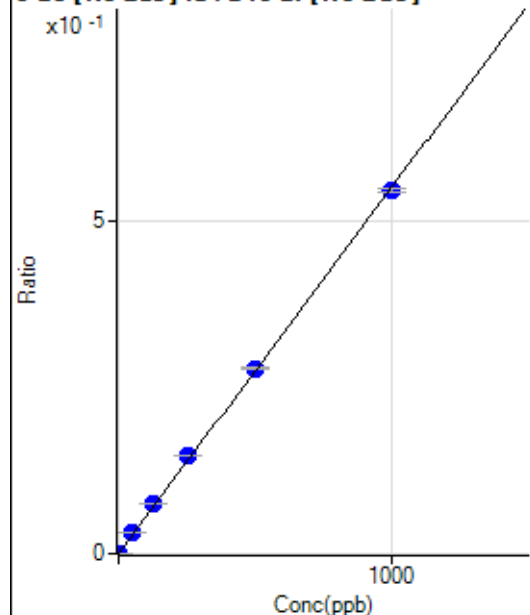


Batch Folder: D:\ICP-MS Data\P7061219.b\  
Analysis File: P7061219.batch.bin  
DA Date-Time: 2019-06-13 00:44:51  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2019-06-12 11:24:26 |
| 2     | 004CALS.d          | S01         | 2019-06-12 11:28:02 |
| 3     | 005CALS.d          | S02         | 2019-06-12 11:32:21 |
| 4     | 006CALS.d          | S03         | 2019-06-12 11:36:17 |
| 5     | 007CALS.d          | S04         | 2019-06-12 11:40:13 |
| 6     | 008CALS.d          | S05         | 2019-06-12 11:44:07 |
| 7     | 009CALS.d          | S06         | 2019-06-12 11:47:57 |
| 8     | 010CALS.d          | S07         | 2019-06-12 11:51:47 |
| 9     | 011CALS.d          | S08         | 2019-06-12 11:55:34 |

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 31.11     | 0.0000 | P    | 16.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.079      | 100.00    | 0.0001 | P    | 23.5 |
| 3 | <input type="checkbox"/> | 1.000    | 1.005      | 913.37    | 0.0006 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 56.513     | 48296.49  | 0.0311 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 136.647    | 114536.26 | 0.0753 | P    | 1.9  |
| 6 | <input type="checkbox"/> | 250.000  | 268.236    | 211818.69 | 0.1477 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 504.720    | 386186.47 | 0.2779 | P    | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.299    | 747020.72 | 0.5458 | P    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 266.67    | 0.0002 | P    | 6.7  |

$$y = 5.5062\text{E-}004 * x + 1.9397\text{E-}005$$

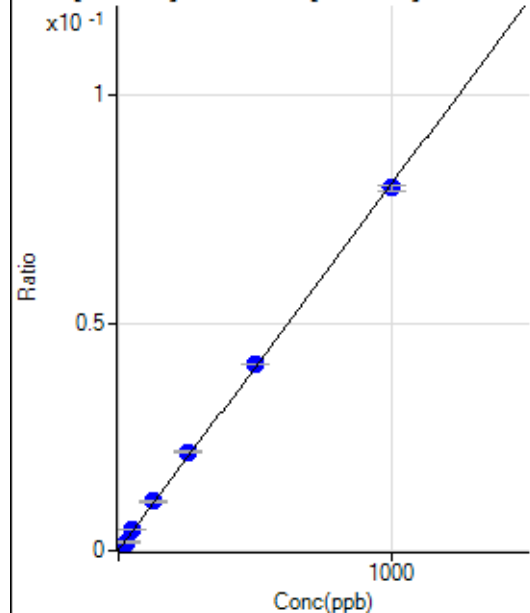
$$R = 0.9998$$

$$DL = 0.01719$$

$$BEC = 0.03523$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 138.90    | 0.0001 | P    | 30.9 |
| 2 | <input type="checkbox"/> | 2.500    | 2.409      | 444.47    | 0.0003 | P    | 21.4 |
| 3 | <input type="checkbox"/> | 25.000   | 22.201     | 2989.31   | 0.0019 | P    | 11.5 |
| 4 | <input type="checkbox"/> | 50.000   | 55.987     | 7126.98   | 0.0046 | P    | 4.7  |
| 5 | <input type="checkbox"/> | 125.000  | 134.344    | 16593.04  | 0.0109 | P    | 3.0  |
| 6 | <input type="checkbox"/> | 250.000  | 268.953    | 31174.76  | 0.0217 | P    | 2.1  |
| 7 | <input type="checkbox"/> | 500.000  | 508.471    | 57013.53  | 0.0410 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.629    | 109172.95 | 0.0798 | P    | 1.4  |
| 9 | <input type="checkbox"/> |          |            | 6446.12   | 0.0045 | P    | 10.2 |

$$y = 8.0518\text{E-}005 * x + 8.6639\text{E-}005$$

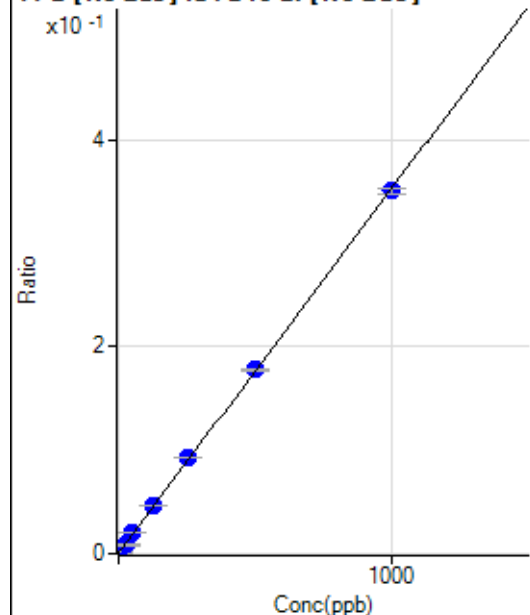
$$R = 0.9997$$

$$DL = 0.9974$$

$$BEC = 1.076$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 630.60    | 0.0004 | P    | 24.5 |
| 2 | <input type="checkbox"/> | 2.500    | 2.506      | 2022.45   | 0.0013 | P    | 6.0  |
| 3 | <input type="checkbox"/> | 25.000   | 22.740     | 13406.47  | 0.0084 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 55.821     | 31121.75  | 0.0201 | P    | 2.4  |
| 5 | <input type="checkbox"/> | 125.000  | 131.465    | 71097.93  | 0.0467 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 263.658    | 133784.40 | 0.0933 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 502.831    | 246767.44 | 0.1776 | P    | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.127    | 479977.72 | 0.3507 | P    | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 28931.60  | 0.0204 | P    | 11.3 |

$$y = 3.5237\text{E-}004 * x + 3.9359\text{E-}004$$

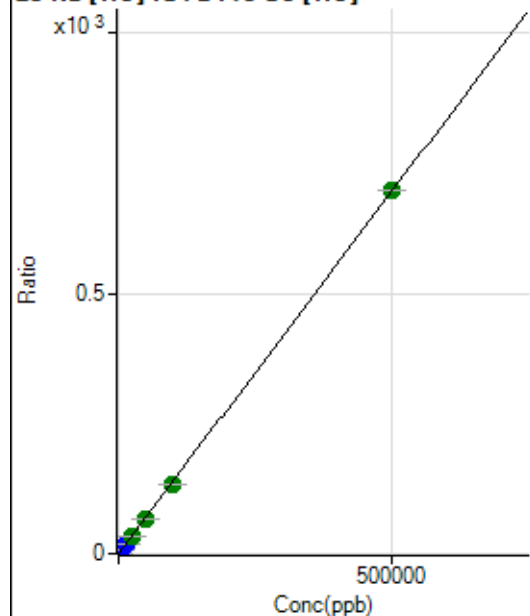
$$R = 0.9999$$

$$DL = 0.8201$$

$$BEC = 1.117$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1580.71     | 0.0107   | P    | 14.6 |
| 2 | <input type="checkbox"/> | 50.000    | 44.533     | 10612.57    | 0.0726   | P    | 5.4  |
| 3 | <input type="checkbox"/> | 500.000   | 447.425    | 91962.02    | 0.6329   | P    | 0.9  |
| 4 | <input type="checkbox"/> | 5000.000  | 5129.500   | 1010387.39  | 7.1447   | P    | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12545.431  | 2404927.61  | 17.4587  | P    | 0.9  |
| 6 | <input type="checkbox"/> | 25000.000 | 24606.336  | 4393810.30  | 34.2329  | A    | 0.0  |
| 7 | <input type="checkbox"/> | 50000.000 | 47241.072  | 8355232.39  | 65.7132  | A    | 0.5  |
| 8 | <input type="checkbox"/> | 100000.00 | 95301.554  | 16673388.91 | 132.5553 | A    | 1.0  |
| 9 | <input type="checkbox"/> | 500000.00 | 501232.88  | 98111035.52 | 697.1213 | A    | 0.2  |

$$y = 0.0014 * x + 0.0107$$

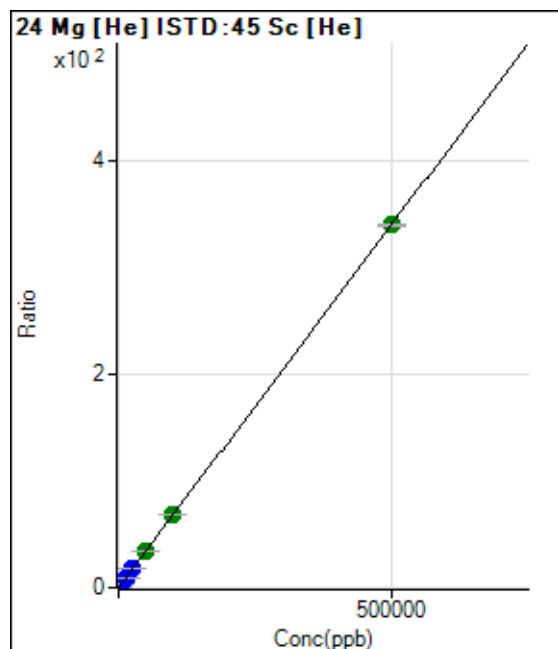
$$R = 0.9999$$

$$DL = 3.345$$

$$BEC = 7.662$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 152.78      | 0.0010   | P    | 21.0 |
| 2 | <input type="checkbox"/> | 50.000    | 50.510     | 5170.54     | 0.0354   | P    | 3.5  |
| 3 | <input type="checkbox"/> | 500.000   | 488.439    | 48395.64    | 0.3331   | P    | 0.4  |
| 4 | <input type="checkbox"/> | 5000.000  | 5498.766   | 528776.77   | 3.7392   | P    | 0.8  |
| 5 | <input type="checkbox"/> | 12500.000 | 13303.144  | 1245908.11  | 9.0448   | P    | 1.0  |
| 6 | <input type="checkbox"/> | 25000.000 | 26261.249  | 2291547.29  | 17.8540  | P    | 0.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 50091.624  | 4329910.77  | 34.0544  | A    | 0.4  |
| 8 | <input type="checkbox"/> | 100000.00 | 100420.77  | 8587374.15  | 68.2692  | A    | 0.8  |
| 9 | <input type="checkbox"/> | 500000.00 | 499818.56  | 47819510.10 | 339.7882 | A    | 0.5  |

$$y = 6.7982\text{E-}004 * x + 0.0010$$

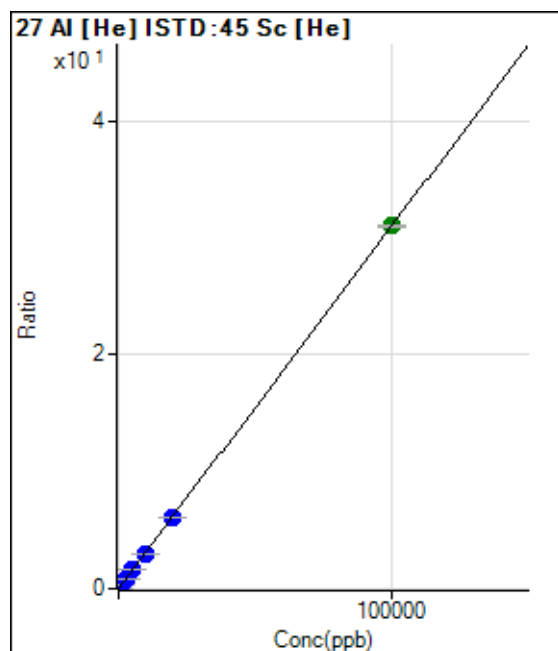
$$R = 1.0000$$

$$DL = 0.9538$$

$$BEC = 1.517$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13.89      | 0.0001  | P    | 124. |
| 2 | <input type="checkbox"/> | 2.000     | 2.334      | 119.45     | 0.0008  | P    | 3.9  |
| 3 | <input type="checkbox"/> | 20.000    | 19.550     | 894.51     | 0.0062  | P    | 3.9  |
| 4 | <input type="checkbox"/> | 1000.000  | 1052.819   | 46172.15   | 0.3265  | P    | 1.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2574.017   | 109946.67  | 0.7982  | P    | 0.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 5093.908   | 202718.92  | 1.5794  | P    | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9674.892   | 381403.12  | 2.9998  | P    | 0.9  |
| 8 | <input type="checkbox"/> | 20000.000 | 19465.577  | 759181.78  | 6.0353  | P    | 0.8  |
| 9 | <input type="checkbox"/> | 100000.00 | 100132.32  | 4369139.07 | 31.0458 | A    | 0.6  |

$$y = 3.1005\text{E-}004 * x + 9.3488\text{E-}005$$

$$R = 1.0000$$

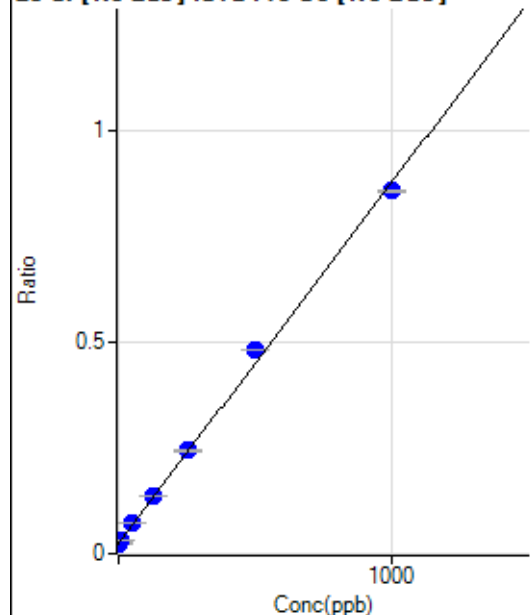
$$DL = 1.125$$

$$BEC = 0.3015$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72585.14   | 0.0237 | P   | 0.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.613      | 75267.23   | 0.0251 | P   | 1.1 |
| 3 | <input type="checkbox"/> | 10.000   | 9.027      | 94439.17   | 0.0314 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 57.482     | 211705.03  | 0.0726 | P   | 1.1 |
| 5 | <input type="checkbox"/> | 125.000  | 133.117    | 393878.67  | 0.1370 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 257.522    | 648821.40  | 0.2428 | P   | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 537.352    | 1246862.70 | 0.4810 | P   | 0.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 978.064    | 2199237.51 | 0.8560 | P   | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 132171.22  | 0.0498 | P   | 1.5 |

$$y = 8.5096E-004 * x + 0.0237$$

R = 0.9989

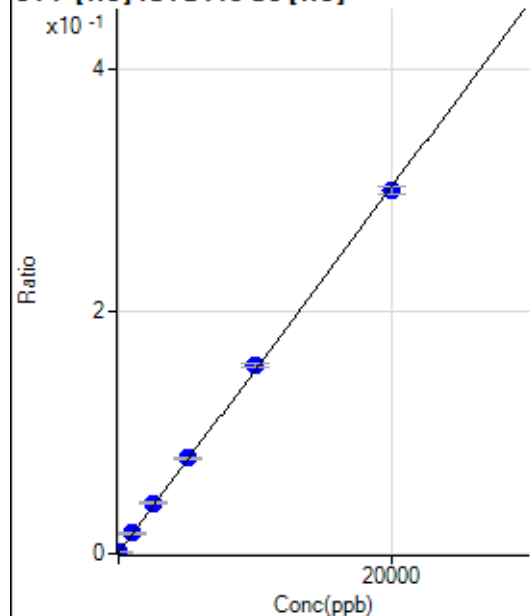
DL = 0.5774

BEC = 27.85

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | -23.049    | 58.34    | 0.0004 | P   | 1.0  |
| 2 | <input type="checkbox"/> | 0.000     | -13.897    | 77.78    | 0.0005 | P   | 34.3 |
| 3 | <input type="checkbox"/> | 0.000     | 36.946     | 188.90   | 0.0013 | P   | 6.6  |
| 4 | <input type="checkbox"/> | 1000.000  | 1083.709   | 2419.75  | 0.0171 | P   | 6.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2713.477   | 5748.52  | 0.0417 | P   | 4.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 5157.010   | 10095.47 | 0.0787 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 10276.661  | 19836.13 | 0.1560 | P   | 1.5  |
| 8 | <input type="checkbox"/> | 20000.000 | 19791.547  | 37712.83 | 0.2998 | P   | 2.0  |
| 9 | <input type="checkbox"/> |           |            | 133.34   | 0.0009 | P   | 29.4 |

