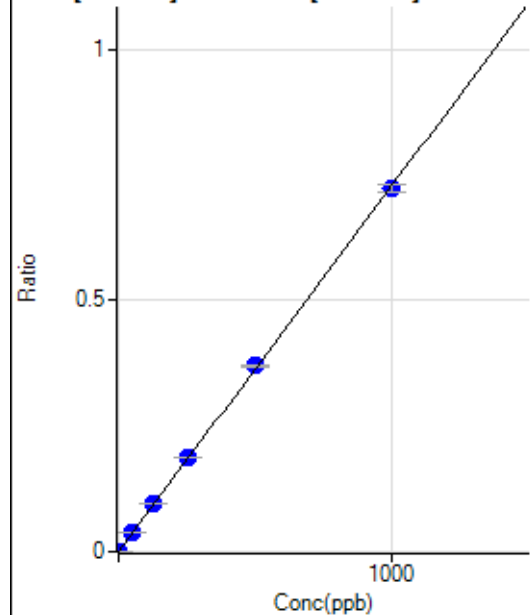


Calibration for 003CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8112420MS.b\  
 Analysis File: P8112420MS.batch.bin  
 DA Date-Time: 2020-11-24 15:45:09  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2020-11-24 12:08:33 |
| 2     | 004CALS.d          | S02         | 2020-11-24 12:11:48 |
| 3     | 005CALS.d          | S03         | 2020-11-24 12:15:00 |
| 4     | 006CALS.d          | S04         | 2020-11-24 12:18:14 |
| 5     | 007CALS.d          | S05         | 2020-11-24 12:21:22 |
| 6     | 008CALS.d          | S06         | 2020-11-24 12:24:25 |
| 7     | 010CALS.d          | S07         | 2020-11-24 12:30:24 |
| 8     | 011CALS.d          | S08         | 2020-11-24 12:33:22 |

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.99     | 0.0000 | P   | 21.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.055      | 697.21    | 0.0008 | P   | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.250     | 33521.25  | 0.0380 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 130.592    | 84660.42  | 0.0950 | P   | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 257.363    | 169700.98 | 0.1872 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 509.400    | 342605.68 | 0.3704 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.648    | 650462.35 | 0.7218 | P   | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 575.23    | 0.0006 | P   | 9.2  |

$$y = 7.2708\text{E-}004 * x + 4.9430\text{E-}005$$

$$R = 0.9999$$

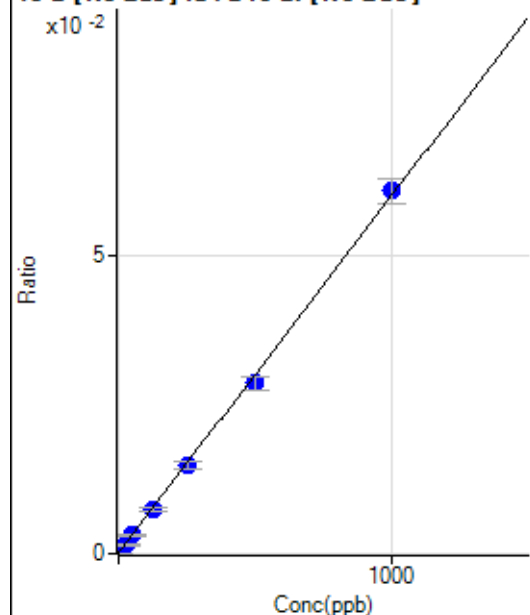
$$DL = 0.04445$$

$$BEC = 0.06798$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 127.98   | 0.0002 | P   | 13.4 |
| 2 | <input type="checkbox"/> | 25.000   | 22.245     | 1266.48  | 0.0015 | P   | 6.1  |
| 3 | <input type="checkbox"/> | 50.000   | 48.724     | 2704.39  | 0.0031 | P   | 6.0  |
| 4 | <input type="checkbox"/> | 125.000  | 122.185    | 6660.89  | 0.0075 | P   | 9.4  |
| 5 | <input type="checkbox"/> | 250.000  | 244.154    | 13400.80 | 0.0148 | P   | 7.7  |
| 6 | <input type="checkbox"/> | 500.000  | 476.289    | 26535.30 | 0.0287 | P   | 8.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1013.801   | 54875.54 | 0.0609 | P   | 6.6  |
| 8 | <input type="checkbox"/> |          |            | 8658.86  | 0.0094 | P   | 6.5  |

$$y = 5.9908\text{E-}005 * x + 1.5066\text{E-}004$$

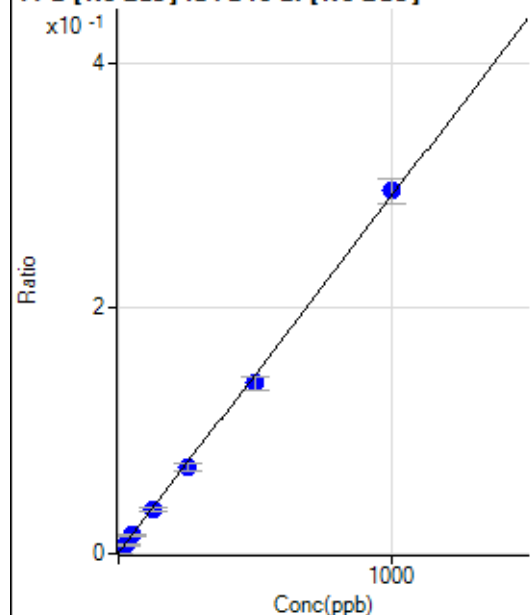
$$R = 0.9996$$

$$DL = 1.008$$

$$BEC = 2.515$$

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      | 653.89    | 0.0008 | P    | 2.8  |
| 2 | <input type="checkbox"/> | 25.000   | 21.852     | 6079.41   | 0.0071 | P    | 10.6 |
| 3 | <input type="checkbox"/> | 50.000   | 48.810     | 13173.30  | 0.0150 | P    | 9.0  |
| 4 | <input type="checkbox"/> | 125.000  | 122.199    | 32348.48  | 0.0363 | P    | 8.6  |
| 5 | <input type="checkbox"/> | 250.000  | 241.226    | 64271.12  | 0.0709 | P    | 8.1  |
| 6 | <input type="checkbox"/> | 500.000  | 475.941    | 128662.79 | 0.1391 | P    | 7.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1014.711   | 266496.74 | 0.2957 | P    | 7.1  |
| 8 | <input type="checkbox"/> |          |            | 41680.71  | 0.0453 | P    | 9.5  |

$$y = 2.9061\text{E-}004 * x + 7.6978\text{E-}004$$

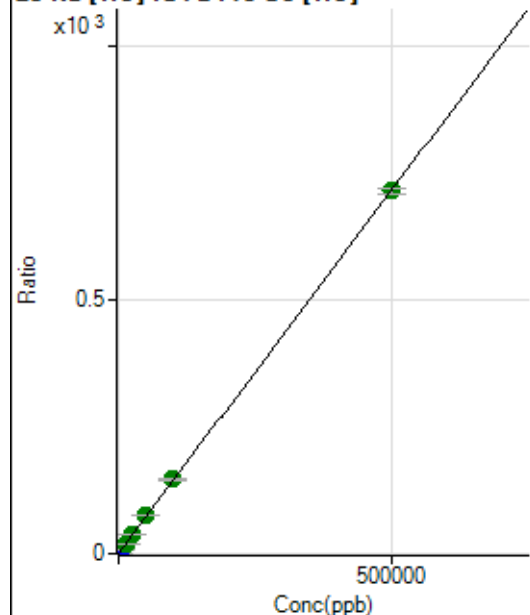
$$R = 0.9995$$

$$DL = 0.2191$$

$$BEC = 2.649$$

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      | 35666.24    | 0.4761   | P    | 1.2 |
| 2 | <input type="checkbox"/> | 500.000   | 486.517    | 87858.48    | 1.1724   | P    | 0.3 |
| 3 | <input type="checkbox"/> | 5000.000  | 5221.084   | 596661.26   | 7.9485   | P    | 1.5 |
| 4 | <input type="checkbox"/> | 12500.000 | 13107.226  | 1436171.84  | 19.2351  | A    | 1.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 26168.025  | 2817634.33  | 37.9276  | A    | 1.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 51616.794  | 5588653.08  | 74.3497  | A    | 1.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 102453.08  | 10772183.75 | 147.1061 | A    | 2.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 499271.92  | 53061703.27 | 715.0301 | A    | 1.4 |

$$y = 0.0014 * x + 0.4761$$

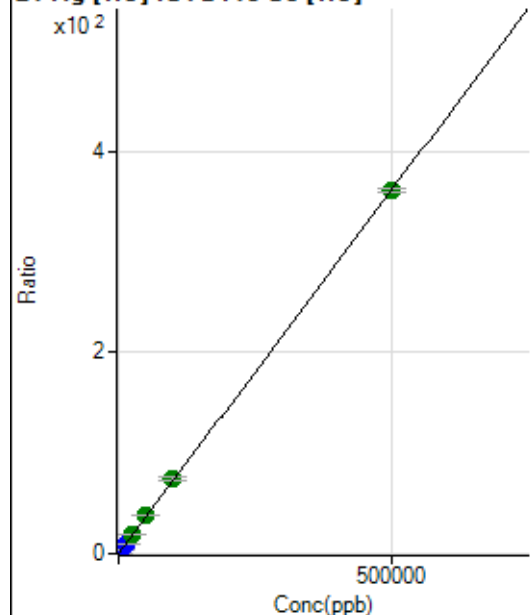
$$R = 1.0000$$

$$DL = 12.43$$

$$BEC = 332.7$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 658.37      | 0.0088   | P   | 21.7 |
| 2 | <input type="checkbox"/> | 500.000   | 496.362    | 27546.04    | 0.3676   | P   | 3.0  |
| 3 | <input type="checkbox"/> | 5000.000  | 5381.963   | 292738.18   | 3.8996   | P   | 0.9  |
| 4 | <input type="checkbox"/> | 12500.000 | 13565.605  | 732866.15   | 9.8160   | P   | 1.9  |
| 5 | <input type="checkbox"/> | 25000.000 | 26700.002  | 1434562.91  | 19.3114  | A   | 2.1  |
| 6 | <input type="checkbox"/> | 50000.000 | 52413.477  | 2848960.55  | 37.9009  | A   | 0.5  |
| 7 | <input type="checkbox"/> | 100000.00 | 103270.21  | 5467450.73  | 74.6675  | A   | 3.0  |
| 8 | <input type="checkbox"/> | 500000.00 | 498989.15  | 26771379.07 | 360.7508 | A   | 1.2  |

$$y = 7.2295E-004 * x + 0.0088$$

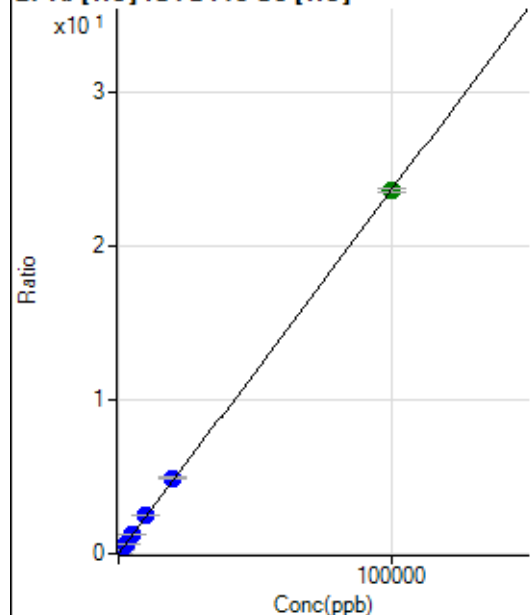
$$R = 1.0000$$

$$DL = 7.888$$

$$BEC = 12.14$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 384.96     | 0.0051  | P   | 5.1 |
| 2 | <input type="checkbox"/> | 20.000    | 20.035     | 739.93     | 0.0099  | P   | 4.3 |
| 3 | <input type="checkbox"/> | 1000.000  | 1043.799   | 18914.45   | 0.2520  | P   | 1.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 2671.992   | 47559.39   | 0.6370  | P   | 1.9 |
| 5 | <input type="checkbox"/> | 5000.000  | 5289.023   | 93292.21   | 1.2559  | P   | 2.0 |
| 6 | <input type="checkbox"/> | 10000.000 | 10483.255  | 186733.69  | 2.4842  | P   | 0.1 |
| 7 | <input type="checkbox"/> | 20000.000 | 20753.344  | 359763.26  | 4.9128  | P   | 1.9 |
| 8 | <input type="checkbox"/> | 100000.00 | 99781.817  | 1751445.20 | 23.6011 | A   | 1.0 |

$$y = 2.3648E-004 * x + 0.0051$$

$$R = 1.0000$$

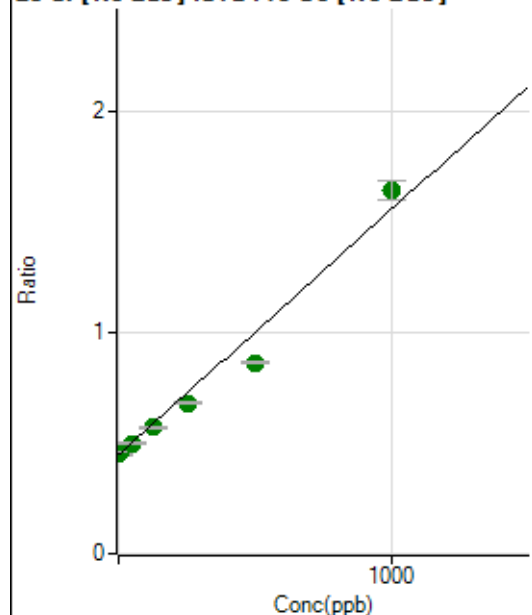
$$DL = 3.294$$

$$BEC = 21.72$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 932664.96  | 0.4483 | A        | 1.1 |
| 2 | <input type="checkbox"/> | 10.000   | 12.759     | 977326.34  | 0.4625 | A        | 1.0 |
| 3 | <input type="checkbox"/> | 50.000   | 44.719     | 1061648.53 | 0.4980 | A        | 1.0 |
| 4 | <input type="checkbox"/> | 125.000  | 109.966    | 1221123.87 | 0.5705 | A        | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 210.941    | 1471261.18 | 0.6827 | A        | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 375.594    | 1899549.87 | 0.8657 | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1074.084   | 3539796.52 | 1.6419 | A        | 5.1 |
| 8 | <input type="checkbox"/> |          |            | 1113547.89 | 0.5031 | A        | 2.8 |

$$y = 0.0011 * x + 0.4483$$

$$R = 0.9885$$

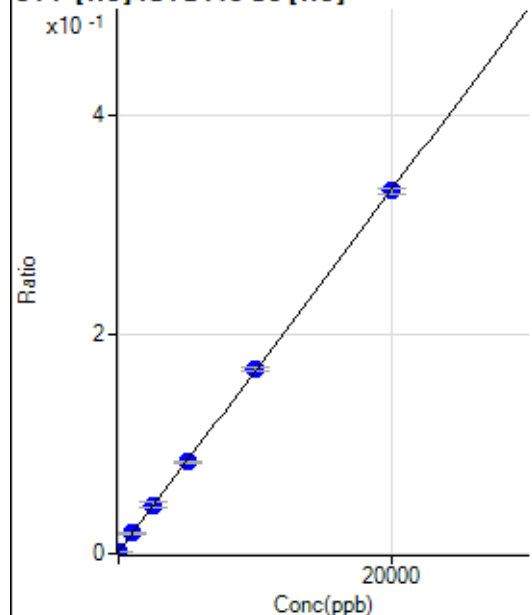
$$DL = 13.1$$

$$BEC = 403.4$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | -16.777    | 97.23    | 0.0013 | P        | 33.1 |
| 2 | <input type="checkbox"/> | 0.000     | 16.777     | 138.89   | 0.0019 | P        | 34.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 1032.081   | 1397.33  | 0.0186 | P        | 5.0  |
| 4 | <input type="checkbox"/> | 2500.000  | 2612.247   | 3336.59  | 0.0447 | P        | 8.7  |
| 5 | <input type="checkbox"/> | 5000.000  | 4957.039   | 6195.93  | 0.0834 | P        | 2.3  |
| 6 | <input type="checkbox"/> | 10000.000 | 10083.511  | 12628.07 | 0.1680 | P        | 2.1  |
| 7 | <input type="checkbox"/> | 20000.000 | 19953.350  | 24231.73 | 0.3309 | P        | 1.7  |
| 8 | <input type="checkbox"/> |           |            | 116.67   | 0.0016 | P        | 11.9 |

