P    | 2.8 |
| 6 | <input type="checkbox"/> | 250.000  | 260.291    | 1429499.84 | 0.3351 | A    | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 570.007    | 2598908.02 | 0.6258 | A    | 1.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 958.336    | 4182516.85 | 0.9904 | A    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 368769.36  | 0.0880 | P    | 0.2 |

$$y = 9.3876\text{E-}004 * x + 0.0907$$

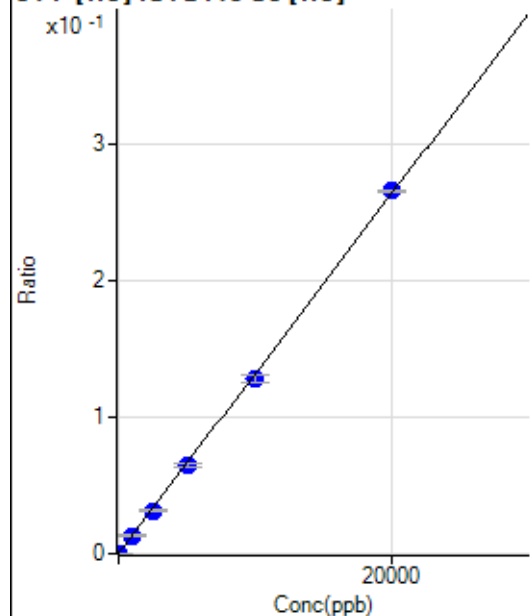
$$R = 0.9960$$

$$DL = 1.979$$

$$BEC = 96.64$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS     | Ratio  | Det. | RSD   |
|---|--------------------------|-----------|------------|---------|--------|------|-------|
| 1 | <input type="checkbox"/> | 0.000     | -5.694     | 5.55    | 0.0002 | P    | 86.9  |
| 2 | <input type="checkbox"/> | 0.000     |            |         |        |      |       |
| 3 | <input type="checkbox"/> | 0.000     | 5.694      | 11.11   | 0.0003 | P    | 114.5 |
| 4 | <input type="checkbox"/> | 1000.000  | 986.973    | 458.36  | 0.0133 | P    | 7.7   |
| 5 | <input type="checkbox"/> | 2500.000  | 2371.718   | 1061.20 | 0.0315 | P    | 6.5   |
| 6 | <input type="checkbox"/> | 5000.000  | 4897.004   | 2153.04 | 0.0648 | P    | 3.9   |
| 7 | <input type="checkbox"/> | 10000.000 | 9743.764   | 4111.90 | 0.1286 | P    | 4.3   |
| 8 | <input type="checkbox"/> | 20000.000 | 20170.553  | 8394.50 | 0.2660 | P    | 0.9   |
| 9 | <input type="checkbox"/> |           |            | 11.11   | 0.0003 | P    | 86.6  |

$$y = 1.3176\text{E-}005 * x + 2.5319\text{E-}004$$

$$R = 0.9999$$

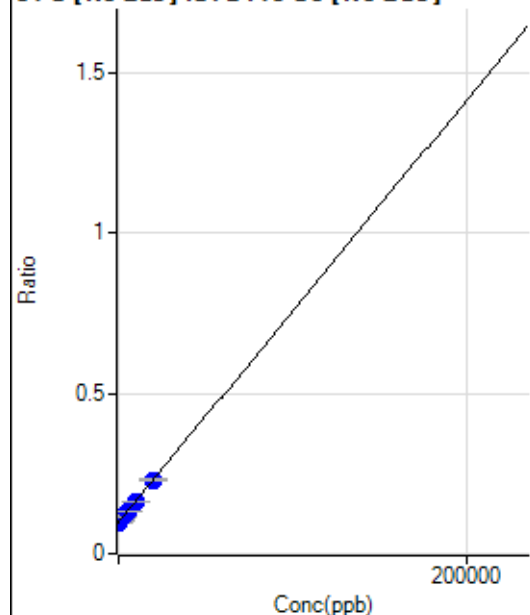
$$DL = 60.43$$

$$BEC = 19.22$$

Weight: &lt;None&gt;

Min Conc: 0

34 S [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     | -196.947   | 390693.87 | 0.0971 | P    | 0.7 |
| 2 | <input type="checkbox"/> | 0.000     |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 0.000     | 196.947    | 389531.45 | 0.0997 | P    | 3.1 |
| 4 | <input type="checkbox"/> | 1000.000  | 1011.890   | 439094.43 | 0.1050 | P    | 3.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2784.408   | 486097.84 | 0.1167 | P    | 2.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 4875.120   | 556307.07 | 0.1304 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 10000.000 | 9931.944   | 679463.56 | 0.1636 | P    | 0.7 |
| 8 | <input type="checkbox"/> | 20000.000 | 20029.102  | 970908.23 | 0.2299 | P    | 0.7 |
| 9 | <input type="checkbox"/> |           |            | 376696.80 | 0.0899 | P    | 1.0 |

$$y = 6.5658\text{E-}006 * x + 0.0984$$

$$R = 0.9997$$

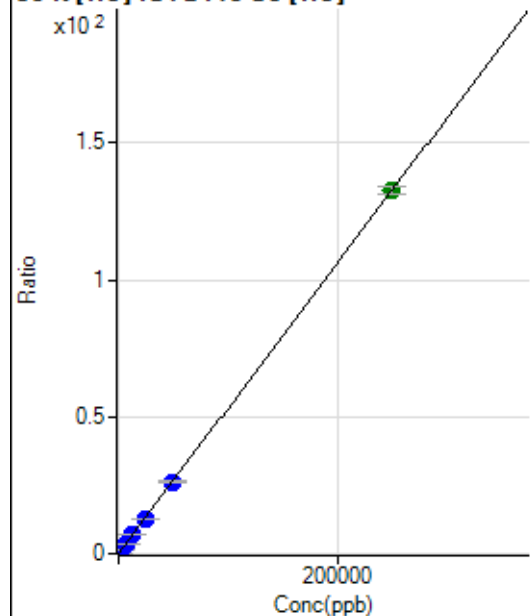
$$DL = 858.7$$

$$BEC = 1.498\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

39 K [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      | 2519.79    | 0.0786   | P    | 13.2 |
| 2 | <input type="checkbox"/> | 50.000    |            |            |          |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 438.120    | 10501.60   | 0.3104   | P    | 2.5  |
| 4 | <input type="checkbox"/> | 2500.000  | 2497.545   | 48389.77   | 1.3998   | P    | 1.7  |
| 5 | <input type="checkbox"/> | 6250.000  | 6354.133   | 115927.20  | 3.4400   | P    | 1.5  |
| 6 | <input type="checkbox"/> | 12500.000 | 12594.436  | 224056.34  | 6.7412   | P    | 0.5  |
| 7 | <input type="checkbox"/> | 25000.000 | 24264.685  | 412756.34  | 12.9149  | P    | 0.3  |
| 8 | <input type="checkbox"/> | 50000.000 | 49557.643  | 829378.41  | 26.2951  | P    | 2.7  |
| 9 | <input type="checkbox"/> | 250000.00 | 250154.82  | 4477483.09 | 132.4130 | A    | 2.3  |

$$y = 5.2901\text{E-}004 * x + 0.0786$$

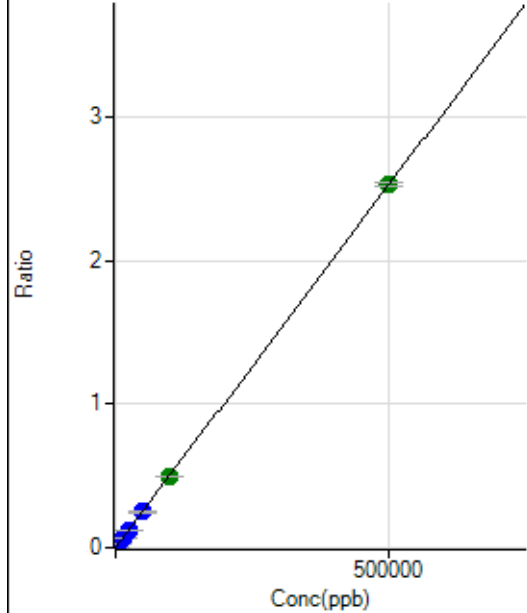
$$R = 1.0000$$

$$DL = 58.68$$

$$BEC = 148.6$$

Weight: &lt;None&gt;

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      | 1750.19     | 0.0004 | P    | 1.6 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 444.787    | 10496.07    | 0.0027 | P    | 5.0 |
| 4 | <input type="checkbox"/> | 5000.000  | 4975.796   | 106978.15   | 0.0256 | P    | 3.9 |
| 5 | <input type="checkbox"/> | 12500.000 | 12478.363  | 264594.74   | 0.0635 | P    | 3.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 24298.036  | 525931.14   | 0.1233 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 50000.000 | 49286.840  | 1036619.75  | 0.2496 | P    | 1.3 |
| 8 | <input type="checkbox"/> | 100000.00 | 98045.607  | 2095159.40  | 0.4961 | A    | 1.1 |
| 9 | <input type="checkbox"/> | 500000.00 | 500498.13  | 10600931.48 | 2.5308 | A    | 1.0 |

$$y = 5.0556\text{E-}006 * x + 4.3495\text{E-}004$$

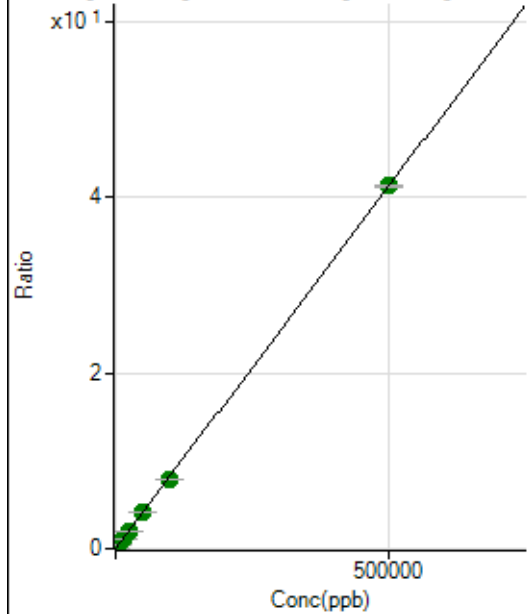
$$R = 1.0000$$

$$DL = 4.071$$

$$BEC = 86.03$$

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      | 17781.55    | 0.0044  | P    | 5.3 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 446.592    | 161247.90   | 0.0413  | P    | 2.5 |
| 4 | <input type="checkbox"/> | 5000.000  | 5020.780   | 1750160.00  | 0.4186  | A    | 2.8 |
| 5 | <input type="checkbox"/> | 12500.000 | 12486.199  | 4309343.63  | 1.0344  | A    | 3.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 24200.352  | 8535791.34  | 2.0007  | A    | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 49429.466  | 16952157.67 | 4.0818  | A    | 1.0 |
| 8 | <input type="checkbox"/> | 100000.00 | 96301.185  | 33567303.53 | 7.9483  | A    | 0.6 |
| 9 | <input type="checkbox"/> | 500000.00 | 500836.98  | 173077805.2 | 41.3183 | A    | 0.6 |

$$y = 8.2490\text{E-}005 * x + 0.0044$$

$$R = 1.0000$$

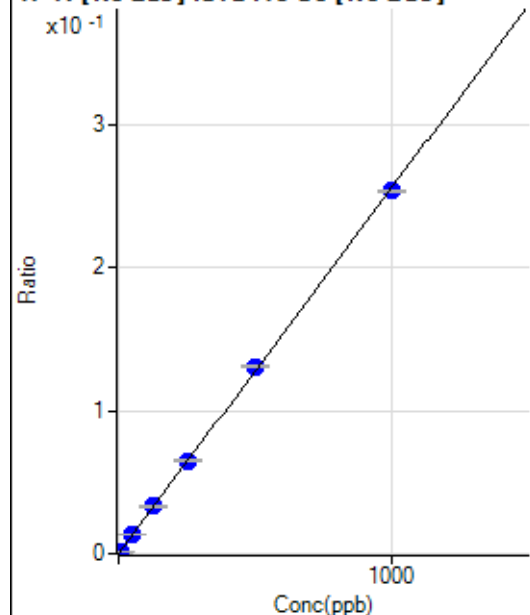
$$DL = 8.573$$

$$BEC = 53.58$$

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      | 186.12     | 0.0000 | P    | 25.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.660      | 4842.73    | 0.0012 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 51.629     | 55438.47   | 0.0133 | P    | 3.1  |
| 5 | <input type="checkbox"/> | 125.000  | 130.730    | 139538.68  | 0.0335 | P    | 4.4  |
| 6 | <input type="checkbox"/> | 250.000  | 254.266    | 277802.02  | 0.0651 | P    | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 511.296    | 543624.58  | 0.1309 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.490    | 1072857.59 | 0.2540 | P    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 1096.51    | 0.0003 | P    | 71.9 |

$$y = 2.5592E-004 * x + 4.6244E-005$$

$$R = 0.9999$$

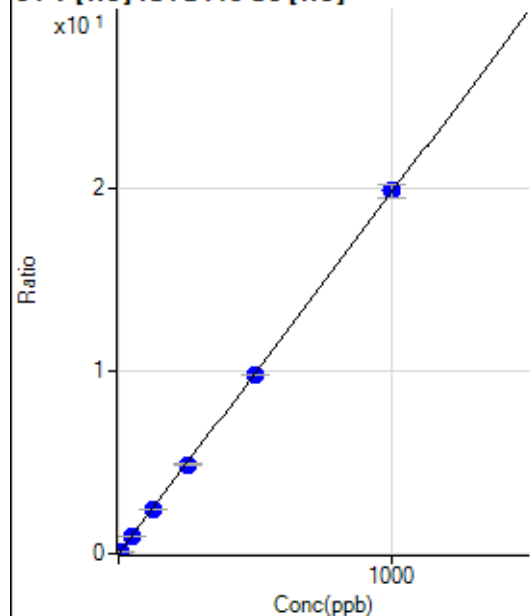
$$DL = 0.1394$$

$$BEC = 0.1807$$

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      | 11.11     | 0.0003  | P    | 39.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |           |         |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.161      | 2801.43   | 0.0828  | P    | 2.4  |
| 4 | <input type="checkbox"/> | 50.000   | 48.443     | 33195.08  | 0.9602  | P    | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 123.237    | 82299.86  | 2.4422  | P    | 1.3  |
| 6 | <input type="checkbox"/> | 250.000  | 246.277    | 162184.67 | 4.8801  | P    | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 494.347    | 313057.39 | 9.7953  | P    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.060   | 627413.14 | 19.8947 | P    | 3.4  |
| 9 | <input type="checkbox"/> |          |            | 88.89     | 0.0026  | P    | 25.7 |

$$y = 0.0198 * x + 3.4996E-004$$

$$R = 1.0000$$

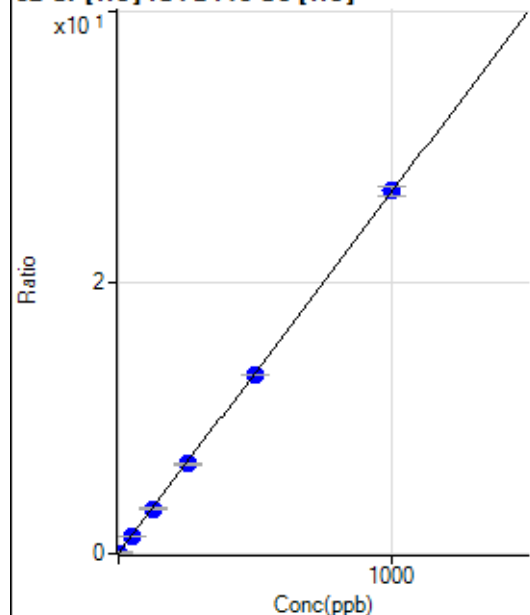
$$DL = 0.02065$$

$$BEC = 0.01766$$

Weight: &lt;None&gt;