$$y = 1.5109E-005 * x + 7.4183E-004$$

R = 0.9998

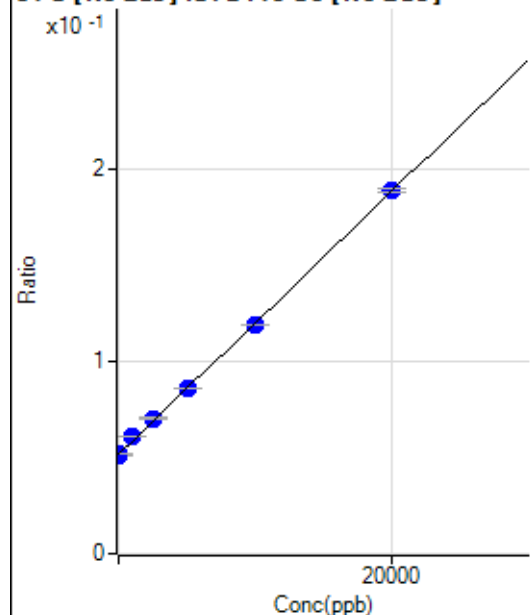
DL = 18.02

BEC = 49.1

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -102.183   | 155705.73 | 0.0508 | P    | 0.7 |
| 2 | <input type="checkbox"/> | 0.000     | 36.899     | 155476.50 | 0.0518 | P    | 0.5 |
| 3 | <input type="checkbox"/> | 0.000     | 65.283     | 156449.45 | 0.0520 | P    | 1.2 |
| 4 | <input type="checkbox"/> | 1000.000  | 1360.875   | 177366.18 | 0.0608 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 2500.000  | 2733.807   | 201917.70 | 0.0702 | P    | 2.0 |
| 6 | <input type="checkbox"/> | 5000.000  | 4996.417   | 228912.91 | 0.0857 | P    | 0.5 |
| 7 | <input type="checkbox"/> | 10000.000 | 9845.337   | 307962.31 | 0.1188 | P    | 0.6 |
| 8 | <input type="checkbox"/> | 20000.000 | 20030.958  | 483970.99 | 0.1884 | P    | 1.1 |
| 9 | <input type="checkbox"/> |           |            | 136240.70 | 0.0513 | P    | 0.9 |

$$y = 6.8311\text{E-}006 * x + 0.0515$$

$$R = 0.9997$$

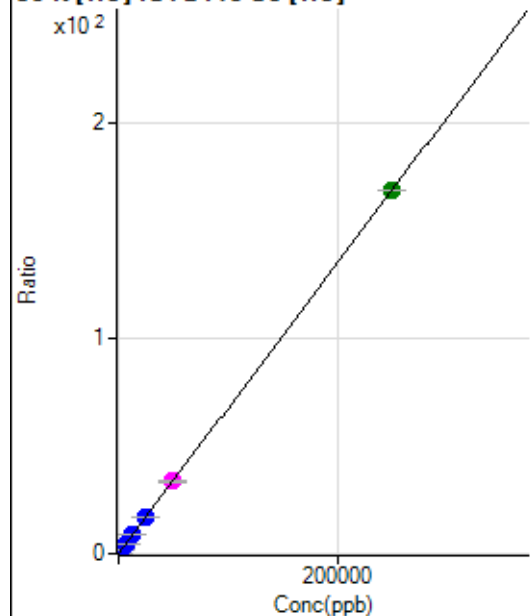
$$DL = 185.9$$

$$BEC = 7546$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 7944.11     | 0.0536   | P    | 2.9 |
| 2 | <input type="checkbox"/> | 50.000    | 47.626     | 12519.63    | 0.0856   | P    | 4.1 |
| 3 | <input type="checkbox"/> | 500.000   | 472.745    | 53999.31    | 0.3716   | P    | 1.2 |
| 4 | <input type="checkbox"/> | 2500.000  | 2742.824   | 268527.74   | 1.8988   | P    | 0.5 |
| 5 | <input type="checkbox"/> | 6250.000  | 6602.886   | 619268.12   | 4.4957   | P    | 1.5 |
| 6 | <input type="checkbox"/> | 12500.000 | 13014.934  | 1130687.34  | 8.8095   | P    | 0.4 |
| 7 | <input type="checkbox"/> | 25000.000 | 24882.289  | 2135266.02  | 16.7934  | P    | 0.5 |
| 8 | <input type="checkbox"/> | 50000.000 | 49751.657  | 4216793.24  | 33.5244  | M    | 1.2 |
| 9 | <input type="checkbox"/> | 250000.00 | 250024.49  | 23680793.93 | 168.2596 | A    | 0.1 |

$$y = 6.7276\text{E-}004 * x + 0.0536$$

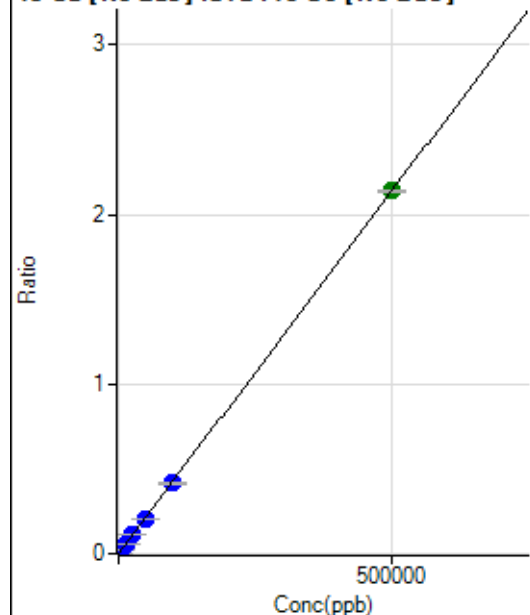
$$R = 1.0000$$

$$DL = 6.957$$

$$BEC = 79.66$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 36.11      | 0.0000 | P    | 13.2 |
| 2 | <input type="checkbox"/> | 50.000    | 54.400     | 733.39     | 0.0002 | P    | 7.5  |
| 3 | <input type="checkbox"/> | 500.000   | 455.745    | 5895.87    | 0.0020 | P    | 3.9  |
| 4 | <input type="checkbox"/> | 5000.000  | 5294.958   | 66000.37   | 0.0226 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12817.899  | 157544.56  | 0.0548 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 25000.000 | 25365.456  | 289660.98  | 0.1084 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 50000.000 | 48655.649  | 539060.75  | 0.2079 | P    | 0.6  |
| 8 | <input type="checkbox"/> | 100000.00 | 96927.470  | 1064280.72 | 0.4142 | P    | 0.5  |
| 9 | <input type="checkbox"/> | 500000.00 | 500719.81  | 5676672.74 | 2.1399 | A    | 0.6  |

$$y = 4.2736E-006 * x + 1.1790E-005$$

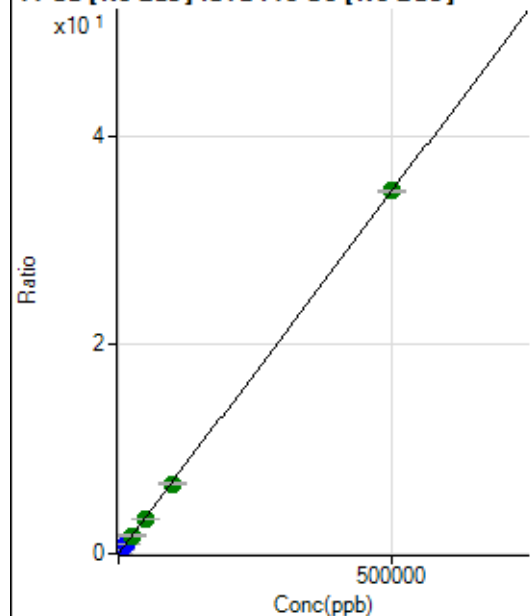
R = 1.0000

DL = 1.091

BEC = 2.759

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2594.81     | 0.0008  | P    | 2.8 |
| 2 | <input type="checkbox"/> | 50.000    | 48.830     | 12697.60    | 0.0042  | P    | 3.0 |
| 3 | <input type="checkbox"/> | 500.000   | 460.681    | 98591.18    | 0.0328  | P    | 0.7 |
| 4 | <input type="checkbox"/> | 5000.000  | 5318.183   | 1076614.14  | 0.3693  | P    | 0.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 12843.860  | 2561127.55  | 0.8907  | P    | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 25157.360  | 4659104.10  | 1.7438  | A    | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 48380.854  | 8691372.76  | 3.3528  | A    | 0.6 |
| 8 | <input type="checkbox"/> | 100000.00 | 96652.292  | 17206046.05 | 6.6971  | A    | 1.0 |
| 9 | <input type="checkbox"/> | 500000.00 | 500811.84  | 92045654.84 | 34.6980 | A    | 0.4 |

$$y = 6.9282E-005 * x + 8.4738E-004$$

R = 1.0000

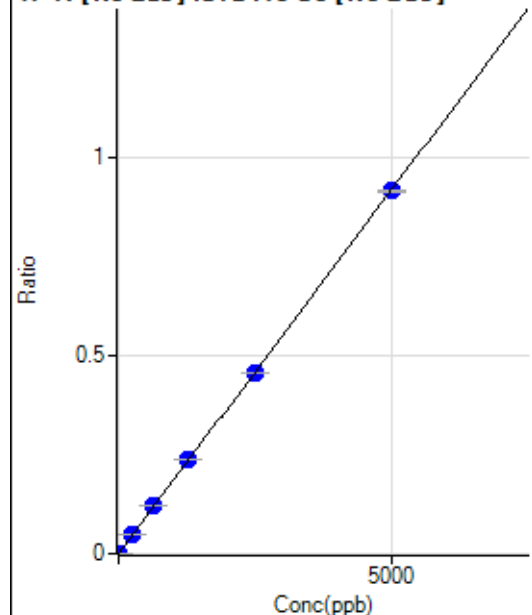
DL = 1.033

BEC = 12.23

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      | 30.55      | 0.0000 | P    | 68.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.505      | 308.35     | 0.0001 | P    | 5.1  |
| 3 | <input type="checkbox"/> | 5.000    | 5.237      | 2925.42    | 0.0010 | P    | 10.0 |
| 4 | <input type="checkbox"/> | 250.000  | 269.595    | 144372.61  | 0.0495 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 661.039    | 349120.49  | 0.1214 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1299.496   | 637707.57  | 0.2387 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2490.989   | 1185992.92 | 0.4575 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 4986.647   | 2352977.16 | 0.9158 | P    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 1269.56    | 0.0005 | P    | 9.7  |

$$y = 1.8366E-004 * x + 9.9624E-006$$

$$R = 0.9999$$

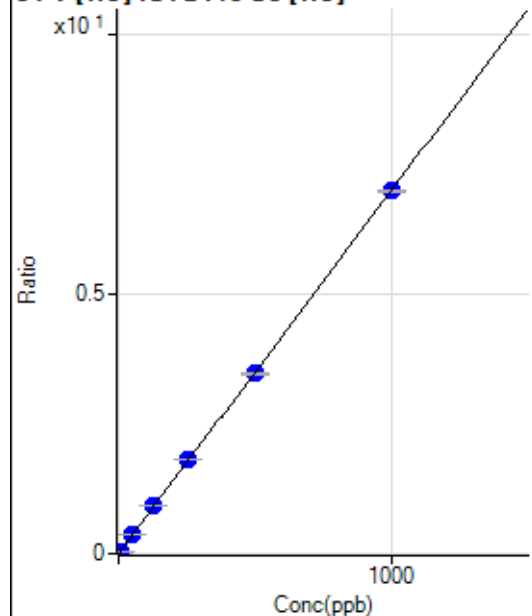
$$DL = 0.1115$$

$$BEC = 0.05424$$

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      | 1.11      | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 0.500    | 0.486      | 497.80    | 0.0034 | P    | 9.9  |
| 3 | <input type="checkbox"/> | 5.000    | 4.950      | 5028.71   | 0.0346 | P    | 3.2  |
| 4 | <input type="checkbox"/> | 50.000   | 53.850     | 53231.33  | 0.3764 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 125.000  | 131.555    | 126670.21 | 0.9196 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 250.000  | 259.793    | 233073.35 | 1.8159 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 496.207    | 441003.52 | 3.4685 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.436    | 877870.58 | 6.9790 | P    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 236.67    | 0.0017 | P    | 10.1 |

$$y = 0.0070 * x + 7.4480E-006$$

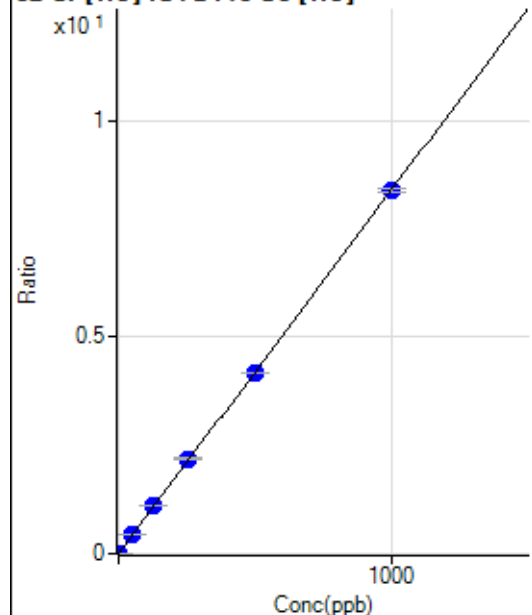
$$R = 0.9999$$

$$DL = 0.005537$$

$$BEC = 0.001066$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 322.23     | 0.0022 | P   | 11.8 |
| 2 | <input type="checkbox"/> | 0.200    | 0.201      | 564.47     | 0.0039 | P   | 8.0  |
| 3 | <input type="checkbox"/> | 2.000    | 1.873      | 2598.05    | 0.0179 | P   | 3.0  |
| 4 | <input type="checkbox"/> | 50.000   | 54.779     | 65268.17   | 0.4615 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 132.683    | 153568.71  | 1.1148 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 261.443    | 281668.43  | 2.1945 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 496.930    | 530116.60  | 4.1693 | P   | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.475    | 1052393.90 | 8.3666 | P   | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 14913.26   | 0.1060 | P   | 4.0  |

$$y = 0.0084 * x + 0.0022$$

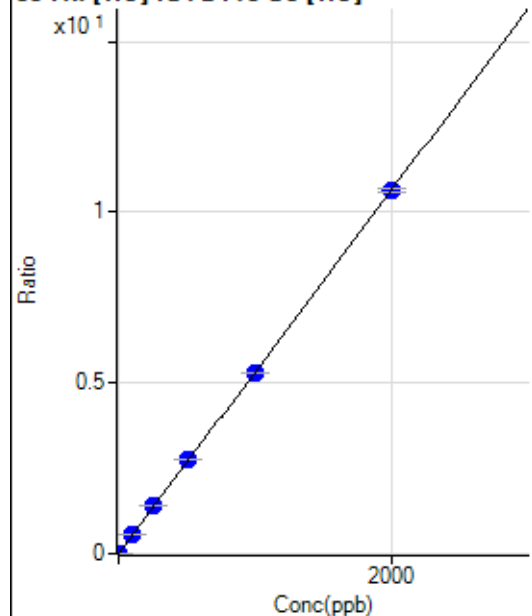
$$R = 0.9999$$

$$DL = 0.09179$$

$$BEC = 0.2593$$

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      | 32.22      | 0.0002  | P   | 15.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.140      | 141.11     | 0.0010  | P   | 20.2 |
| 3 | <input type="checkbox"/> | 1.000    | 1.005      | 808.93     | 0.0056  | P   | 5.3  |
| 4 | <input type="checkbox"/> | 100.000  | 109.462    | 82434.85   | 0.5829  | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 262.602    | 192594.85  | 1.3981  | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 521.060    | 356036.34  | 2.7739  | P   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.292    | 672321.98  | 5.2877  | P   | 0.7  |
| 8 | <input type="checkbox"/> | 2000.000 | 1996.041   | 1336547.70 | 10.6256 | P   | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 6323.68    | 0.0449  | P   | 4.2  |

$$y = 0.0053 * x + 2.1744E-004$$

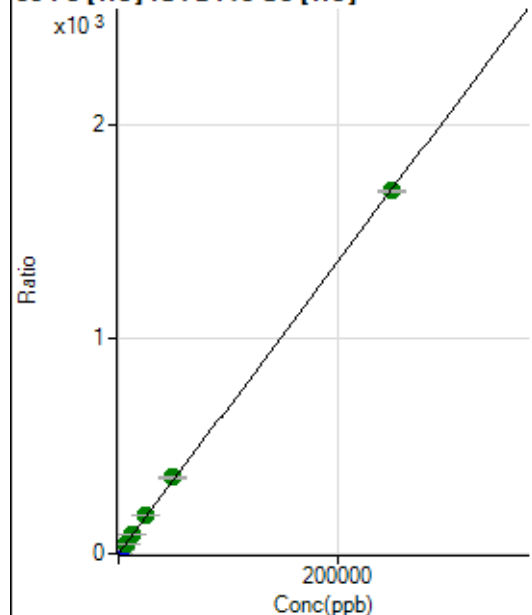
$$R = 0.9999$$

$$DL = 0.0195$$

$$BEC = 0.04085$$

Weight: &lt;None&gt;