$$y = 1.6504E-005 * x + 0.0016$$

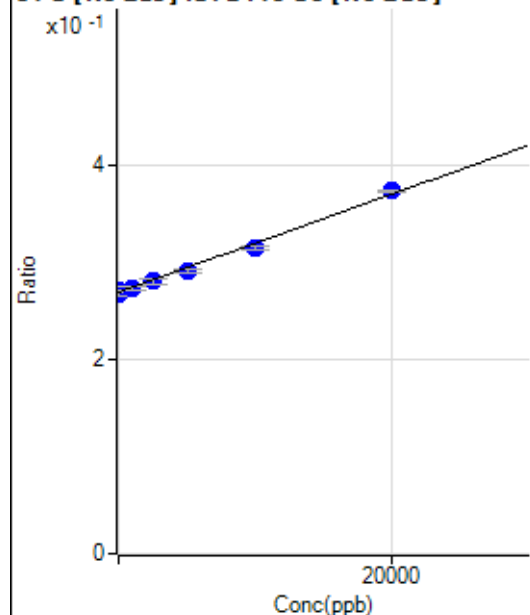
$$R = 1.0000$$

$$DL = 97.39$$

$$BEC = 95.51$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 326.568    | 562695.21 | 0.2705 | P        | 1.6 |
| 2 | <input type="checkbox"/> | 0.000     | -326.568   | 564607.71 | 0.2672 | P        | 1.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 826.471    | 581981.48 | 0.2730 | P        | 1.2 |
| 4 | <input type="checkbox"/> | 2500.000  | 2289.473   | 599977.91 | 0.2804 | P        | 2.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 4377.484   | 626781.22 | 0.2909 | P        | 1.0 |
| 6 | <input type="checkbox"/> | 10000.000 | 9077.981   | 690116.52 | 0.3145 | P        | 1.1 |
| 7 | <input type="checkbox"/> | 20000.000 | 20651.631  | 803585.00 | 0.3727 | P        | 0.3 |
| 8 | <input type="checkbox"/> |           |            | 524575.75 | 0.2369 | P        | 1.2 |

$$y = 5.0304\text{E-}006 * x + 0.2689$$

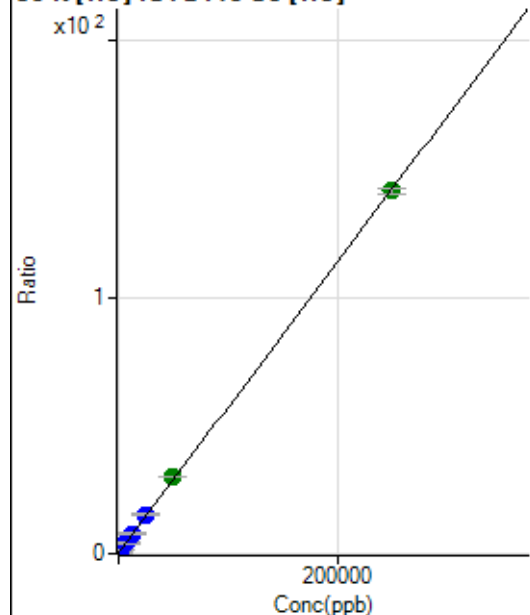
$$R = 0.9977$$

$$DL = 2384$$

$$BEC = 5.344\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 25186.38    | 0.3362   | P        | 0.1 |
| 2 | <input type="checkbox"/> | 500.000   | 488.452    | 45915.33    | 0.6127   | P        | 1.4 |
| 3 | <input type="checkbox"/> | 2500.000  | 2624.141   | 136774.96   | 1.8220   | P        | 0.3 |
| 4 | <input type="checkbox"/> | 6250.000  | 6727.052   | 309451.08   | 4.1450   | P        | 2.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 13299.005  | 584340.64   | 7.8660   | P        | 1.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 26519.541  | 1153919.16  | 15.3514  | P        | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 52462.235  | 2200003.18  | 30.0399  | A        | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249302.50  | 10499770.81 | 141.4894 | A        | 1.5 |

$$y = 5.6619\text{E-}004 * x + 0.3362$$

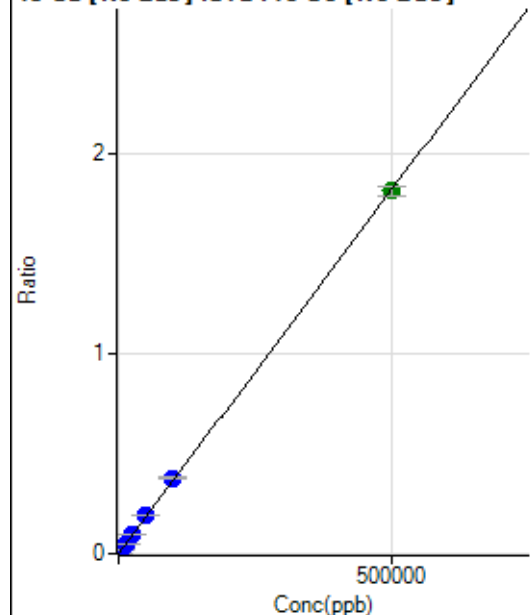
$$R = 0.9999$$

$$DL = 1.942$$

$$BEC = 593.8$$

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      | 265.80     | 0.0001 | P   | 11.8 |
| 2 | <input type="checkbox"/> | 500.000   | 498.094    | 4090.50    | 0.0019 | P   | 0.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 5324.358   | 41470.56   | 0.0195 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 12500.000 | 13227.318  | 103031.27  | 0.0481 | P   | 1.5  |
| 5 | <input type="checkbox"/> | 25000.000 | 26575.636  | 208155.79  | 0.0966 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 50000.000 | 52836.530  | 421129.51  | 0.1919 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 100000.00 | 104258.14  | 816185.05  | 0.3786 | P   | 1.4  |
| 8 | <input type="checkbox"/> | 500000.00 | 498764.51  | 4007830.98 | 1.8106 | A   | 2.5  |

$$y = 3.6300\text{E-}006 * x + 1.2768\text{E-}004$$

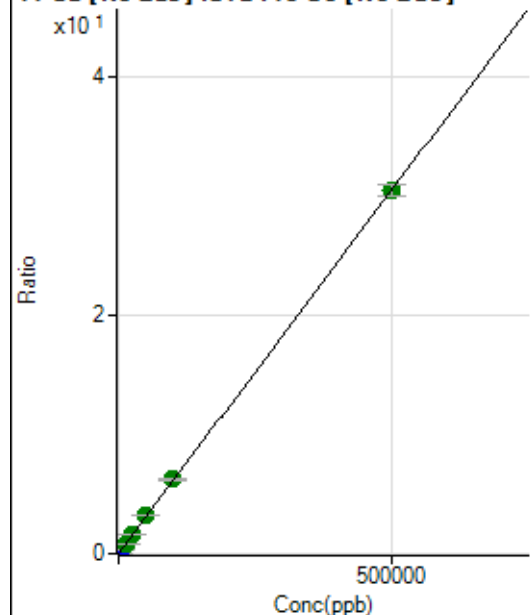
$$R = 1.0000$$

$$DL = 12.46$$

$$BEC = 35.17$$

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      | 22737.31    | 0.0109  | P   | 1.2 |
| 2 | <input type="checkbox"/> | 500.000   | 491.157    | 86222.81    | 0.0408  | P   | 1.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 5273.310   | 707121.68   | 0.3317  | P   | 1.1 |
| 4 | <input type="checkbox"/> | 12500.000 | 13266.784  | 1750766.16  | 0.8180  | A   | 0.8 |
| 5 | <input type="checkbox"/> | 25000.000 | 26391.451  | 3482936.75  | 1.6164  | A   | 1.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 51963.533  | 6959972.78  | 3.1719  | A   | 1.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 102139.41  | 13418938.17 | 6.2242  | A   | 1.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 499284.29  | 67246830.09 | 30.3829 | A   | 3.2 |

$$y = 6.0831\text{E-}005 * x + 0.0109$$

$$R = 1.0000$$

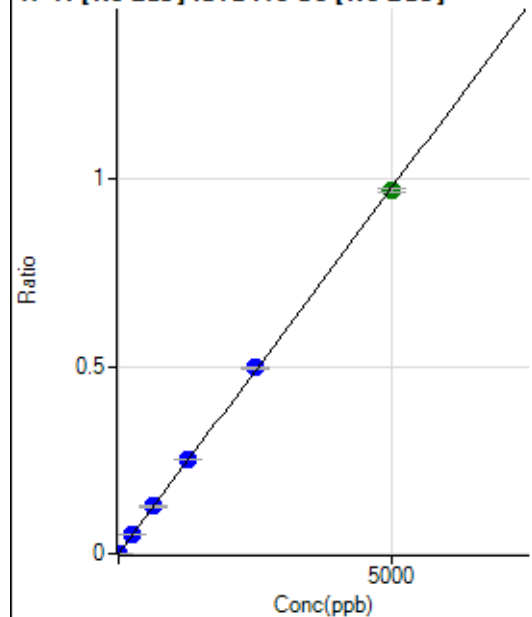
$$DL = 6.347$$

$$BEC = 179.7$$

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      | 363.90     | 0.0002 | P   | 8.9  |
| 2 | <input type="checkbox"/> | 5.000    | 4.489      | 2219.67    | 0.0011 | P   | 3.6  |
| 3 | <input type="checkbox"/> | 250.000  | 259.729    | 108328.13  | 0.0508 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 625.000  | 645.329    | 269656.06  | 0.1260 | P   | 2.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1286.910   | 541133.45  | 0.2511 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2549.950   | 1091431.74 | 0.4974 | P   | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4962.770   | 2086686.05 | 0.9679 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 675.03     | 0.0003 | P   | 16.4 |

$$y = 1.9500\text{E-}004 * x + 1.7484\text{E-}004$$

$$R = 0.9999$$

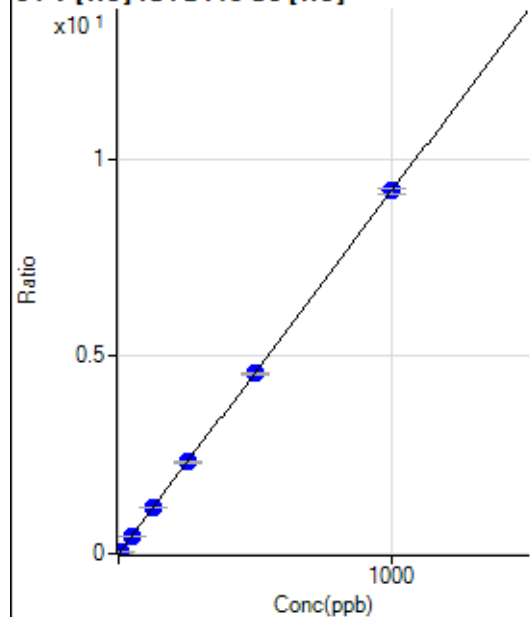
$$DL = 0.2386$$

$$BEC = 0.8967$$

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      | 7.78      | 0.0001 | P   | 49.2 |
| 2 | <input type="checkbox"/> | 5.000    | 4.720      | 3254.84   | 0.0434 | P   | 0.4  |
| 3 | <input type="checkbox"/> | 50.000   | 49.773     | 34307.69  | 0.4570 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 127.026    | 87072.54  | 1.1662 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 252.761    | 172381.56 | 2.3204 | P   | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 496.745    | 342792.04 | 4.5602 | P   | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.697   | 672738.50 | 9.1865 | P   | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 117.78    | 0.0016 | P   | 32.9 |

$$y = 0.0092 * x + 1.0359\text{E-}004$$

$$R = 1.0000$$

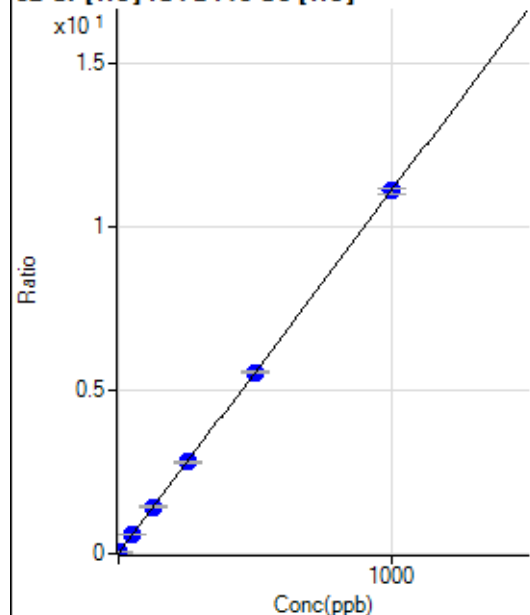
$$DL = 0.01665$$

$$BEC = 0.01128$$

Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|-----------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 628.91    | 0.0084  | P        | 1.9 |
| 2 | <input type="checkbox"/> | 2.000    | 1.942      | 2241.31   | 0.0299  | P        | 3.6 |
| 3 | <input type="checkbox"/> | 50.000   | 49.955     | 42186.44  | 0.5620  | P        | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 127.855    | 106405.38 | 1.4253  | P        | 2.2 |
| 5 | <input type="checkbox"/> | 250.000  | 251.552    | 207726.50 | 2.7960  | P        | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 499.541    | 416756.23 | 5.5442  | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 999.487    | 811732.07 | 11.0845 | P        | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 8024.54   | 0.1081  | P        | 0.4 |

$$y = 0.0111 * x + 0.0084$$

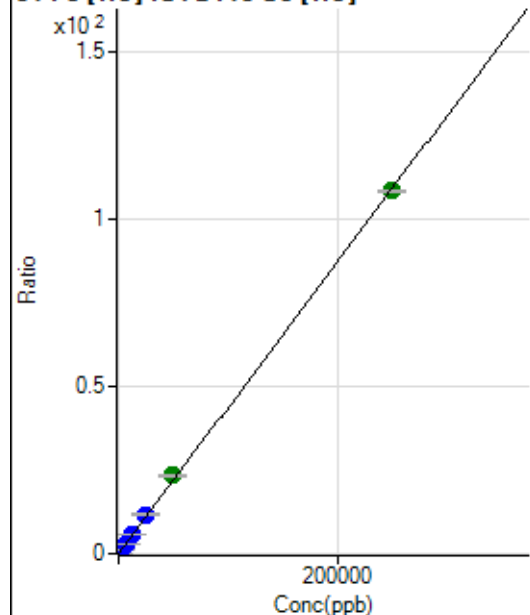
$$R = 1.0000$$

$$DL = 0.04296$$

$$BEC = 0.7575$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio    | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|----------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 372.24     | 0.0050   | P        | 13.7 |
| 2 | <input type="checkbox"/> | 50.000    | 50.154     | 2007.58    | 0.0268   | P        | 4.0  |
| 3 | <input type="checkbox"/> | 2500.000  | 2674.060   | 87743.79   | 1.1689   | P        | 1.1  |
| 4 | <input type="checkbox"/> | 6250.000  | 6880.196   | 223960.74  | 2.9996   | P        | 1.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 13544.924  | 438333.37  | 5.9004   | P        | 1.5  |
| 6 | <input type="checkbox"/> | 25000.000 | 26980.913  | 883102.74  | 11.7485  | P        | 0.8  |
| 7 | <input type="checkbox"/> | 50000.000 | 53622.723  | 1709650.77 | 23.3444  | A        | 1.0  |
| 8 | <input type="checkbox"/> | 250000.00 | 249007.62  | 8043451.80 | 108.3860 | A        | 0.8  |

$$y = 4.3525E-004 * x + 0.0050$$

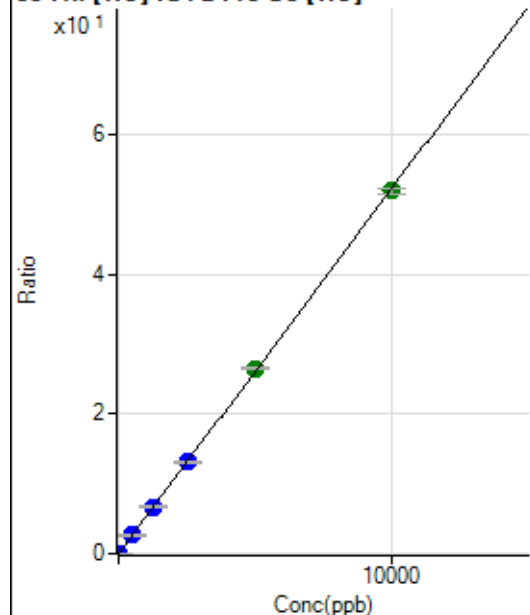
$$R = 0.9999$$

$$DL = 4.683$$

$$BEC = 11.41$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 95.56      | 0.0013  | P   | 4.9 |
| 2 | <input type="checkbox"/> | 1.000     | 1.003      | 487.79     | 0.0065  | P   | 5.1 |
| 3 | <input type="checkbox"/> | 500.000   | 503.102    | 197194.33  | 2.6269  | P   | 1.2 |
| 4 | <input type="checkbox"/> | 1250.000  | 1284.242   | 500483.95  | 6.7036  | P   | 1.9 |
| 5 | <input type="checkbox"/> | 2500.000  | 2527.196   | 979859.66  | 13.1905 | P   | 1.9 |
| 6 | <input type="checkbox"/> | 5000.000  | 5082.122   | 1993832.04 | 26.5244 | A   | 0.8 |
| 7 | <input type="checkbox"/> | 10000.000 | 9947.705   | 3802050.43 | 51.9174 | A   | 1.4 |
| 8 | <input type="checkbox"/> |           |            | 4176.21    | 0.0563  | P   | 3.9 |

$$y = 0.0052 * x + 0.0013$$

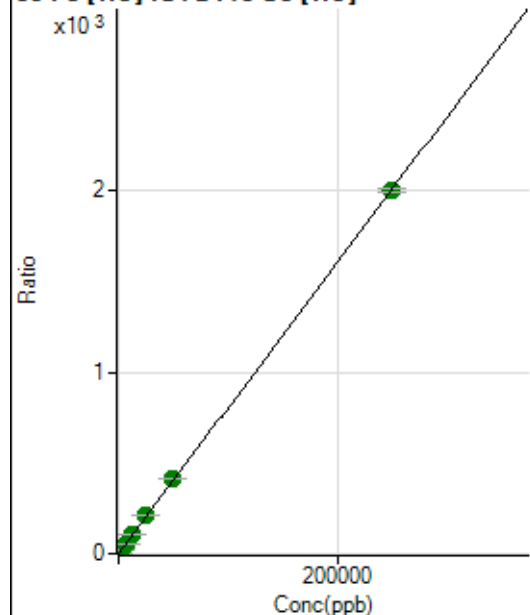
$$R = 0.9999$$

$$DL = 0.03598$$

$$BEC = 0.2444$$

Weight: &lt;None&gt;