Min Conc: 0



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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|-----------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 726.70    | 0.0225  | P    | 8.5 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |         |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.811      | 2393.59   | 0.0707  | P    | 4.3 |
| 4 | <input type="checkbox"/> | 50.000   | 48.727     | 45600.78  | 1.3192  | P    | 2.0 |
| 5 | <input type="checkbox"/> | 125.000  | 123.968    | 111929.40 | 3.3213  | P    | 1.0 |
| 6 | <input type="checkbox"/> | 250.000  | 247.250    | 219405.54 | 6.6018  | P    | 1.3 |
| 7 | <input type="checkbox"/> | 500.000  | 494.994    | 421684.23 | 13.1942 | P    | 0.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.383   | 842836.78 | 26.7224 | P    | 2.9 |
| 9 | <input type="checkbox"/> |          |            | 8945.22   | 0.2644  | P    | 1.8 |

$$y = 0.0266 * x + 0.0225$$

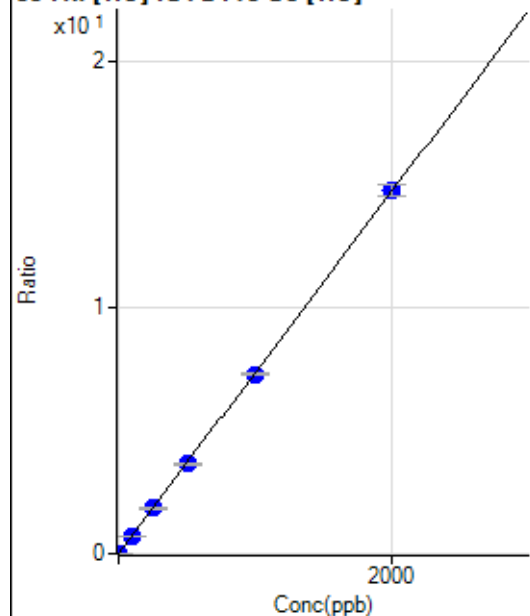
$$R = 1.0000$$

$$DL = 0.217$$

$$BEC = 0.8472$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67     | 0.0005  | P    | 18.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |         |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.913      | 244.45    | 0.0072  | P    | 9.2  |
| 4 | <input type="checkbox"/> | 100.000  | 98.410     | 25023.71  | 0.7239  | P    | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 249.935    | 61927.80  | 1.8376  | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 494.721    | 120870.77 | 3.6368  | P    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.351    | 233127.68 | 7.2945  | P    | 0.4  |
| 8 | <input type="checkbox"/> | 2000.000 | 2005.232   | 464865.30 | 14.7394 | P    | 3.1  |
| 9 | <input type="checkbox"/> |          |            | 1504.55   | 0.0445  | P    | 10.5 |

$$y = 0.0074 * x + 5.1711E-004$$

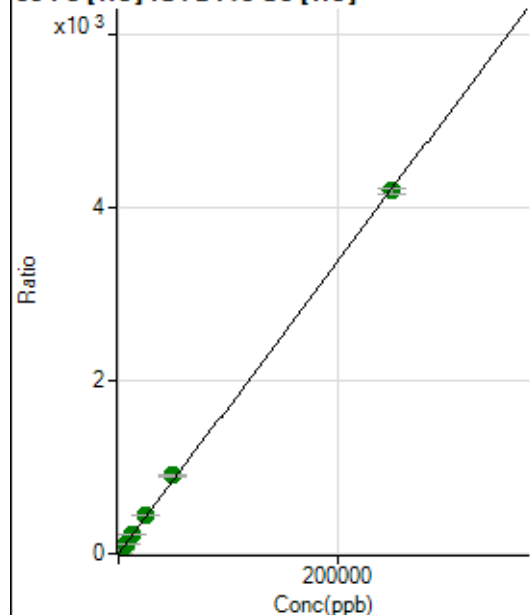
$$R = 1.0000$$

$$DL = 0.03964$$

$$BEC = 0.07035$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|-----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1026.00     | 0.0320    | P    | 11.4 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |      |      |
| 3 | <input type="checkbox"/> | 50.000    | 46.719     | 27700.34    | 0.8187    | P    | 1.6  |
| 4 | <input type="checkbox"/> | 2500.000  | 2703.994   | 1575160.15  | 45.5649   | A    | 1.0  |
| 5 | <input type="checkbox"/> | 6250.000  | 6835.224   | 3879882.55  | 115.1312  | A    | 1.2  |
| 6 | <input type="checkbox"/> | 12500.000 | 13437.402  | 7521261.69  | 226.3060  | A    | 0.8  |
| 7 | <input type="checkbox"/> | 25000.000 | 26682.565  | 14360562.24 | 449.3430  | A    | 0.6  |
| 8 | <input type="checkbox"/> | 50000.000 | 53936.240  | 28646703.88 | 908.2710  | A    | 2.9  |
| 9 | <input type="checkbox"/> | 250000.00 | 248980.95  | 141784358.7 | 4,192.653 | A    | 1.5  |

$$y = 0.0168 * x + 0.0320$$

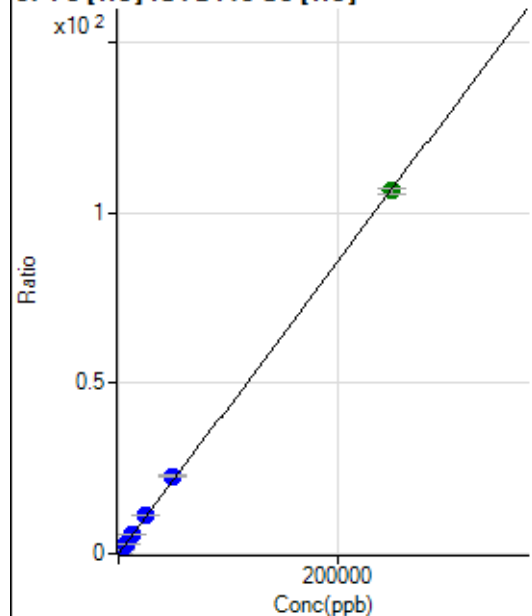
$$R = 0.9999$$

$$DL = 0.6499$$

$$BEC = 1.899$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS        | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 24.07      | 0.0007   | P    | 28.7 |
| 2 | <input type="checkbox"/> | 5.000     |            |            |          |      |      |
| 3 | <input type="checkbox"/> | 50.000    | 46.171     | 692.63     | 0.0205   | P    | 16.6 |
| 4 | <input type="checkbox"/> | 2500.000  | 2617.884   | 38704.20   | 1.1196   | P    | 0.6  |
| 5 | <input type="checkbox"/> | 6250.000  | 6677.499   | 96198.46   | 2.8546   | P    | 1.3  |
| 6 | <input type="checkbox"/> | 12500.000 | 13241.466  | 188105.75  | 5.6599   | P    | 0.8  |
| 7 | <input type="checkbox"/> | 25000.000 | 26376.861  | 360296.09  | 11.2737  | P    | 1.1  |
| 8 | <input type="checkbox"/> | 50000.000 | 53204.020  | 717206.66  | 22.7392  | P    | 2.9  |
| 9 | <input type="checkbox"/> | 250000.00 | 249172.57  | 3601300.98 | 106.4926 | A    | 1.6  |

$$y = 4.2738E-004 * x + 7.3686E-004$$

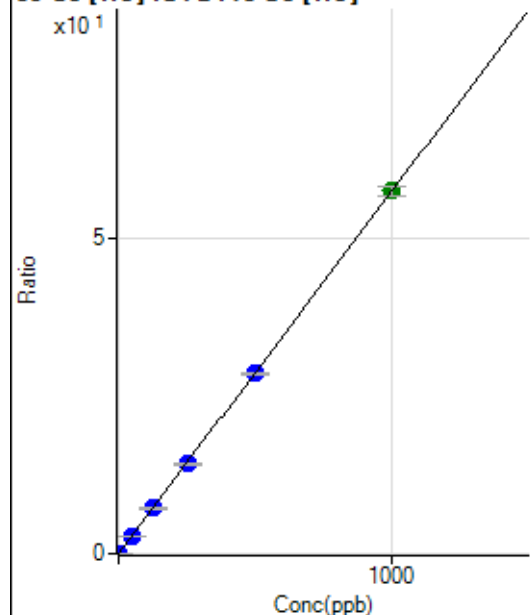
$$R = 0.9999$$

$$DL = 1.484$$

$$BEC = 1.724$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 53.34      | 0.0016  | P    | 22.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.856      | 1719.02    | 0.0508  | P    | 4.7  |
| 4 | <input type="checkbox"/> | 50.000   | 48.604     | 96597.30   | 2.7944  | P    | 1.6  |
| 5 | <input type="checkbox"/> | 125.000  | 124.825    | 241766.64  | 7.1739  | P    | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 246.962    | 471667.73  | 14.1917 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 497.712    | 914014.70  | 28.5995 | P    | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.995   | 1815976.78 | 57.5748 | A    | 2.8  |
| 9 | <input type="checkbox"/> |          |            | 1892.38    | 0.0559  | P    | 3.8  |

$$y = 0.0575 * x + 0.0016$$

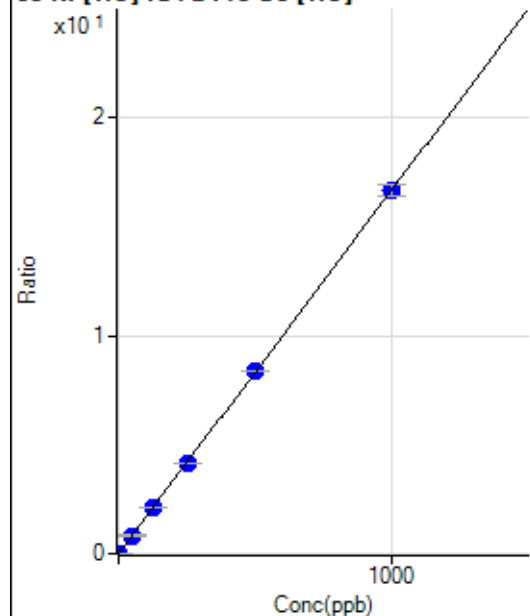
$$R = 1.0000$$

$$DL = 0.01889$$

$$BEC = 0.02846$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.66     | 0.0011  | P    | 34.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |         |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.989      | 596.69    | 0.0176  | P    | 6.0  |
| 4 | <input type="checkbox"/> | 50.000   | 49.733     | 28706.46  | 0.8305  | P    | 2.6  |
| 5 | <input type="checkbox"/> | 125.000  | 127.086    | 71455.47  | 2.1204  | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 250.194    | 138697.00 | 4.1732  | P    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 501.661    | 267391.50 | 8.3666  | P    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.874    | 525345.29 | 16.6578 | P    | 3.3  |
| 9 | <input type="checkbox"/> |          |            | 2395.81   | 0.0709  | P    | 6.5  |

$$y = 0.0167 * x + 0.0011$$

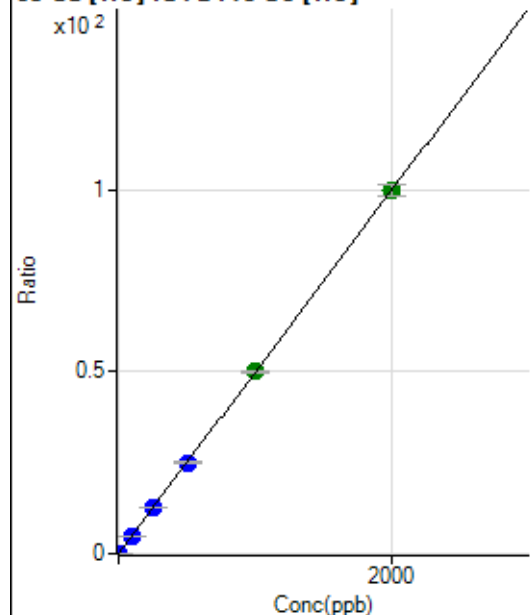
$$R = 1.0000$$

$$DL = 0.07013$$

$$BEC = 0.06867$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 151.11     | 0.0047  | P    | 7.6 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.751      | 3110.41    | 0.0919  | P    | 5.1 |
| 4 | <input type="checkbox"/> | 100.000  | 98.922     | 170588.96  | 4.9346  | P    | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 251.617    | 422724.27  | 12.5443 | P    | 1.6 |
| 6 | <input type="checkbox"/> | 500.000  | 501.255    | 830372.30  | 24.9853 | P    | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.721   | 1597145.96 | 49.9764 | A    | 1.3 |
| 8 | <input type="checkbox"/> | 2000.000 | 1998.178   | 3140875.09 | 99.5860 | A    | 3.1 |
| 9 | <input type="checkbox"/> |          |            | 3394.91    | 0.1004  | P    | 2.7 |

$$y = 0.0498 * x + 0.0047$$

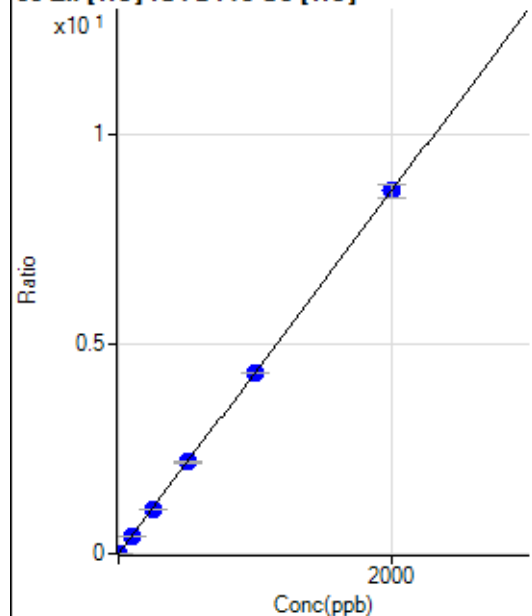
$$R = 1.0000$$

$$DL = 0.02133$$

$$BEC = 0.09402$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.67     | 0.0011 | P    | 51.5 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.033      | 335.57    | 0.0099 | P    | 2.6  |
| 4 | <input type="checkbox"/> | 100.000  | 98.165     | 14716.87  | 0.4257 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 247.391    | 36097.14  | 1.0711 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 504.152    | 72507.03  | 2.1817 | P    | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.987    | 137989.08 | 4.3176 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 2000.000 | 2000.386   | 272890.83 | 8.6531 | P    | 3.4  |
| 9 | <input type="checkbox"/> |          |            | 565.58    | 0.0167 | P    | 13.9 |