Min Conc: 0

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

$$y = 0.0068 * x + 0.0103$$

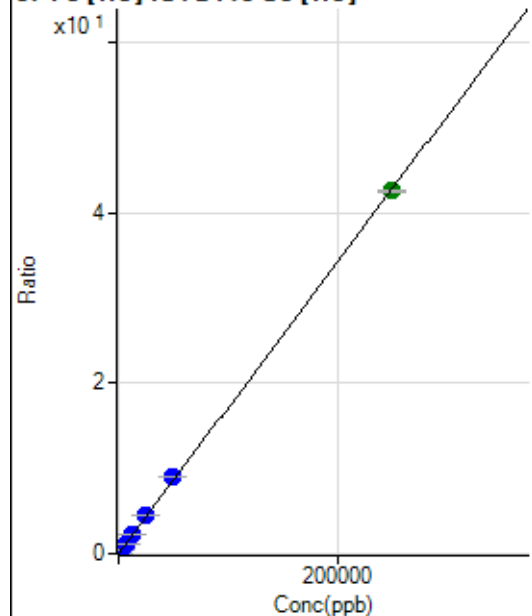
$$R = 0.9999$$

$$DL = 0.1315$$

$$BEC = 1.524$$

Weight: &lt;None&gt;

Min Conc: 0

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

$$y = 1.7085E-004 * x + 4.8789E-004$$

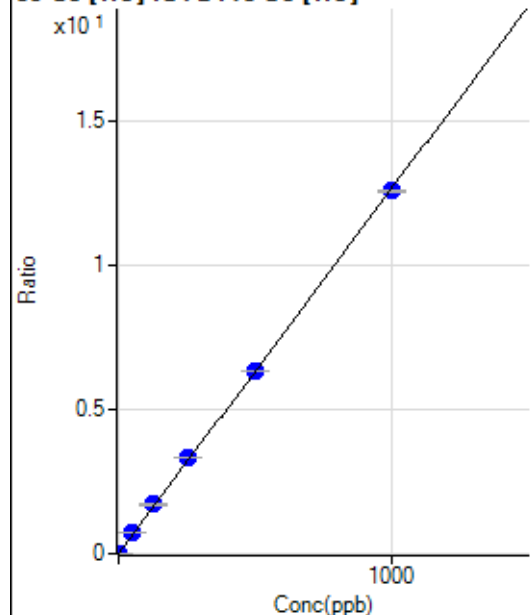
$$R = 0.9999$$

$$DL = 1.831$$

$$BEC = 2.856$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.00      | 0.0002  | P    | 47.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.105      | 223.34     | 0.0015  | P    | 11.4 |
| 3 | <input type="checkbox"/> | 1.000    | 0.995      | 1856.82    | 0.0128  | P    | 4.2  |
| 4 | <input type="checkbox"/> | 50.000   | 55.834     | 99837.99   | 0.7060  | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 134.537    | 234298.65  | 1.7009  | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 264.759    | 429588.99  | 3.3470  | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 500.930    | 805158.20  | 6.3324  | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.361    | 1581103.59 | 12.5697 | P    | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 20970.73   | 0.1490  | P    | 0.5  |

$$y = 0.0126 * x + 2.0177E-004$$

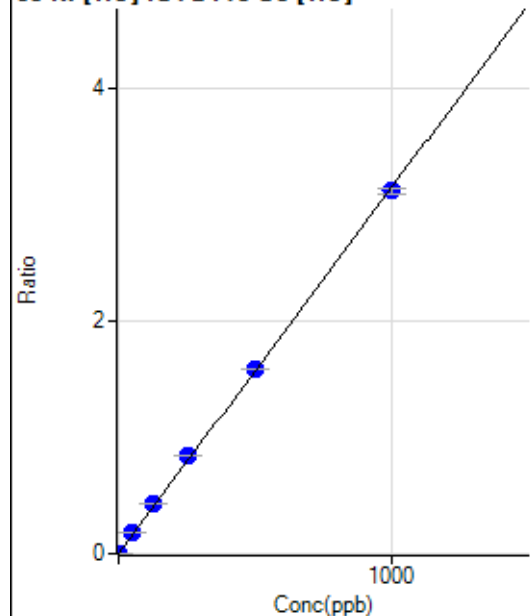
$$R = 0.9999$$

$$DL = 0.02294$$

$$BEC = 0.01596$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 55.56     | 0.0004 | P    | 2.5  |
| 2 | <input type="checkbox"/> | 0.100    | 0.057      | 81.11     | 0.0006 | P    | 22.6 |
| 3 | <input type="checkbox"/> | 1.000    | 1.072      | 543.35    | 0.0037 | P    | 8.0  |
| 4 | <input type="checkbox"/> | 50.000   | 56.981     | 25345.45  | 0.1792 | P    | 2.5  |
| 5 | <input type="checkbox"/> | 125.000  | 137.317    | 59426.62  | 0.4314 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 268.373    | 108174.05 | 0.8428 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 504.248    | 201303.16 | 1.5832 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.394    | 391475.38 | 3.1123 | P    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 7129.62   | 0.0507 | P    | 5.4  |

$$y = 0.0031 * x + 3.7473E-004$$

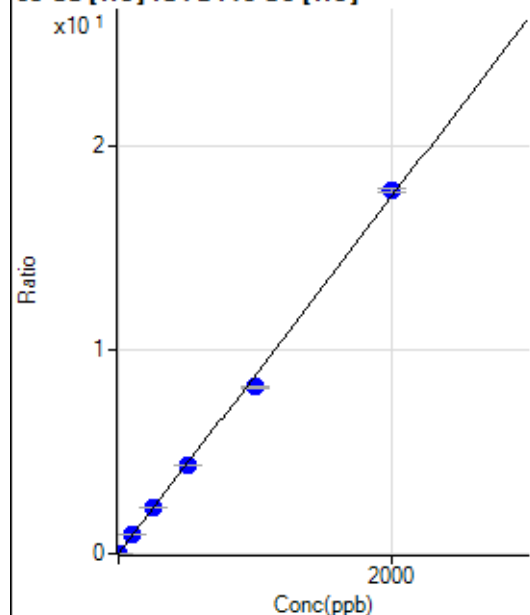
$$R = 0.9998$$

$$DL = 0.009059$$

$$BEC = 0.1194$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 195.56     | 0.0013  | P    | 17.3 |
| 2 | <input type="checkbox"/> | 0.200    | 0.233      | 491.13     | 0.0034  | P    | 8.5  |
| 3 | <input type="checkbox"/> | 2.000    | 1.887      | 2591.38    | 0.0178  | P    | 4.8  |
| 4 | <input type="checkbox"/> | 100.000  | 107.337    | 133013.95  | 0.9406  | P    | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 256.055    | 308836.21  | 2.2420  | P    | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 498.947    | 560564.42  | 4.3675  | P    | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 932.188    | 1037359.91 | 8.1587  | P    | 0.3  |
| 8 | <input type="checkbox"/> | 2000.000 | 2033.046   | 2237962.66 | 17.7920 | P    | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 3391.56    | 0.0241  | P    | 5.1  |

$$y = 0.0088 * x + 0.0013$$

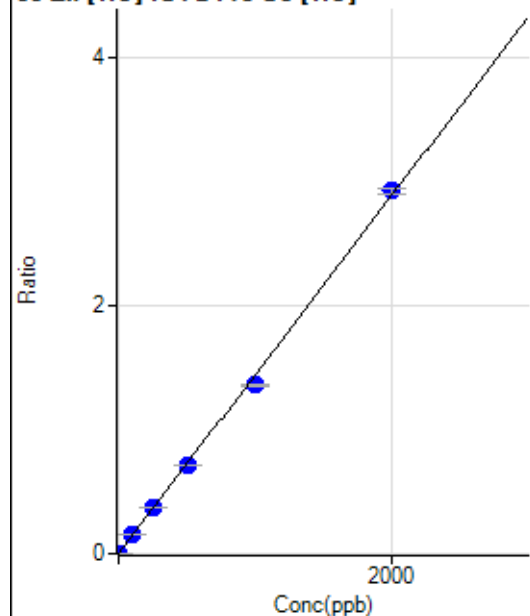
$$R = 0.9992$$

$$DL = 0.07845$$

$$BEC = 0.1509$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 88.89     | 0.0006 | P    | 4.9  |
| 2 | <input type="checkbox"/> | 0.200    | 0.317      | 154.45    | 0.0011 | P    | 10.7 |
| 3 | <input type="checkbox"/> | 2.000    | 1.911      | 487.79    | 0.0034 | P    | 8.6  |
| 4 | <input type="checkbox"/> | 100.000  | 110.952    | 22717.87  | 0.1606 | P    | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 254.698    | 50687.69  | 0.3680 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 497.437    | 92165.18  | 0.7181 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 943.709    | 173144.73 | 1.3618 | P    | 0.9  |
| 8 | <input type="checkbox"/> | 2000.000 | 2027.651   | 367935.10 | 2.9252 | P    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 5399.97   | 0.0384 | P    | 0.7  |

$$y = 0.0014 * x + 5.9949E-004$$

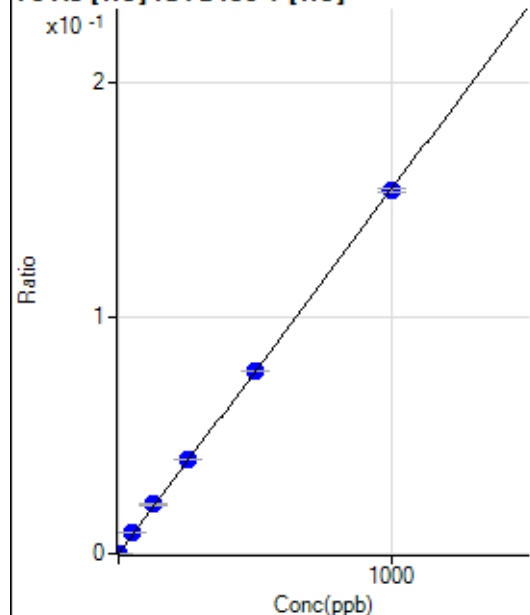
$$R = 0.9994$$

$$DL = 0.06056$$

$$BEC = 0.4156$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.85      | 0.0000 | P    | 100. |
| 2 | <input type="checkbox"/> | 0.100    | 0.130      | 18.52     | 0.0000 | P    | 17.4 |
| 3 | <input type="checkbox"/> | 1.000    | 0.922      | 118.52    | 0.0001 | P    | 8.6  |
| 4 | <input type="checkbox"/> | 50.000   | 56.399     | 7042.50   | 0.0087 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 135.257    | 16440.87  | 0.0209 | P    | 1.8  |
| 6 | <input type="checkbox"/> | 250.000  | 259.152    | 29791.62  | 0.0400 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 501.524    | 57391.59  | 0.0775 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.348    | 112946.56 | 0.1538 | P    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 182.10    | 0.0002 | P    | 3.2  |

$$y = 1.5448\text{E-}004 * x + 2.2211\text{E-}006$$

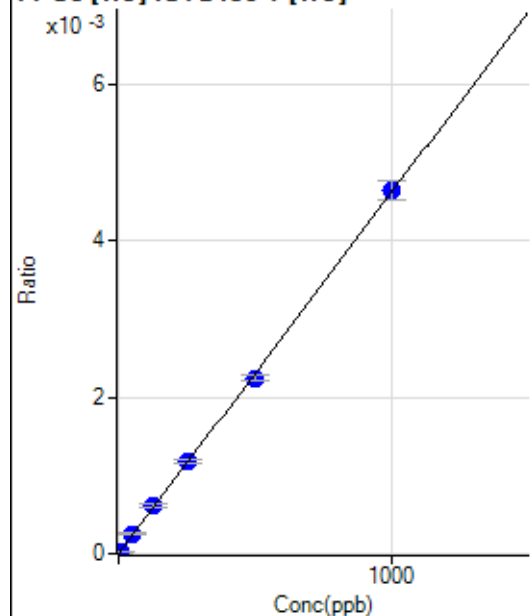
$$R = 0.9999$$

$$DL = 0.04345$$

$$BEC = 0.01438$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P    |      |
| 2 | <input type="checkbox"/> | 0.500    | 0.869      | 3.33    | 0.0000 | P    | 100. |
| 3 | <input type="checkbox"/> | 5.000    | 5.571      | 21.11   | 0.0000 | P    | 18.0 |
| 4 | <input type="checkbox"/> | 50.000   | 55.002     | 205.56  | 0.0003 | P    | 10.1 |
| 5 | <input type="checkbox"/> | 125.000  | 134.402    | 488.91  | 0.0006 | P    | 7.4  |
| 6 | <input type="checkbox"/> | 250.000  | 255.140    | 877.82  | 0.0012 | P    | 3.7  |
| 7 | <input type="checkbox"/> | 500.000  | 486.048    | 1664.57 | 0.0022 | P    | 3.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.263   | 3411.57 | 0.0046 | P    | 5.3  |
| 9 | <input type="checkbox"/> |          |            | 1.11    | 0.0000 | P    | 173. |

$$y = 4.6233\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

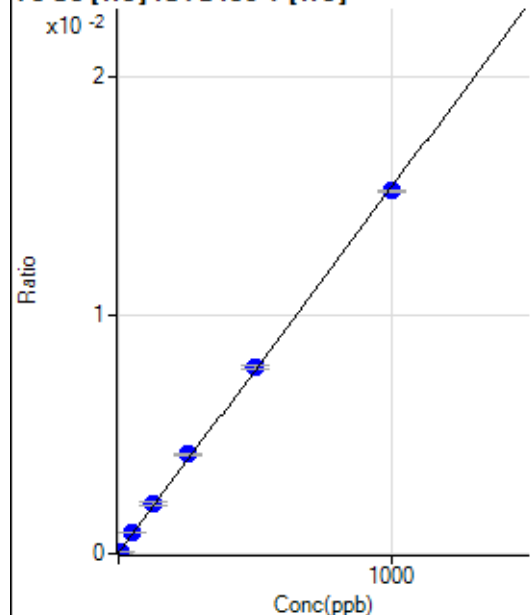
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78    | 0.0000 | P   | 24.9 |
| 2 | <input type="checkbox"/> | 0.500    | -0.173     | 25.31    | 0.0000 | P   | 8.7  |
| 3 | <input type="checkbox"/> | 5.000    | 4.516      | 83.95    | 0.0001 | P   | 19.5 |
| 4 | <input type="checkbox"/> | 50.000   | 55.660     | 716.69   | 0.0009 | P   | 6.7  |
| 5 | <input type="checkbox"/> | 125.000  | 135.693    | 1663.69  | 0.0021 | P   | 5.7  |
| 6 | <input type="checkbox"/> | 250.000  | 269.184    | 3097.27  | 0.0042 | P   | 2.5  |
| 7 | <input type="checkbox"/> | 500.000  | 507.391    | 5790.09  | 0.0078 | P   | 2.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.891    | 11179.68 | 0.0152 | P   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 29.01    | 0.0000 | P   | 13.0 |

$$y = 1.5340\text{E-}005 * x + 3.3156\text{E-}005$$

$$R = 0.9997$$

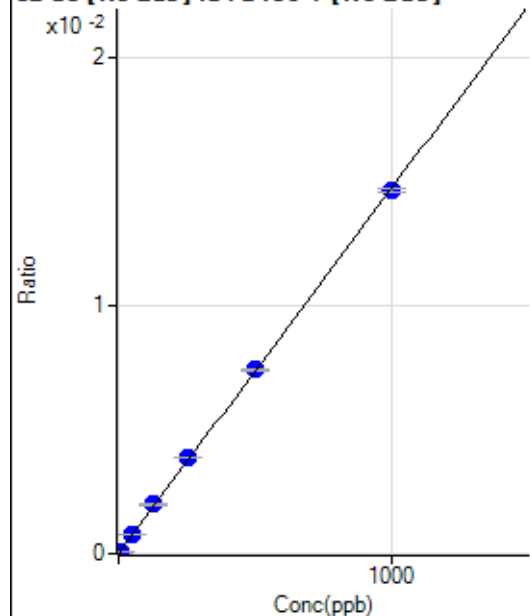
$$DL = 1.617$$

$$BEC = 2.161$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 53.34    | 0.0000 | P   | 47.2 |
| 2 | <input type="checkbox"/> | 0.500    | 0.109      | 62.39    | 0.0000 | P   | 37.1 |
| 3 | <input type="checkbox"/> | 5.000    | 4.987      | 440.96   | 0.0001 | P   | 10.9 |
| 4 | <input type="checkbox"/> | 50.000   | 53.911     | 4124.68  | 0.0008 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 134.109    | 10072.81 | 0.0020 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 264.728    | 18808.09 | 0.0039 | P   | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 503.687    | 35211.97 | 0.0074 | P   | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.141    | 68793.35 | 0.0146 | P   | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 73.99    | 0.0000 | P   | 24.8 |

