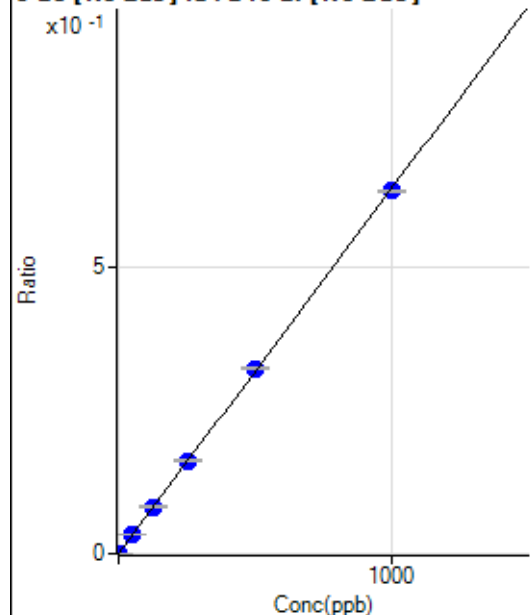


Batch Folder: D:\ICP-MS Data\P7102919 MS .b\  
Analysis File: P7102919 MS .batch.bin  
DA Date-Time: 2019-10-30 18:08:24  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2019-10-29 13:44:16 |
| 2     | 004CALS.d          | S01         | 2019-10-29 13:47:49 |
| 3     | 005CALS.d          | S02         | 2019-10-29 13:52:31 |
| 4     | 006CALS.d          | S03         | 2019-10-29 13:56:26 |
| 5     | 007CALS.d          | S04         | 2019-10-29 14:00:39 |
| 6     | 008CALS.d          | S05         | 2019-10-29 14:04:26 |
| 7     | 009CALS.d          | S06         | 2019-10-29 14:08:12 |
| 8     | 010CALS.d          | S07         | 2019-10-29 14:14:05 |
| 9     | 011CALS.d          | S08         | 2019-10-29 14:19:08 |

**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      | 209.27     | 0.0000 | P    | 5.5  |
| 2 | <input type="checkbox"/> | 0.100    | 0.105      | 566.69     | 0.0001 | P    | 7.7  |
| 3 | <input type="checkbox"/> | 1.000    | 1.001      | 3670.92    | 0.0007 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 50.000   | 52.432     | 181752.40  | 0.0334 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 128.843    | 448893.97  | 0.0821 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 250.000  | 254.931    | 862058.65  | 0.1625 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 508.160    | 1713884.41 | 0.3238 | P    | 1.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.085    | 3264102.68 | 0.6334 | P    | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 596.32     | 0.0001 | P    | 16.5 |

$$y = 6.3715E-004 * x + 3.8613E-005$$

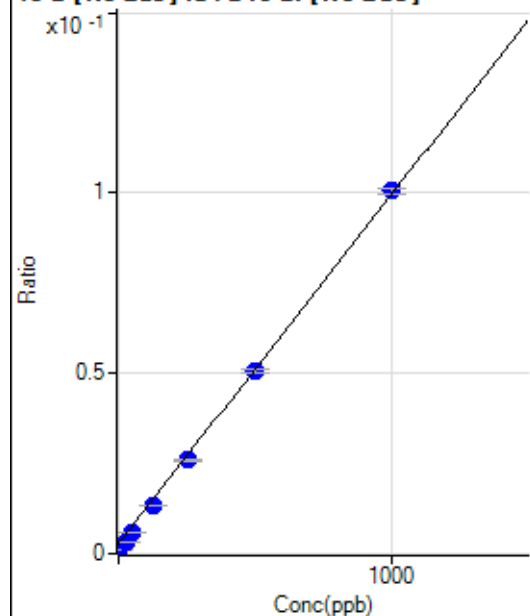
$$R = 0.9999$$

$$DL = 0.01006$$

$$BEC = 0.0606$$

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      | 15378.25  | 0.0028 | P    | 125. |
| 2 | <input type="checkbox"/> | 2.500    | -17.331    | 6273.76   | 0.0012 | P    | 2.8  |
| 3 | <input type="checkbox"/> | 25.000   | 6.048      | 18592.69  | 0.0034 | P    | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 29.518     | 30954.89  | 0.0057 | P    | 1.9  |
| 5 | <input type="checkbox"/> | 125.000  | 107.870    | 72560.94  | 0.0133 | P    | 1.3  |
| 6 | <input type="checkbox"/> | 250.000  | 238.476    | 137474.42 | 0.0259 | P    | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 492.440    | 267154.33 | 0.0505 | P    | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 1010.350   | 518302.82 | 0.1006 | P    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 17371.72  | 0.0034 | P    | 3.4  |