$$y = 0.0043 * x + 0.0011$$

$$R = 1.0000$$

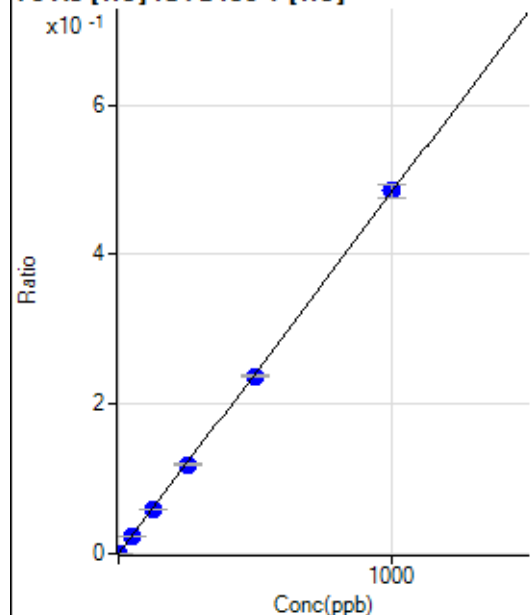
$$DL = 0.4014$$

$$BEC = 0.2598$$

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      | 1.85     | 0.0000 | P    | 173.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |          |        |      |       |
| 3 | <input type="checkbox"/> | 1.000    | 0.800      | 83.95    | 0.0004 | P    | 15.5  |
| 4 | <input type="checkbox"/> | 50.000   | 49.810     | 5264.62  | 0.0241 | P    | 2.0   |
| 5 | <input type="checkbox"/> | 125.000  | 124.173    | 12951.22 | 0.0600 | P    | 0.6   |
| 6 | <input type="checkbox"/> | 250.000  | 246.582    | 25526.08 | 0.1191 | P    | 0.9   |
| 7 | <input type="checkbox"/> | 500.000  | 492.476    | 49672.10 | 0.2378 | P    | 0.3   |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.730   | 99658.49 | 0.4852 | P    | 3.6   |
| 9 | <input type="checkbox"/> |          |            | 29.63    | 0.0001 | P    | 16.7  |

$$y = 4.8295E-004 * x + 8.8062E-006$$

$$R = 1.0000$$

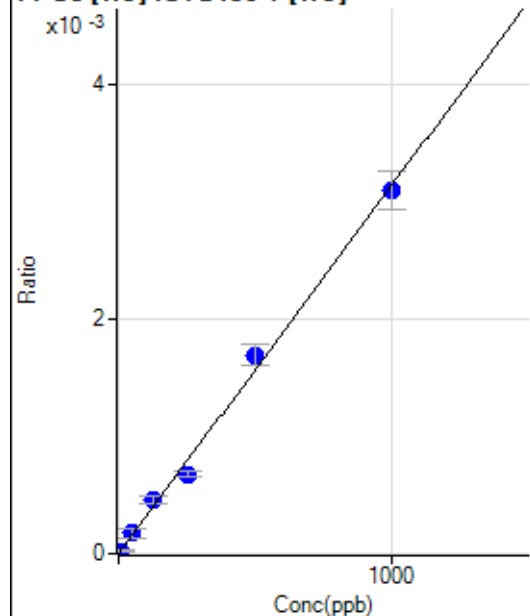
$$DL = 0.09475$$

$$BEC = 0.01823$$

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"/> | 0.500    |            |        |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 6.679      | 4.44   | 0.0000 | P    | 43.8 |
| 4 | <input type="checkbox"/> | 50.000   | 56.706     | 38.89  | 0.0002 | P    | 43.5 |
| 5 | <input type="checkbox"/> | 125.000  | 146.022    | 98.89  | 0.0005 | P    | 15.9 |
| 6 | <input type="checkbox"/> | 250.000  | 214.857    | 144.45 | 0.0007 | P    | 7.2  |
| 7 | <input type="checkbox"/> | 500.000  | 539.599    | 353.34 | 0.0017 | P    | 11.0 |
| 8 | <input type="checkbox"/> | 1000.000 | 986.015    | 634.47 | 0.0031 | P    | 10.6 |
| 9 | <input type="checkbox"/> |          |            | 0.00   | 0.0000 | P    |      |

$$y = 3.1363E-006 * x + 0.0000E+000$$

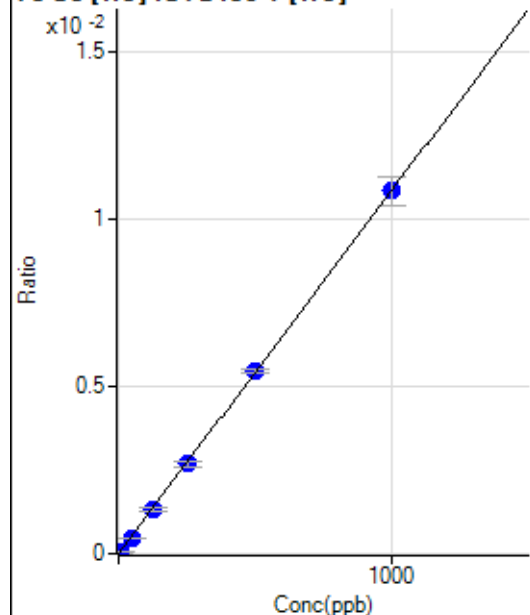
$$R = 0.9979$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD   |
|---|--------------------------|----------|------------|---------|--------|------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.62    | 0.0000 | P    | 173.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |      |       |
| 3 | <input type="checkbox"/> | 5.000    | 4.832      | 11.73   | 0.0001 | P    | 24.1  |
| 4 | <input type="checkbox"/> | 50.000   | 42.723     | 101.85  | 0.0005 | P    | 9.4   |
| 5 | <input type="checkbox"/> | 125.000  | 119.568    | 280.25  | 0.0013 | P    | 9.6   |
| 6 | <input type="checkbox"/> | 250.000  | 247.344    | 574.71  | 0.0027 | P    | 6.8   |
| 7 | <input type="checkbox"/> | 500.000  | 503.655    | 1139.56 | 0.0055 | P    | 3.0   |
| 8 | <input type="checkbox"/> | 1000.000 | 999.880    | 2221.80 | 0.0108 | P    | 7.7   |
| 9 | <input type="checkbox"/> |          |            | 3.70    | 0.0000 | P    | 132.2 |

$$y = 1.0827\text{E-}005 * x + 2.9194\text{E-}006$$

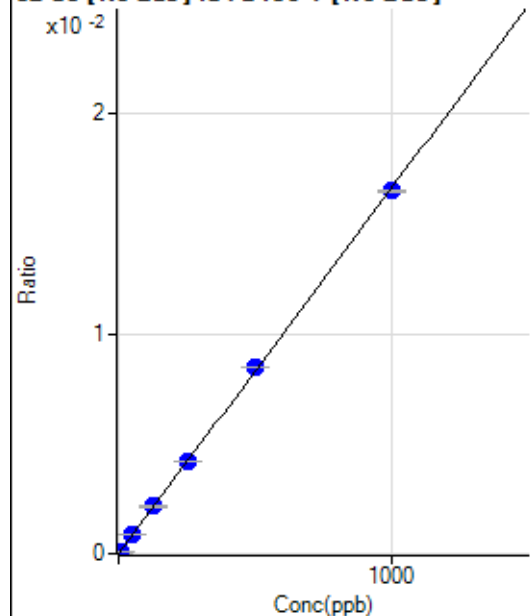
$$R = 1.0000$$

$$DL = 1.401$$

$$BEC = 0.2697$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD   |
|---|--------------------------|----------|------------|-----------|--------|------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -21.03    | 0.0000 | P    | -197. |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |      |       |
| 3 | <input type="checkbox"/> | 5.000    | 5.242      | 610.69    | 0.0001 | P    | 13.1  |
| 4 | <input type="checkbox"/> | 50.000   | 51.661     | 6586.63   | 0.0009 | P    | 2.0   |
| 5 | <input type="checkbox"/> | 125.000  | 131.251    | 16837.87  | 0.0022 | P    | 3.6   |
| 6 | <input type="checkbox"/> | 250.000  | 251.985    | 33024.47  | 0.0042 | P    | 0.5   |
| 7 | <input type="checkbox"/> | 500.000  | 511.255    | 66567.21  | 0.0085 | P    | 0.6   |
| 8 | <input type="checkbox"/> | 1000.000 | 993.010    | 131453.20 | 0.0165 | P    | 0.7   |
| 9 | <input type="checkbox"/> |          |            | 92.59     | 0.0000 | P    | 29.5  |

$$y = 1.6625\text{E-}005 * x - 2.8704\text{E-}006$$

$$R = 0.9999$$

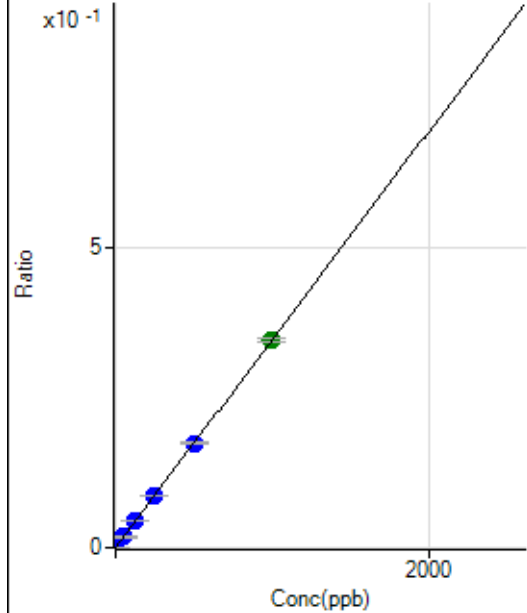
$$DL = 1.025$$

$$BEC = -0.1727$$

Weight: &lt;None&gt;

Min Conc: 0

86 Sr [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      | 650.05     | 0.0001 | P    | 8.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.915      | 2942.12    | 0.0004 | P    | 5.9 |
| 4 | <input type="checkbox"/> | 50.000   | 50.844     | 136266.26  | 0.0177 | P    | 1.6 |
| 5 | <input type="checkbox"/> | 125.000  | 128.248    | 343949.54  | 0.0445 | P    | 5.2 |
| 6 | <input type="checkbox"/> | 250.000  | 249.783    | 683542.15  | 0.0867 | P    | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 503.288    | 1367132.26 | 0.1745 | P    | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.962    | 2754954.12 | 0.3459 | A    | 1.6 |
| 9 | <input type="checkbox"/> |          |            | 91293.15   | 0.0119 | P    | 0.4 |

$$y = 3.4655\text{E-}004 * x + 8.8538\text{E-}005$$

$$R = 1.0000$$

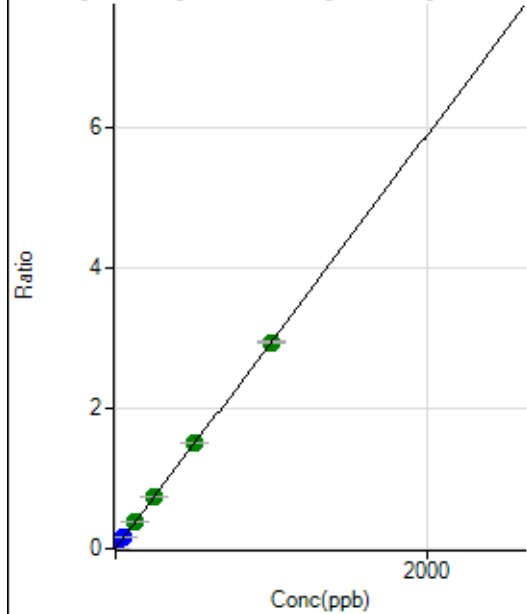
$$DL = 0.06213$$

$$BEC = 0.2555$$

Weight: &lt;None&gt;

Min Conc: 0

88 Sr [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      | 141.68      | 0.0000 | P    | 27.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.936      | 20165.64    | 0.0028 | P    | 3.4  |
| 4 | <input type="checkbox"/> | 50.000   | 51.718     | 1173726.41  | 0.1525 | P    | 1.6  |
| 5 | <input type="checkbox"/> | 125.000  | 131.175    | 2988823.33  | 0.3868 | A    | 4.0  |
| 6 | <input type="checkbox"/> | 250.000  | 252.625    | 5876805.04  | 0.7450 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 507.644    | 11728003.99 | 1.4970 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.664    | 23358911.81 | 2.9332 | A    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 786170.67   | 0.1021 | P    | 0.2  |

$$y = 0.0029 * x + 1.9301\text{E-}005$$

$$R = 0.9999$$

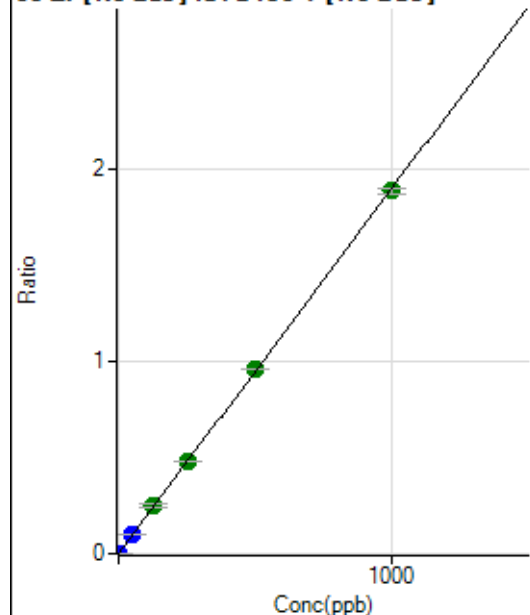
$$DL = 0.005323$$

$$BEC = 0.006545$$

Weight: &lt;None&gt;