$$y = 1.4693\text{E-}005 * x + 1.0281\text{E-}005$$

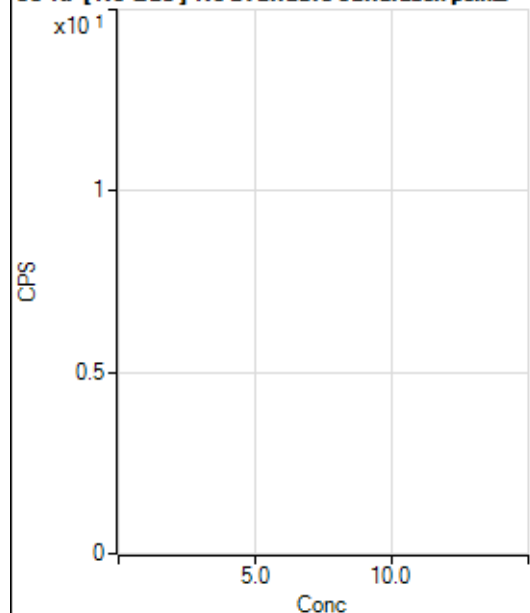
$$R = 0.9998$$

$$DL = 0.9898$$

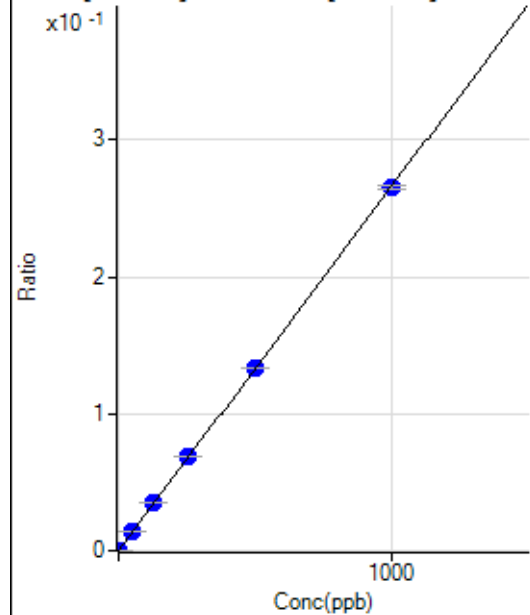
$$BEC = 0.6997$$

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"/> |       |            | 124.45 |       | P        | 10.8 |
| 2 | <input type="checkbox"/> |       |            | 157.78 |       | P        | 17.7 |
| 3 | <input type="checkbox"/> |       |            | 138.89 |       | P        | 16.0 |
| 4 | <input type="checkbox"/> |       |            | 131.12 |       | P        | 17.3 |
| 5 | <input type="checkbox"/> |       |            | 130.00 |       | P        | 4.4  |
| 6 | <input type="checkbox"/> |       |            | 138.89 |       | P        | 14.5 |
| 7 | <input type="checkbox"/> |       |            | 128.89 |       | P        | 19.8 |
| 8 | <input type="checkbox"/> |       |            | 106.67 |       | P        | 14.3 |
| 9 | <input type="checkbox"/> |       |            | 128.89 |       | P        | 5.4  |

**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      | 197.23     | 0.0000 | P        | 12.1 |
| 2 | <input type="checkbox"/> | 0.100    | 0.098      | 336.13     | 0.0001 | P        | 18.5 |
| 3 | <input type="checkbox"/> | 1.000    | 0.971      | 1564.05    | 0.0003 | P        | 7.8  |
| 4 | <input type="checkbox"/> | 50.000   | 53.886     | 73884.71   | 0.0144 | P        | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 130.648    | 176932.28  | 0.0348 | P        | 1.5  |
| 6 | <input type="checkbox"/> | 250.000  | 258.623    | 331986.42  | 0.0688 | P        | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 501.607    | 634205.49  | 0.1335 | P        | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.140    | 1248609.87 | 0.2650 | P        | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 5762.49    | 0.0012 | P        | 2.0  |

$$y = 2.6602E-004 * x + 3.8052E-005$$

$$R = 0.9999$$

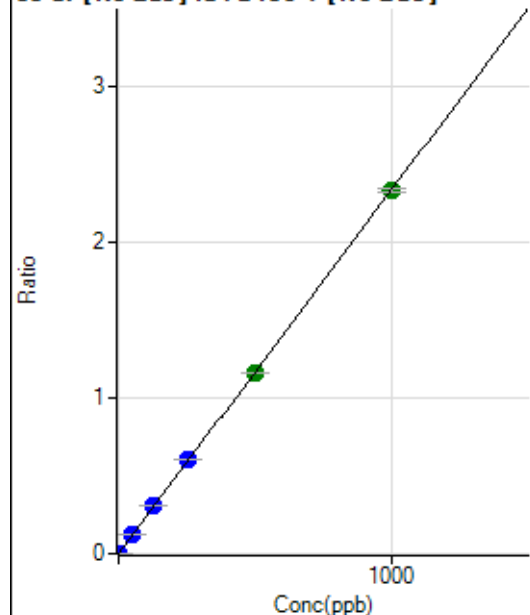
$$DL = 0.05196$$

$$BEC = 0.143$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 83.34       | 0.0000 | P        | 10.2 |
| 2 | <input type="checkbox"/> | 0.100    | 0.087      | 1155.65     | 0.0002 | P        | 1.9  |
| 3 | <input type="checkbox"/> | 1.000    | 0.930      | 11574.57    | 0.0022 | P        | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 54.001     | 649681.12   | 0.1264 | P        | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 131.778    | 1568242.35  | 0.3084 | P        | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 260.167    | 2936269.42  | 0.6088 | P        | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 498.119    | 5538599.04  | 1.1657 | A        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.351    | 10995423.08 | 2.3339 | A        | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 49285.58    | 0.0105 | P        | 1.1  |

$$y = 0.0023 * x + 1.6082E-005$$

$$R = 0.9999$$

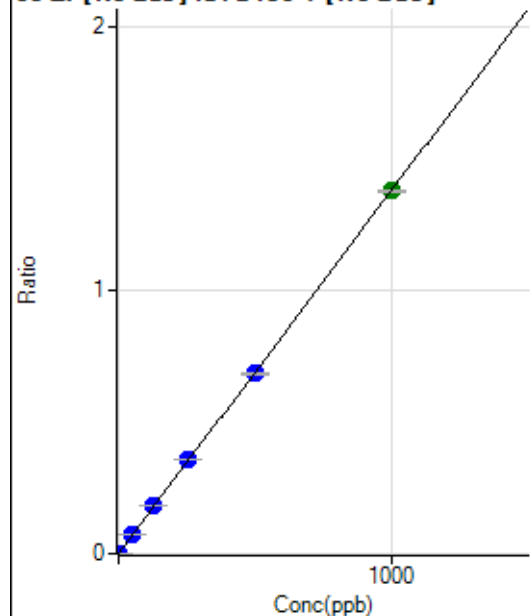
$$DL = 0.002102$$

$$BEC = 0.006872$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 341.68     | 0.0001 | P        | 33.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.075      | 891.73     | 0.0002 | P        | 10.4 |
| 3 | <input type="checkbox"/> | 1.000    | 0.887      | 6804.69    | 0.0013 | P        | 3.8  |
| 4 | <input type="checkbox"/> | 50.000   | 53.928     | 382752.73  | 0.0745 | P        | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 131.088    | 919919.24  | 0.1809 | P        | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 259.704    | 1728109.32 | 0.3583 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 495.404    | 3247440.81 | 0.6835 | P        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.915    | 6492227.62 | 1.3780 | A        | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 2467.00    | 0.0005 | P        | 3.4  |

$$y = 0.0014 * x + 6.5840E-005$$

$$R = 0.9999$$

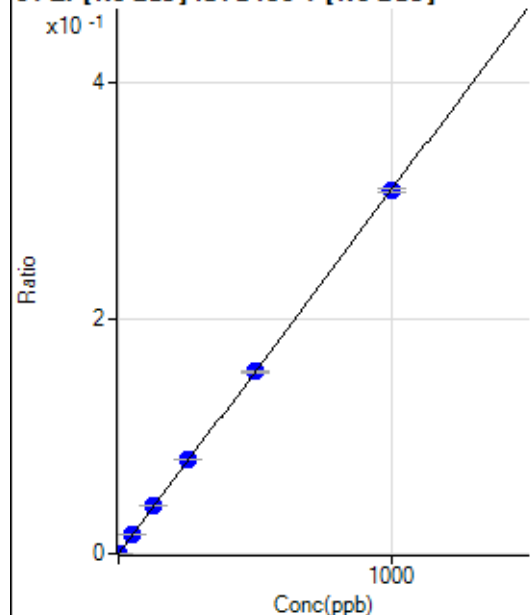
$$DL = 0.0479$$

$$BEC = 0.04773$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 55.56      | 0.0000 | P    | 8.8  |
| 2 | <input type="checkbox"/> | 0.100    | 0.082      | 188.90     | 0.0000 | P    | 28.5 |
| 3 | <input type="checkbox"/> | 1.000    | 0.918      | 1555.71    | 0.0003 | P    | 3.1  |
| 4 | <input type="checkbox"/> | 50.000   | 54.080     | 86091.71   | 0.0167 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 130.923    | 206101.93  | 0.0405 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 259.950    | 388035.07  | 0.0805 | P    | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 499.608    | 734716.05  | 0.1546 | P    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.764    | 1453332.04 | 0.3085 | P    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 522.26     | 0.0001 | P    | 14.1 |

$$y = 3.0948\text{E-}004 * x + 1.0721\text{E-}005$$

$$R = 0.9999$$

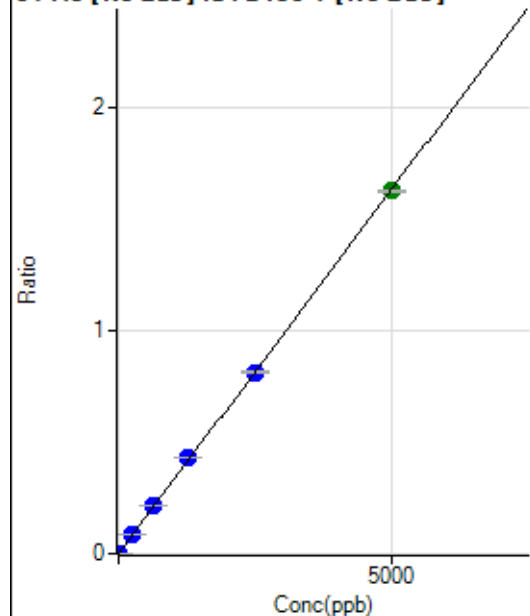
$$DL = 0.009125$$

$$BEC = 0.03464$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 127.79     | 0.0000 | P    | 35.7 |
| 2 | <input type="checkbox"/> | 0.500    | 0.544      | 1063.97    | 0.0002 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 5.000    | 4.867      | 8533.41    | 0.0016 | P    | 5.4  |
| 4 | <input type="checkbox"/> | 250.000  | 270.980    | 455791.40  | 0.0887 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 663.440    | 1103729.90 | 0.2170 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 1250.000 | 1312.149   | 2070146.31 | 0.4292 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2492.429   | 3873950.65 | 0.8153 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 5000.000 | 4982.394   | 7678651.47 | 1.6298 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 4712.09    | 0.0010 | P    | 5.8  |

$$y = 3.2711\text{E-}004 * x + 2.4635\text{E-}005$$

$$R = 0.9999$$

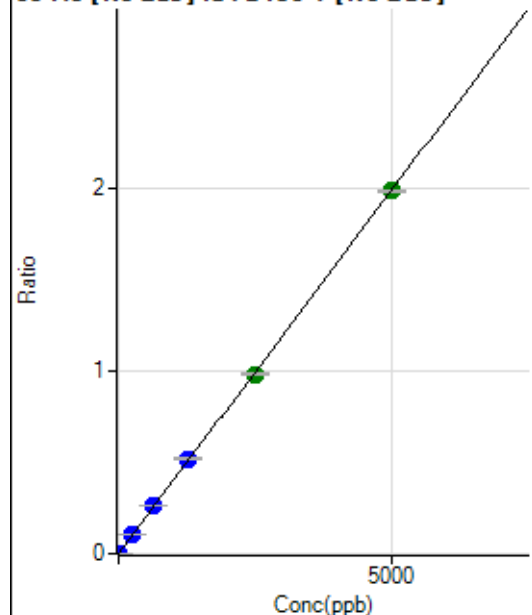
$$DL = 0.08062$$

$$BEC = 0.07531$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0000 | P    | 45.7 |
| 2 | <input type="checkbox"/> | 0.500    | 0.481      | 1030.64    | 0.0002 | P    | 9.8  |
| 3 | <input type="checkbox"/> | 5.000    | 4.989      | 10493.17   | 0.0020 | P    | 2.7  |
| 4 | <input type="checkbox"/> | 250.000  | 270.158    | 551871.91  | 0.1074 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 625.000  | 661.296    | 1336335.47 | 0.2628 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1309.742   | 2509986.60 | 0.5205 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2473.597   | 4670326.58 | 0.9829 | A    | 0.6  |
| 8 | <input type="checkbox"/> | 5000.000 | 4992.721   | 9346774.86 | 1.9839 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 6940.86    | 0.0015 | P    | 2.4  |

$$y = 3.9737E-004 * x + 5.3553E-006$$

$$R = 0.9999$$

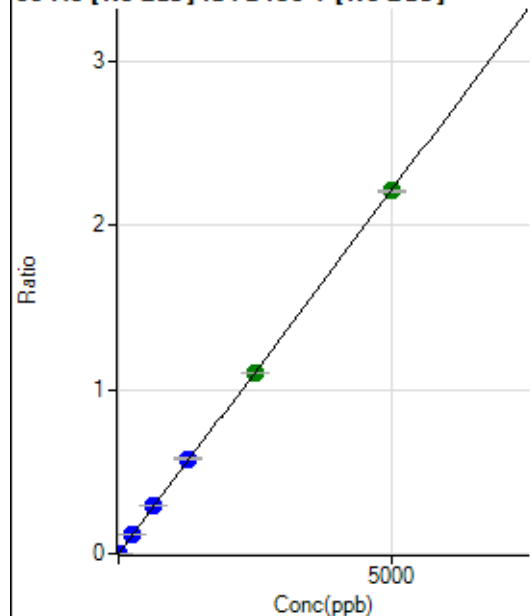
$$DL = 0.01846$$

$$BEC = 0.01348$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00       | 0.0000 | P    | 16.3 |
| 2 | <input type="checkbox"/> | 0.500    | 0.489      | 1188.99     | 0.0002 | P    | 2.6  |
| 3 | <input type="checkbox"/> | 5.000    | 4.835      | 11363.34    | 0.0022 | P    | 2.1  |
| 4 | <input type="checkbox"/> | 250.000  | 271.120    | 617818.36   | 0.1202 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 658.832    | 1485131.31  | 0.2920 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1307.756   | 2795686.41  | 0.5797 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2479.024   | 5221222.86  | 1.0989 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4990.764   | 10422192.77 | 2.2122 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 9442.44     | 0.0020 | P    | 2.7  |

$$y = 4.4326E-004 * x + 9.6438E-006$$

$$R = 0.9999$$

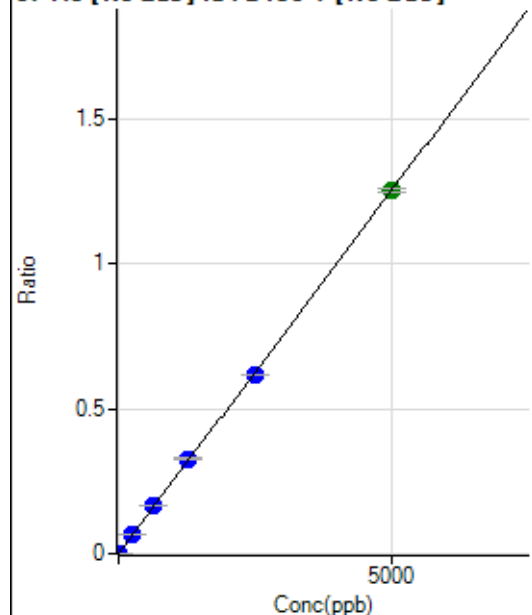
$$DL = 0.01067$$

$$BEC = 0.02176$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00      | 0.0000 | P    | 33.8 |
| 2 | <input type="checkbox"/> | 0.500    | 0.562      | 763.94     | 0.0001 | P    | 16.1 |
| 3 | <input type="checkbox"/> | 5.000    | 4.805      | 6373.91    | 0.0012 | P    | 3.5  |
| 4 | <input type="checkbox"/> | 250.000  | 271.480    | 349307.42  | 0.0680 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 660.021    | 840100.93  | 0.1652 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1309.949   | 1581240.92 | 0.3279 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2466.868   | 2933704.43 | 0.6174 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4996.127   | 5891174.05 | 1.2505 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 4209.14    | 0.0009 | P    | 4.8  |