Min Conc: 0

**56 Fe [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      | 2705.87     | 0.0361   | P   | 4.6 |
| 2 | <input type="checkbox"/> | 50.000    | 50.587     | 33081.13    | 0.4414   | P   | 0.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2623.456   | 1580577.78  | 21.0557  | A   | 1.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6726.184   | 4025871.85  | 53.9275  | A   | 2.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 13070.406  | 7783207.52  | 104.7585 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26144.676  | 15748649.43 | 209.5118 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 51730.151  | 30354938.18 | 414.5071 | A   | 1.8 |
| 8 | <input type="checkbox"/> | 250000.00 | 249497.84  | 148350568.1 | 1999.056 | A   | 1.2 |

$$y = 0.0080 * x + 0.0361$$

$$R = 1.0000$$

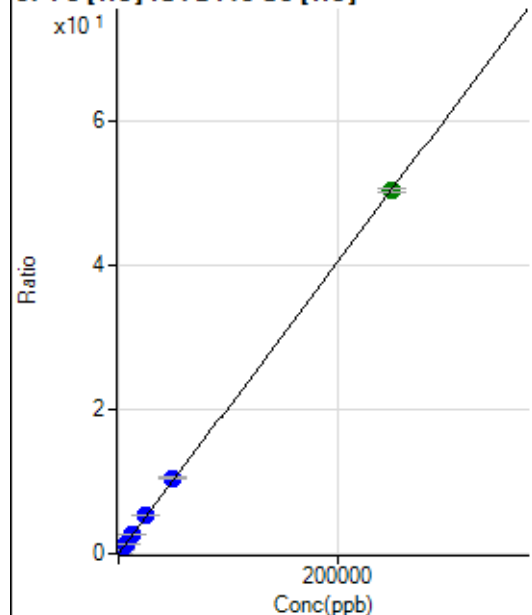
$$DL = 0.6156$$

$$BEC = 4.508$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|-----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 135.19     | 0.0018  | P        | 8.6 |
| 2 | <input type="checkbox"/> | 50.000    | 47.560     | 855.60     | 0.0114  | P        | 5.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2617.495   | 39846.50   | 0.5308  | P        | 1.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6707.608   | 101344.50  | 1.3574  | P        | 1.8 |
| 5 | <input type="checkbox"/> | 12500.000 | 13119.850  | 197107.73  | 2.6533  | P        | 1.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 25970.100  | 394646.36  | 5.2502  | P        | 0.8 |
| 7 | <input type="checkbox"/> | 50000.000 | 52059.108  | 770583.60  | 10.5227 | P        | 1.8 |
| 8 | <input type="checkbox"/> | 250000.00 | 249447.56  | 3741238.74 | 50.4139 | A        | 1.0 |

$$y = 2.0209\text{E-}004 * x + 0.0018$$

$$R = 1.0000$$

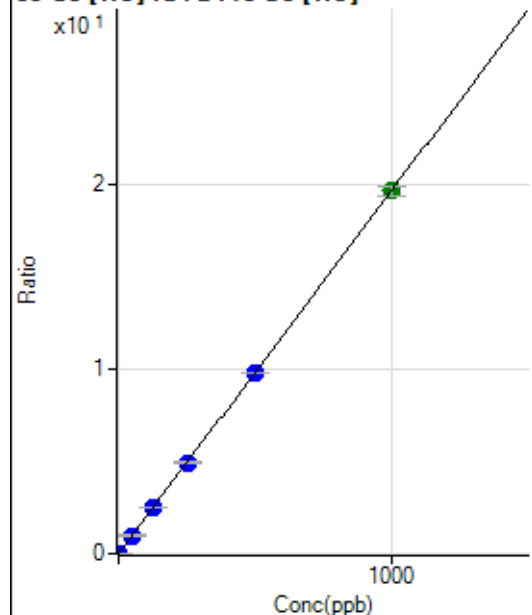
$$DL = 2.304$$

$$BEC = 8.925$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.22      | 0.0007  | P        | 15.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.910      | 1391.20    | 0.0186  | P        | 2.0  |
| 3 | <input type="checkbox"/> | 50.000   | 50.119     | 73926.16   | 0.9848  | P        | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 127.685    | 187250.19  | 2.5078  | P        | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 250.947    | 366077.26  | 4.9280  | P        | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 499.158    | 736770.95  | 9.8015  | P        | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.843    | 1437620.92 | 19.6324 | A        | 2.6  |
| 8 | <input type="checkbox"/> |          |            | 2576.93    | 0.0347  | P        | 0.8  |

$$y = 0.0196 * x + 6.9668\text{E-}004$$

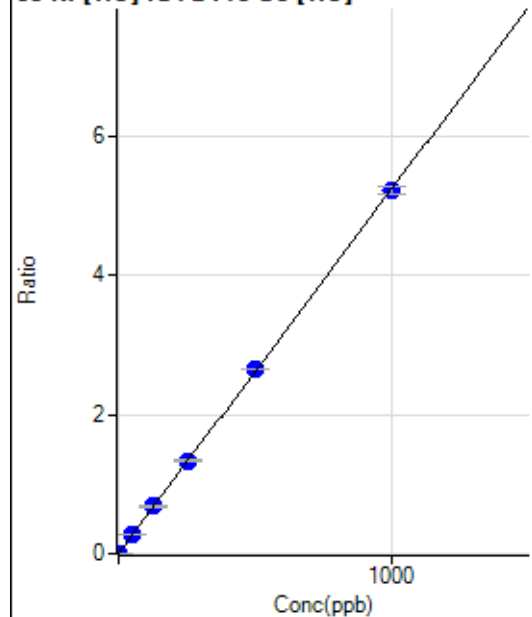
$$R = 1.0000$$

$$DL = 0.01652$$

$$BEC = 0.03548$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 224.45    | 0.0030 | P   | 20.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.998      | 615.57    | 0.0082 | P   | 9.9  |
| 3 | <input type="checkbox"/> | 50.000   | 51.296     | 20359.09  | 0.2712 | P   | 3.7  |
| 4 | <input type="checkbox"/> | 125.000  | 129.682    | 50857.18  | 0.6812 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 253.782    | 98808.82  | 1.3301 | P   | 2.2  |
| 6 | <input type="checkbox"/> | 500.000  | 505.358    | 198876.74 | 2.6457 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.725    | 381525.85 | 5.2101 | P   | 2.2  |
| 8 | <input type="checkbox"/> |          |            | 2972.56   | 0.0401 | P   | 2.8  |

$$y = 0.0052 * x + 0.0030$$

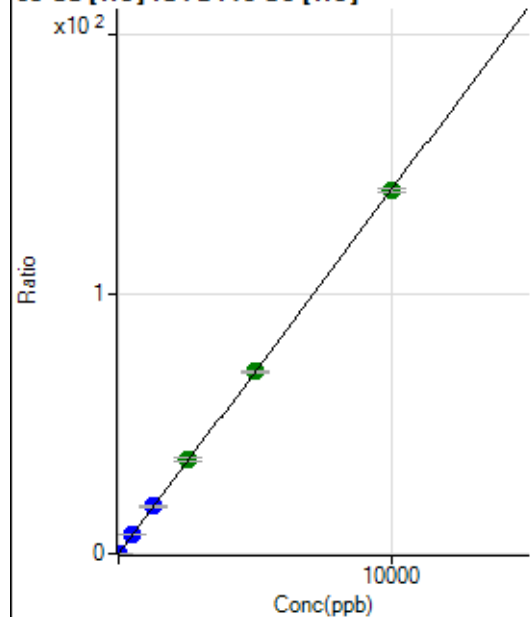
$$R = 1.0000$$

$$DL = 0.3587$$

$$BEC = 0.5734$$

Weight: &lt;None&gt;

Min Conc: 0

**63 Cu [He] ISTD:45 Sc [He]**

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 548.90      | 0.0073   | P   | 6.6 |
| 2 | <input type="checkbox"/> | 2.000     | 2.047      | 2703.62     | 0.0361   | P   | 2.8 |
| 3 | <input type="checkbox"/> | 500.000   | 512.162    | 540636.63   | 7.2019   | P   | 0.7 |
| 4 | <input type="checkbox"/> | 1250.000  | 1302.735   | 1366830.71  | 18.3074  | P   | 1.8 |
| 5 | <input type="checkbox"/> | 2500.000  | 2588.963   | 2701980.45  | 36.3756  | A   | 2.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5010.134   | 5290789.12  | 70.3867  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 9965.492   | 10252648.32 | 139.9967 | A   | 1.1 |
| 8 | <input type="checkbox"/> |           |            | 7754.41     | 0.1045   | P   | 2.4 |

$$y = 0.0140 * x + 0.0073$$

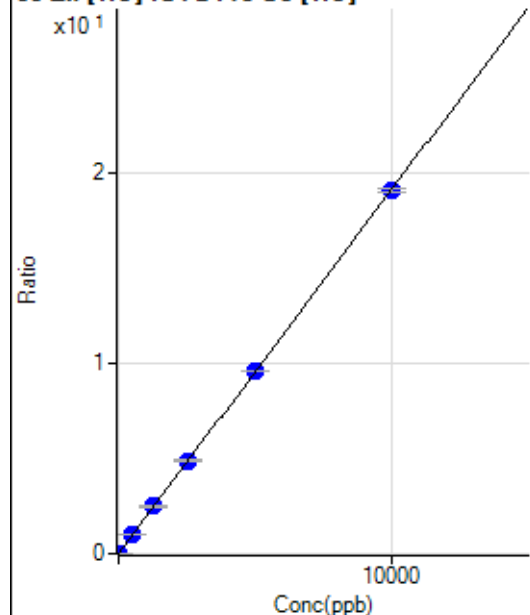
$$R = 0.9999$$

$$DL = 0.1029$$

$$BEC = 0.5214$$

Weight: &lt;None&gt;

Min Conc: 0

**66 Zn [He] ISTD:45 Sc [He]**

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 94.45      | 0.0013  | P   | 25.1 |
| 2 | <input type="checkbox"/> | 2.000     | 2.119      | 397.79     | 0.0053  | P   | 12.0 |
| 3 | <input type="checkbox"/> | 500.000   | 505.507    | 72505.17   | 0.9659  | P   | 1.0  |
| 4 | <input type="checkbox"/> | 1250.000  | 1298.184   | 185035.19  | 2.4784  | P   | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2542.297   | 360477.53  | 4.8525  | P   | 1.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5031.459   | 721793.31  | 9.6023  | P   | 0.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9967.398   | 1392986.78 | 19.0210 | P   | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 4800.86    | 0.0647  | P   | 1.9  |

$$y = 0.0019 * x + 0.0013$$

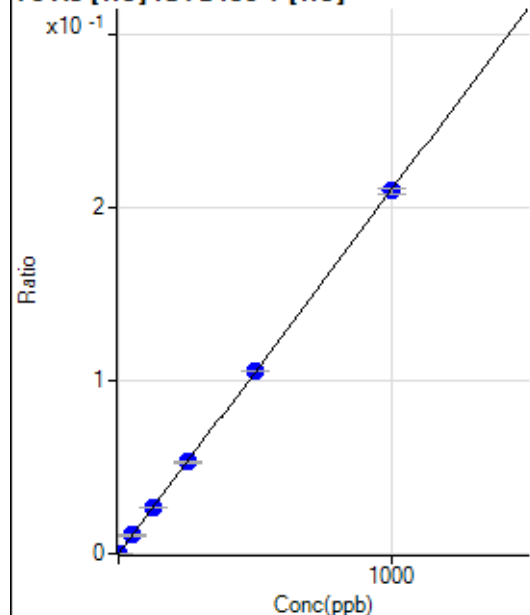
$$R = 1.0000$$

$$DL = 0.4976$$

$$BEC = 0.6609$$

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      | 7.33      | 0.0000 | P   | 28.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.014      | 114.01    | 0.0002 | P   | 9.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.263     | 5296.20   | 0.0106 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 127.535    | 13332.95  | 0.0268 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 251.933    | 26447.96  | 0.0529 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 503.217    | 53083.97  | 0.1057 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.578    | 103761.00 | 0.2096 | P   | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 53.34     | 0.0001 | P   | 9.4  |

$$y = 2.1010E-004 * x + 1.4627E-005$$

$$R = 1.0000$$

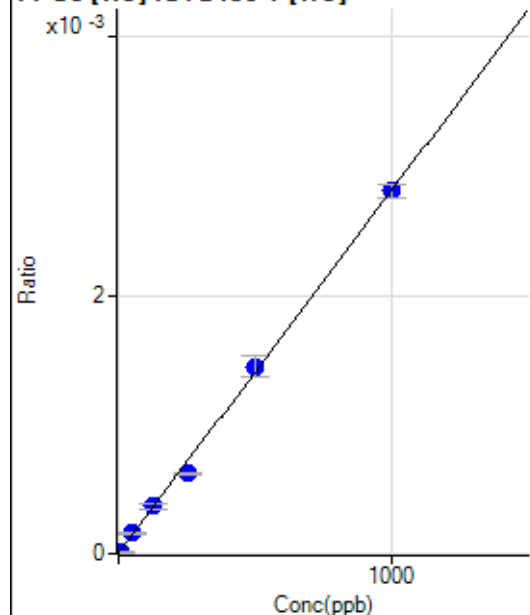
$$DL = 0.05957$$

$$BEC = 0.06962$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|---------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.22    | 0.0000 | P   | 86.6  |
| 2 | <input type="checkbox"/> | 5.000    | 1.582      | 4.44    | 0.0000 | P   | 43.5  |
| 3 | <input type="checkbox"/> | 50.000   | 56.113     | 81.11   | 0.0002 | P   | 11.0  |
| 4 | <input type="checkbox"/> | 125.000  | 129.881    | 183.34  | 0.0004 | P   | 13.1  |
| 5 | <input type="checkbox"/> | 250.000  | 220.210    | 311.12  | 0.0006 | P   | 2.2   |
| 6 | <input type="checkbox"/> | 500.000  | 514.655    | 727.80  | 0.0014 | P   | 11.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.221    | 1391.19 | 0.0028 | P   | 3.6   |
| 8 | <input type="checkbox"/> |          |            | 1.11    | 0.0000 | P   | 173.2 |

$$y = 2.8083E-006 * x + 4.4322E-006$$

$$R = 0.9993$$

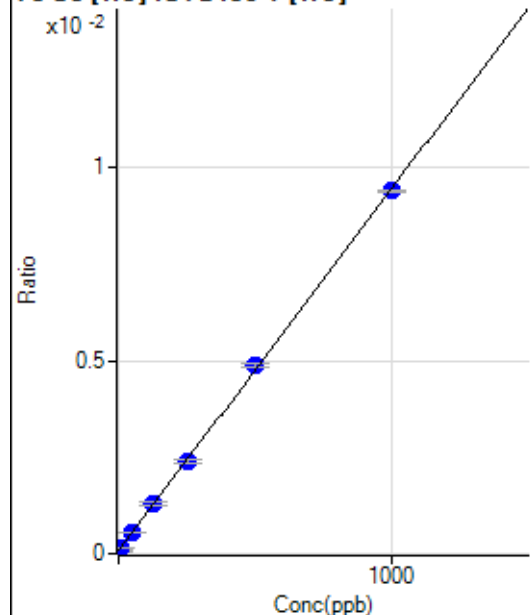
$$DL = 4.1$$

$$BEC = 1.578$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|---------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.67   | 0.0001 | P   | 7.6 |
| 2 | <input type="checkbox"/> | 5.000    | 6.042      | 67.01   | 0.0001 | P   | 6.6 |
| 3 | <input type="checkbox"/> | 50.000   | 50.710     | 277.03  | 0.0006 | P   | 4.6 |
| 4 | <input type="checkbox"/> | 125.000  | 131.100    | 649.75  | 0.0013 | P   | 7.1 |
| 5 | <input type="checkbox"/> | 250.000  | 246.399    | 1193.84 | 0.0024 | P   | 3.4 |
| 6 | <input type="checkbox"/> | 500.000  | 511.155    | 2446.46 | 0.0049 | P   | 2.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.520    | 4658.24 | 0.0094 | P   | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 37.33   | 0.0001 | P   | 4.2 |