Min Conc: 0

90 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      | 436.14      | 0.0001 | P    | 18.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.915      | 13017.96    | 0.0018 | P    | 4.8  |
| 4 | <input type="checkbox"/> | 50.000   | 51.221     | 748008.01   | 0.0972 | P    | 3.2  |
| 5 | <input type="checkbox"/> | 125.000  | 131.871    | 1933052.73  | 0.2502 | A    | 4.5  |
| 6 | <input type="checkbox"/> | 250.000  | 254.001    | 3801652.69  | 0.4819 | A    | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 506.714    | 7531680.90  | 0.9614 | A    | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.723    | 15028844.78 | 1.8872 | A    | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 2050.25     | 0.0003 | P    | 1.8  |

$$y = 0.0019 * x + 5.9385E-005$$

$$R = 0.9999$$

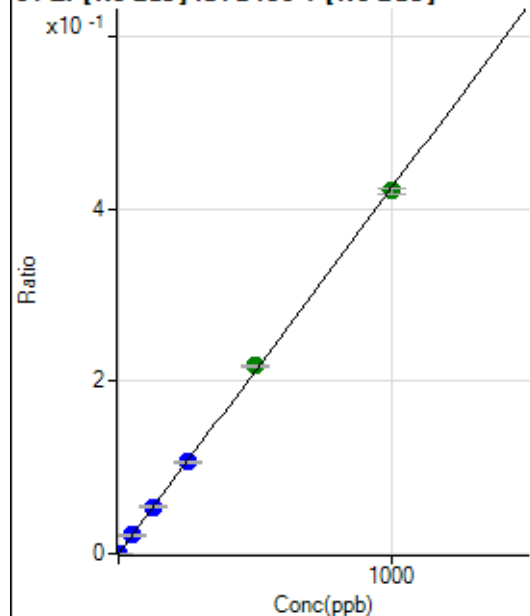
$$DL = 0.01734$$

$$BEC = 0.0313$$

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      | 105.56     | 0.0000 | P    | 16.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.854      | 2736.53    | 0.0004 | P    | 6.1  |
| 4 | <input type="checkbox"/> | 50.000   | 50.686     | 165629.34  | 0.0215 | P    | 3.1  |
| 5 | <input type="checkbox"/> | 125.000  | 128.568    | 421718.80  | 0.0546 | P    | 4.1  |
| 6 | <input type="checkbox"/> | 250.000  | 250.293    | 838167.95  | 0.1063 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 513.470    | 1707578.71 | 0.2180 | A    | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.712    | 3355708.08 | 0.4214 | A    | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 491.70     | 0.0001 | P    | 10.7 |

$$y = 4.2446E-004 * x + 1.4376E-005$$

$$R = 0.9999$$

$$DL = 0.01676$$

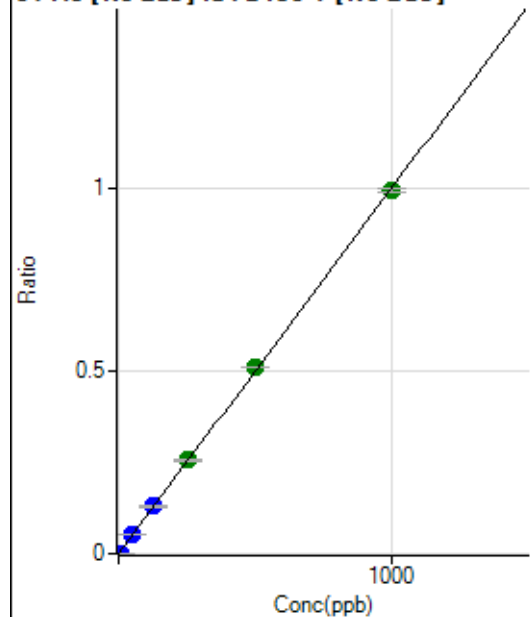
$$BEC = 0.03387$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 180.57     | 0.0000 | P    | 24.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 2.066      | 15161.80   | 0.0021 | P    | 2.8  |
| 4 | <input type="checkbox"/> | 50.000   | 51.027     | 392507.09  | 0.0510 | P    | 2.5  |
| 5 | <input type="checkbox"/> | 125.000  | 129.501    | 999851.81  | 0.1294 | P    | 4.5  |
| 6 | <input type="checkbox"/> | 250.000  | 255.901    | 2017383.01 | 0.2557 | A    | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 509.496    | 3988891.54 | 0.5092 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.177    | 7903942.80 | 0.9925 | A    | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 4650.99    | 0.0006 | P    | 2.3  |

$$y = 9.9928\text{E-}004 * x + 2.4603\text{E-}005$$

$$R = 0.9999$$

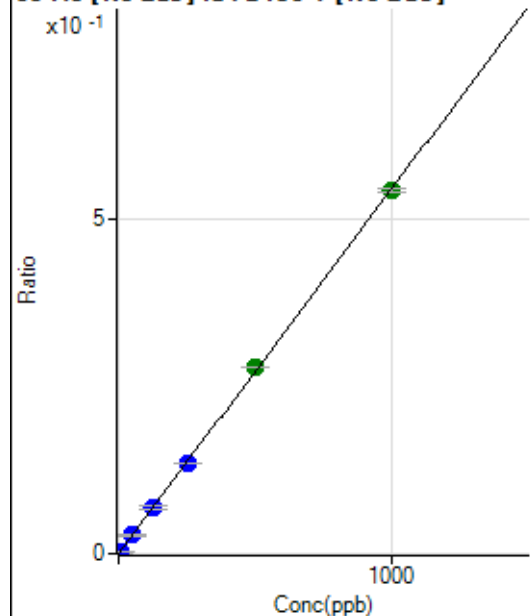
$$DL = 0.01772$$

$$BEC = 0.02462$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0000 | P    | 44.9 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.435      | 17614.94   | 0.0024 | P    | 3.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.536     | 212408.80  | 0.0276 | P    | 2.2  |
| 5 | <input type="checkbox"/> | 125.000  | 126.634    | 534271.83  | 0.0692 | P    | 4.8  |
| 6 | <input type="checkbox"/> | 250.000  | 246.829    | 1063476.79 | 0.1348 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 510.829    | 2185796.88 | 0.2790 | A    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.150    | 4328477.01 | 0.5435 | A    | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 6799.24    | 0.0009 | P    | 5.2  |

$$y = 5.4616\text{E-}004 * x + 5.3002\text{E-}006$$

$$R = 0.9999$$

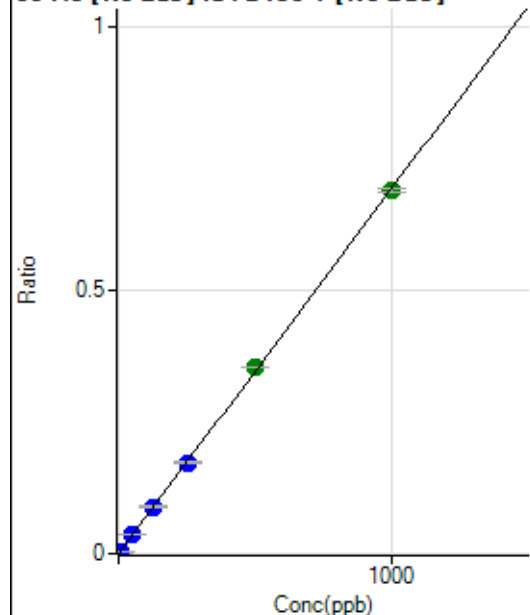
$$DL = 0.01308$$

$$BEC = 0.009704$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72.23      | 0.0000 | P    | 17.4 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 3.969      | 20026.59   | 0.0028 | P    | 5.2  |
| 4 | <input type="checkbox"/> | 50.000   | 50.913     | 271562.24  | 0.0353 | P    | 1.9  |
| 5 | <input type="checkbox"/> | 125.000  | 127.651    | 683564.25  | 0.0885 | P    | 3.8  |
| 6 | <input type="checkbox"/> | 250.000  | 249.580    | 1364458.99 | 0.1730 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 511.161    | 2775311.52 | 0.3542 | A    | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.152    | 5486748.08 | 0.6890 | A    | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 9317.52    | 0.0012 | P    | 2.9  |

$$y = 6.9300\text{E-}004 * x + 9.8332\text{E-}006$$

$$R = 0.9999$$

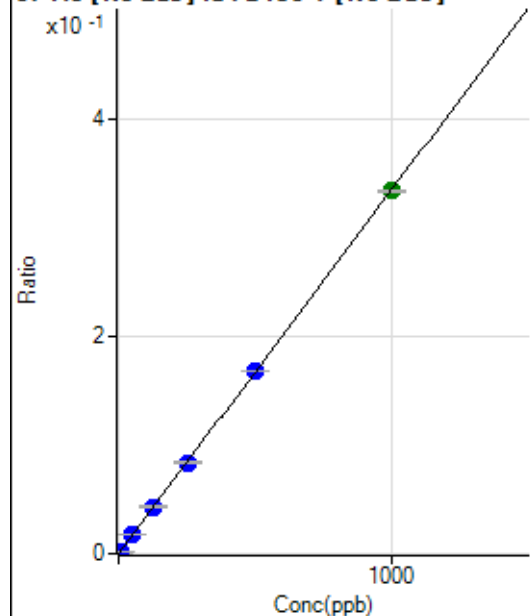
$$DL = 0.007419$$

$$BEC = 0.01419$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78      | 0.0000 | P    | 50.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.532      | 11063.38   | 0.0015 | P    | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 51.002     | 131434.86  | 0.0171 | P    | 2.6  |
| 5 | <input type="checkbox"/> | 125.000  | 128.445    | 332311.39  | 0.0430 | P    | 3.7  |
| 6 | <input type="checkbox"/> | 250.000  | 250.346    | 661207.48  | 0.0838 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 503.720    | 1321238.94 | 0.1686 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.575    | 2659885.56 | 0.3340 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 4028.57    | 0.0005 | P    | 5.3  |

$$y = 3.3479\text{E-}004 * x + 7.1865\text{E-}006$$

$$R = 1.0000$$

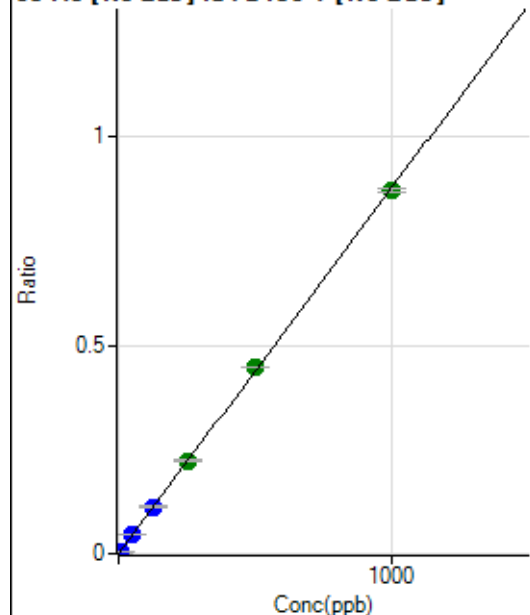
$$DL = 0.03267$$

$$BEC = 0.02147$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0000 | P    | 32.4 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.557      | 29034.87   | 0.0040 | P    | 3.3  |
| 4 | <input type="checkbox"/> | 50.000   | 50.604     | 341535.93  | 0.0444 | P    | 2.3  |
| 5 | <input type="checkbox"/> | 125.000  | 127.762    | 865895.52  | 0.1121 | P    | 3.5  |
| 6 | <input type="checkbox"/> | 250.000  | 254.797    | 1762918.12 | 0.2235 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 511.726    | 3516311.10 | 0.4488 | A    | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.565    | 6933058.75 | 0.8706 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 10159.81   | 0.0013 | P    | 4.5  |

$$y = 8.7708\text{E-}004 * x + 5.2922\text{E-}006$$

$$R = 0.9999$$

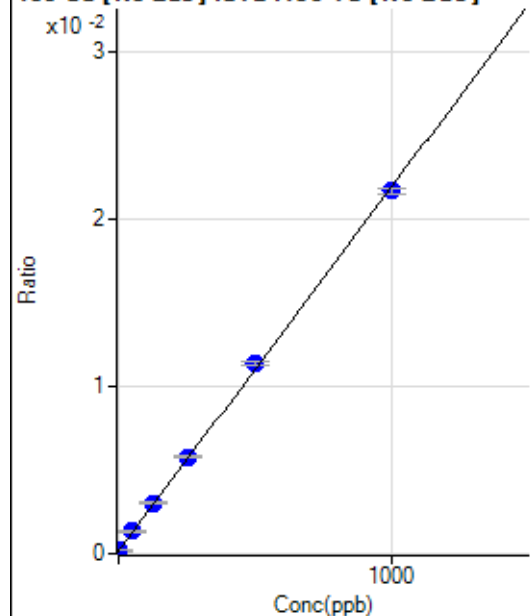
$$DL = 0.005872$$

$$BEC = 0.006034$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1489.05   | 0.0002 | P    | 2.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.253      | 1711.30   | 0.0002 | P    | 6.7 |
| 4 | <input type="checkbox"/> | 50.000   | 53.589     | 12670.42  | 0.0013 | P    | 3.9 |
| 5 | <input type="checkbox"/> | 125.000  | 131.990    | 29232.62  | 0.0030 | P    | 2.1 |
| 6 | <input type="checkbox"/> | 250.000  | 258.907    | 57543.04  | 0.0058 | P    | 1.8 |
| 7 | <input type="checkbox"/> | 500.000  | 514.424    | 113892.53 | 0.0114 | P    | 1.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 989.508    | 223512.08 | 0.0217 | P    | 1.3 |
| 9 | <input type="checkbox"/> |          |            | 1552.94   | 0.0002 | P    | 6.5 |

$$y = 2.1753\text{E-}005 * x + 1.6186\text{E-}004$$

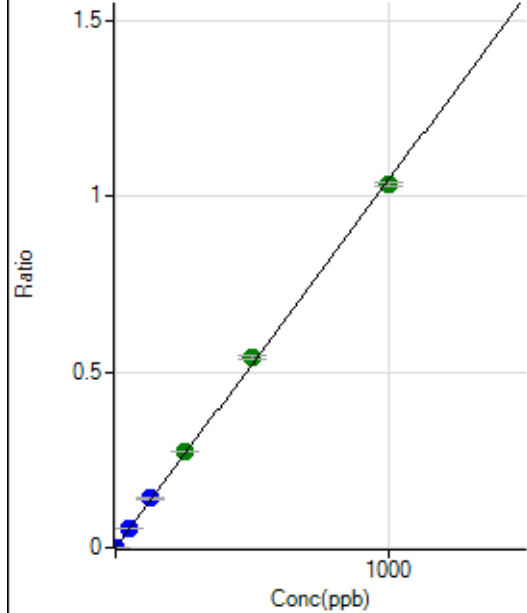
$$R = 0.9998$$

$$DL = 0.6521$$

$$BEC = 7.441$$

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      | 61.12       | 0.0000 | P    | 8.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.975      | 9261.95     | 0.0010 | P    | 6.4 |
| 4 | <input type="checkbox"/> | 50.000   | 53.886     | 537378.00   | 0.0563 | P    | 3.0 |
| 5 | <input type="checkbox"/> | 125.000  | 134.322    | 1352762.12  | 0.1404 | P    | 2.9 |
| 6 | <input type="checkbox"/> | 250.000  | 261.755    | 2717021.92  | 0.2736 | A    | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 517.356    | 5424465.92  | 0.5407 | A    | 1.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 987.024    | 10631574.11 | 1.0315 | A    | 1.0 |
| 9 | <input type="checkbox"/> |          |            | 930.64      | 0.0001 | P    | 3.5 |