$$y = 2.5029\text{E-}004 * x + 4.8277\text{E-}006$$

$$R = 0.9999$$

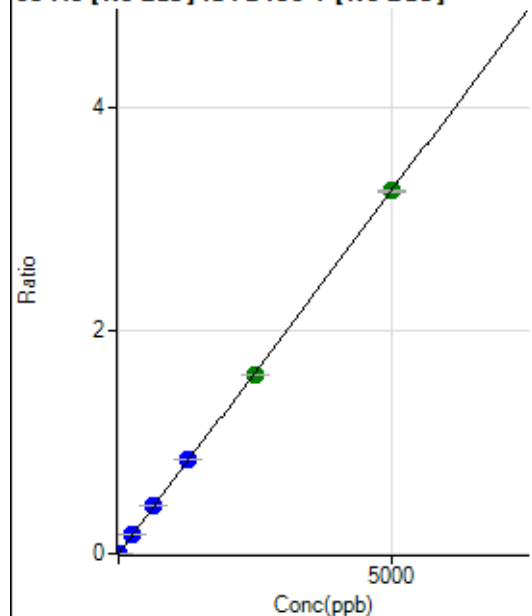
$$DL = 0.01954$$

$$BEC = 0.01929$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.67       | 0.0000 | P    | 68.8 |
| 2 | <input type="checkbox"/> | 0.500    | 0.485      | 1700.17     | 0.0003 | P    | 3.1  |
| 3 | <input type="checkbox"/> | 5.000    | 4.860      | 16760.47    | 0.0032 | P    | 4.0  |
| 4 | <input type="checkbox"/> | 250.000  | 268.546    | 899688.31   | 0.1750 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 658.784    | 2183349.25  | 0.4293 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 1250.000 | 1293.809   | 4066415.46  | 0.8432 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2471.378   | 7652757.12  | 1.6106 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4998.209   | 15346200.17 | 3.2573 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 11271.59    | 0.0024 | P    | 6.3  |

$$y = 6.5170\text{E-}004 * x + 8.0220\text{E-}006$$

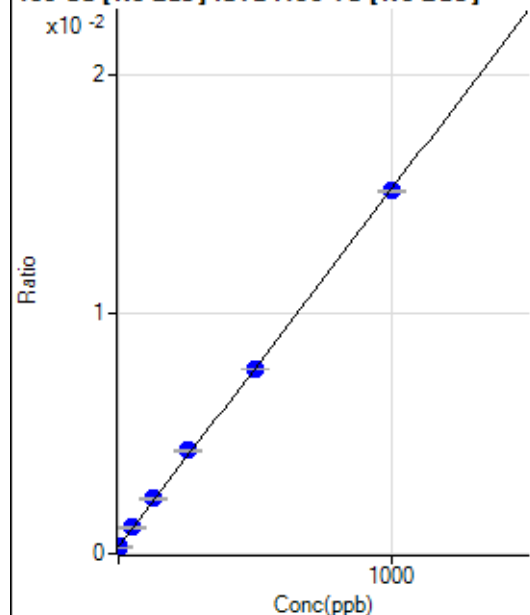
$$R = 0.9999$$

$$DL = 0.0254$$

$$BEC = 0.01231$$

Weight: &lt;None&gt;

Min Conc: 0

**106 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      | 2303.07   | 0.0003 | P    | 3.2  |
| 2 | <input type="checkbox"/> | 0.100    | -1.924     | 2097.48   | 0.0003 | P    | 10.5 |
| 3 | <input type="checkbox"/> | 1.000    | -0.877     | 2236.39   | 0.0003 | P    | 3.5  |
| 4 | <input type="checkbox"/> | 50.000   | 54.037     | 8769.74   | 0.0011 | P    | 3.5  |
| 5 | <input type="checkbox"/> | 125.000  | 135.229    | 18490.49  | 0.0023 | P    | 4.4  |
| 6 | <input type="checkbox"/> | 250.000  | 269.306    | 33715.97  | 0.0043 | P    | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 497.031    | 60750.39  | 0.0077 | P    | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.180    | 119817.01 | 0.0152 | P    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 1955.77   | 0.0003 | P    | 6.8  |

$$y = 1.4938\text{E-}005 * x + 2.8777\text{E-}004$$

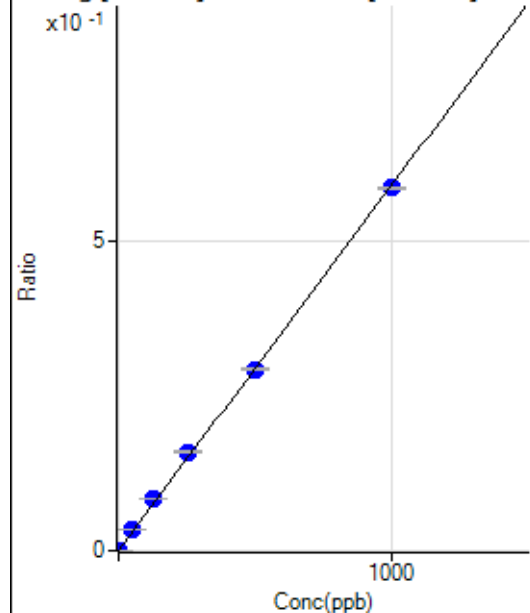
$$R = 0.9997$$

$$DL = 1.821$$

$$BEC = 19.26$$

Weight: &lt;None&gt;

Min Conc: 0

**107 Ag [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    | 68.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.124      | 630.60     | 0.0001 | P    | 10.8 |
| 3 | <input type="checkbox"/> | 1.000    | 1.067      | 5170.63    | 0.0006 | P    | 8.1  |
| 4 | <input type="checkbox"/> | 50.000   | 59.010     | 279246.78  | 0.0349 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 125.000  | 141.778    | 671219.51  | 0.0838 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 270.797    | 1251288.09 | 0.1600 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 497.568    | 2315480.59 | 0.2939 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.469    | 4640568.07 | 0.5869 | P    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 533.37     | 0.0001 | P    | 6.7  |

$$y = 5.9076\text{E-}004 * x + 4.8424\text{E-}006$$

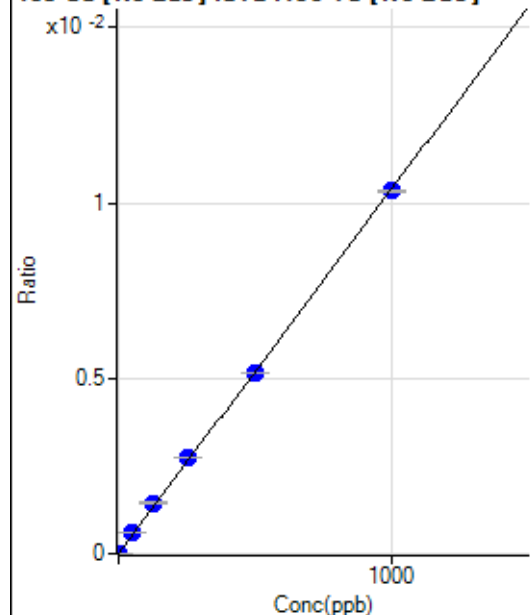
$$R = 0.9997$$

$$DL = 0.01689$$

$$BEC = 0.008197$$

Weight: &lt;None&gt;

Min Conc: 0

**108 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      | 12.50    | 0.0000 | P    | 87.8 |
| 2 | <input type="checkbox"/> | 0.100    | 0.015      | 13.89    | 0.0000 | P    | 17.2 |
| 3 | <input type="checkbox"/> | 1.000    | 0.950      | 93.06    | 0.0000 | P    | 11.6 |
| 4 | <input type="checkbox"/> | 50.000   | 56.548     | 4717.55  | 0.0006 | P    | 3.0  |
| 5 | <input type="checkbox"/> | 125.000  | 139.486    | 11625.82 | 0.0015 | P    | 1.3  |
| 6 | <input type="checkbox"/> | 250.000  | 265.540    | 21588.93 | 0.0028 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 497.049    | 40689.10 | 0.0052 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.452    | 81780.12 | 0.0103 | P    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 30.56    | 0.0000 | P    | 35.0 |

$$y = 1.0389\text{E-}005 * x + 1.5608\text{E-}006$$

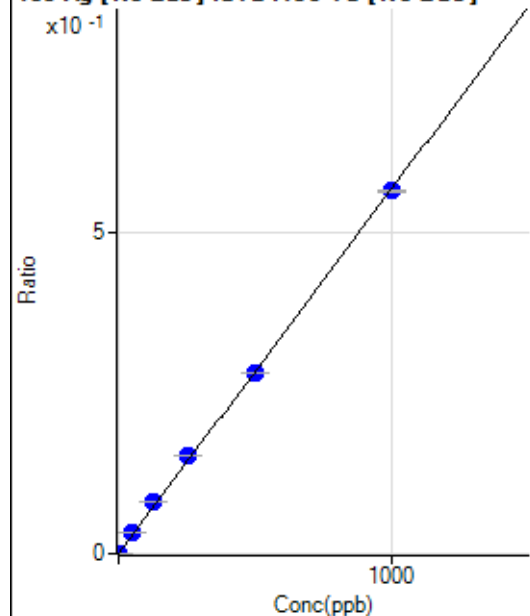
$$R = 0.9998$$

$$DL = 0.3959$$

$$BEC = 0.1502$$

Weight: &lt;None&gt;

Min Conc: 0

**109 Ag [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      | 25.00      | 0.0000 | P    | 66.2 |
| 2 | <input type="checkbox"/> | 0.100    | 0.103      | 500.03     | 0.0001 | P    | 19.1 |
| 3 | <input type="checkbox"/> | 1.000    | 1.027      | 4784.35    | 0.0006 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 50.000   | 58.945     | 268798.77  | 0.0336 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 141.656    | 646348.60  | 0.0806 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 250.000  | 270.587    | 1204919.62 | 0.1541 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 494.916    | 2219589.46 | 0.2818 | P    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.866    | 4478387.21 | 0.5664 | P    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 483.36     | 0.0001 | P    | 4.9  |

$$y = 5.6931\text{E-}004 * x + 3.1134\text{E-}006$$

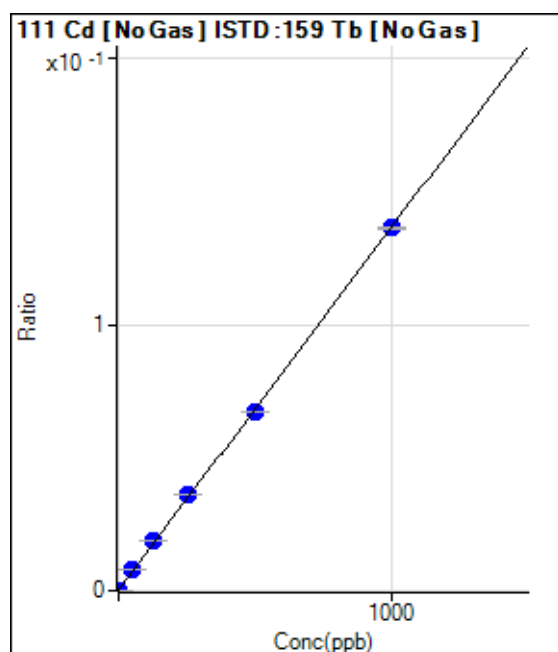
$$R = 0.9997$$

$$DL = 0.01087$$

$$BEC = 0.005469$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1608.95    | 0.0002 | P    | 3.2  |
| 2 | <input type="checkbox"/> | 0.100    | -0.053     | 1569.63    | 0.0002 | P    | 12.0 |
| 3 | <input type="checkbox"/> | 1.000    | 0.812      | 2539.28    | 0.0003 | P    | 4.5  |
| 4 | <input type="checkbox"/> | 50.000   | 56.960     | 63878.75   | 0.0080 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 136.320    | 150716.03  | 0.0188 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 265.342    | 284853.89  | 0.0364 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 492.387    | 530990.41  | 0.0674 | P    | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.208    | 1078890.61 | 0.1364 | P    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 1600.44    | 0.0002 | P    | 5.6  |

$$y = 1.3649\text{E-}004 * x + 2.0104\text{E-}004$$

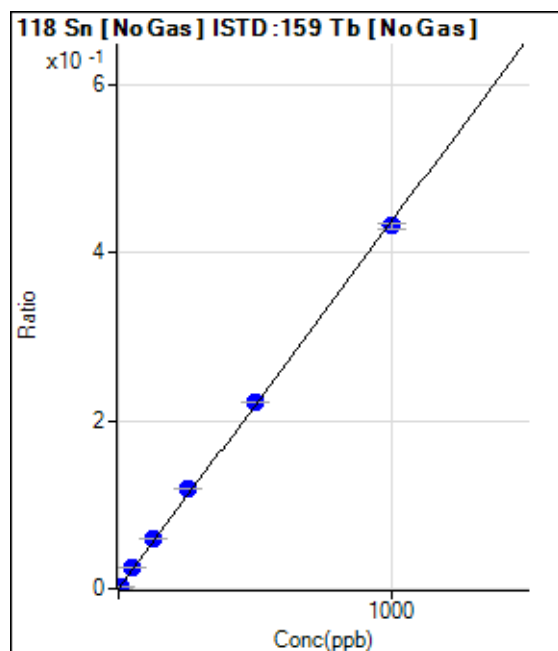
$$R = 0.9998$$

$$DL = 0.1433$$

$$BEC = 1.473$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 200.01     | 0.0000 | P    | 28.0 |
| 2 | <input type="checkbox"/> | 0.500    | 0.546      | 2136.37    | 0.0003 | P    | 0.3  |
| 3 | <input type="checkbox"/> | 5.000    | 5.323      | 19155.44   | 0.0024 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 50.000   | 57.328     | 200976.85  | 0.0251 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 125.000  | 138.099    | 484124.26  | 0.0604 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 250.000  | 272.096    | 930833.24  | 0.1190 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 508.406    | 1751469.51 | 0.2223 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 988.267    | 3417092.78 | 0.4322 | P    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 2992.11    | 0.0004 | P    | 3.6  |

$$y = 4.3728\text{E-}004 * x + 2.5029\text{E-}005$$

$$R = 0.9996$$

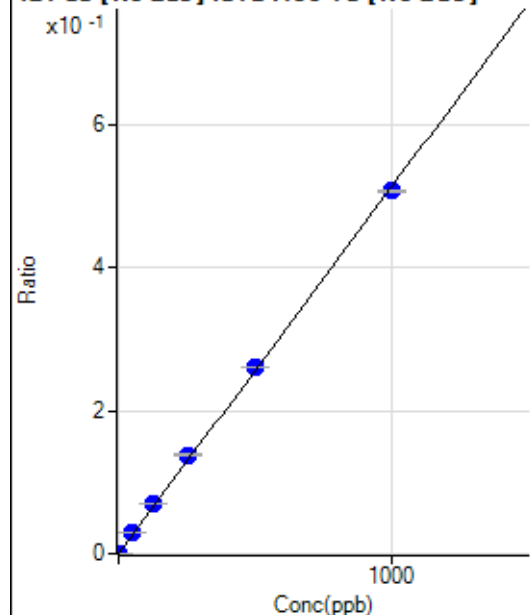
$$DL = 0.04815$$

$$BEC = 0.05724$$

Weight: <None>

Min Conc: 0

121 Sb [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      | 25.00      | 0.0000 | P   | 66.4 |
| 2 | <input type="checkbox"/> | 0.200    | 0.175      | 750.05     | 0.0001 | P   | 5.5  |
| 3 | <input type="checkbox"/> | 2.000    | 1.956      | 8177.75    | 0.0010 | P   | 3.2  |
| 4 | <input type="checkbox"/> | 50.000   | 56.782     | 232858.09  | 0.0291 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 137.868    | 565667.55  | 0.0706 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 269.460    | 1079058.28 | 0.1380 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 507.299    | 2045925.37 | 0.2597 | P   | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.538    | 4005719.71 | 0.5066 | P   | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 6201.64    | 0.0008 | P   | 4.9  |

$$y = 5.1197\text{E-}004 * x + 3.1153\text{E-}006$$

$$R = 0.9997$$

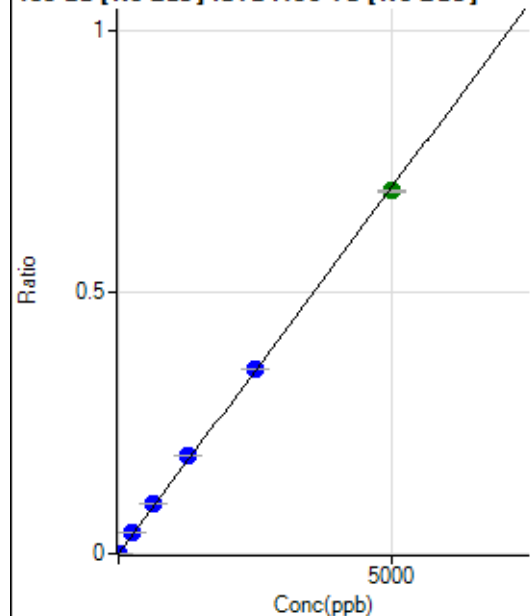
$$DL = 0.01213$$

$$BEC = 0.006085$$

Weight: &lt;None&gt;