$$y = 9.3834E-006 * x + 7.7094E-005$$

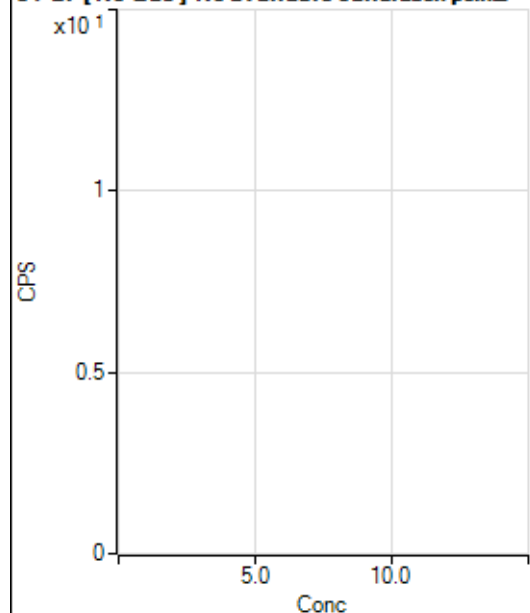
$$R = 0.9999$$

$$DL = 1.883$$

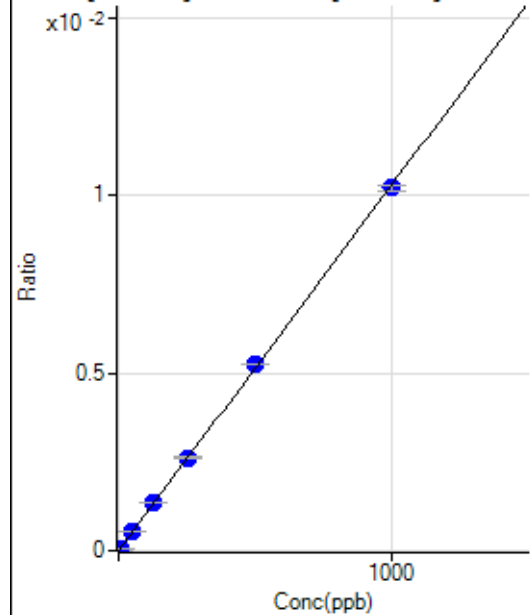
$$BEC = 8.216$$

Weight: &lt;None&gt;

Min Conc: 0

**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3664.27 |       | P        | 7.3  |
| 2 | <input type="checkbox"/> |       |            | 3991.37 |       | P        | 3.7  |
| 3 | <input type="checkbox"/> |       |            | 3921.26 |       | P        | 7.2  |
| 4 | <input type="checkbox"/> |       |            | 3968.01 |       | P        | 2.9  |
| 5 | <input type="checkbox"/> |       |            | 3771.07 |       | P        | 2.9  |
| 6 | <input type="checkbox"/> |       |            | 3801.10 |       | P        | 1.1  |
| 7 | <input type="checkbox"/> |       |            | 3761.05 |       | P        | 8.7  |
| 8 | <input type="checkbox"/> |       |            | 3834.51 |       | P        | 10.9 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD   |
|---|--------------------------|----------|------------|----------|--------|----------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -6.91    | 0.0000 | P        | -171. |
| 2 | <input type="checkbox"/> | 5.000    | 5.244      | 238.23   | 0.0001 | P        | 15.9  |
| 3 | <input type="checkbox"/> | 50.000   | 50.630     | 2386.57  | 0.0005 | P        | 2.0   |
| 4 | <input type="checkbox"/> | 125.000  | 130.441    | 6183.96  | 0.0013 | P        | 0.8   |
| 5 | <input type="checkbox"/> | 250.000  | 254.668    | 12217.49 | 0.0026 | P        | 1.8   |
| 6 | <input type="checkbox"/> | 500.000  | 510.566    | 24748.60 | 0.0053 | P        | 0.6   |
| 7 | <input type="checkbox"/> | 1000.000 | 992.837    | 47394.03 | 0.0102 | P        | 1.3   |
| 8 | <input type="checkbox"/> |          |            | 66.38    | 0.0000 | P        | 16.4  |

$$y = 1.0290E-005 * x - 1.5280E-006$$

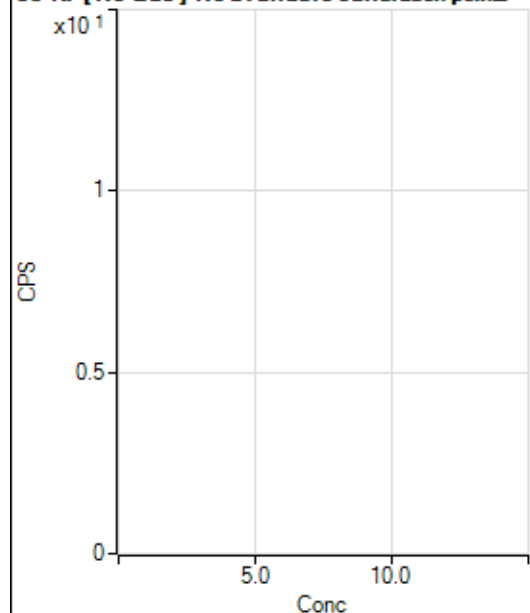
$$R = 0.9999$$

$$DL = 0.7619$$

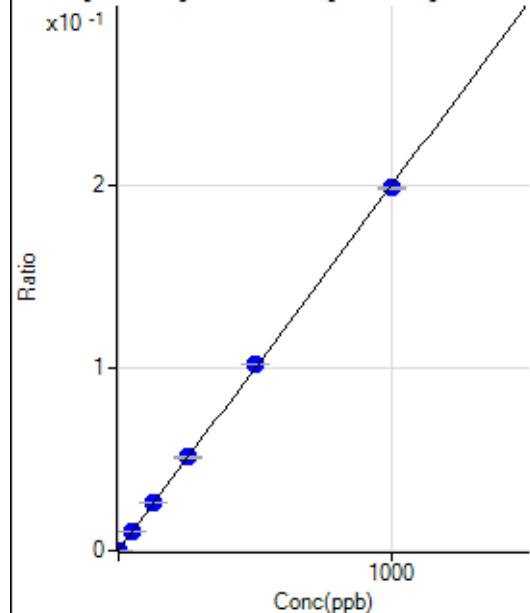
$$BEC = -0.1485$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 393.34 |       | P        | 5.2  |
| 2 | <input type="checkbox"/> |       |            | 403.35 |       | P        | 11.4 |
| 3 | <input type="checkbox"/> |       |            | 432.24 |       | P        | 14.3 |
| 4 | <input type="checkbox"/> |       |            | 367.79 |       | P        | 8.4  |
| 5 | <input type="checkbox"/> |       |            | 421.12 |       | P        | 6.0  |
| 6 | <input type="checkbox"/> |       |            | 413.34 |       | P        | 14.1 |
| 7 | <input type="checkbox"/> |       |            | 394.45 |       | P        | 13.7 |
| 8 | <input type="checkbox"/> |       |            | 367.79 |       | P        | 6.2  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 675.04    | 0.0001 | P        | 2.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.985      | 1575.13   | 0.0003 | P        | 4.1 |
| 3 | <input type="checkbox"/> | 50.000   | 51.195     | 47709.60  | 0.0104 | P        | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 129.991    | 120542.74 | 0.0261 | P        | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 255.434    | 238902.76 | 0.0512 | P        | 1.7 |
| 6 | <input type="checkbox"/> | 500.000  | 509.703    | 480817.30 | 0.1020 | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.106    | 921808.31 | 0.1987 | P        | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 5790.24   | 0.0012 | P        | 2.9 |

$$y = 1.9989E-004 * x + 1.4985E-004$$

$$R = 0.9999$$

$$DL = 0.05117$$

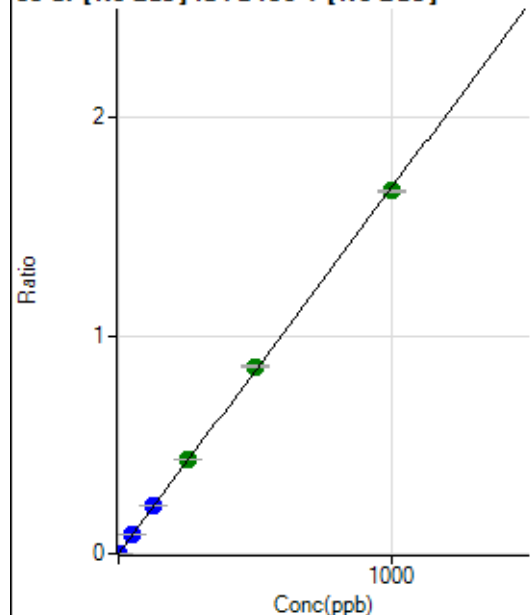
$$BEC = 0.7497$$

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      | 111.12     | 0.0000 | P   | 18.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.020      | 7880.27    | 0.0017 | P   | 3.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.238     | 402549.77  | 0.0876 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 131.032    | 1013416.18 | 0.2197 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 256.295    | 2004954.08 | 0.4297 | A   | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 512.133    | 4046277.26 | 0.8587 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.494    | 7713409.90 | 1.6624 | A   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 43802.58   | 0.0092 | P   | 1.7  |

$$y = 0.0017 * x + 2.4662E-005$$

$$R = 0.9999$$

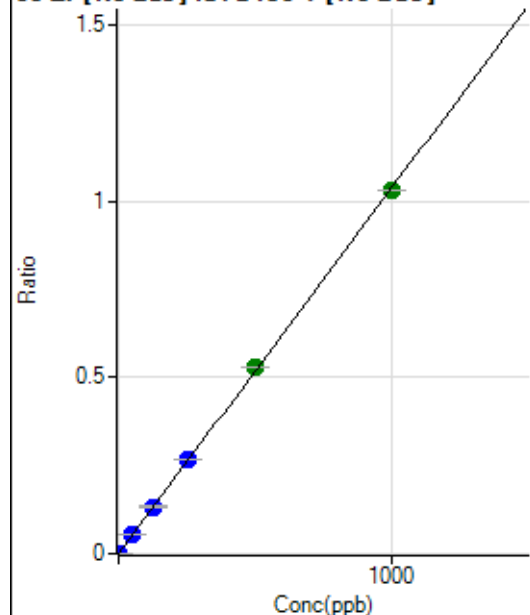
$$DL = 0.008239$$

$$BEC = 0.01471$$

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      | 191.67     | 0.0000 | P   | 26.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.973      | 4778.74    | 0.0011 | P   | 7.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.393     | 245005.95  | 0.0533 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 128.833    | 616258.27  | 0.1336 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 257.292    | 1244678.48 | 0.2668 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 509.977    | 2491735.82 | 0.5288 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.640    | 4775269.90 | 1.0292 | A   | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 1650.14    | 0.0003 | P   | 7.4  |

$$y = 0.0010 * x + 4.2580E-005$$

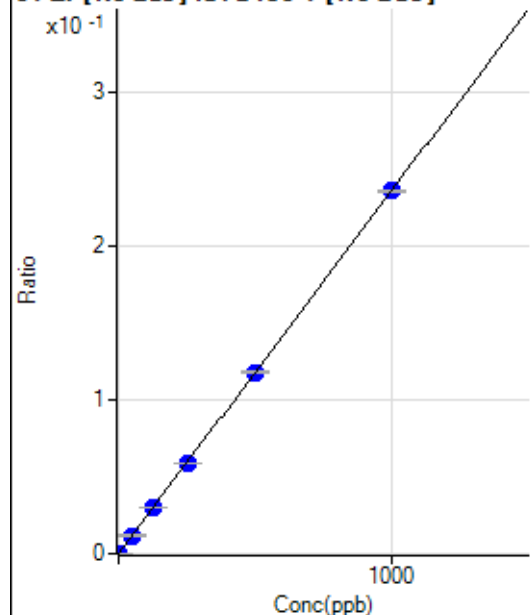
$$R = 0.9999$$

$$DL = 0.03265$$

$$BEC = 0.04107$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78      | 0.0000 | P        | 18.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.878      | 994.50     | 0.0002 | P        | 8.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.034     | 54351.07   | 0.0118 | P        | 1.9  |
| 4 | <input type="checkbox"/> | 125.000  | 126.280    | 137628.82  | 0.0298 | P        | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 249.044    | 274496.57  | 0.0588 | P        | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 500.232    | 556833.33  | 0.1182 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.962    | 1095980.78 | 0.2362 | P        | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 388.90     | 0.0001 | P        | 7.4  |

$$y = 2.3620\text{E-}004 * x + 1.1721\text{E-}005$$

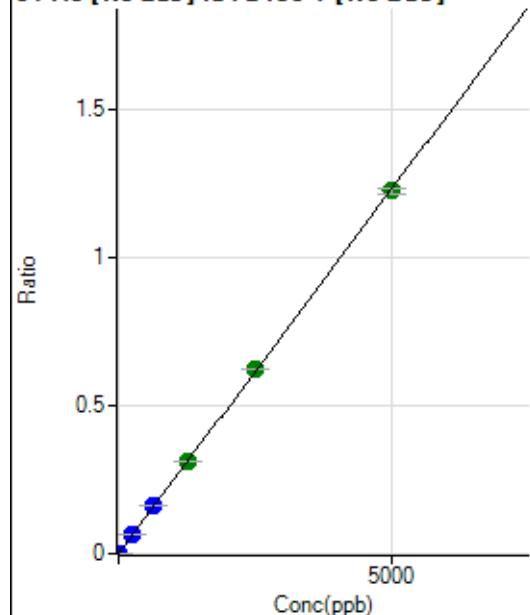
$$R = 1.0000$$

$$DL = 0.02754$$

$$BEC = 0.04962$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 86.11      | 0.0000 | P        | 19.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.937      | 5606.83    | 0.0012 | P        | 6.1  |
| 3 | <input type="checkbox"/> | 250.000  | 260.951    | 295307.13  | 0.0643 | P        | 1.8  |
| 4 | <input type="checkbox"/> | 625.000  | 651.723    | 740281.84  | 0.1605 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1264.855   | 1453229.21 | 0.3115 | A        | 0.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2528.061   | 2933600.91 | 0.6225 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4978.368   | 5688190.19 | 1.2259 | A        | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 2575.32    | 0.0005 | P        | 7.5  |

$$y = 2.4624\text{E-}004 * x + 1.9105\text{E-}005$$

$$R = 1.0000$$

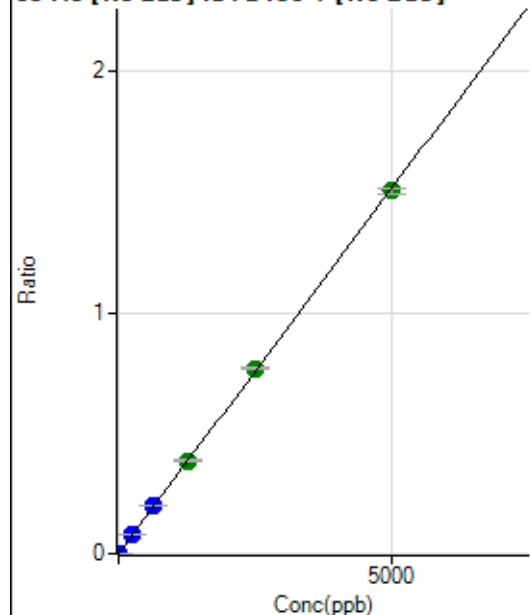
$$DL = 0.04601$$

$$BEC = 0.07759$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22      | 0.0000 | P        | 94.3 |
| 2 | <input type="checkbox"/> | 5.000    | 5.031      | 6938.06    | 0.0015 | P        | 2.7  |
| 3 | <input type="checkbox"/> | 250.000  | 257.519    | 358147.57  | 0.0780 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 653.274    | 912076.02  | 0.1977 | P        | 1.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1274.952   | 1800362.58 | 0.3859 | A        | 1.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2540.065   | 3622962.19 | 0.7688 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4969.819   | 6979845.03 | 1.5043 | A        | 1.5  |
| 8 | <input type="checkbox"/> |          |            | 3600.57    | 0.0008 | P        | 8.0  |