$$y = 0.0010 * x + 6.6441E-006$$

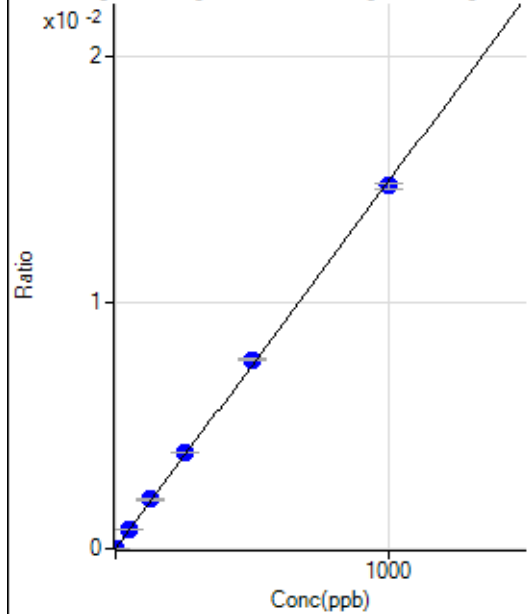
$$R = 0.9997$$

$$DL = 0.001536$$

$$BEC = 0.006357$$

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      | 8.33      | 0.0000 | P    | 50.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.173      | 166.67    | 0.0000 | P    | 3.4  |
| 4 | <input type="checkbox"/> | 50.000   | 53.371     | 7610.63   | 0.0008 | P    | 4.6  |
| 5 | <input type="checkbox"/> | 125.000  | 134.199    | 19316.88  | 0.0020 | P    | 4.0  |
| 6 | <input type="checkbox"/> | 250.000  | 260.962    | 38712.74  | 0.0039 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 515.446    | 77229.45  | 0.0077 | P    | 1.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 988.218    | 152096.35 | 0.0148 | P    | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 23.61     | 0.0000 | P    | 26.9 |

$$y = 1.4933E-005 * x + 9.0651E-007$$

$$R = 0.9997$$

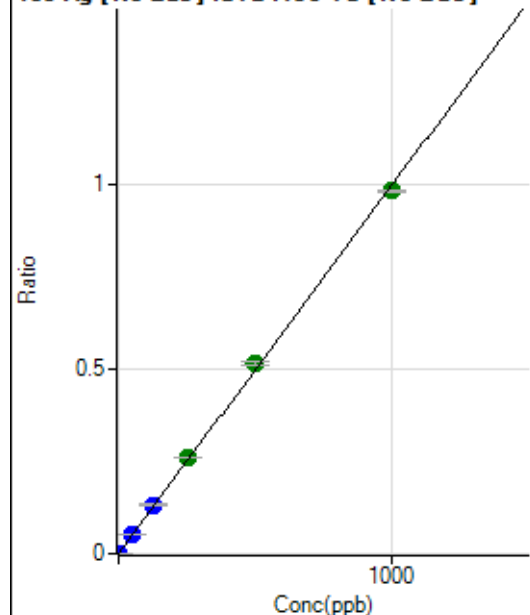
$$DL = 0.09134$$

$$BEC = 0.06071$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.67       | 0.0000 | P    | 79.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.950      | 8583.68     | 0.0010 | P    | 5.5  |
| 4 | <input type="checkbox"/> | 50.000   | 53.583     | 509098.44   | 0.0534 | P    | 2.8  |
| 5 | <input type="checkbox"/> | 125.000  | 133.150    | 1277509.26  | 0.1326 | P    | 3.2  |
| 6 | <input type="checkbox"/> | 250.000  | 262.936    | 2600289.19  | 0.2618 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 518.602    | 5180515.22  | 0.5164 | A    | 1.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.267    | 10121578.88 | 0.9820 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 838.95      | 0.0001 | P    | 13.4 |

$$y = 9.9571\text{E-}004 * x + 4.5260\text{E-}006$$

$$R = 0.9996$$

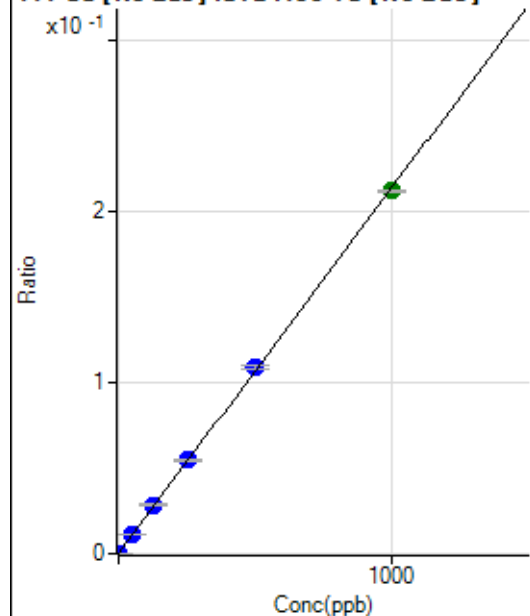
$$DL = 0.01089$$

$$BEC = 0.004545$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1037.89    | 0.0001 | P    | 2.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.957      | 2868.90    | 0.0003 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 53.226     | 109621.08  | 0.0115 | P    | 2.3 |
| 5 | <input type="checkbox"/> | 125.000  | 132.283    | 273510.98  | 0.0284 | P    | 2.9 |
| 6 | <input type="checkbox"/> | 250.000  | 255.024    | 542445.36  | 0.0546 | P    | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 510.359    | 1095363.70 | 0.1092 | P    | 2.0 |
| 8 | <input type="checkbox"/> | 1000.000 | 992.493    | 2187403.06 | 0.2122 | A    | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 1213.58    | 0.0001 | P    | 7.0 |

$$y = 2.1372\text{E-}004 * x + 1.1282\text{E-}004$$

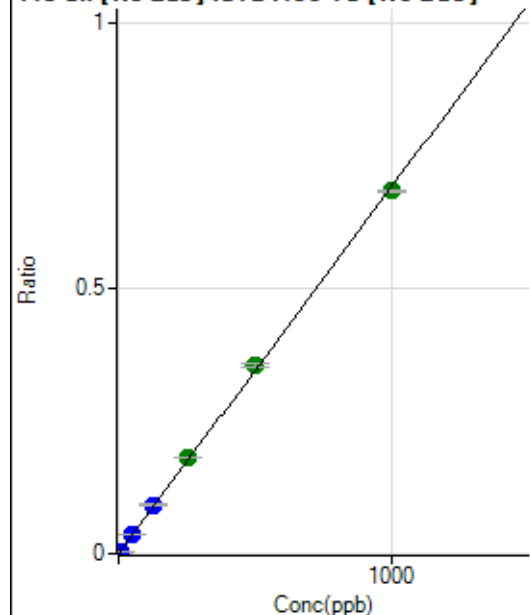
$$R = 0.9999$$

$$DL = 0.04603$$

$$BEC = 0.5279$$

Weight: &lt;None&gt;

Min Conc: 0

**118 Sn [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      | 575.04     | 0.0001 | P    | 7.5 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.681      | 29789.71   | 0.0033 | P    | 2.0 |
| 4 | <input type="checkbox"/> | 50.000   | 52.820     | 348566.20  | 0.0365 | P    | 3.0 |
| 5 | <input type="checkbox"/> | 125.000  | 132.537    | 882384.22  | 0.0916 | P    | 3.1 |
| 6 | <input type="checkbox"/> | 250.000  | 260.511    | 1787145.79 | 0.1799 | A    | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 513.887    | 3560251.60 | 0.3549 | A    | 2.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 989.347    | 7041283.58 | 0.6832 | A    | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 3586.76    | 0.0004 | P    | 6.1 |

$$y = 6.9048\text{E-}004 * x + 6.2515\text{E-}005$$

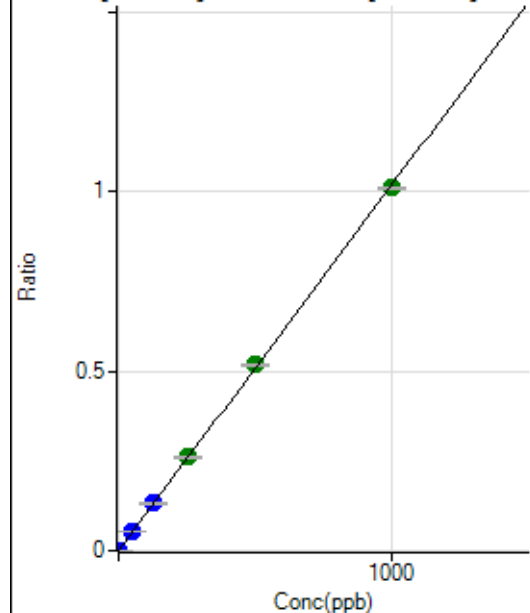
$$R = 0.9998$$

$$DL = 0.02028$$

$$BEC = 0.09054$$

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      | 52.78       | 0.0000 | P    | 48.1 |
| 2 | <input type="checkbox"/> | 0.200    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.835      | 16914.15    | 0.0019 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 51.833     | 502875.94   | 0.0527 | P    | 1.9  |
| 5 | <input type="checkbox"/> | 125.000  | 129.277    | 1266413.76  | 0.1314 | P    | 2.9  |
| 6 | <input type="checkbox"/> | 250.000  | 256.621    | 2590987.56  | 0.2609 | A    | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 509.597    | 5197546.99  | 0.5181 | A    | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.920    | 10403640.51 | 1.0094 | A    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 11911.38    | 0.0012 | P    | 0.9  |

$$y = 0.0010 * x + 5.7358\text{E-}006$$

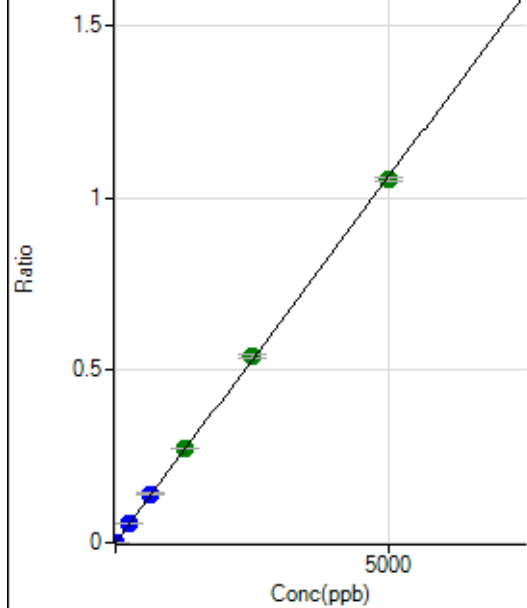
$$R = 0.9999$$

$$DL = 0.008146$$

$$BEC = 0.005642$$

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      | 27.78       | 0.0000 | P    | 62.4 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 9.311      | 17868.30    | 0.0020 | P    | 3.6  |
| 4 | <input type="checkbox"/> | 250.000  | 264.965    | 536087.45   | 0.0562 | P    | 2.4  |
| 5 | <input type="checkbox"/> | 625.000  | 660.842    | 1350080.26  | 0.1401 | P    | 3.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1286.315   | 2708728.75  | 0.2727 | A    | 1.0  |
| 7 | <input type="checkbox"/> | 2500.000 | 2554.739   | 5434135.54  | 0.5417 | A    | 2.0  |
| 8 | <input type="checkbox"/> | 5000.000 | 4958.325   | 10835390.08 | 1.0513 | A    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 2555.93     | 0.0003 | P    | 4.3  |

$$y = 2.1202\text{E-}004 * x + 3.0184\text{E-}006$$

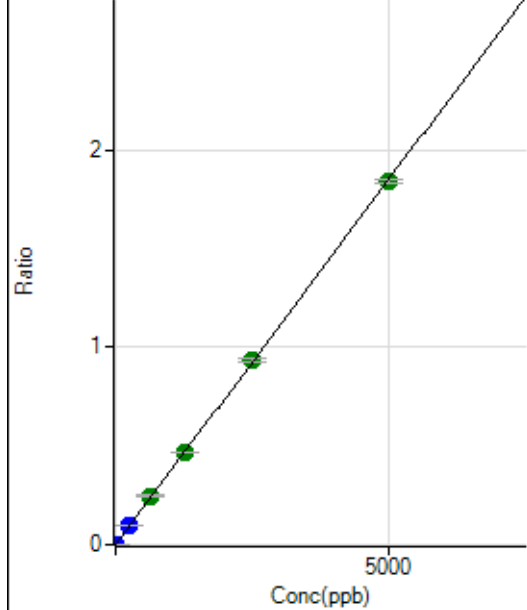
$$R = 0.9999$$

$$DL = 0.02664$$

$$BEC = 0.01424$$

Weight: &lt;None&gt;

Min Conc: 0

**137 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      | 55.56       | 0.0000 | P    | 43.1 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 9.295      | 31115.17    | 0.0034 | P    | 4.0  |
| 4 | <input type="checkbox"/> | 250.000  | 262.737    | 927180.66   | 0.0972 | P    | 2.0  |
| 5 | <input type="checkbox"/> | 625.000  | 665.136    | 2370364.90  | 0.2460 | A    | 2.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1274.654   | 4681582.01  | 0.4714 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2532.081   | 9393615.31  | 0.9364 | A    | 1.9  |
| 8 | <input type="checkbox"/> | 5000.000 | 4972.144   | 18950593.66 | 1.8387 | A    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 4400.96     | 0.0005 | P    | 3.2  |

$$y = 3.6979\text{E-}004 * x + 6.0359\text{E-}006$$

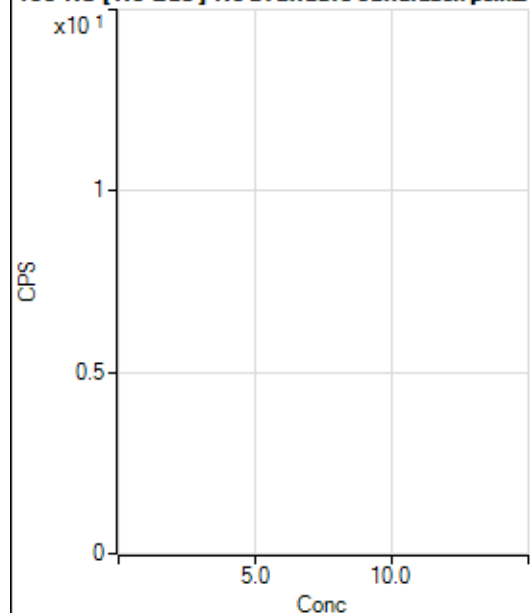
$$R = 0.9999$$

$$DL = 0.02109$$

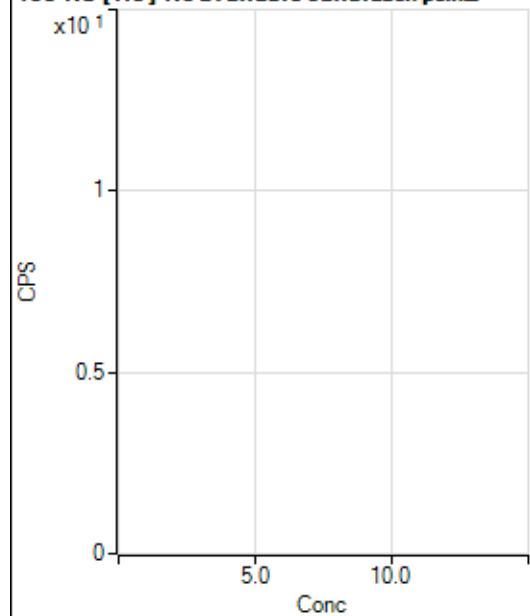
$$BEC = 0.01632$$

Weight: &lt;None&gt;