Min Conc: 0

135 Ba [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      | 25.00      | 0.0000 | P   | 33.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.042      | 1208.44    | 0.0001 | P   | 6.4  |
| 3 | <input type="checkbox"/> | 10.000   | 10.244     | 11716.59   | 0.0014 | P   | 3.5  |
| 4 | <input type="checkbox"/> | 250.000  | 283.564    | 318365.54  | 0.0397 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 686.833    | 771529.59  | 0.0963 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1342.508   | 1471856.43 | 0.1882 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 2500.000 | 2523.358   | 2786164.27 | 0.3537 | P   | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4955.786   | 5492511.10 | 0.6946 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1480.70    | 0.0002 | P   | 8.2  |

$$y = 1.4017\text{E-}004 * x + 3.1252\text{E-}006$$

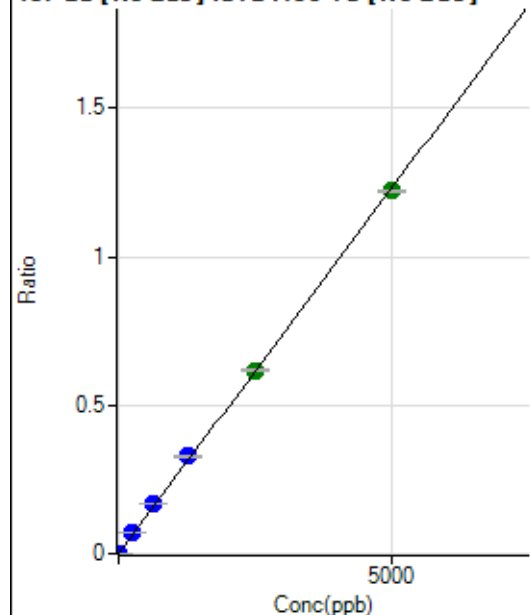
$$R = 0.9998$$

$$DL = 0.02227$$

$$BEC = 0.0223$$

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      | 13.89      | 0.0000 | P        | 92.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.043      | 2091.92    | 0.0003 | P        | 12.1 |
| 3 | <input type="checkbox"/> | 10.000   | 10.087     | 20221.09   | 0.0025 | P        | 2.0  |
| 4 | <input type="checkbox"/> | 250.000  | 281.805    | 555271.11  | 0.0693 | P        | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 680.343    | 1341308.56 | 0.1674 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1332.775   | 2564499.21 | 0.3279 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2507.596   | 4859392.73 | 0.6169 | A        | 0.6  |
| 8 | <input type="checkbox"/> | 5000.000 | 4967.000   | 9661710.11 | 1.2219 | A        | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 2539.23    | 0.0003 | P        | 4.7  |

$$y = 2.4601E-004 * x + 1.7433E-006$$

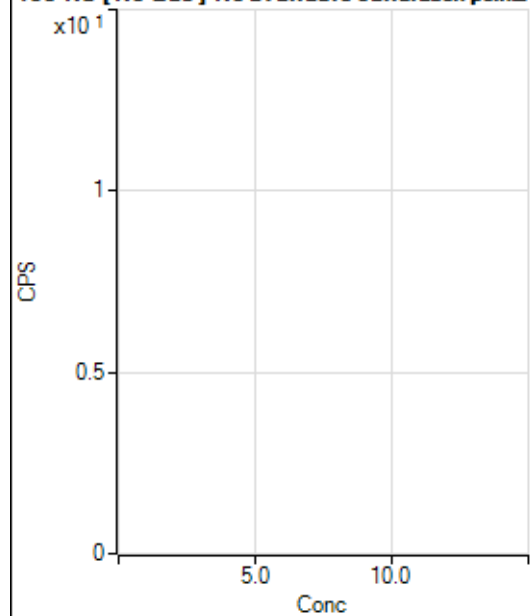
$$R = 0.9998$$

$$DL = 0.01955$$

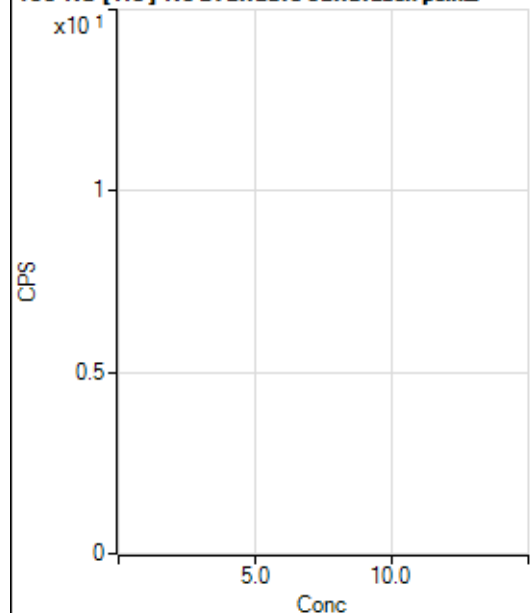
$$BEC = 0.007086$$

Weight: &lt;None&gt;

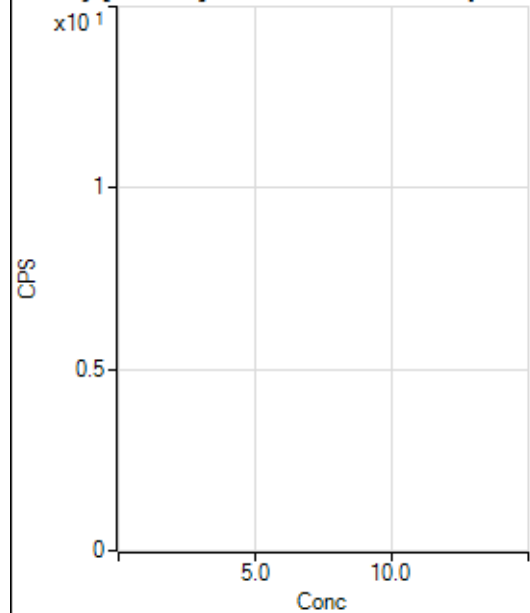
Min Conc: 0

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

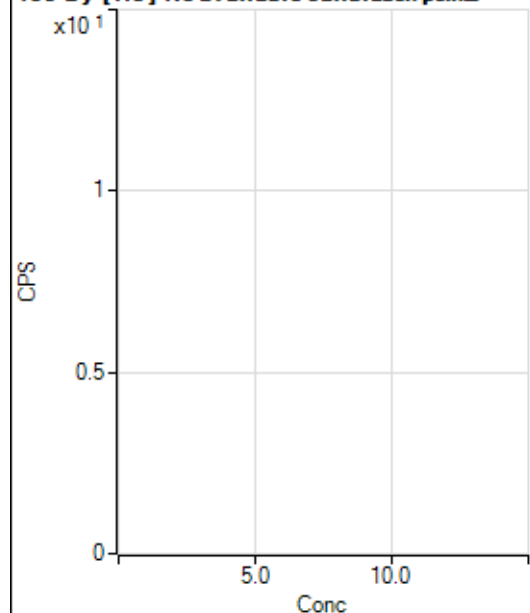
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 173. |
| 4 | <input type="checkbox"/> |       |            | 48.89  |       | P        | 47.9 |
| 5 | <input type="checkbox"/> |       |            | 104.45 |       | P        | 25.8 |
| 6 | <input type="checkbox"/> |       |            | 148.90 |       | P        | 25.5 |
| 7 | <input type="checkbox"/> |       |            | 277.79 |       | P        | 14.1 |
| 8 | <input type="checkbox"/> |       |            | 504.47 |       | P        | 3.3  |
| 9 | <input type="checkbox"/> |       |            | 113.34 |       | P        | 31.1 |

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

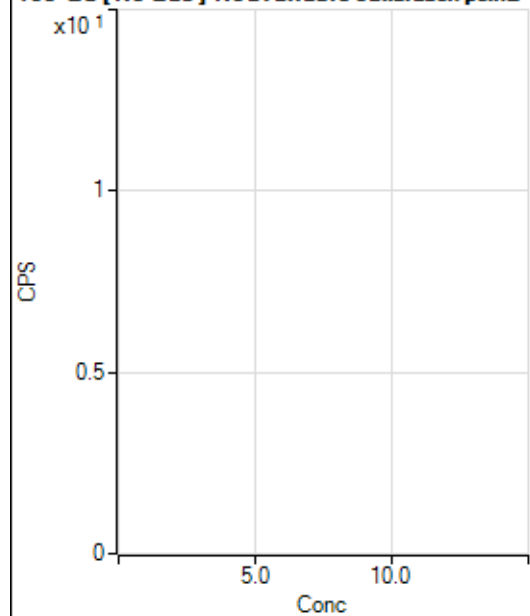
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 4 | <input type="checkbox"/> |       |            | 6.66  |       | P        | 86.6 |
| 5 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 173. |
| 6 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 71.0 |
| 7 | <input type="checkbox"/> |       |            | 21.11 |       | P        | 24.1 |
| 8 | <input type="checkbox"/> |       |            | 47.78 |       | P        | 49.0 |
| 9 | <input type="checkbox"/> |       |            | 51.11 |       | P        | 35.9 |

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

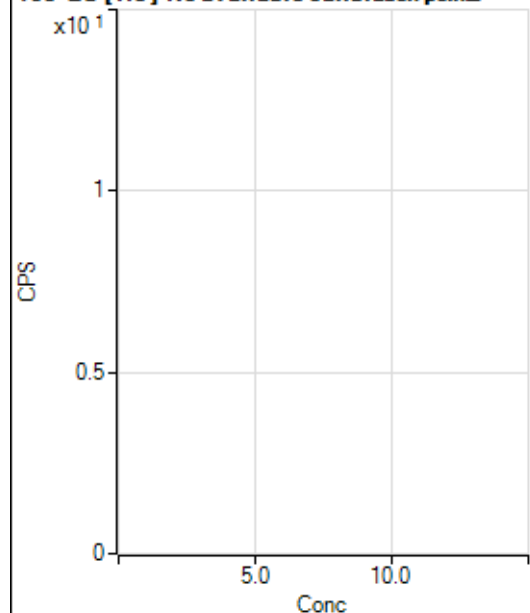
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 2 | <input type="checkbox"/> |       |            | 5.55  |       | P        | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 5.55  |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 21.6 |
| 5 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 44.6 |
| 6 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 17.3 |
| 7 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 53.3 |
| 8 | <input type="checkbox"/> |       |            | 91.67 |       | P        | 9.1  |
| 9 | <input type="checkbox"/> |       |            | 83.34 |       | P        | 10.0 |

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

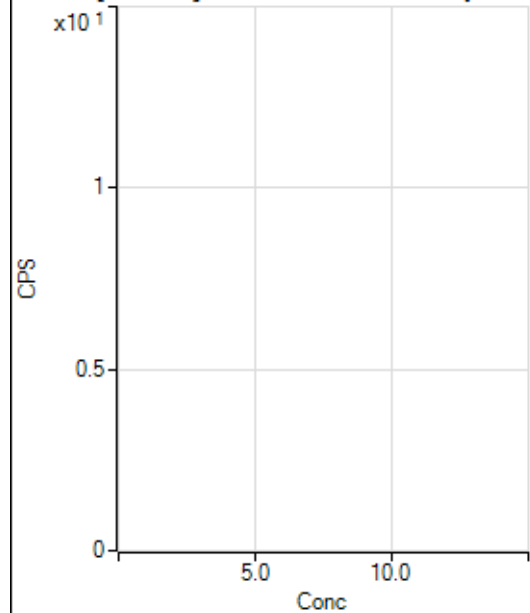
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3.33   |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 100. |
| 5 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 28.6 |
| 6 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 52.0 |
| 7 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 8.2  |
| 8 | <input type="checkbox"/> |       |            | 122.22 |       | P        | 3.2  |
| 9 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 33.1 |

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

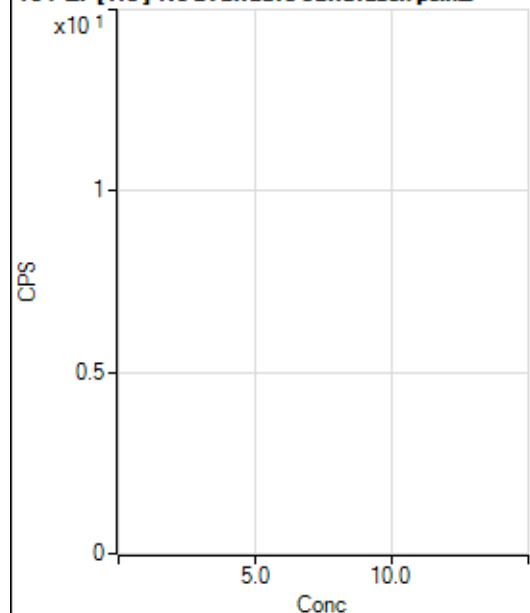
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 35.3 |
| 2 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 31.5 |
| 4 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 50.0 |
| 5 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 78.1 |
| 6 | <input type="checkbox"/> |       |            | 47.23 |       | P        | 40.8 |
| 7 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 78.7 |
| 8 | <input type="checkbox"/> |       |            | 52.78 |       | P        | 65.7 |
| 9 | <input type="checkbox"/> |       |            | 58.34 |       | P        | 37.8 |

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

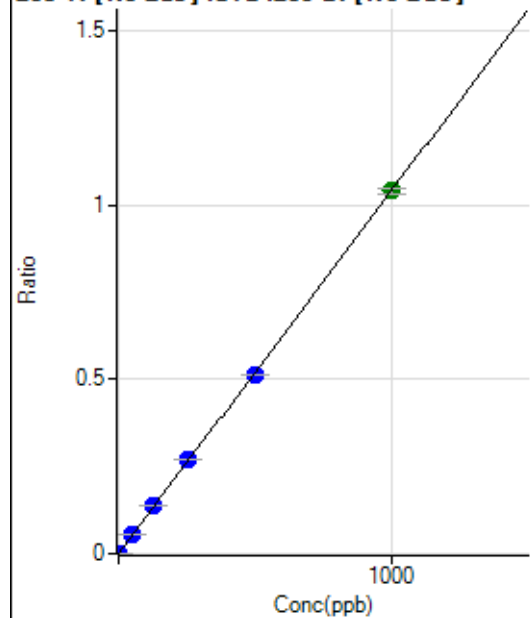
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 8.4  |
| 2 | <input type="checkbox"/> |       |            | 121.11 |       | P        | 10.4 |
| 3 | <input type="checkbox"/> |       |            | 137.78 |       | P        | 12.2 |
| 4 | <input type="checkbox"/> |       |            | 120.00 |       | P        | 19.4 |
| 5 | <input type="checkbox"/> |       |            | 107.78 |       | P        | 14.6 |
| 6 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 8.4  |
| 7 | <input type="checkbox"/> |       |            | 130.00 |       | P        | 18.5 |
| 8 | <input type="checkbox"/> |       |            | 123.34 |       | P        | 23.1 |
| 9 | <input type="checkbox"/> |       |            | 137.78 |       | P        | 13.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 34.7 |
| 2 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 66.7 |
| 3 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 34.7 |
| 4 | <input type="checkbox"/> |       |            | 19.44 |       | P        | 49.5 |
| 5 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 50.0 |
| 6 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 30.55 |       | P        | 15.7 |
| 8 | <input type="checkbox"/> |       |            | 47.22 |       | P        | 50.9 |
| 9 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 17.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 13.4 |
| 2 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 21.6 |
| 3 | <input type="checkbox"/> |       |            | 5.55  |       | P        | 124. |
| 4 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 13.4 |
| 5 | <input type="checkbox"/> |       |            | 16.66 |       | P        | 34.6 |
| 6 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7 |
| 7 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 15.7 |
| 8 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 13.4 |
| 9 | <input type="checkbox"/> |       |            | 25.56 |       | P        | 30.1 |