$$y = 3.0268\text{E-}004 * x + 4.9203\text{E-}006$$

$$R = 0.9999$$

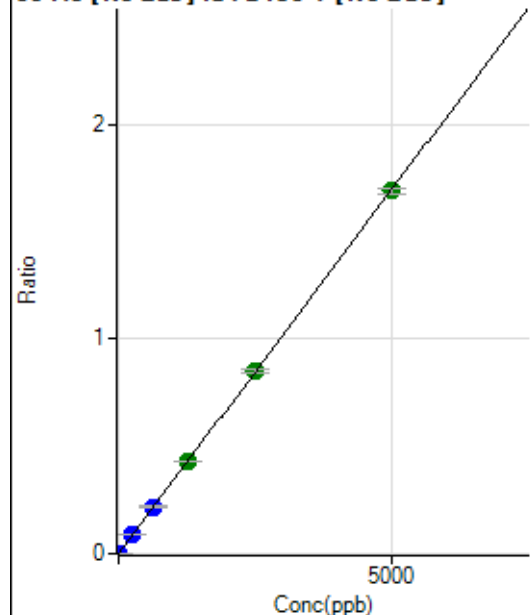
$$DL = 0.04599$$

$$BEC = 0.01626$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00      | 0.0000 | P        | 33.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.755      | 7343.79    | 0.0016 | P        | 5.0  |
| 3 | <input type="checkbox"/> | 250.000  | 254.222    | 395896.21  | 0.0862 | P        | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 645.638    | 1009258.67 | 0.2188 | P        | 1.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1267.505   | 2004118.01 | 0.4296 | A        | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2514.066   | 4014888.98 | 0.8520 | A        | 1.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4985.800   | 7840185.07 | 1.6897 | A        | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 4428.61    | 0.0009 | P        | 11.5 |

$$y = 3.3890\text{E-}004 * x + 5.5548\text{E-}006$$

$$R = 1.0000$$

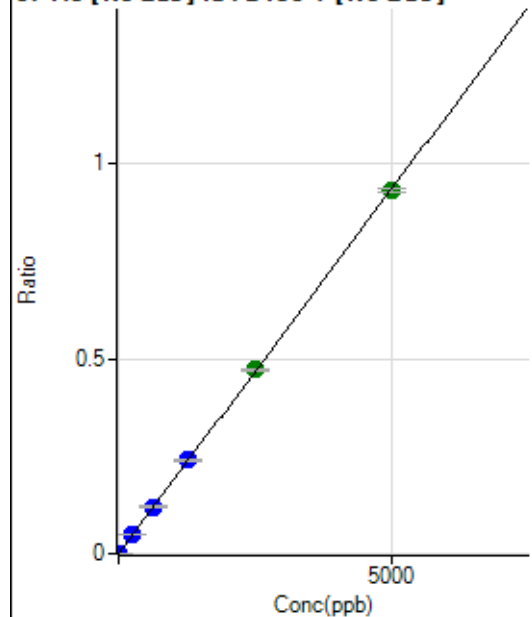
$$DL = 0.01658$$

$$BEC = 0.01639$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22      | 0.0000 | P   | 43.2 |
| 2 | <input type="checkbox"/> | 5.000    | 4.907      | 4192.41    | 0.0009 | P   | 5.6  |
| 3 | <input type="checkbox"/> | 250.000  | 255.292    | 219497.19  | 0.0478 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 625.000  | 645.842    | 557377.29  | 0.1208 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1287.336   | 1123672.27 | 0.2409 | P   | 2.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2523.324   | 2224776.77 | 0.4721 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4976.134   | 4319983.21 | 0.9310 | A   | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 2266.91    | 0.0005 | P   | 11.4 |

$$y = 1.8710E-004 * x + 4.9319E-006$$

$$R = 0.9999$$

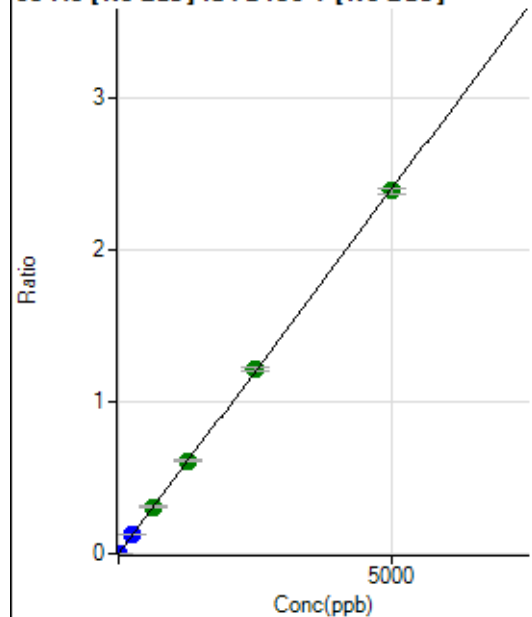
$$DL = 0.03414$$

$$BEC = 0.02636$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89       | 0.0000 | P   | 69.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.911      | 10723.90    | 0.0024 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 250.000  | 258.807    | 570923.86   | 0.1243 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 625.000  | 642.387    | 1422677.40  | 0.3084 | A   | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1276.070   | 2858286.98  | 0.6127 | A   | 1.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2529.016   | 5721630.60  | 1.2142 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4976.361   | 11086208.32 | 2.3893 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 5331.74     | 0.0011 | P   | 10.8 |

$$y = 4.8012E-004 * x + 3.0885E-006$$

$$R = 1.0000$$

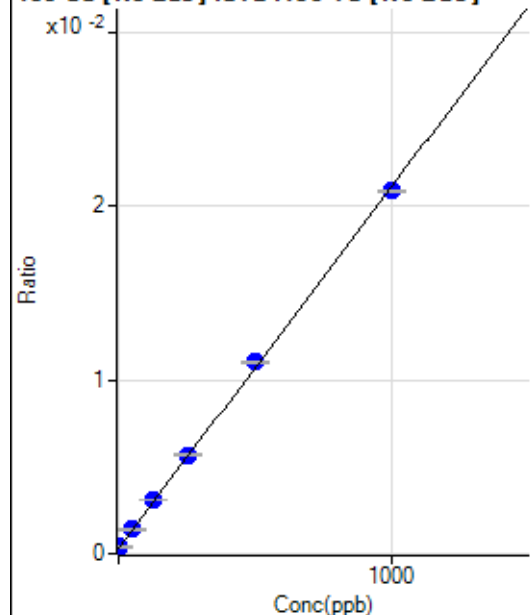
$$DL = 0.01346$$

$$BEC = 0.006433$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 991.74   | 0.0003 | P   | 7.9  |
| 2 | <input type="checkbox"/> | 1.000    | 3.978      | 1286.20  | 0.0004 | P   | 14.8 |
| 3 | <input type="checkbox"/> | 50.000   | 52.645     | 4662.04  | 0.0014 | P   | 3.5  |
| 4 | <input type="checkbox"/> | 125.000  | 134.128    | 10373.66 | 0.0031 | P   | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 259.030    | 19211.02 | 0.0057 | P   | 2.8  |
| 6 | <input type="checkbox"/> | 500.000  | 514.667    | 37872.09 | 0.0110 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.132    | 71010.64 | 0.0209 | P   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 1230.64  | 0.0004 | P   | 1.9  |

$$y = 2.0778\text{E-}005 * x + 3.0771\text{E-}004$$

$$R = 0.9998$$

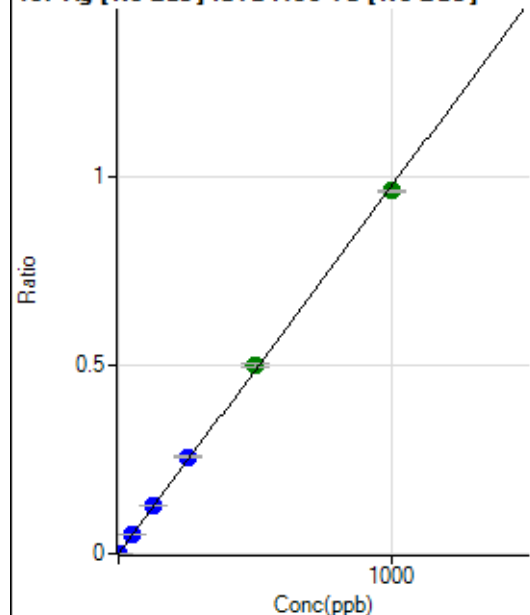
$$DL = 3.488$$

$$BEC = 14.81$$

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      | 47.22      | 0.0000 | P   | 44.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.046      | 3411.63    | 0.0010 | P   | 7.8  |
| 3 | <input type="checkbox"/> | 50.000   | 53.325     | 173130.53  | 0.0521 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 132.488    | 433463.99  | 0.1293 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 264.170    | 870417.17  | 0.2578 | P   | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 514.948    | 1729809.35 | 0.5025 | A   | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.881    | 3281771.71 | 0.9640 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 1839.07    | 0.0005 | P   | 3.9  |

$$y = 9.7585\text{E-}004 * x + 1.4637\text{E-}005$$

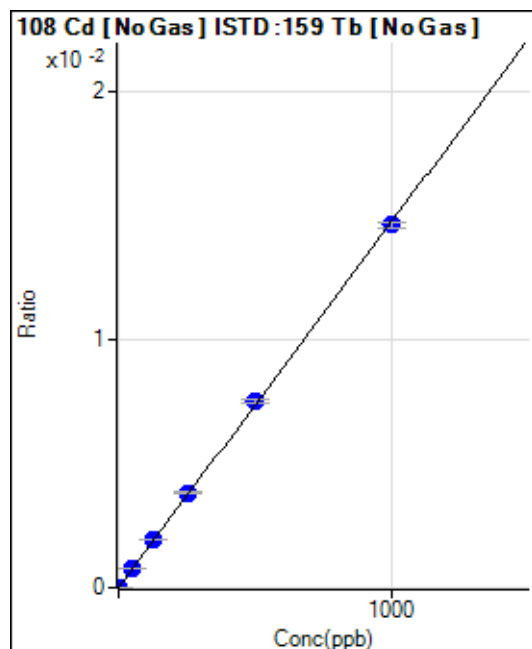
$$R = 0.9997$$

$$DL = 0.01999$$

$$BEC = 0.015$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5.56     | 0.0000 | P        | 43.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.113      | 59.72    | 0.0000 | P        | 35.0 |
| 3 | <input type="checkbox"/> | 50.000   | 51.805     | 2546.10  | 0.0008 | P        | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 130.600    | 6459.94  | 0.0019 | P        | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 259.773    | 12935.35 | 0.0038 | P        | 2.9  |
| 6 | <input type="checkbox"/> | 500.000  | 509.564    | 25870.22 | 0.0075 | P        | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.985    | 49788.12 | 0.0146 | P        | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 73.61    | 0.0000 | P        | 19.3 |

$$y = 1.4742\text{E-}005 * x + 1.7247\text{E-}006$$

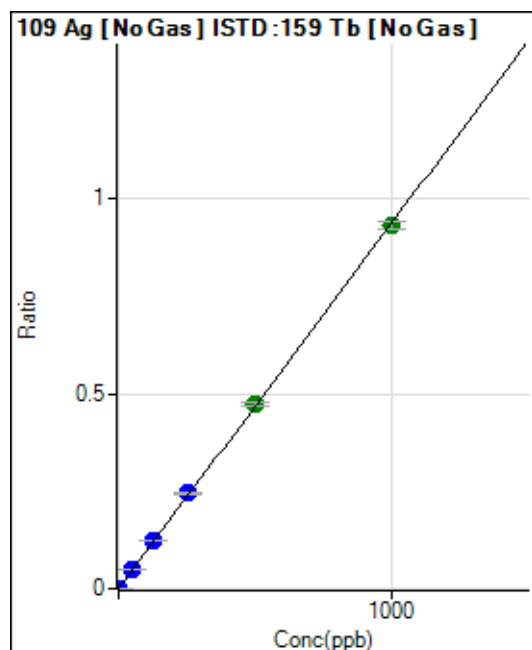
R = 0.9999

DL = 0.1527

BEC = 0.117

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0000 | P        | 68.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.020      | 3172.66    | 0.0010 | P        | 1.4  |
| 3 | <input type="checkbox"/> | 50.000   | 53.124     | 165412.35  | 0.0497 | P        | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 130.722    | 410192.55  | 0.1224 | P        | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 262.663    | 830047.98  | 0.2459 | P        | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 505.533    | 1628870.02 | 0.4732 | A        | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.196    | 3164459.12 | 0.9296 | A        | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 1786.27    | 0.0005 | P        | 2.9  |

$$y = 9.3597\text{E-}004 * x + 8.5877\text{E-}006$$

R = 0.9999

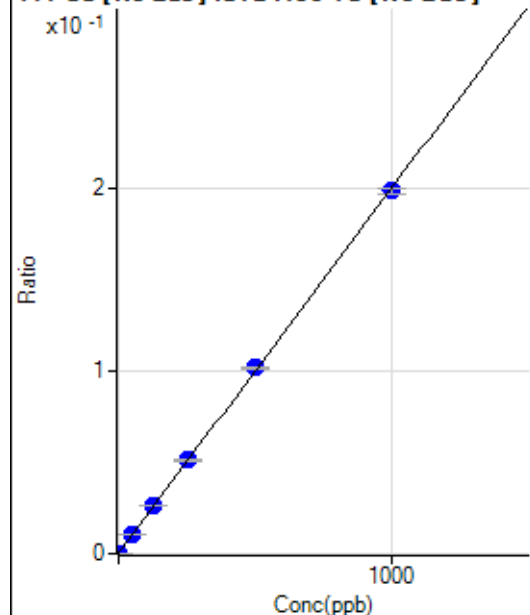
DL = 0.01885

BEC = 0.009175

Weight: <None>

Min Conc: 0

111 Cd [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      | 695.88    | 0.0002 | P   | 8.4  |
| 2 | <input type="checkbox"/> | 1.000    | 1.256      | 1536.34   | 0.0005 | P   | 10.1 |
| 3 | <input type="checkbox"/> | 50.000   | 50.982     | 34502.73  | 0.0104 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 130.013    | 87561.03  | 0.0261 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 256.423    | 173219.51 | 0.0513 | P   | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 509.141    | 349960.33 | 0.1017 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.148    | 674333.44 | 0.1981 | P   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 1114.10   | 0.0003 | P   | 4.8  |

$$y = 1.9924\text{E-}004 * x + 2.1592\text{E-}004$$

$$R = 0.9999$$

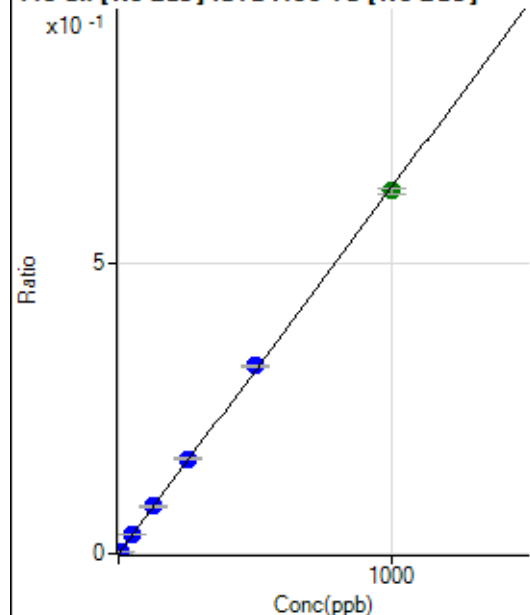
$$DL = 0.2739$$

$$BEC = 1.084$$

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      | 133.34     | 0.0000 | P   | 27.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.975      | 10476.51   | 0.0032 | P   | 3.9  |
| 3 | <input type="checkbox"/> | 50.000   | 51.749     | 108741.15  | 0.0327 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 128.918    | 272835.28  | 0.0814 | P   | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 258.371    | 550557.93  | 0.1631 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 513.623    | 1115814.36 | 0.3241 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.519    | 2127745.80 | 0.6250 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 1458.46    | 0.0004 | P   | 6.5  |

$$y = 6.3098\text{E-}004 * x + 4.1399\text{E-}005$$

$$R = 0.9998$$

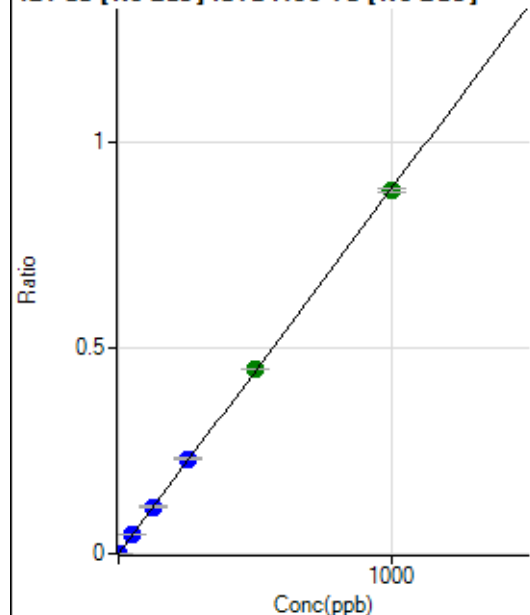
$$DL = 0.05476$$

$$BEC = 0.06561$$

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      | 38.89      | 0.0000 | P   | 32.6 |
| 2 | <input type="checkbox"/> | 2.000    | 1.923      | 5662.44    | 0.0017 | P   | 5.6  |
| 3 | <input type="checkbox"/> | 50.000   | 51.481     | 152033.79  | 0.0457 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 129.044    | 383997.99  | 0.1145 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 260.309    | 780090.55  | 0.2311 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 505.720    | 1545266.05 | 0.4489 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.984    | 3003285.55 | 0.8822 | A   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 2894.84    | 0.0008 | P   | 13.4 |