Min Conc: 0

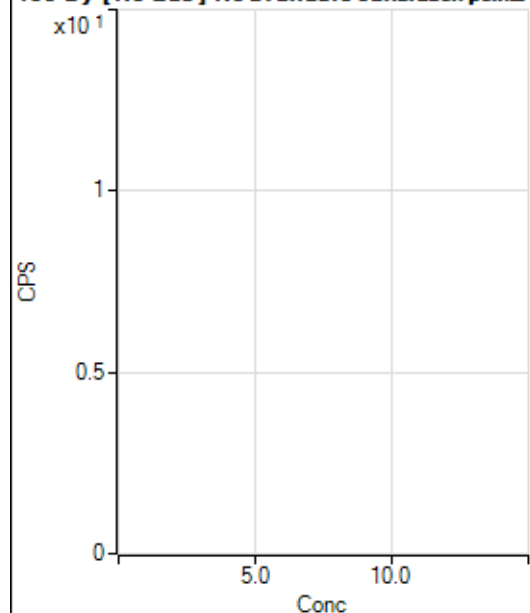
**150 Nd [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 91.7 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 69.3 |
| 4 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 36.7 |
| 5 | <input type="checkbox"/> |       |            | 64.45  |       | P        | 47.8 |
| 6 | <input type="checkbox"/> |       |            | 115.56 |       | P        | 26.0 |
| 7 | <input type="checkbox"/> |       |            | 191.12 |       | P        | 8.8  |
| 8 | <input type="checkbox"/> |       |            | 400.02 |       | P        | 6.7  |
| 9 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 4.6  |

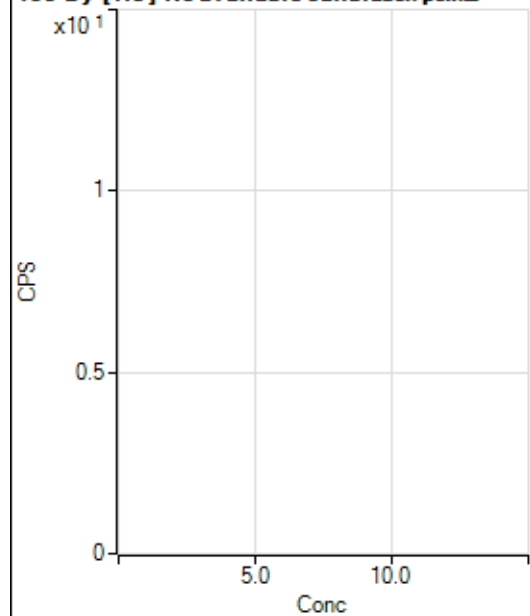
**150 Nd [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 4 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 5 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 6 | <input type="checkbox"/> |       |            | 5.55  |       | P        | 69.3  |
| 7 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 43.4  |
| 8 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 78.1  |
| 9 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 33.3  |

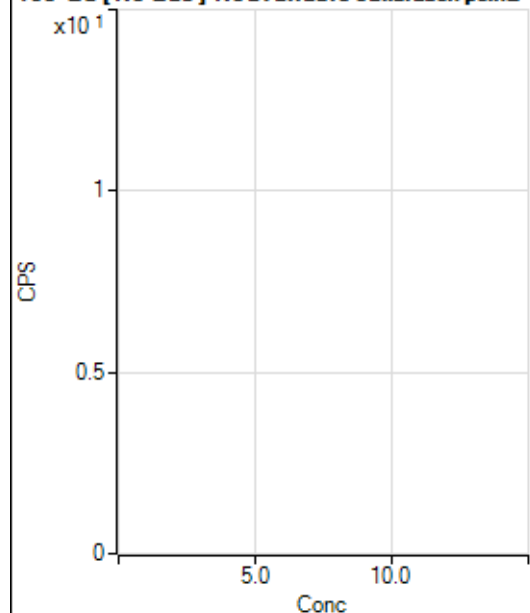


**156 Dy [ No Gas ] No available calibration points**

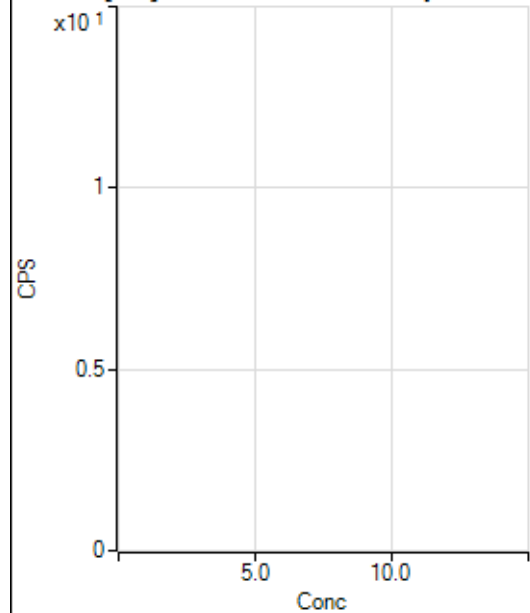
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 114.6 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 94.4  |
| 4 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 50.0  |
| 5 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 0.0   |
| 6 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 19.9  |
| 7 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 28.4  |
| 8 | <input type="checkbox"/> |       |            | 113.90 |       | P        | 11.2  |
| 9 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 33.3  |

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

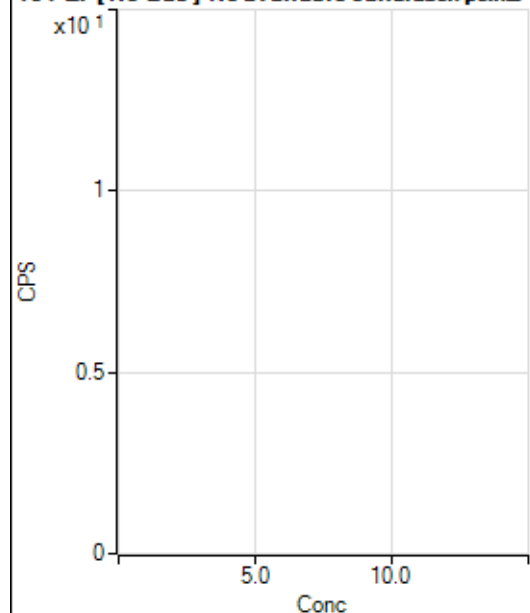
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 114.6 |
| 4 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 5 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 6 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 65.5  |
| 7 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 43.3  |
| 8 | <input type="checkbox"/> |       |            | 20.00 |       | P        | 33.4  |
| 9 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 50.0  |

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

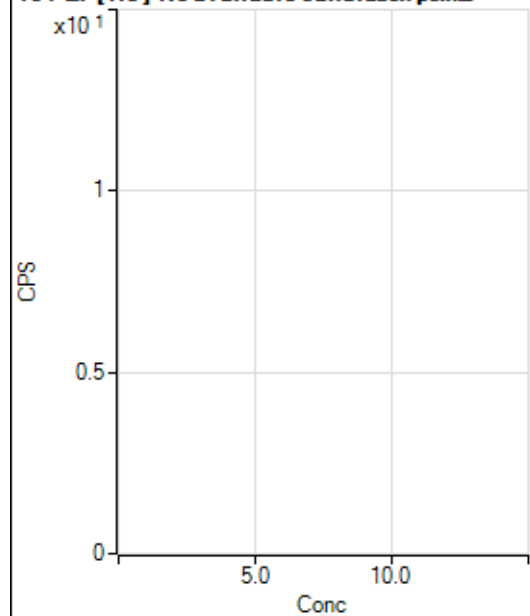
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 58.34  |       | P        | 0.0  |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 20.0 |
| 4 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 31.2 |
| 5 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 15.7 |
| 6 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 37.6 |
| 7 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 21.7 |
| 8 | <input type="checkbox"/> |       |            | 169.45 |       | P        | 15.8 |
| 9 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 11.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 57.3  |
| 4 | <input type="checkbox"/> |       |            | 5.56  |       | P        | 34.7  |
| 5 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 57.7  |
| 6 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 25.0  |
| 7 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 57.3  |
| 8 | <input type="checkbox"/> |       |            | 24.44 |       | P        | 31.5  |
| 9 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 10.2  |

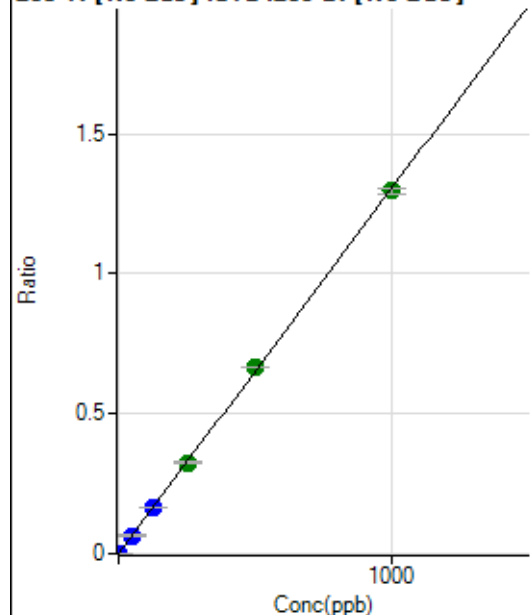
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 32.7 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 24.1 |
| 4 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 31.2 |
| 5 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 43.3 |
| 6 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 44.1 |
| 7 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 36.7 |
| 8 | <input type="checkbox"/> |       |            | 69.45  |       | P        | 59.2 |
| 9 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 38.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 0.0   |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 65.5  |
| 4 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 173.2 |
| 5 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 6 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 65.5  |
| 7 | <input type="checkbox"/> |       |            | 5.55  |       | P        | 124.9 |
| 8 | <input type="checkbox"/> |       |            | 6.67  |       | P        | 50.0  |
| 9 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 15.7  |

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 161.12     | 0.0000 | P    | 8.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.900      | 6699.29    | 0.0012 | P    | 5.1 |
| 4 | <input type="checkbox"/> | 50.000   | 49.905     | 383203.74  | 0.0651 | P    | 2.3 |
| 5 | <input type="checkbox"/> | 125.000  | 126.419    | 975515.20  | 0.1649 | P    | 3.0 |
| 6 | <input type="checkbox"/> | 250.000  | 248.990    | 1981416.80 | 0.3248 | A    | 1.3 |
| 7 | <input type="checkbox"/> | 500.000  | 512.403    | 4119551.35 | 0.6683 | A    | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 993.878    | 8169388.21 | 1.2962 | A    | 1.5 |
| 9 | <input type="checkbox"/> |          |            | 2822.66    | 0.0005 | P    | 8.9 |

$$y = 0.0013 * x + 2.8276E-005$$

$$R = 0.9999$$

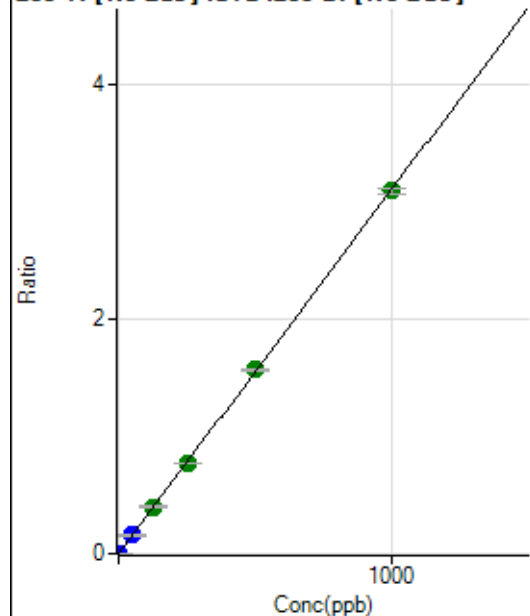
$$DL = 0.005479$$

$$BEC = 0.02168$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 358.36      | 0.0001 | P    | 12.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.945      | 16703.41    | 0.0030 | P    | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 50.382     | 920657.91   | 0.1564 | P    | 2.3  |
| 5 | <input type="checkbox"/> | 125.000  | 127.822    | 2346906.11  | 0.3968 | A    | 4.0  |
| 6 | <input type="checkbox"/> | 250.000  | 248.793    | 4711834.31  | 0.7723 | A    | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 506.539    | 9691603.69  | 1.5723 | A    | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.660    | 19496545.92 | 3.0935 | A    | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 6818.81     | 0.0012 | P    | 7.6  |

$$y = 0.0031 * x + 6.2900E-005$$

$$R = 1.0000$$

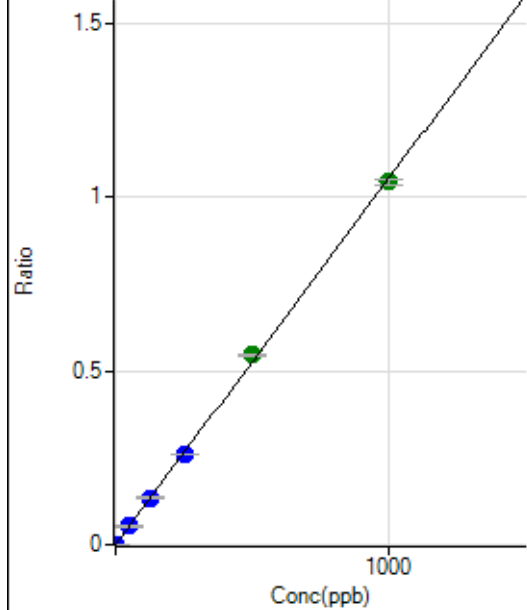
$$DL = 0.007394$$

$$BEC = 0.02027$$

Weight: &lt;None&gt;

Min Conc: 0

206 [Pb] [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      | 442.62     | 0.0001 | P    | 9.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.904      | 5747.79    | 0.0010 | P    | 2.8 |
| 4 | <input type="checkbox"/> | 50.000   | 50.375     | 312863.62  | 0.0532 | P    | 2.5 |
| 5 | <input type="checkbox"/> | 125.000  | 127.342    | 794210.38  | 0.1343 | P    | 3.7 |
| 6 | <input type="checkbox"/> | 250.000  | 246.653    | 1586398.68 | 0.2600 | P    | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 518.045    | 3365528.60 | 0.5460 | A    | 1.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 991.503    | 6585771.96 | 1.0449 | A    | 1.5 |
| 9 | <input type="checkbox"/> |          |            | 7061.46    | 0.0013 | P    | 1.7 |

$$y = 0.0011 * x + 7.7631E-005$$

$$R = 0.9998$$

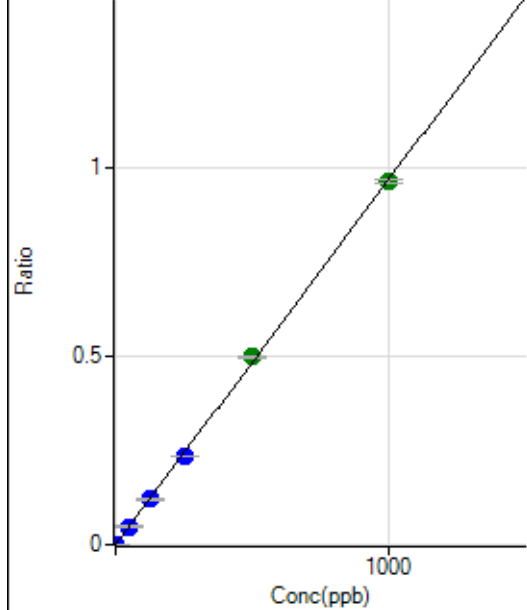
$$DL = 0.02125$$

$$BEC = 0.07367$$

Weight: &lt;None&gt;