**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      | 130.56     | 0.0000 | P        | 20.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.087      | 647.27     | 0.0001 | P        | 16.3 |
| 3 | <input type="checkbox"/> | 1.000    | 0.893      | 5431.90    | 0.0010 | P        | 0.4  |
| 4 | <input type="checkbox"/> | 50.000   | 53.246     | 310056.09  | 0.0554 | P        | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 130.280    | 754297.75  | 0.1356 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 260.021    | 1475569.12 | 0.2706 | P        | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 494.131    | 2820759.78 | 0.5143 | P        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.607    | 5635315.23 | 1.0404 | A        | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 1966.89    | 0.0004 | P        | 3.1  |

$$y = 0.0010 * x + 2.3295E-005$$

$$R = 0.9999$$

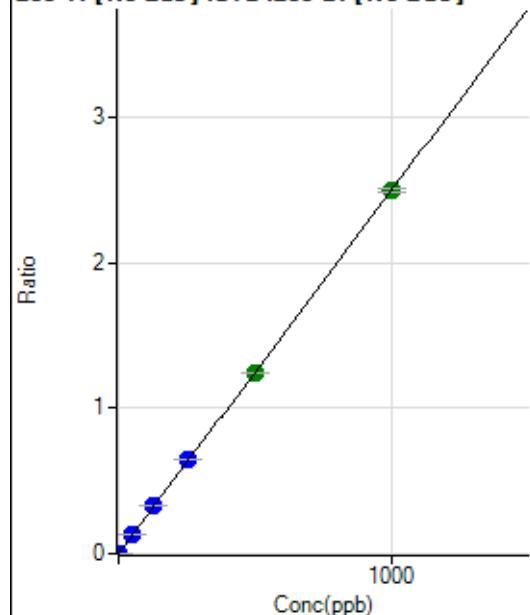
$$DL = 0.01392$$

$$BEC = 0.02238$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 338.91      | 0.0001 | P        | 21.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.092      | 1647.41     | 0.0003 | P        | 9.5  |
| 3 | <input type="checkbox"/> | 1.000    | 0.909      | 13265.50    | 0.0023 | P        | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 53.315     | 744227.69   | 0.1331 | P        | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 130.443    | 1810423.28  | 0.3255 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 259.743    | 3533324.56  | 0.6481 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 496.457    | 6793474.72  | 1.2386 | A        | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.490    | 13493583.29 | 2.4911 | A        | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 4814.98     | 0.0010 | P        | 8.7  |

$$y = 0.0025 * x + 6.0481E-005$$

$$R = 0.9999$$

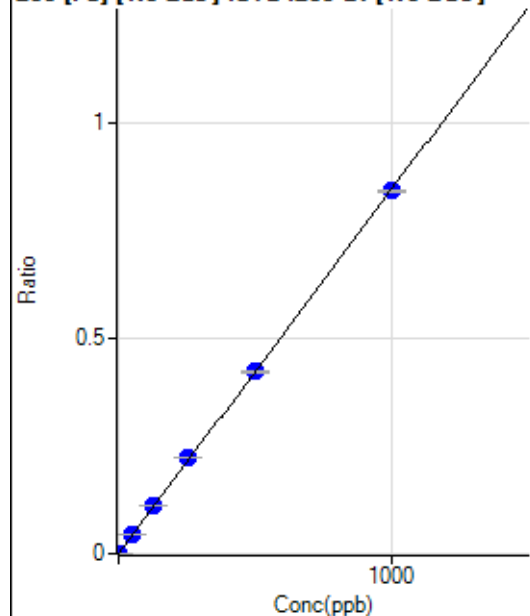
$$DL = 0.0155$$

$$BEC = 0.02424$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 418.54     | 0.0001 | P        | 7.2 |
| 2 | <input type="checkbox"/> | 0.100    | 0.086      | 838.94     | 0.0001 | P        | 5.4 |
| 3 | <input type="checkbox"/> | 1.000    | 0.924      | 4867.70    | 0.0009 | P        | 3.4 |
| 4 | <input type="checkbox"/> | 50.000   | 54.039     | 255460.95  | 0.0457 | P        | 0.9 |
| 5 | <input type="checkbox"/> | 125.000  | 132.373    | 621739.79  | 0.1118 | P        | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 262.410    | 1207697.34 | 0.2215 | P        | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 499.485    | 2312259.72 | 0.4216 | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 996.032    | 4553340.61 | 0.8406 | P        | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 7194.73    | 0.0015 | P        | 2.8 |

$$y = 8.4387E-004 * x + 7.4643E-005$$

$$R = 0.9999$$

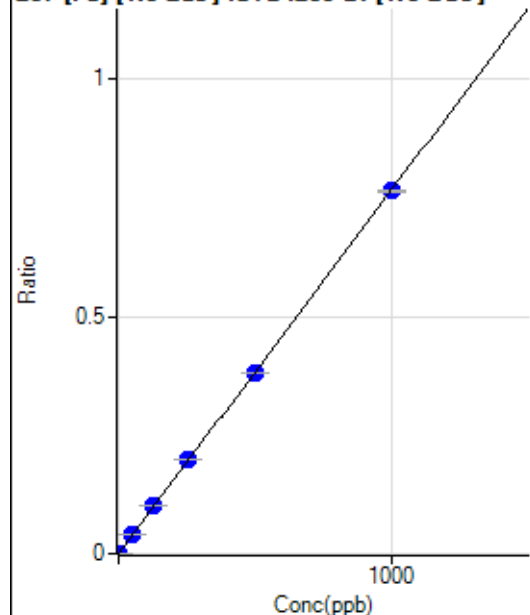
$$DL = 0.01915$$

$$BEC = 0.08845$$

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      | 340.76     | 0.0001 | P        | 7.8 |
| 2 | <input type="checkbox"/> | 0.100    | 0.100      | 785.23     | 0.0001 | P        | 8.8 |
| 3 | <input type="checkbox"/> | 1.000    | 0.922      | 4374.91    | 0.0008 | P        | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 53.750     | 230915.72  | 0.0413 | P        | 0.8 |
| 5 | <input type="checkbox"/> | 125.000  | 131.183    | 560021.61  | 0.1007 | P        | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 260.516    | 1089793.35 | 0.1999 | P        | 0.4 |
| 7 | <input type="checkbox"/> | 500.000  | 497.410    | 2092896.43 | 0.3816 | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.706    | 4145654.43 | 0.7653 | P        | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 6166.40    | 0.0013 | P        | 1.4 |

$$y = 7.6704\text{E-}004 * x + 6.0778\text{E-}005$$

$$R = 0.9999$$

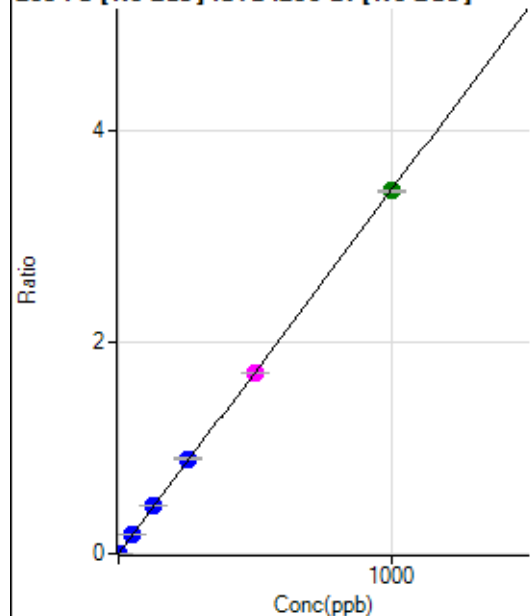
$$DL = 0.0186$$

$$BEC = 0.07924$$

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      | 1633.43     | 0.0003 | P        | 3.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.087      | 3357.68     | 0.0006 | P        | 2.3 |
| 3 | <input type="checkbox"/> | 1.000    | 0.911      | 19476.46    | 0.0034 | P        | 2.8 |
| 4 | <input type="checkbox"/> | 50.000   | 53.975     | 1037764.58  | 0.1856 | P        | 0.2 |
| 5 | <input type="checkbox"/> | 125.000  | 131.826    | 2518371.90  | 0.4528 | P        | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 261.391    | 4893124.63  | 0.8975 | P        | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 496.869    | 9355393.59  | 1.7057 | M        | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.666    | 18550668.41 | 3.4246 | A        | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 28555.39    | 0.0061 | P        | 1.0 |

$$y = 0.0034 * x + 2.9131\text{E-}004$$

$$R = 0.9999$$

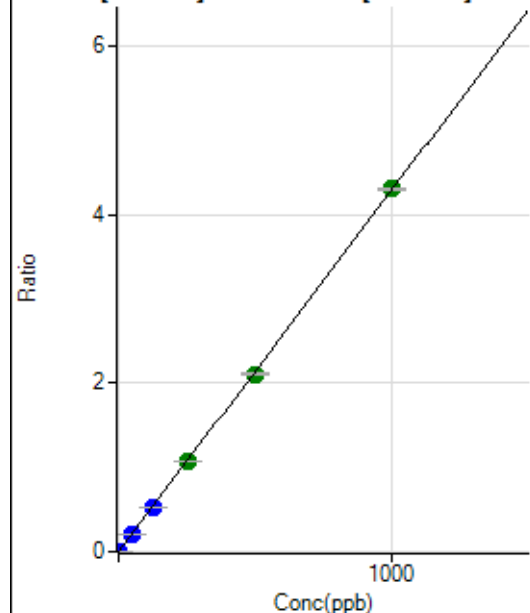
$$DL = 0.008933$$

$$BEC = 0.08487$$

Weight: &lt;None&gt;

Min Conc: 0

232 Th [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      | 42.59       | 0.0000 | P        | 14.8 |
| 2 | <input type="checkbox"/> | 0.100    | 0.076      | 1905.76     | 0.0003 | P        | 4.7  |
| 3 | <input type="checkbox"/> | 1.000    | 0.825      | 20221.63    | 0.0035 | P        | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 50.206     | 1205127.85  | 0.2155 | P        | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 124.569    | 2973704.43  | 0.5346 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 250.056    | 5851106.15  | 1.0732 | A        | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 491.337    | 11565728.96 | 2.1087 | A        | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.361   | 23349370.66 | 4.3105 | A        | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 4991.83     | 0.0011 | P        | 13.7 |

$$y = 0.0043 * x + 7.5948E-006$$

$$R = 0.9999$$

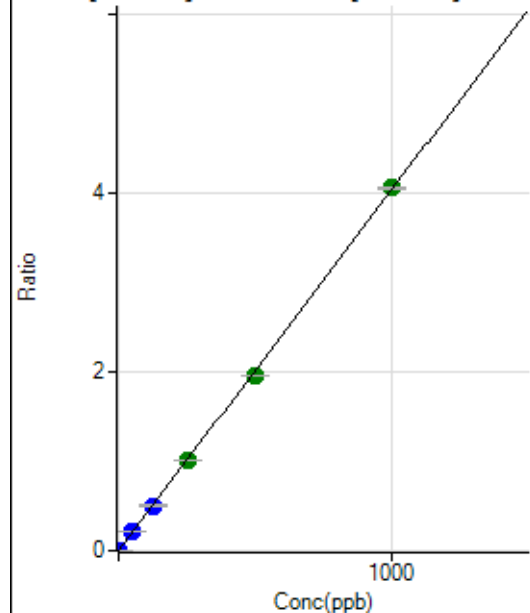
$$DL = 0.0007865$$

$$BEC = 0.00177$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 75.00       | 0.0000 | P        | 38.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.091      | 2161.39     | 0.0004 | P        | 2.4  |
| 3 | <input type="checkbox"/> | 1.000    | 0.911      | 21040.08    | 0.0037 | P        | 0.2  |
| 4 | <input type="checkbox"/> | 50.000   | 51.793     | 1169624.62  | 0.2091 | P        | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 125.202    | 2811803.97  | 0.5055 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 250.348    | 5510916.66  | 1.0108 | A        | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 486.911    | 10782761.87 | 1.9659 | A        | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1006.343   | 22009270.11 | 4.0632 | A        | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 3167.22     | 0.0007 | P        | 6.6  |

$$y = 0.0040 * x + 1.3389E-005$$

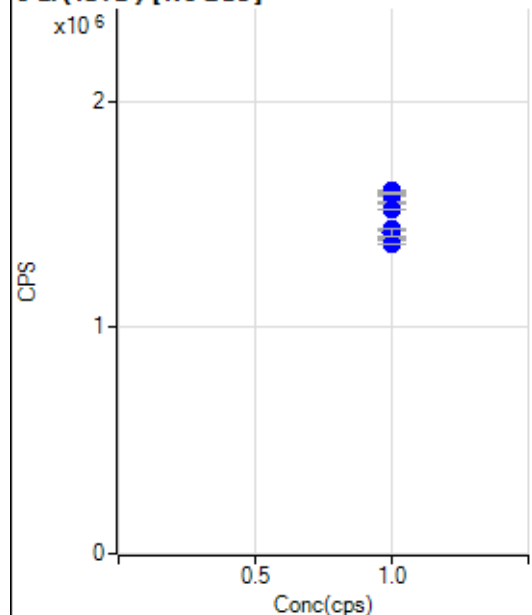
$$R = 0.9999$$

$$DL = 0.003853$$

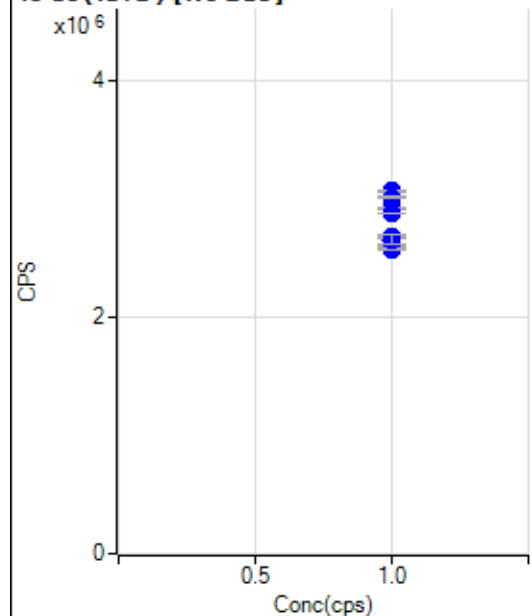
$$BEC = 0.003316$$

Weight: &lt;None&gt;

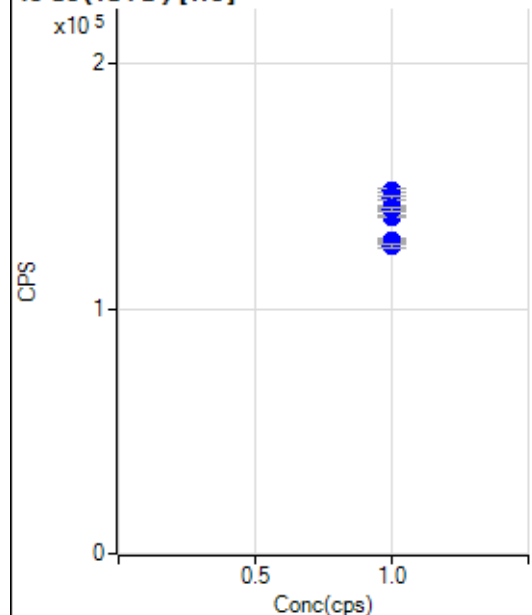
Min Conc: 0

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

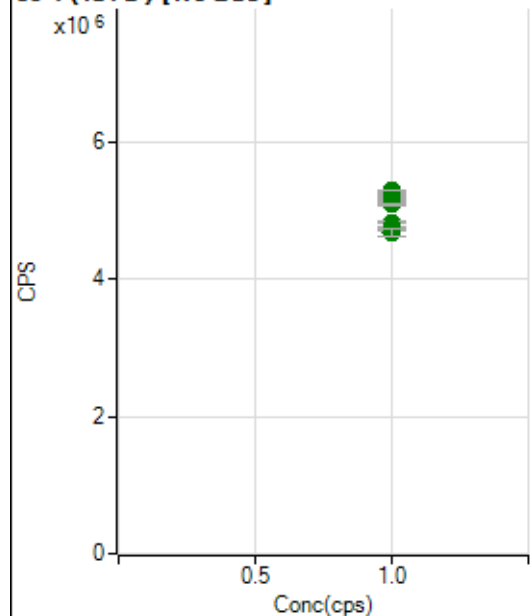
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1603969.74 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1584384.62 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1594731.96 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1551128.42 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1521851.91 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1433968.85 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1389606.93 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1368584.17 |       | P        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1420014.00 |       | P        | 2.5 |

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

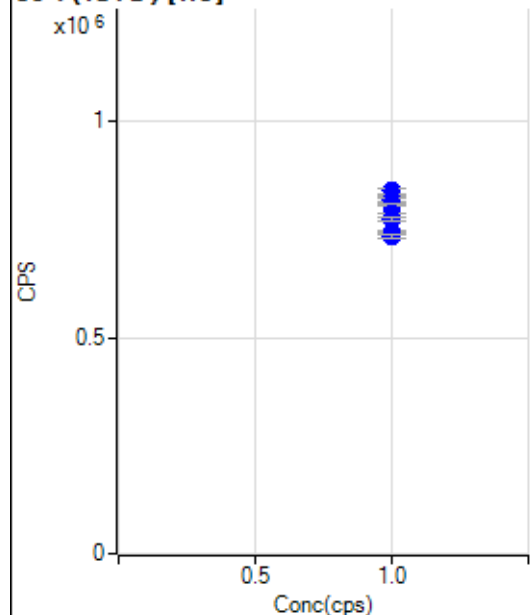
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3062286.81 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3001694.93 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3009193.62 |       | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2915278.50 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2875450.10 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2671861.63 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2592371.28 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2569274.82 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2652942.23 |       | P        | 2.6 |