$$y = 8.8756\text{E-}004 * x + 1.2055\text{E-}005$$

$$R = 0.9999$$

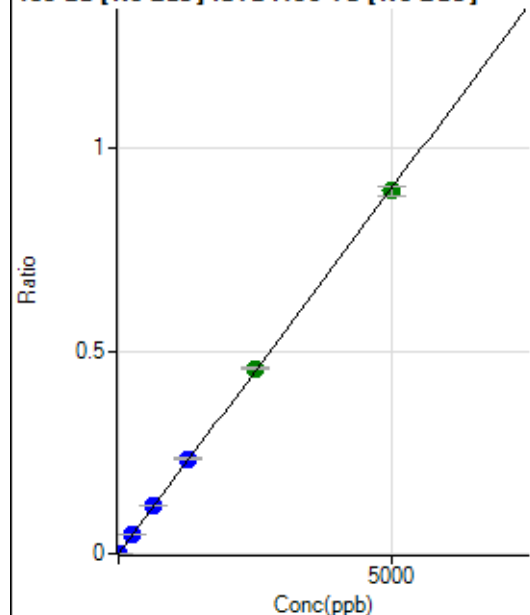
$$DL = 0.01329$$

$$BEC = 0.01358$$

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      | 33.34      | 0.0000 | P   | 43.2 |
| 2 | <input type="checkbox"/> | 10.000   | 9.636      | 5759.70    | 0.0017 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 250.000  | 260.722    | 156463.15  | 0.0470 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 625.000  | 649.408    | 392728.75  | 0.1172 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1297.214   | 790046.69  | 0.2340 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2537.466   | 1575729.90 | 0.4577 | A   | 1.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4965.877   | 3049222.86 | 0.8958 | A   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 5670.79    | 0.0016 | P   | 3.9  |

$$y = 1.8038\text{E-}004 * x + 1.0333\text{E-}005$$

$$R = 0.9999$$

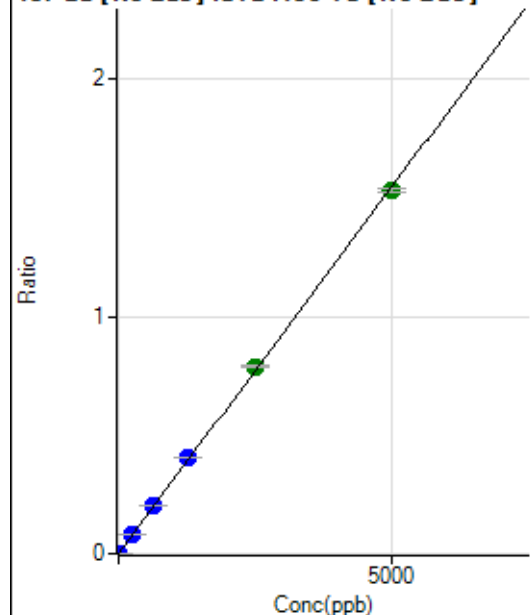
$$DL = 0.07416$$

$$BEC = 0.05728$$

Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 55.56      | 0.0000 | P        | 43.8 |
| 2 | <input type="checkbox"/> | 10.000   | 9.924      | 10145.73   | 0.0031 | P        | 3.6  |
| 3 | <input type="checkbox"/> | 250.000  | 260.371    | 267343.85  | 0.0804 | P        | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 652.363    | 674988.98  | 0.2014 | P        | 1.0  |
| 5 | <input type="checkbox"/> | 1250.000 | 1315.142   | 1370513.64 | 0.4059 | P        | 0.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2557.373   | 2717312.89 | 0.7893 | A        | 0.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4951.089   | 5201946.21 | 1.5281 | A        | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 9639.81    | 0.0028 | P        | 2.8  |

$$y = 3.0863E-004 * x + 1.7257E-005$$

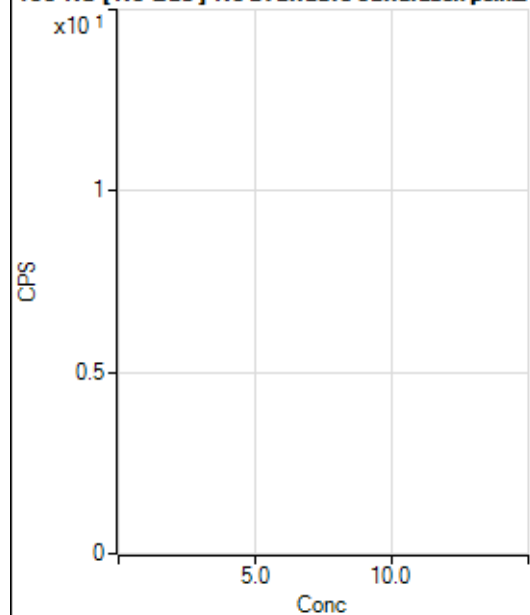
$$R = 0.9998$$

$$DL = 0.07355$$

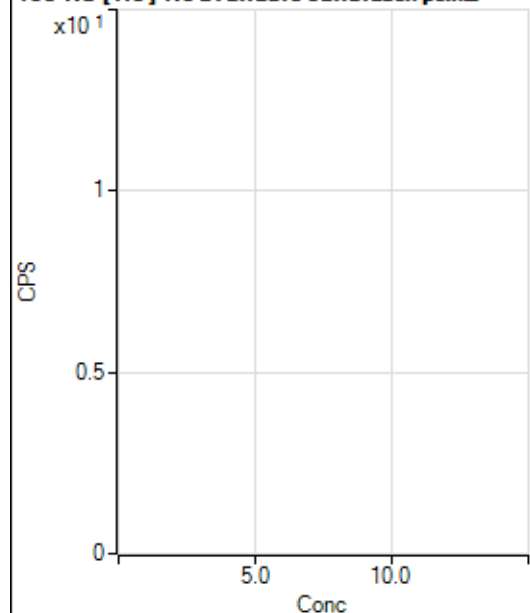
$$BEC = 0.05591$$

Weight: &lt;None&gt;

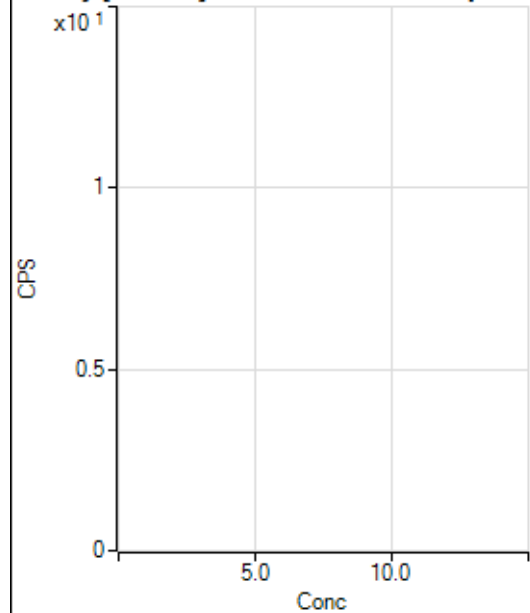
Min Conc: 0

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

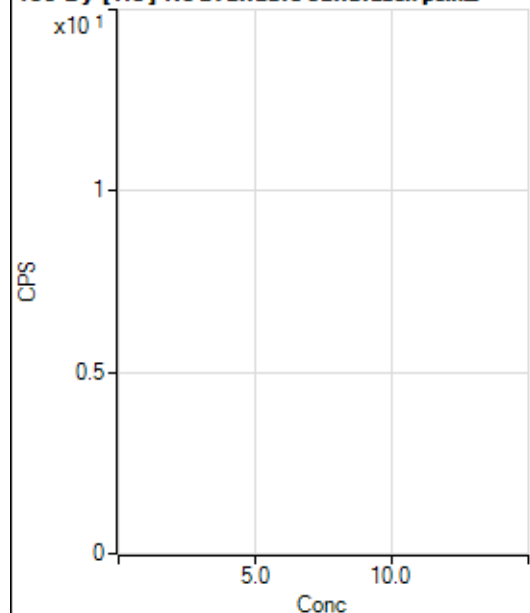
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 43.3 |
| 3 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 49.5 |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 34.7 |
| 5 | <input type="checkbox"/> |       |            | 35.55  |       | P        | 47.2 |
| 6 | <input type="checkbox"/> |       |            | 80.00  |       | P        | 14.4 |
| 7 | <input type="checkbox"/> |       |            | 135.56 |       | P        | 2.8  |
| 8 | <input type="checkbox"/> |       |            | 35.55  |       | P        | 10.8 |

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

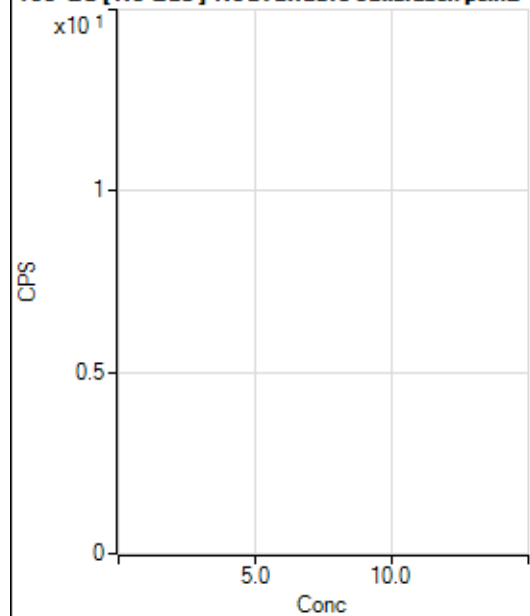
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS  | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 0.00 |       | P        |       |
| 2 | <input type="checkbox"/> |       |            | 1.11 |       | P        | 173.2 |
| 3 | <input type="checkbox"/> |       |            | 2.22 |       | P        | 86.6  |
| 4 | <input type="checkbox"/> |       |            | 1.11 |       | P        | 173.2 |
| 5 | <input type="checkbox"/> |       |            | 4.44 |       | P        | 43.4  |
| 6 | <input type="checkbox"/> |       |            | 8.89 |       | P        | 78.1  |
| 7 | <input type="checkbox"/> |       |            | 7.78 |       | P        | 24.7  |
| 8 | <input type="checkbox"/> |       |            | 4.44 |       | P        | 114.6 |

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

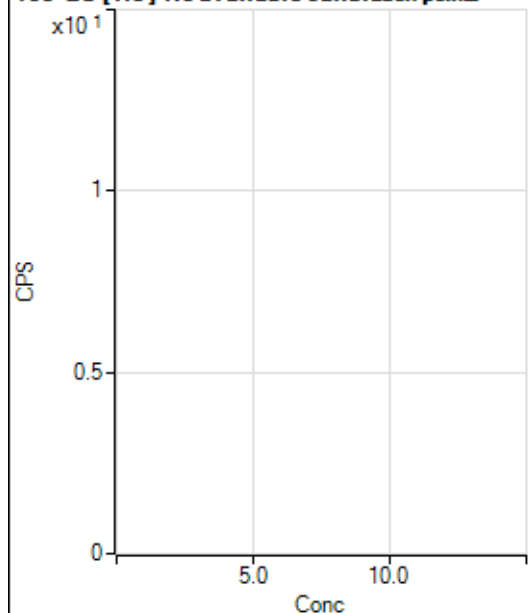
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 43.3  |
| 2 | <input type="checkbox"/> |       |            | 2.78   |       | P        | 173.2 |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 43.3  |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 86.6  |
| 5 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 57.3  |
| 6 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 19.9  |
| 7 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 17.6  |
| 8 | <input type="checkbox"/> |       |            | 188.89 |       | P        | 11.1  |

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

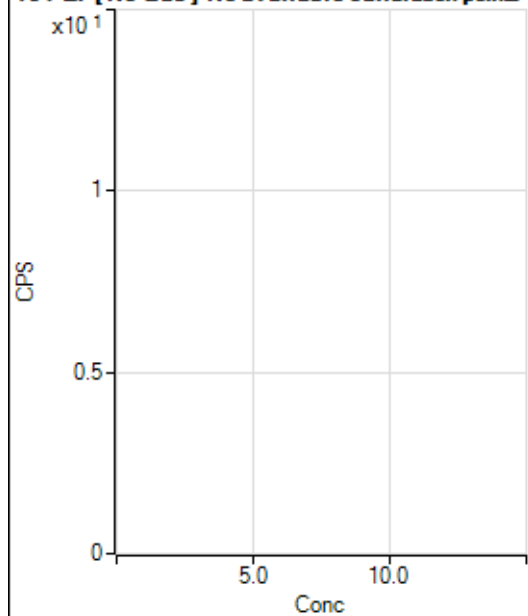
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 3 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 114.6 |
| 4 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 5 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 33.3  |
| 6 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 35.3  |
| 7 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 17.3  |
| 8 | <input type="checkbox"/> |       |            | 93.34 |       | P        | 16.4  |

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

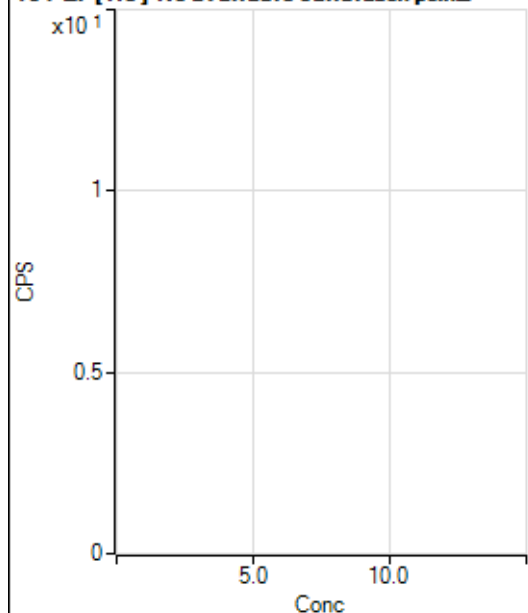
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 25.00  |       | P        | 33.3 |
| 2 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 53.9 |
| 3 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 21.7 |
| 4 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 18.2 |
| 5 | <input type="checkbox"/> |       |            | 36.11  |       | P        | 13.3 |
| 6 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 36.7 |
| 7 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 31.5 |
| 8 | <input type="checkbox"/> |       |            | 200.01 |       | P        | 4.2  |

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

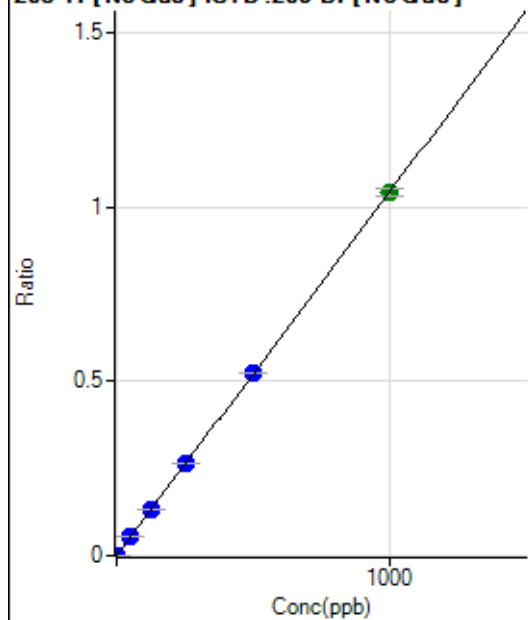
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 7.78   |       | P        | 99.0 |
| 4 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 78.1 |
| 5 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6 |
| 6 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 22.9 |
| 7 | <input type="checkbox"/> |       |            | 36.66  |       | P        | 15.7 |
| 8 | <input type="checkbox"/> |       |            | 107.78 |       | P        | 6.4  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 78.1 |
| 2 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 34.7 |
| 3 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 43.3 |
| 4 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 57.3 |
| 5 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 26.7 |
| 6 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 44.6 |
| 7 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 50.0 |
| 8 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 78.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 24.7  |
| 2 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 69.3  |
| 3 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 24.7  |
| 4 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 114.5 |
| 5 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 33.3  |
| 6 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 24.7  |
| 7 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 78.7  |
| 8 | <input type="checkbox"/> |       |            | 21.11 |       | P        | 18.2  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.44      | 0.0000 | P        | 65.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.993      | 1797.40    | 0.0010 | P        | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 50.661     | 91443.73   | 0.0528 | P        | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.193    | 232424.07  | 0.1326 | P        | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 252.639    | 468937.19  | 0.2634 | P        | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 501.918    | 953539.85  | 0.5233 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.074    | 1834608.83 | 1.0407 | A        | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 1536.25    | 0.0009 | P        | 12.3 |

$$y = 0.0010 * x + 1.1407E-005$$

$$R = 1.0000$$

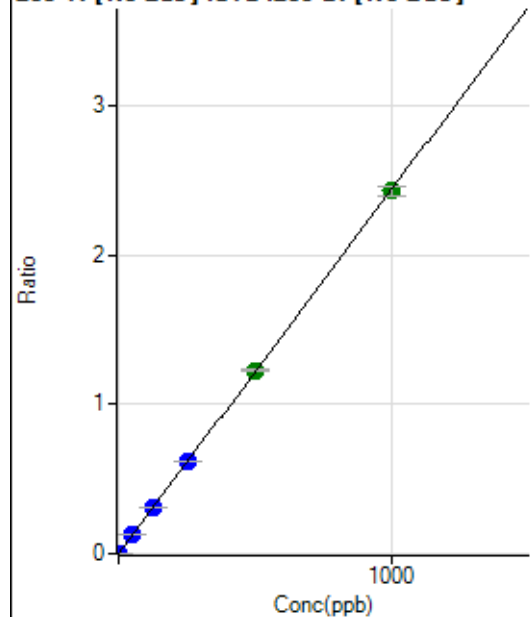
$$DL = 0.02136$$

$$BEC = 0.01094$$

Weight: &lt;None&gt;