Min Conc: 0

207 [Pb] [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      | 350.02     | 0.0001 | P    | 20.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.883      | 5104.89    | 0.0009 | P    | 4.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.844     | 284236.77  | 0.0483 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 125.000  | 125.710    | 719918.00  | 0.1217 | P    | 3.7  |
| 6 | <input type="checkbox"/> | 250.000  | 243.754    | 1439610.02 | 0.2359 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 514.260    | 3067991.59 | 0.4977 | A    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.350    | 6065187.63 | 0.9623 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 5858.94    | 0.0011 | P    | 5.7  |

$$y = 9.6771E-004 * x + 6.1365E-005$$

$$R = 0.9998$$

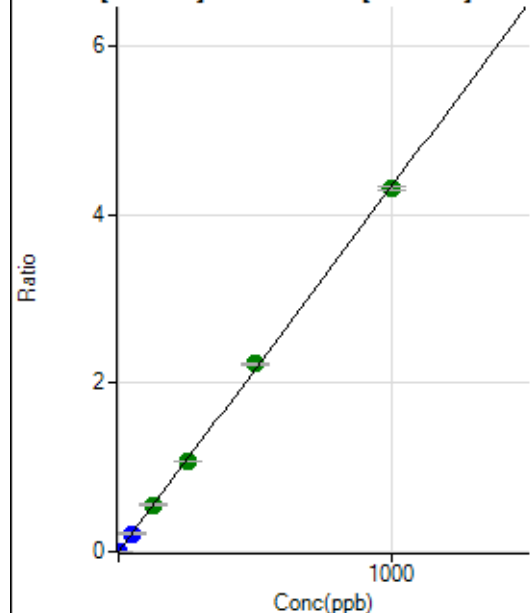
$$DL = 0.03854$$

$$BEC = 0.06341$$

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      | 1672.33     | 0.0003 | P   | 7.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.901      | 23390.76    | 0.0042 | P   | 2.4 |
| 4 | <input type="checkbox"/> | 50.000   | 49.755     | 1269296.12  | 0.2157 | P   | 2.3 |
| 5 | <input type="checkbox"/> | 125.000  | 127.881    | 3276608.90  | 0.5539 | A   | 3.1 |
| 6 | <input type="checkbox"/> | 250.000  | 247.905    | 6549641.79  | 1.0735 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 513.757    | 13711024.93 | 2.2243 | A   | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 993.297    | 27103113.51 | 4.3003 | A   | 1.1 |
| 9 | <input type="checkbox"/> |          |            | 27334.54    | 0.0049 | P   | 1.7 |

$$y = 0.0043 * x + 2.9335E-004$$

$$R = 0.9999$$

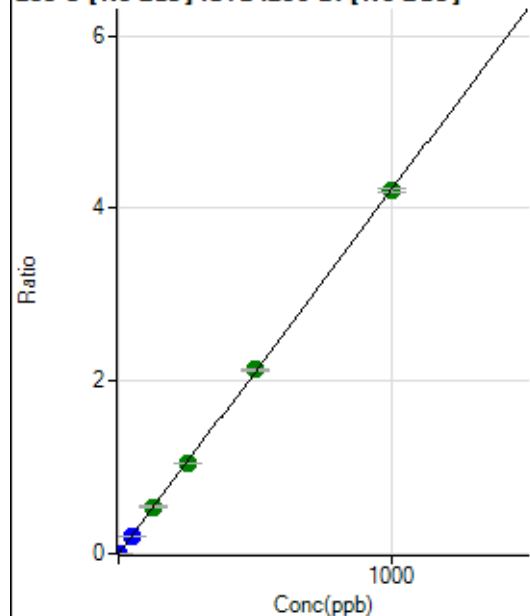
$$DL = 0.01555$$

$$BEC = 0.06776$$

Weight: &lt;None&gt;

Min Conc: 0

238 U [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      | 58.34       | 0.0000 | P   | 37.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.876      | 20628.97    | 0.0037 | P   | 5.0  |
| 4 | <input type="checkbox"/> | 50.000   | 49.544     | 1229076.60  | 0.2089 | P   | 2.7  |
| 5 | <input type="checkbox"/> | 125.000  | 129.454    | 3227589.55  | 0.5457 | A   | 4.0  |
| 6 | <input type="checkbox"/> | 250.000  | 249.111    | 6407143.46  | 1.0501 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 504.918    | 13119561.23 | 2.1284 | A   | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.229    | 26493743.65 | 4.2037 | A   | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 1644.63     | 0.0003 | P   | 2.6  |

$$y = 0.0042 * x + 1.0234E-005$$

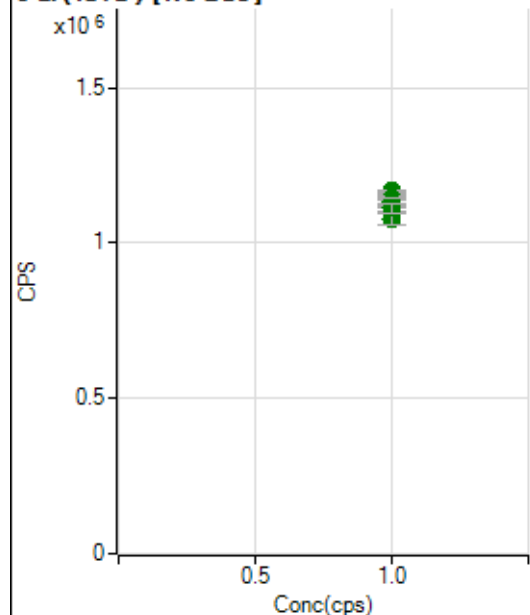
$$R = 1.0000$$

$$DL = 0.002756$$

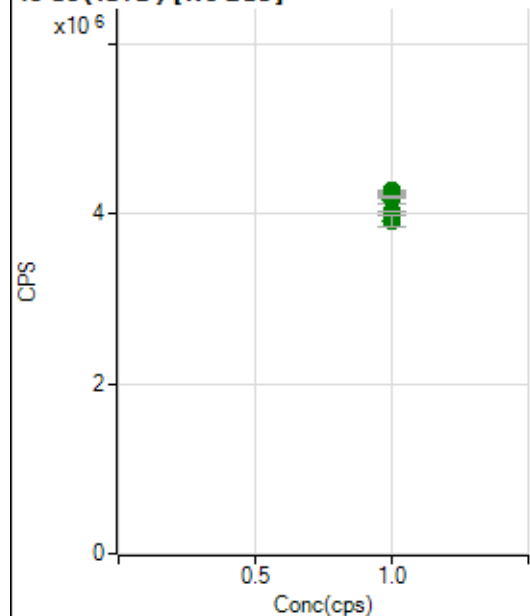
$$BEC = 0.002428$$

Weight: &lt;None&gt;

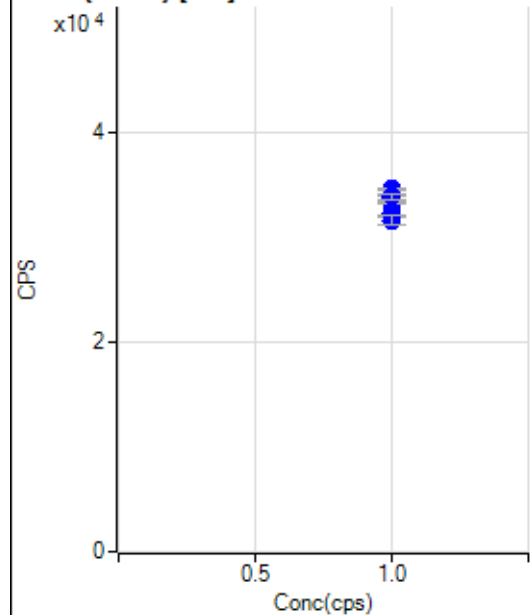
Min Conc: 0

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

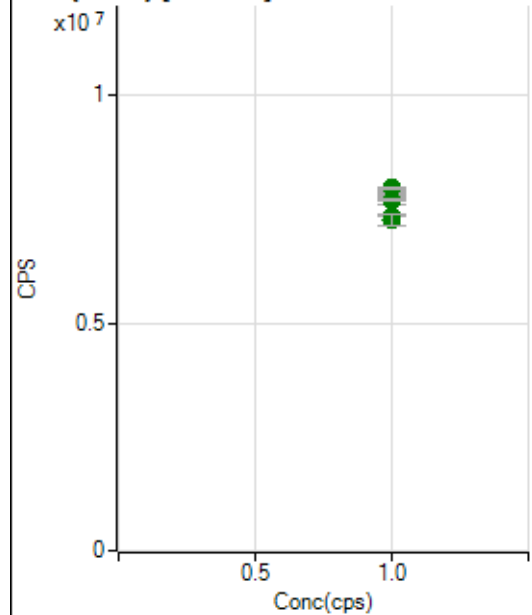
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1118409.25 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1078591.42 |       | A        | 3.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1138648.92 |       | A        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1142403.47 |       | A        | 2.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1167836.54 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1143395.71 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1131405.16 |       | A        | 1.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1111764.43 |       | A        | 2.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4023897.70 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3910190.58 |       | A        | 3.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4183599.09 |       | A        | 3.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4168685.81 |       | A        | 3.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4266413.25 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4153443.58 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4223312.64 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4188917.28 |       | A        | 0.6 |

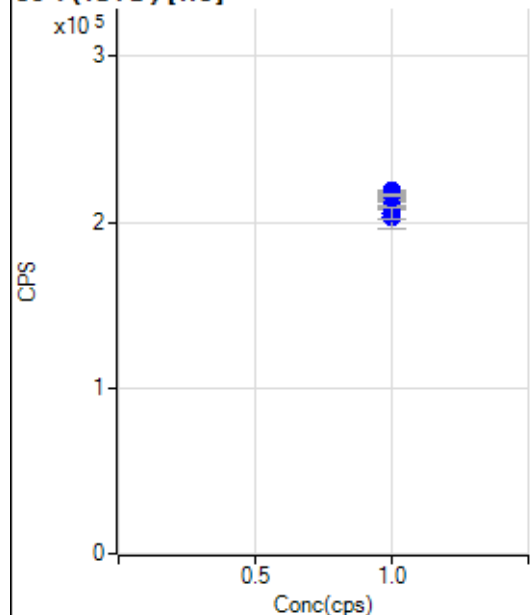
**45 Sc (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 32264.17 |       | P        | 7.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |          |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 33835.32 |       | P        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 34571.57 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 33702.73 |       | P        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 33236.12 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 31959.84 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 31559.01 |       | P        | 3.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 33823.03 |       | P        | 1.7 |

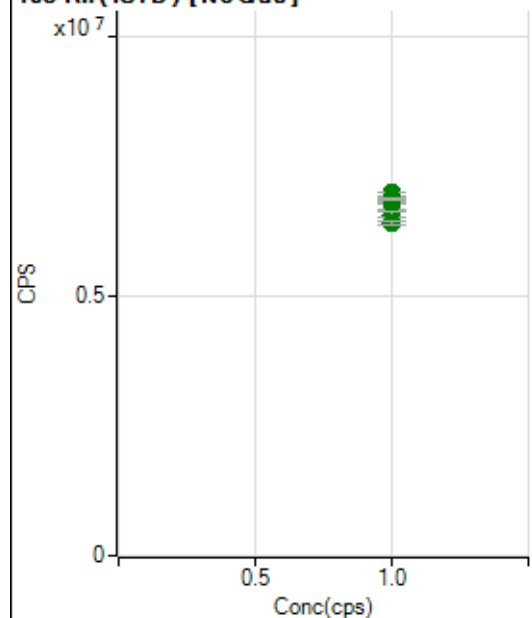
**89 Y (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7343169.82 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 7260377.11 |       | A        | 3.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7696673.15 |       | A        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7733927.66 |       | A        | 3.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7888572.17 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7834378.15 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7964271.27 |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7696679.89 |       | A        | 0.6 |

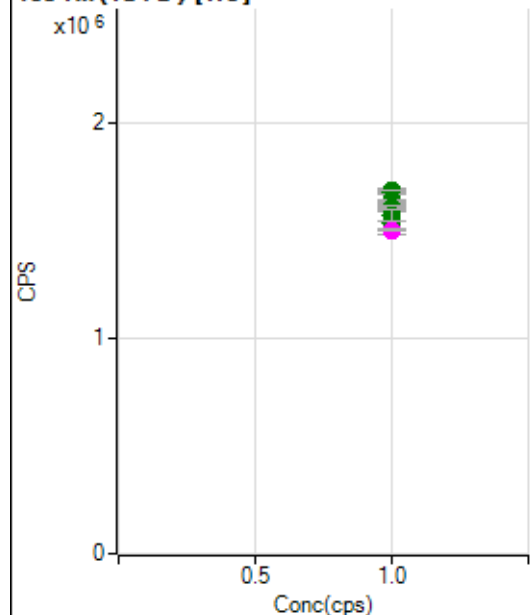


**89 Y(ISTD) [He]**

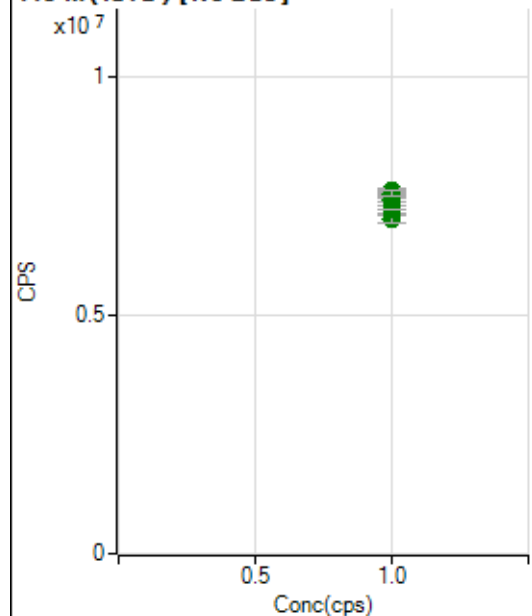
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 202699.15 |       | P        | 7.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 212353.64 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 218786.26 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 215939.62 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 214332.80 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 208840.86 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 205552.06 |       | P        | 3.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 216515.06 |       | P        | 0.3 |

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

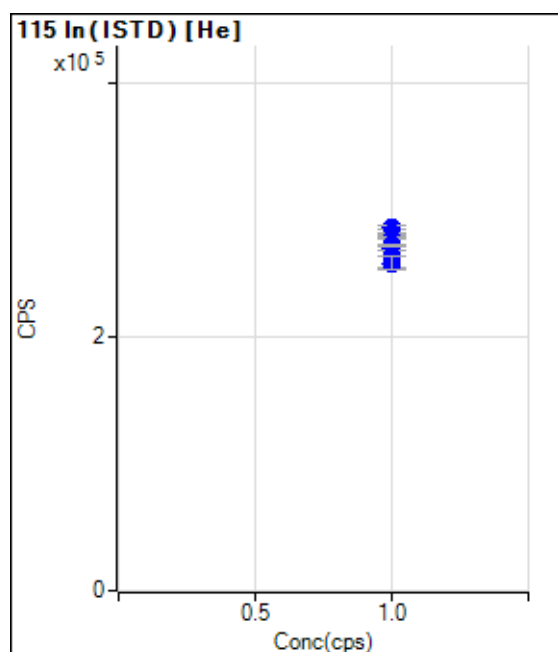
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6650159.31 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 6571876.62 |       | A        | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6863406.41 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6874961.66 |       | A        | 3.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6986449.20 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6849170.64 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6870070.12 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 6402666.29 |       | A        | 0.9 |