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

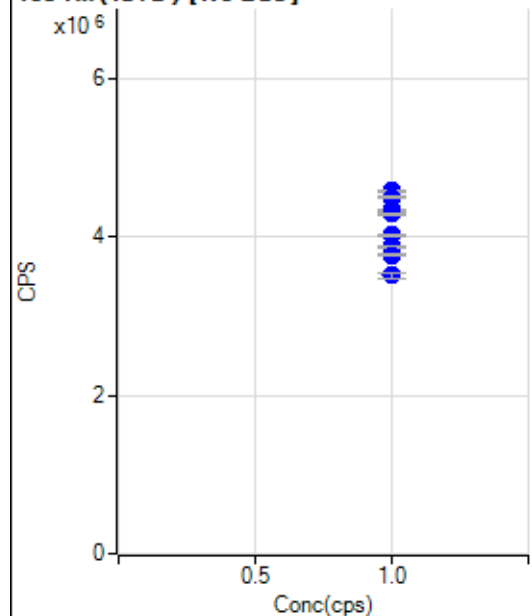
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 148232.52 |       | P        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 146194.56 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 145298.73 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 141419.46 |       | P        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 137755.45 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 128350.55 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 127149.51 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 125797.28 |       | P        | 1.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 140739.64 |       | P        | 1.4 |

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

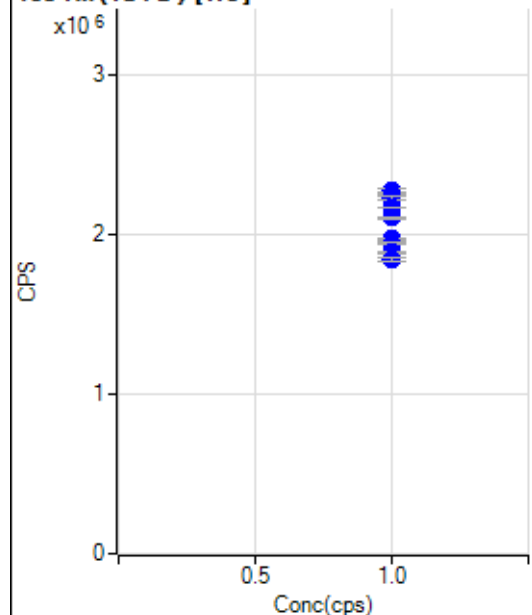
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5182946.76 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5250388.47 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5278359.85 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5140583.67 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5085371.87 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4822758.64 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4751559.13 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4711347.91 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4680468.92 |       | A        | 2.2 |

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

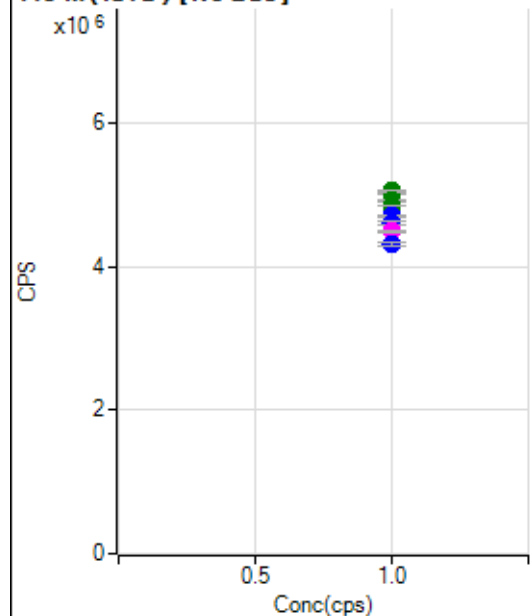
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 839080.52 |       | P        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 829856.73 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 819313.45 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 808144.26 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 786777.47 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 744176.56 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 740752.27 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 734603.24 |       | P        | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 774348.53 |       | P        | 1.4 |

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

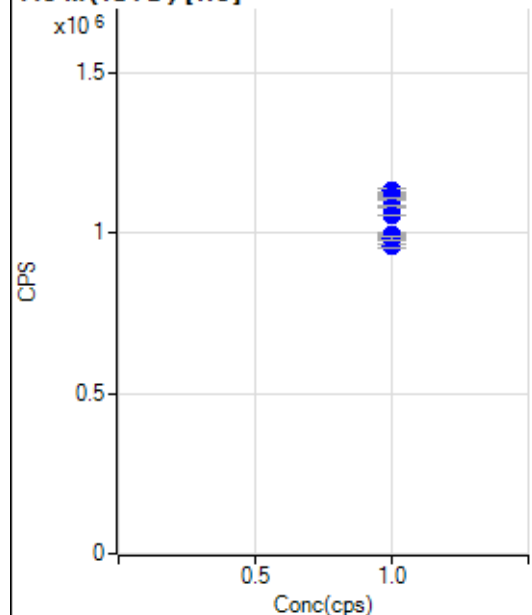
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4580728.01 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4491163.43 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4499145.54 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4339558.73 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4287875.14 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4019947.40 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3876332.64 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3770662.15 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3513515.44 |       | P        | 1.8 |

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

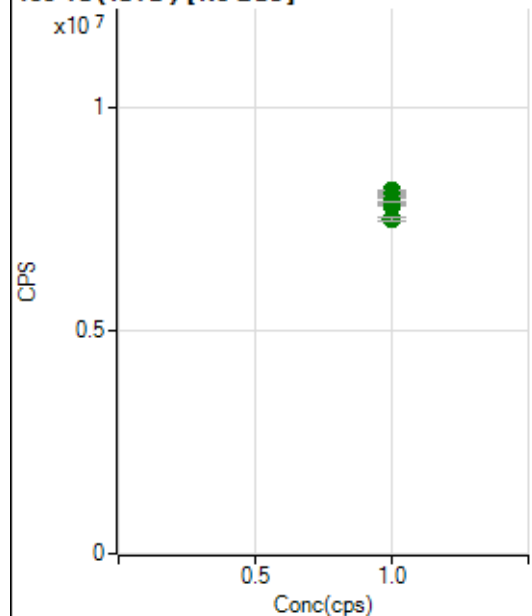
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2271809.38 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2250691.23 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2226035.52 |       | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2167275.21 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2105199.43 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1971482.56 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1941947.31 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1887308.62 |       | P        | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1839743.01 |       | P        | 1.2 |

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

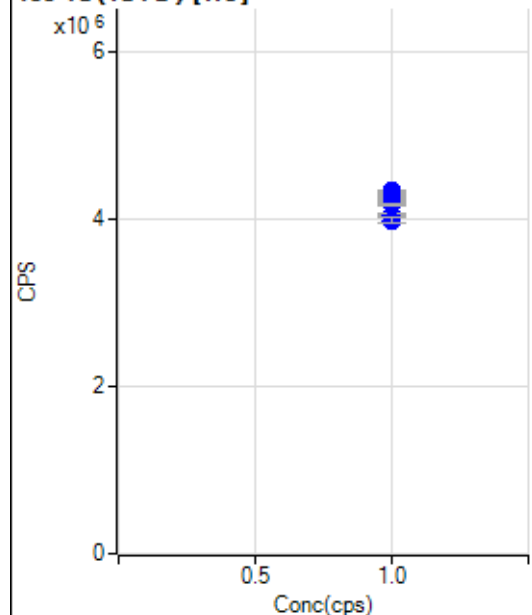
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5023574.90 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5059832.74 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5058762.15 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4928635.57 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4861352.55 |       | A        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4712619.56 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4615033.09 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4494114.02 |       | M        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4317888.86 |       | P        | 1.5 |

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

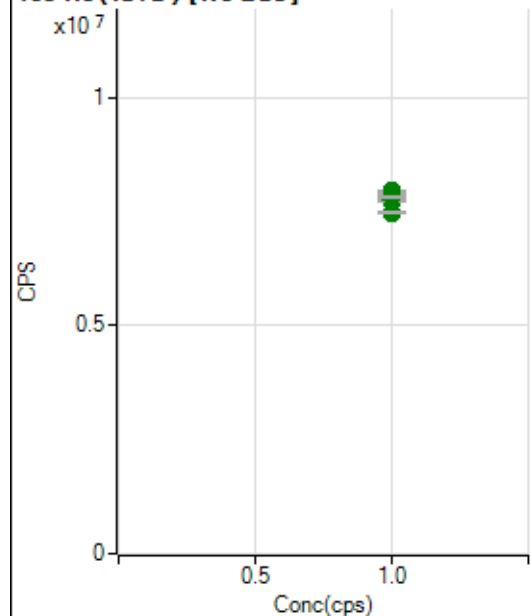
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1132928.00 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1119376.53 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1109186.70 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1083062.30 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1057202.15 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 998619.48  |       | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 990665.55  |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 960502.41  |       | P        | 1.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 985309.69  |       | P        | 0.9 |

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

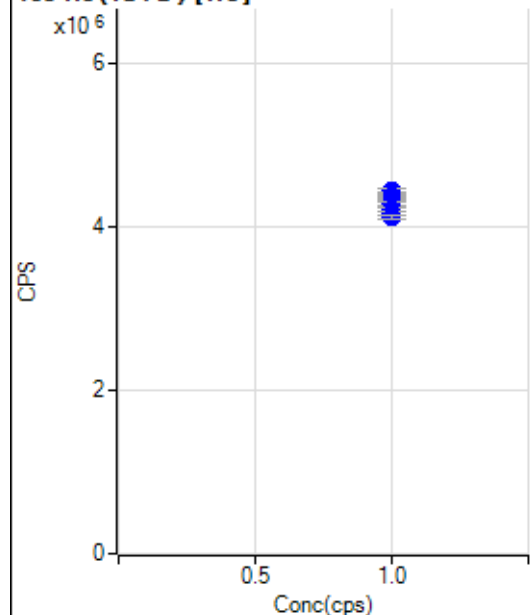
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8002368.14 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8100491.27 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8142252.17 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8009222.66 |       | A        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8013947.24 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7821630.78 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7877393.15 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7906923.84 |       | A        | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7520440.58 |       | A        | 1.1 |

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

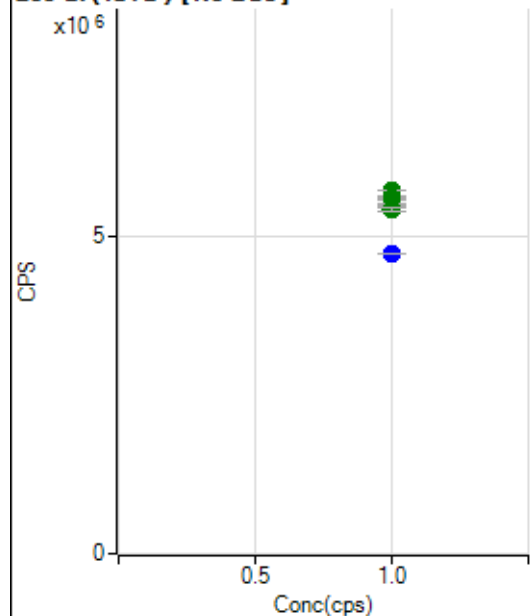
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4336194.48 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4287896.46 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4246117.30 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4197525.81 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4173136.19 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4038729.39 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4055453.97 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4047990.32 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3987284.87 |       | P        | 1.3 |

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

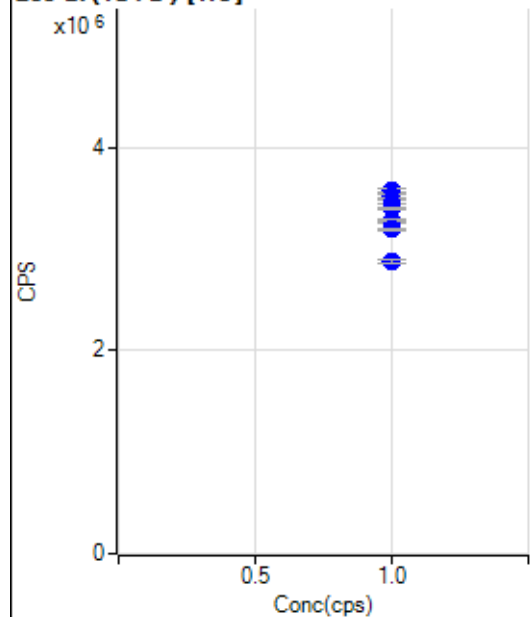
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7850421.18 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7946973.61 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7921637.94 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7855900.35 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7863860.68 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7716382.29 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7755069.44 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7815388.89 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7467569.61 |       | A        | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4437129.45 |       | P        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4380290.63 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4345810.32 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4305909.87 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4279878.24 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4166036.85 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4203365.84 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4164282.47 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4115295.18 |       | P        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5607058.18 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5700819.50 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5698920.33 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5592767.35 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5562144.99 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5452039.92 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5484836.45 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5417094.71 |       | A        | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4713843.54 |       | P        | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3572457.76 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3520865.50 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3490046.48 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3445635.26 |       | P        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3400927.34 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3271906.55 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3278603.94 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3191942.38 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2882431.21 |       | P        | 1.2 |

US EPA Tune Check Sample Report

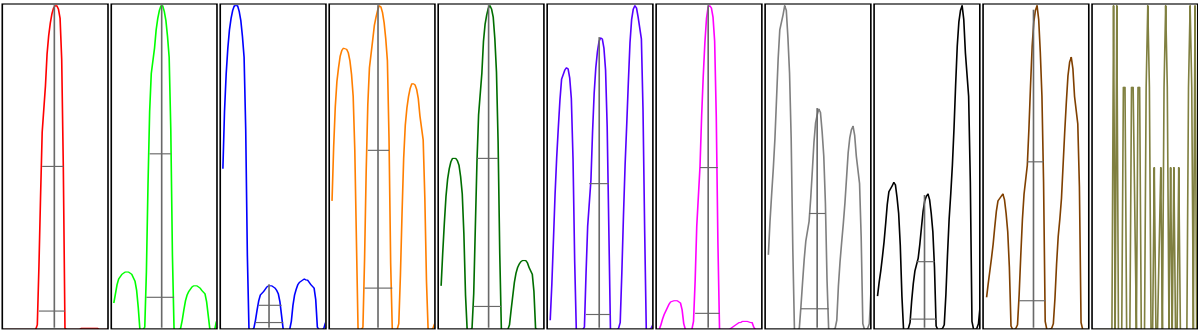
Batch Folder D:\ICP-MS Data\P7061219.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 5148            | 1.71             | 5.00               |                |
| 24   | 129051          | 1.25             | 5.00               |                |
| 25   | 17715           | 1.18             | 5.00               |                |
| 26   | 20188           | 1.23             | 5.00               |                |
| 59   | 37809           | 1.38             | 5.00               |                |
| 113  | 5867            | 1.55             | 5.00               |                |
| 115  | 71069           | 1.31             | 5.00               |                |
| 206  | 22031           | 1.29             | 5.00               |                |
| 207  | 20305           | 0.96             | 5.00               |                |
| 208  | 47818           | 1.49             | 5.00               |                |
| 220  | 0               | 79.06            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 5255                 | 5093                 | 5036                 | 5145                 | 5212                 |
| 24   | 130924               | 127764               | 127287               | 128792               | 130486               |
| 25   | 17976                | 17646                | 17430                | 17669                | 17852                |
| 26   | 20449                | 20016                | 19872                | 20194                | 20408                |
| 59   | 38378                | 37323                | 37229                | 37881                | 38235                |
| 113  | 5968                 | 5806                 | 5751                 | 5866                 | 5942                 |
| 115  | 72022                | 70095                | 70228                | 70991                | 72008                |
| 206  | 22344                | 21730                | 21728                | 22170                | 22184                |
| 207  | 20502                | 20159                | 20047                | 20371                | 20445                |
| 208  | 48532                | 47137                | 47063                | 47848                | 48510                |
| 220  | 0                    | 0                    | 0                    | 0                    | 0                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 8515           | 9.00             | 8.9 - 9.1          |                | 0.783                | 0.900                  |                        |
| 24   | 209072         | 23.95            | 23.9 - 24.1        |                | 0.802                | 0.900                  |                        |
| 25   | 28080          | 24.90            | 24.9 - 25.1        |                | 0.791                | 0.900                  |                        |
| 26   | 32348          | 25.90            | 25.9 - 26.1        |                | 0.791                | 0.900                  |                        |
| 59   | 64813          | 58.95            | 58.9 - 59.1        |                | 0.803                | 0.900                  |                        |
| 113  | 11282          | 113.00           | 112.9 - 113.1      |                | 0.731                | 0.900                  |                        |
| 115  | 140422         | 115.00           | 114.9 - 115.1      |                | 0.730                | 0.900                  |                        |
| 206  | 43710          | 206.00           | 205.9 - 206.1      |                | 0.784                | 0.900                  |                        |
| 207  | 39578          | 206.95           | 206.9 - 207.1      |                | 0.738                | 0.900                  |                        |
| 208  | 94716          | 207.95           | 207.9 - 208.1      |                | 0.752                | 0.900                  |                        |
| 220  | 0              | 219.70           | -                  |                | 0.300                |                        |                        |

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

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 8.2   | V    | Deflect       | 14.8  | V    |
| Extract 2     | -100.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -55    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 160   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 10220           | 2.89             |                    |
| 89   | 21166           | 3.22             |                    |
| 205  | 20099           | 2.70             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 10037                | 10743                | 10086                | 10077                | 10155                |
| 89   | 20650                | 22364                | 20878                | 20933                | 21006                |
| 205  | 19718                | 21041                | 19973                | 19753                | 20012                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|-------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0   | V    | Omega Lens    | 8.2   | V    | Deflect       | 2.0   | V    |
| Extract 2     | -95.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -55   | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 4.1   | mL/min | OctP RF       | 190   | V    |                       |       |       |