Min Conc: 0

205 Tl [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      | 47.22      | 0.0000 | P   | 27.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.981      | 4159.10    | 0.0024 | P   | 0.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.875     | 215007.04  | 0.1242 | P   | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 128.062    | 547917.50  | 0.3127 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 253.584    | 1102041.13 | 0.6191 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 504.215    | 2242842.76 | 1.2309 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.570    | 4288857.52 | 2.4329 | A   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 3647.86    | 0.0021 | P   | 8.3  |

$$y = 0.0024 * x + 2.7781E-005$$

$$R = 1.0000$$

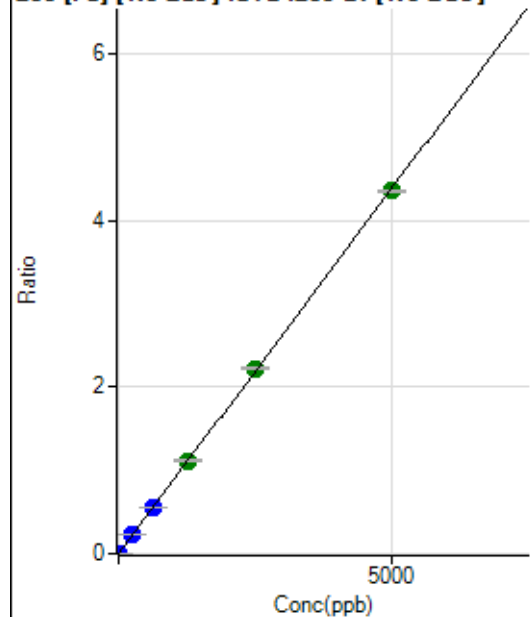
$$DL = 0.009238$$

$$BEC = 0.01138$$

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      | 300.01     | 0.0002 | P   | 4.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.884      | 1631.61    | 0.0010 | P   | 5.0 |
| 3 | <input type="checkbox"/> | 250.000  | 252.145    | 382288.65  | 0.2209 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 625.000  | 629.290    | 965554.71  | 0.5510 | P   | 2.2 |
| 5 | <input type="checkbox"/> | 1250.000 | 1273.898   | 1985236.97 | 1.1152 | A   | 1.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2541.785   | 4053823.88 | 2.2250 | A   | 0.9 |
| 7 | <input type="checkbox"/> | 5000.000 | 4972.489   | 7674574.65 | 4.3526 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 7872.91    | 0.0045 | P   | 4.5 |

$$y = 8.7530E-004 * x + 1.7640E-004$$

$$R = 0.9999$$

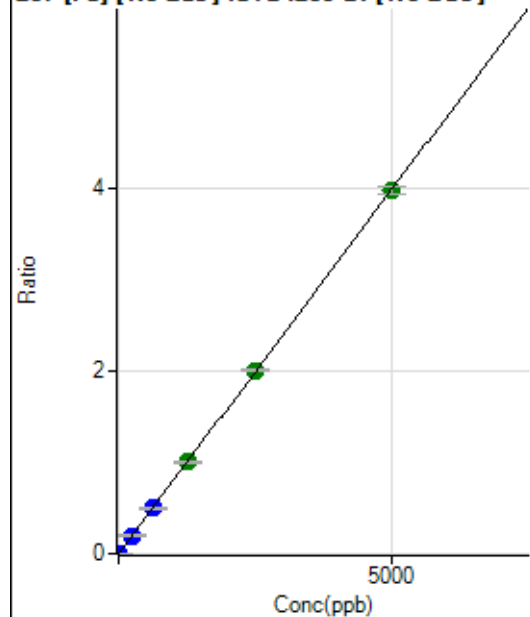
$$DL = 0.02677$$

$$BEC = 0.2015$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 257.41     | 0.0002 | P        | 13.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.904      | 1496.42    | 0.0009 | P        | 8.7  |
| 3 | <input type="checkbox"/> | 250.000  | 250.107    | 345213.45  | 0.1995 | P        | 0.9  |
| 4 | <input type="checkbox"/> | 625.000  | 620.938    | 867435.24  | 0.4950 | P        | 1.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1260.251   | 1788002.32 | 1.0044 | A        | 1.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2523.534   | 3664317.44 | 2.0112 | A        | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4986.172   | 7005563.70 | 3.9736 | A        | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 7029.84    | 0.0040 | P        | 6.3  |

$$y = 7.9690E-004 * x + 1.5129E-004$$

$$R = 1.0000$$

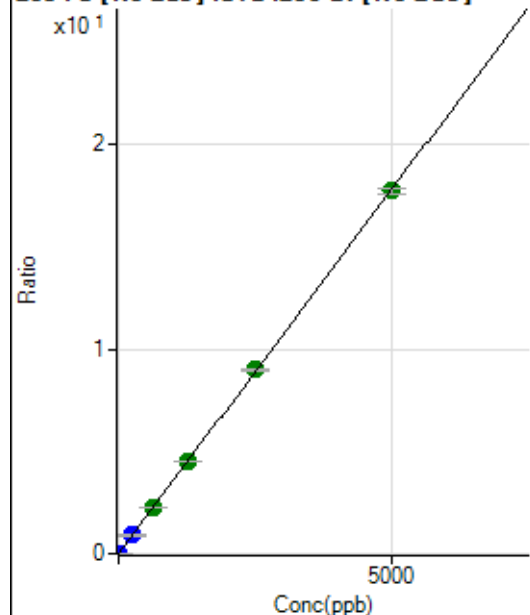
$$DL = 0.07569$$

$$BEC = 0.1898$$

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<br>. | RSD |
|---|--------------------------|----------|------------|-------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1131.52     | 0.0007  | P        | 4.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.913      | 6713.78     | 0.0039  | P        | 3.5 |
| 3 | <input type="checkbox"/> | 250.000  | 251.255    | 1547810.52  | 0.8943  | P        | 0.9 |
| 4 | <input type="checkbox"/> | 625.000  | 629.630    | 3925616.01  | 2.2401  | A        | 2.1 |
| 5 | <input type="checkbox"/> | 1250.000 | 1270.472   | 8044939.56  | 4.5194  | A        | 1.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2522.772   | 16349445.68 | 8.9735  | A        | 0.8 |
| 7 | <input type="checkbox"/> | 5000.000 | 4982.854   | 31247753.30 | 17.7233 | A        | 1.4 |
| 8 | <input type="checkbox"/> |          |            | 32205.34    | 0.0184  | P        | 5.0 |

$$y = 0.0036 * x + 6.6528E-004$$

$$R = 1.0000$$

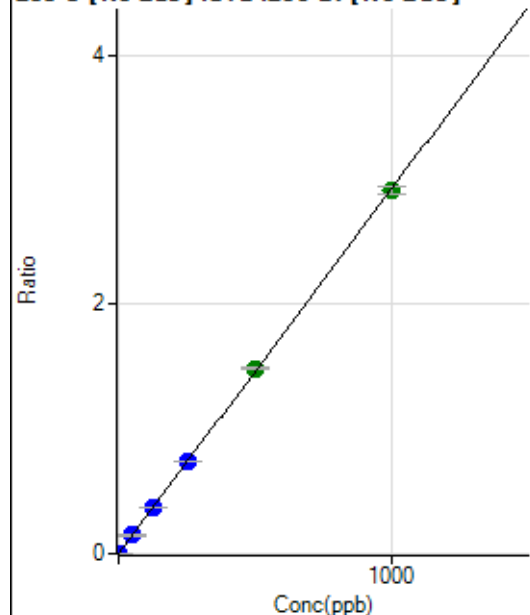
$$DL = 0.02555$$

$$BEC = 0.187$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33       | 0.0000 | P    | 99.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.948      | 4770.47    | 0.0028 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.272     | 254608.47  | 0.1471 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 124.914    | 640615.98  | 0.3655 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 253.541    | 1320703.96 | 0.7419 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 508.641    | 2711847.78 | 1.4884 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.791    | 5132212.49 | 2.9110 | A    | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 816.72     | 0.0005 | P    | 35.9 |

$$y = 0.0029 * x + 4.9029E-006$$

$$R = 0.9999$$

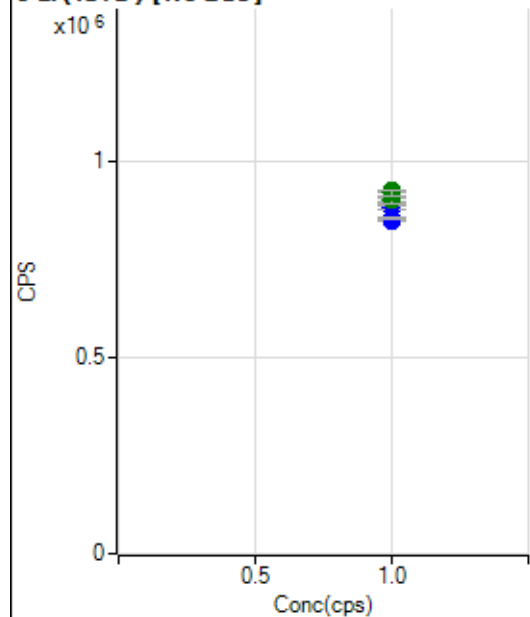
$$DL = 0.005009$$

$$BEC = 0.001676$$

Weight: &lt;None&gt;

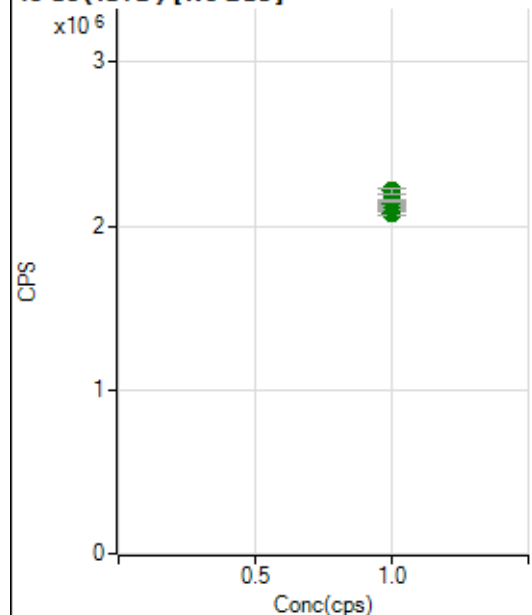
Min Conc: 0

6 Li (ISTD) [No Gas]

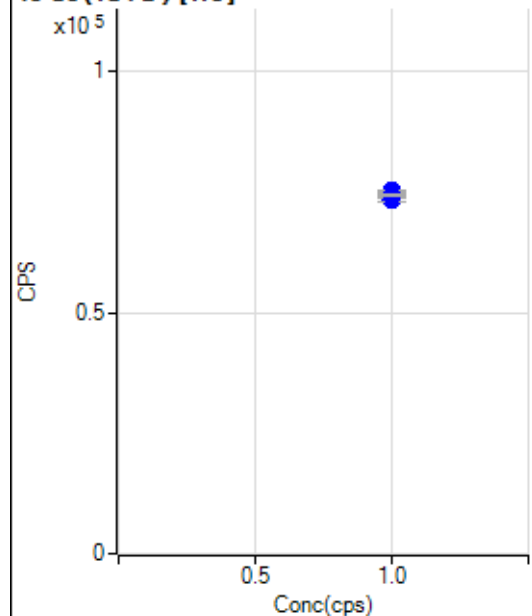


|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS       | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-----------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 849417.20 |       | P    | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 853709.26 |       | P    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 881231.88 |       | P    | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 891236.01 |       | P    | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 906662.23 |       | M    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 924896.21 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 901450.87 |       | A    | 2.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 919407.01 |       | A    | 1.6 |

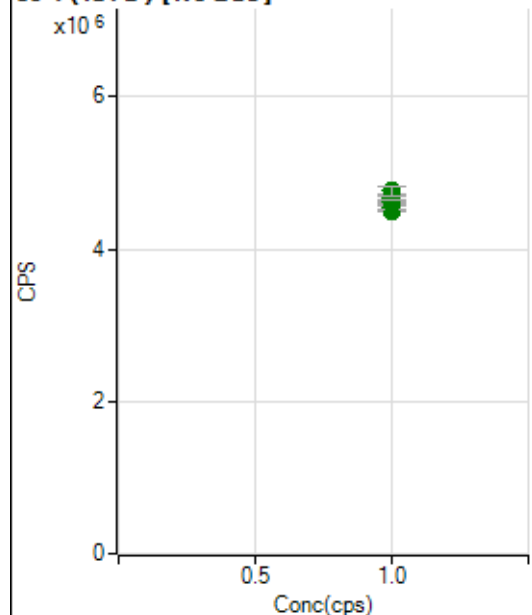


**45 Sc (ISTD) [No Gas]**

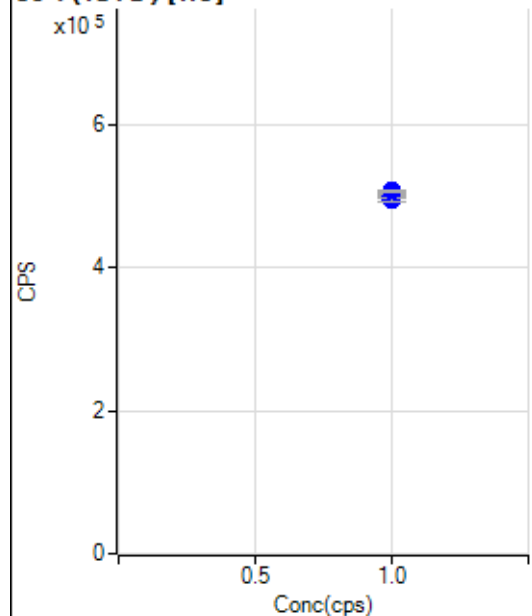
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2080550.05 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2113296.29 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2131945.39 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2140538.84 |       | A        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2154944.08 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2194251.55 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2155914.22 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2214174.22 |       | A        | 1.9 |

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

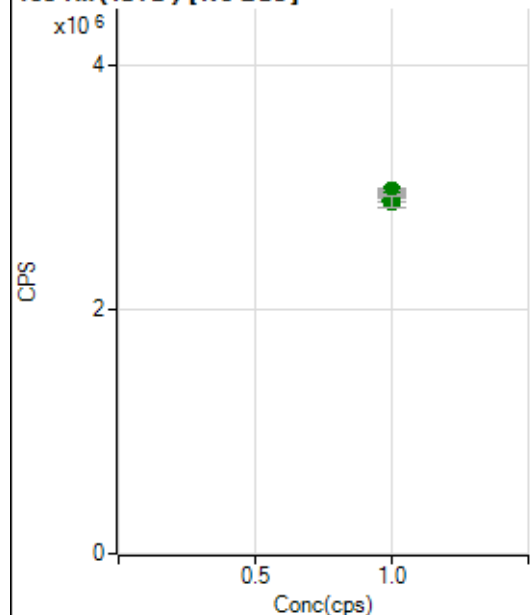
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 74917.12 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 74938.45 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 75071.40 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 74677.21 |       | P        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 74299.51 |       | P        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 75169.57 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 73240.88 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 74213.62 |       | P        | 0.6 |

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

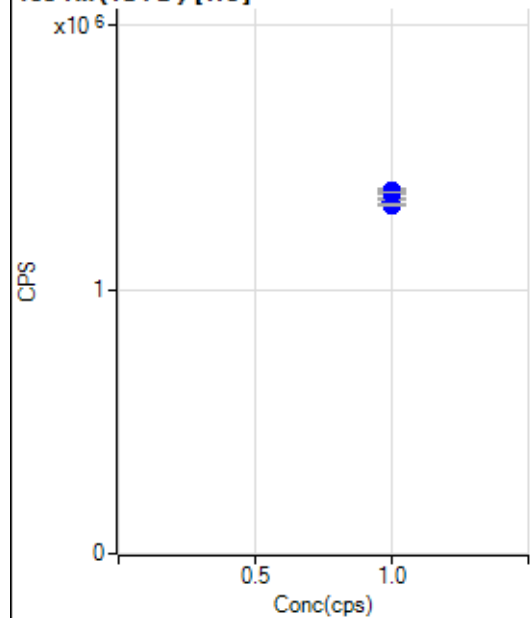
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4504783.06 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4541914.27 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4594909.17 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4612670.28 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4665568.96 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4712294.23 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4639972.15 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4762226.49 |       | A        | 2.5 |