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

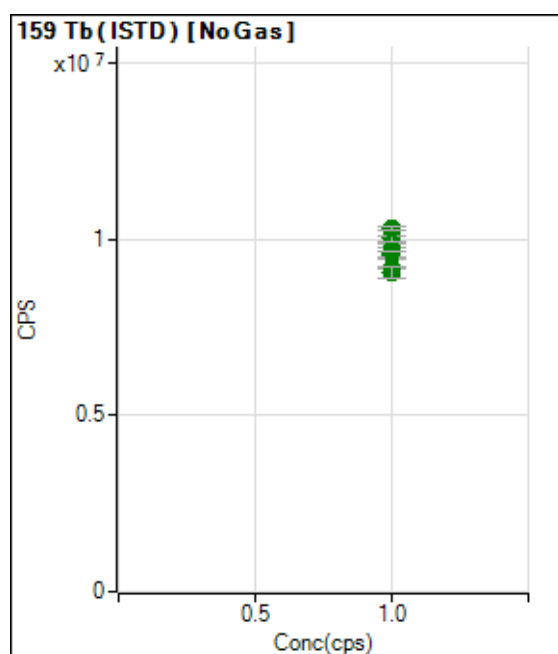
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1536120.79 |       | A        | 6.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1624841.59 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1683985.95 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1676848.93 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1638922.06 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1610750.60 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1570079.33 |       | A        | 3.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1503935.36 |       | M        | 0.4 |

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

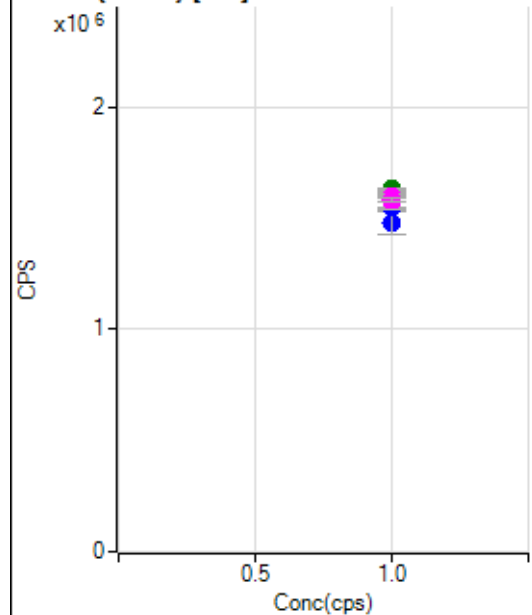
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7099714.23 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 7019843.37 |       | A        | 3.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7448306.90 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7418638.13 |       | A        | 3.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7598161.79 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7468491.54 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7550998.19 |       | A        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7197206.62 |       | A        | 0.1 |



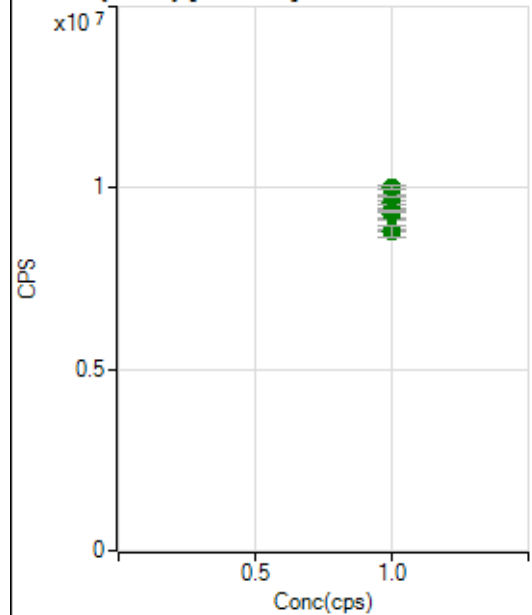
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 263410.42 |       | P        | 6.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 278699.33 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 285486.55 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 281077.73 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 277487.59 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 269251.98 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 257622.99 |       | P        | 4.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 271728.82 |       | P        | 0.7 |



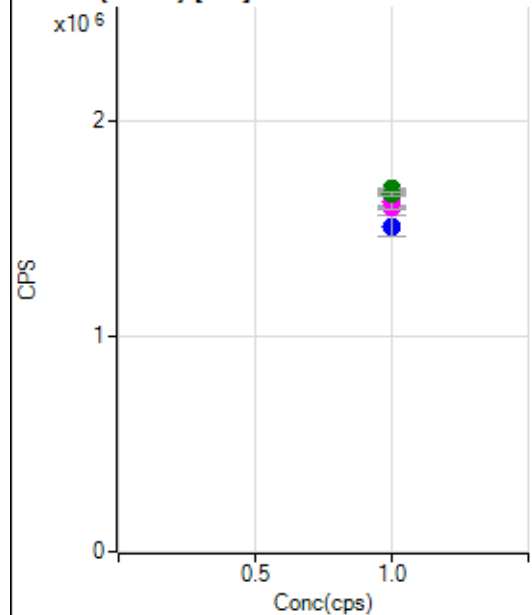
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9199516.60  |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 9044257.30  |       | A        | 3.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9545405.97  |       | A        | 2.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9640873.05  |       | A        | 2.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9932024.36  |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10033922.28 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10307166.65 |       | A        | 1.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9678279.16  |       | A        | 0.1 |

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

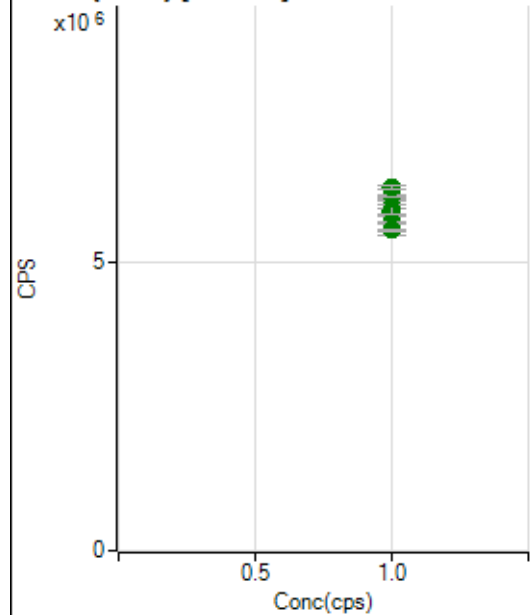
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1474436.49 |       | P        | 6.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1546880.13 |       | P        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1629099.37 |       | A        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1609652.23 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1629999.32 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1601689.13 |       | M        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1569681.69 |       | M        | 4.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1580969.30 |       | M        | 1.3 |

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

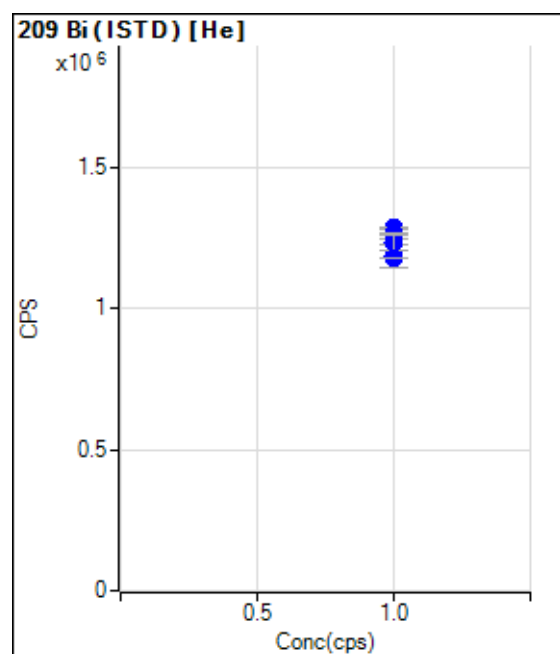
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8823482.57  |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 8799195.60  |       | A        | 3.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9268254.81  |       | A        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9284479.89  |       | A        | 2.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9612981.20  |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9768257.07  |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10005720.88 |       | A        | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9344488.40  |       | A        | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1511315.69 |       | P        | 6.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1599306.95 |       | M        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1672856.22 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1667955.98 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1682577.01 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1660343.34 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1626871.99 |       | M        | 4.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1657098.76 |       | A        | 0.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5699717.14 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5579506.86 |       | A        | 4.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5887201.86 |       | A        | 2.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5919117.20 |       | A        | 2.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6101508.38 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6164245.81 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6303087.75 |       | A        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5571491.17 |       | A        | 0.5 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1184359.25 |       | P        | 6.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1247937.83 |       | P        | 0.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1286444.88 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1282526.22 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1284064.79 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1269566.12 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1234310.36 |       | P        | 3.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1180311.37 |       | P        | 0.4 |

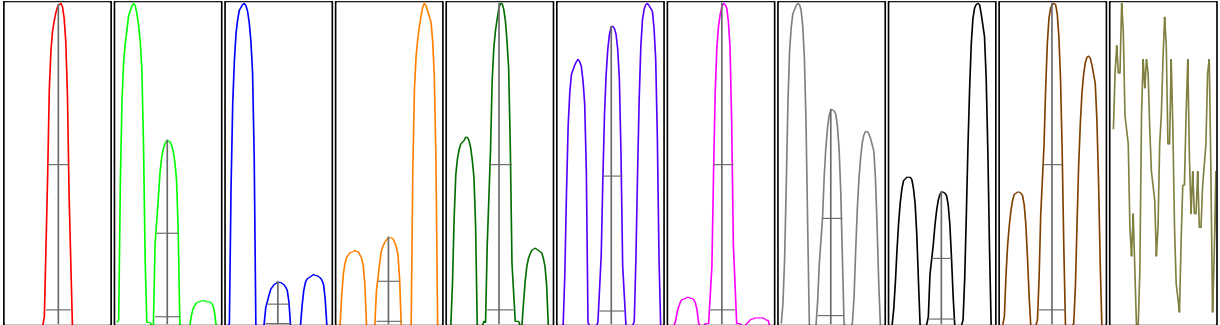
US EPA Tune Check Sample Report

Batch Folder D:\P8100617MS.b  
Report Comment  
Instrument Name G8403A JP17141814

| [No Gas] |              |               |                 |             |
|----------|--------------|---------------|-----------------|-------------|
| Mass     | Count (Mean) | RSD% (Actual) | RSD% (Required) | RSD% (Flag) |
| 9        | 8006         | 1.10          | 5.00            |             |
| 24       | 52046        | 1.16          | 5.00            |             |
| 25       | 7043         | 1.27          | 5.00            |             |
| 26       | 8232         | 1.22          | 5.00            |             |
| 59       | 87973        | 0.84          | 5.00            |             |
| 113      | 12150        | 0.79          | 5.00            |             |
| 115      | 152289       | 1.25          | 5.00            |             |
| 206      | 33859        | 0.84          | 5.00            |             |
| 207      | 30579        | 0.83          | 5.00            |             |
| 208      | 73574        | 0.81          | 5.00            |             |
| 220      | 1            | 13.54         |                 |             |

| Mass | Replicate 1 Count | Replicate 2 Count | Replicate 3 Count | Replicate 4 Count | Replicate 5 Count |
|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 9    | 8026              | 8062              | 8090              | 7988              | 7863              |
| 24   | 52556             | 52170             | 52461             | 52005             | 51040             |
| 25   | 7100              | 7049              | 7121              | 7051              | 6893              |
| 26   | 8303              | 8280              | 8293              | 8223              | 8061              |
| 59   | 88590             | 88209             | 88063             | 88312             | 86692             |
| 113  | 12161             | 12179             | 12246             | 12174             | 11990             |
| 115  | 154059            | 153348            | 152671            | 152269            | 149098            |
| 206  | 33682             | 33975             | 34107             | 34080             | 33451             |
| 207  | 30631             | 30693             | 30705             | 30734             | 30132             |
| 208  | 73735             | 73800             | 74019             | 73786             | 72531             |
| 220  | 1                 | 1                 | 1                 | 1                 | 1                 |

Integration Time [sec] = 0.1



| Mass | Peak Height | Axis (Actual) | Axis (Required) | Axis (Flag) | Width-X% (Actual) | Width-X% (Required) | Width-X% (Flag) |
|------|-------------|---------------|-----------------|-------------|-------------------|---------------------|-----------------|
| 9    | 13231       | 9.05          | 8.9 - 9.1       |             | 0.741             | 0.900               |                 |
| 24   | 85390       | 24.00         | 23.9 - 24.1     |             | 0.741             | 0.900               |                 |
| 25   | 11486       | 25.00         | 24.9 - 25.1     |             | 0.742             | 0.900               |                 |
| 26   | 13527       | 26.00         | 25.9 - 26.1     |             | 0.740             | 0.900               |                 |
| 59   | 149883      | 59.00         | 58.9 - 59.1     |             | 0.782             | 0.900               |                 |
| 113  | 22655       | 113.05        | 112.9 - 113.1   |             | 0.729             | 0.900               |                 |
| 115  | 279648      | 115.05        | 114.9 - 115.1   |             | 0.729             | 0.900               |                 |
| 206  | 61284       | 206.00        | 205.9 - 206.1   |             | 0.771             | 0.900               |                 |
| 207  | 55082       | 207.00        | 206.9 - 207.1   |             | 0.752             | 0.900               |                 |
| 208  | 132565      | 208.00        | 207.9 - 208.1   |             | 0.776             | 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 |
|---------------|-------|------|------------------|-------|-------|---------------|-------|------|
| Plasma Mode   |       | HMI  | Aerosol Dilution |       | HMI-8 |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 8.7   | V    | Deflect       | 13.8  | V    |
| Extract 2     | -245.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -100   | 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       | 200   | V    |                       |       |       |

[He]

| Mass | Count (Mean) | RSD% (Actual) | RSD% (Required) |
|------|--------------|---------------|-----------------|
| 59   | 10870        | 0.36          |                 |
| 89   | 2293         | 0.61          |                 |
| 205  | 13123        | 0.63          |                 |

| Mass | Replicate 1 Count | Replicate 2 Count | Replicate 3 Count | Replicate 4 Count | Replicate 5 Count |
|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 59   | 10890             | 10873             | 10810             | 10863             | 10916             |
| 89   | 2301              | 2276              | 2285              | 2291              | 2313              |
| 205  | 13175             | 13180             | 13026             | 13039             | 13195             |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName    | Value | Unit  | ParameterName | Value | Unit |
|---------------|-------|------|------------------|-------|-------|---------------|-------|------|
| Plasma Mode   |       | HMI  | Aerosol Dilution |       | HMI-8 |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 8.7   | V    | Deflect       | 1.8   | V    |
| Extract 2     | -245.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -100   | 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       | 5.0   | mL/min | OctP RF       | 170   | V    |                       |       |       |