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

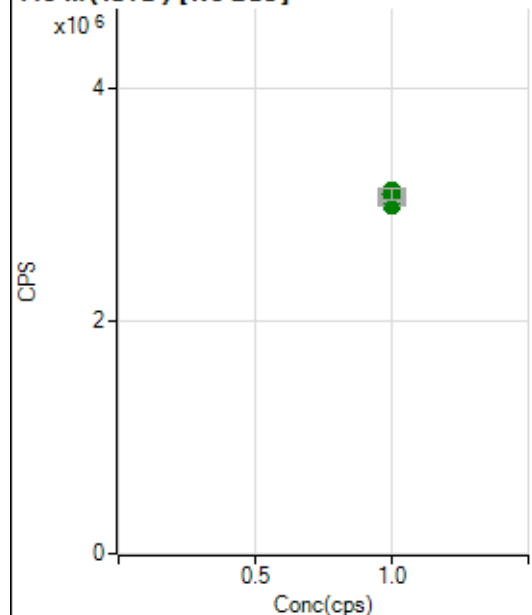
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 501483.60 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 500829.34 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 500853.86 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 497418.95 |       | P        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 499574.80 |       | P        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 502027.26 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 495097.89 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 506678.67 |       | P        | 0.3 |

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

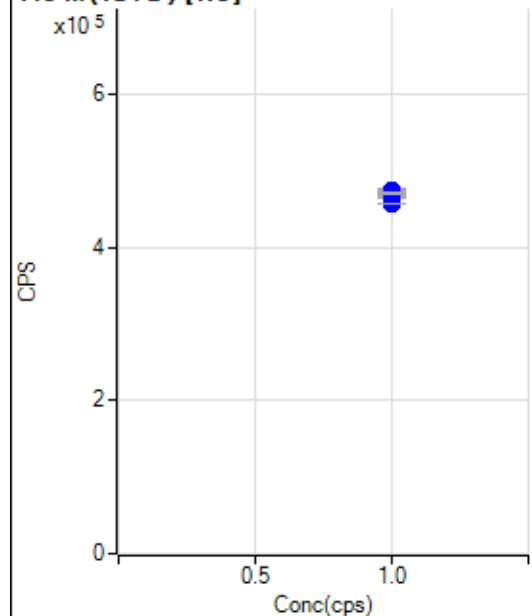
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2903876.45 |       | A        | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2935814.45 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2958668.43 |       | A        | 2.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2926470.40 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2973522.68 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2970789.72 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2931333.29 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2886466.25 |       | A        | 3.1 |

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

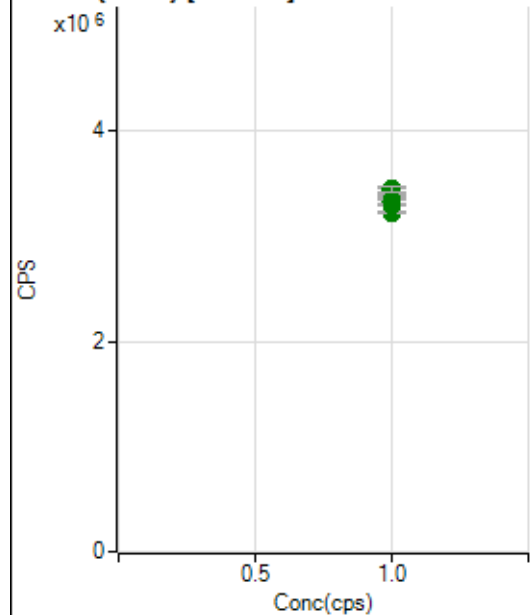
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1367032.18 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1369300.13 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1373358.78 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1365909.14 |       | P        | 2.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1372360.08 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1370112.30 |       | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1333328.76 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1318768.96 |       | P        | 0.5 |

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

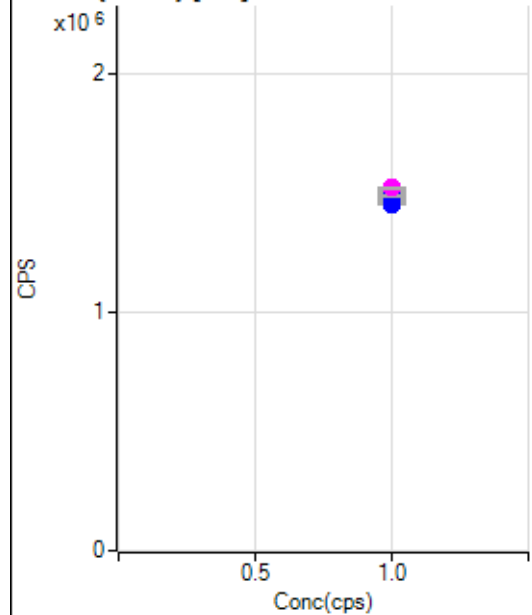
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2990272.55 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3049802.64 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3084401.59 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3101219.66 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3088542.47 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3112092.32 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3031695.15 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3085357.56 |       | A        | 3.0 |

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

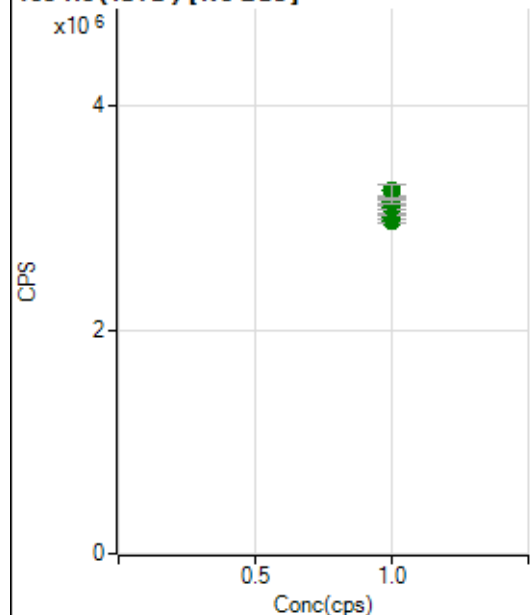
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 471160.24 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 473180.17 |       | P        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 473201.46 |       | P        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 468981.06 |       | P        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 471738.25 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 468600.76 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 455799.47 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 470715.96 |       | P        | 0.2 |

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

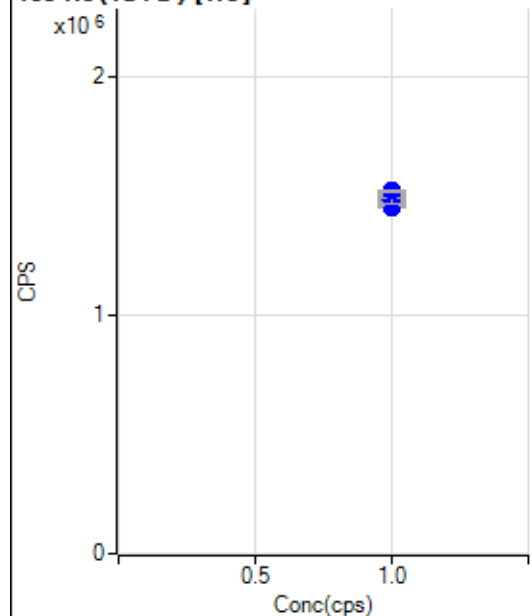
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3224159.91 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3294431.76 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3326213.73 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3352269.95 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3376402.07 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3442666.72 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3404241.34 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3448427.59 |       | A        | 1.3 |

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

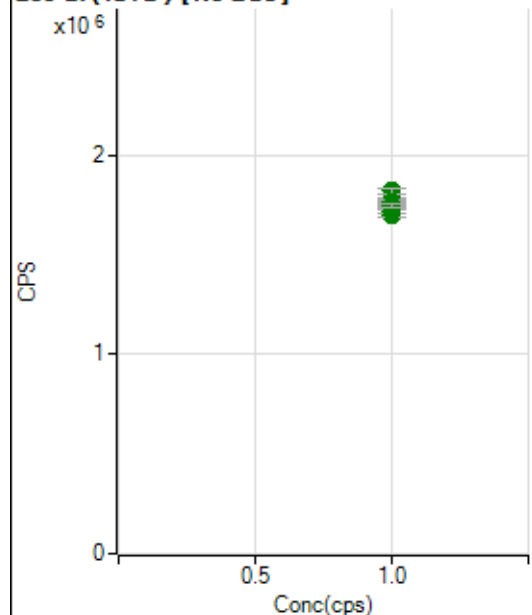
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1456987.72 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1472442.69 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1483353.55 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1484965.52 |       | P        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1498581.45 |       | P        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1508342.72 |       | M        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1488791.68 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1523221.52 |       | M        | 0.3 |

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

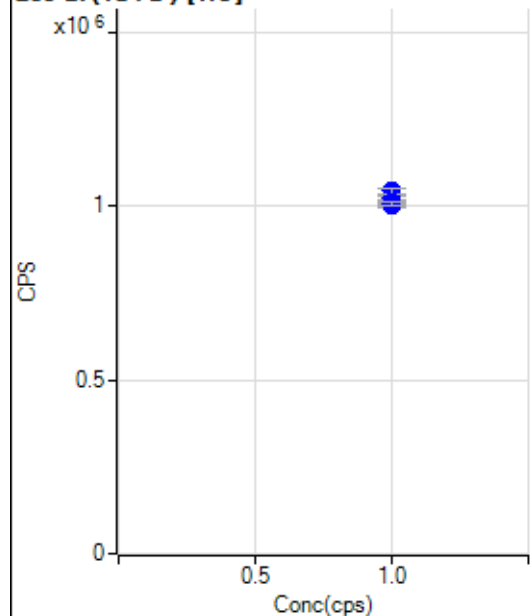
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2974413.83 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3005723.66 |       | A        | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3030810.20 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3097588.61 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3096839.94 |       | A        | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3175784.29 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3142643.67 |       | A        | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3242539.29 |       | A        | 3.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1449135.78 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1457127.10 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1469060.25 |       | P        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1471982.44 |       | P        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1486814.30 |       | M        | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1506318.57 |       | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1480621.10 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1521829.65 |       | P        | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1700514.23 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1716698.88 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1730797.16 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1752731.55 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1780182.93 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1822087.02 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1763319.63 |       | A        | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1750315.27 |       | A        | 1.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 999720.94  |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1010623.76 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1021064.45 |       | P        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1017331.48 |       | P        | 2.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1032986.87 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1042681.14 |       | P        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1012004.27 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1004775.79 |       | P        | 0.8 |

# US EPA Tune Check Report

Operator Name Jaswal  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8112420MS.b  
Acq. Date-Time 2020-11-24 11:18:36  
Report Comment ---  
Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|--------|-----------------|
| 9    |              | 2153  | 21530.00  |                            |             | 1.704  | 5.000           |
| 24   |              | 28154 | 281541.54 |                            |             | 1.870  | 5.000           |
| 25   |              | 3749  | 37488.39  |                            |             | 1.521  | 5.000           |
| 26   |              | 4358  | 43576.41  |                            |             | 1.784  | 5.000           |
| 59   |              | 14462 | 144616.44 |                            |             | 1.602  | 5.000           |
| 113  |              | 2247  | 22468.04  |                            |             | 1.430  | 5.000           |
| 115  |              | 7335  | 73350.69  |                            |             | 1.419  | 5.000           |
| 206  |              | 2257  | 22572.21  |                            |             | 1.330  | 5.000           |
| 207  |              | 1873  | 18729.08  |                            |             | 1.170  | 5.000           |
| 208  |              | 4551  | 45508.15  |                            |             | 1.129  | 5.000           |
| 220  |              | 1     | 9.00      |                            |             | 35.355 |                 |

| Mass | RSD% (Flag) |
|------|-------------|
| 9    |             |
| 24   |             |
| 25   |             |
| 26   |             |
| 59   |             |
| 113  |             |
| 115  |             |
| 206  |             |
| 207  |             |
| 208  |             |
| 220  |             |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 2147        | 2153        | 2173        | 2097        | 2195        |
| 24   | 28096       | 27731       | 28785       | 27571       | 28588       |
| 25   | 3742        | 3694        | 3829        | 3698        | 3781        |
| 26   | 4345        | 4299        | 4463        | 4274        | 4408        |
| 59   | 14511       | 14229       | 14779       | 14238       | 14551       |
| 113  | 2243        | 2211        | 2293        | 2225        | 2262        |
| 115  | 7421        | 7375        | 7428        | 7196        | 7255        |
| 206  | 2218        | 2234        | 2283        | 2267        | 2285        |
| 207  | 1872        | 1837        | 1874        | 1889        | 1892        |
| 208  | 4504        | 4492        | 4613        | 4564        | 4580        |

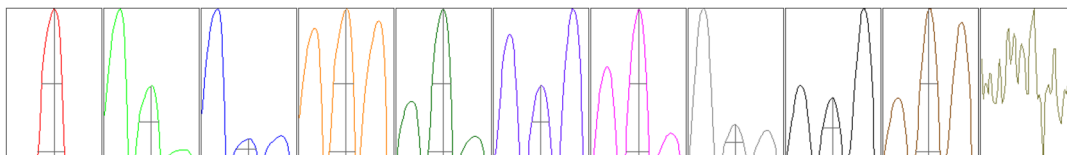


# US EPA Tune Check Report

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 220  | 0           | 1           | 1           | 1           | 1           |

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 3600.76     | 9.05   | 8.90 - 9.10     |             |
| 24   | 47820.08    | 24.00  | 23.90 - 24.10   |             |
| 25   | 6381.92     | 25.00  | 24.90 - 25.10   |             |
| 26   | 7298.92     | 26.00  | 25.90 - 26.10   |             |
| 59   | 26138.29    | 59.00  | 58.90 - 59.10   |             |
| 113  | 4287.13     | 113.00 | 112.90 - 113.10 |             |
| 115  | 14292.10    | 115.05 | 114.90 - 115.10 |             |
| 206  | 4316.84     | 206.00 | 205.90 - 206.10 |             |
| 207  | 3586.36     | 207.00 | 206.90 - 207.10 |             |
| 208  | 8803.82     | 207.95 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.64  | 0.823 | 0.900           |             |
| 24   | 0.62  | 0.788 | 0.900           |             |
| 25   | 0.63  | 0.814 | 0.900           |             |
| 26   | 0.64  | 0.816 | 0.900           |             |
| 59   | 0.58  | 0.774 | 0.900           |             |
| 113  | 0.54  | 0.733 | 0.900           |             |
| 115  | 0.53  | 0.736 | 0.900           |             |
| 206  | 0.55  | 0.782 | 0.900           |             |
| 207  | 0.54  | 0.744 | 0.900           |             |
| 208  | 0.54  | 0.761 | 0.900           |             |
| 220  | 0.25  |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

# US EPA Tune Check Report

|              |         |                |          |               |            |
|--------------|---------|----------------|----------|---------------|------------|
| RF Power     | 1600 W  | Option Gas     | ---      | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |        |            |        |
|------------|----------|---------------|--------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 10.9 V | Deflect    | 14.4 V |
| Extract 2  | -230.0 V | Cell Entrance | -30 V  | Plate Bias | -50 V  |
| Omega Bias | -100 V   | Cell Exit     | -50 V  |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 180 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 123 | Axis Gain   | 0.9990 | QP Bias | -4.0 V |
| Mass Offset | 123 | Axis Offset | 0.00   |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 0.9 mm | Torch V | -0.2 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 3.9 mV | Analog HV | 2180 V | Pulse HV | 1331 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS      | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 3346  | 33464.96 |                            |             | 2.078 |                 |
| 89   |              | 7662  | 76622.58 |                            |             | 2.207 |                 |
| 205  |              | 5927  | 59273.55 |                            |             | 2.323 |                 |

| Mass | RSD% (Flag) |
|------|-------------|
| 59   |             |
| 89   |             |
| 205  |             |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 3303        | 3343        | 3466        | 3328        | 3293        |
| 89   | 7529        | 7593        | 7934        | 7716        | 7540        |
| 205  | 5894        | 5947        | 6150        | 5862        | 5784        |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | HMI     | Nebulizer Gas  | 0.52 L/min | Dilution Gas  | 0.47 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |        |         |       |
|-----------|--------|------------|--------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 10.9 V | Deflect | 4.8 V |
|-----------|--------|------------|--------|---------|-------|

# US EPA Tune Check Report

|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -230.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias               | -100 V     | Cell Exit     | -70 V   |                       |         |
| <b>Cell Parameters</b>   |            |               |         |                       |         |
| Use Gas                  | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow                  | 4.5 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow                  | ---        | OctP RF       | 200 V   |                       |         |
| <b>QP Parameters</b>     |            |               |         |                       |         |
| Mass Gain                | 123        | Axis Gain     | 0.9990  | QP Bias               | -13.0 V |
| Mass Offset              | 123        | Axis Offset   | 0.00    |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 0.9 mm     | Torch V       | -0.2 mm |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 3.9 mV     | Analog HV     | 2180 V  | Pulse HV              | 1331 V  |