$$y = 9.6733E-005 * x + 0.0028$$

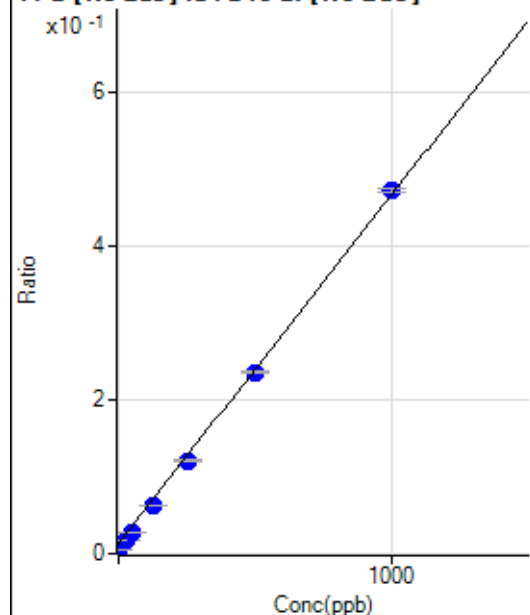
$$R = 0.9998$$

$$DL = 110.4$$

$$BEC = 29.37$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72929.22   | 0.0135 | P        | 124. |
| 2 | <input type="checkbox"/> | 2.500    | -17.870    | 28973.09   | 0.0054 | P        | 4.3  |
| 3 | <input type="checkbox"/> | 25.000   | 6.289      | 88576.20   | 0.0163 | P        | 0.4  |
| 4 | <input type="checkbox"/> | 50.000   | 29.428     | 145663.48  | 0.0268 | P        | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 105.956    | 335980.54  | 0.0615 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 236.359    | 639593.00  | 0.1205 | P        | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 491.712    | 1250216.65 | 0.2362 | P        | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 1011.482   | 2430600.12 | 0.4717 | P        | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 80805.17   | 0.0159 | P        | 3.4  |

$$y = 4.5299\text{E-}004 * x + 0.0135$$

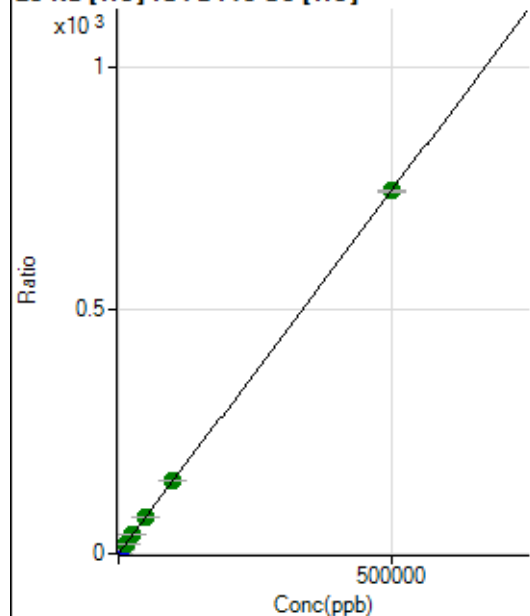
$$R = 0.9998$$

$$DL = 110.9$$

$$BEC = 29.74$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                            | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|-------------------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/>            | 0.000     | 0.000      | 20431.21    | 0.0540   | P        | 2.3 |
| 2 | <input checked="" type="checkbox"/> | 50.000    |            |             |          |          |     |
| 3 | <input type="checkbox"/>            | 500.000   | 506.519    | 308437.21   | 0.8088   | P        | 0.6 |
| 4 | <input type="checkbox"/>            | 5000.000  | 5071.619   | 2887244.88  | 7.6118   | P        | 1.8 |
| 5 | <input type="checkbox"/>            | 12500.000 | 12764.159  | 7199952.68  | 19.0754  | A        | 0.8 |
| 6 | <input type="checkbox"/>            | 25000.000 | 25393.925  | 14195071.32 | 37.8965  | A        | 0.6 |
| 7 | <input type="checkbox"/>            | 50000.000 | 50407.833  | 28156043.68 | 75.1728  | A        | 0.7 |
| 8 | <input type="checkbox"/>            | 100000.00 | 100221.40  | 55732146.38 | 149.4059 | A        | 0.2 |
| 9 | <input type="checkbox"/>            | 500000.00 | 499887.91  | 301561509.5 | 744.9971 | A        | 0.6 |

$$y = 0.0015 * x + 0.0540$$

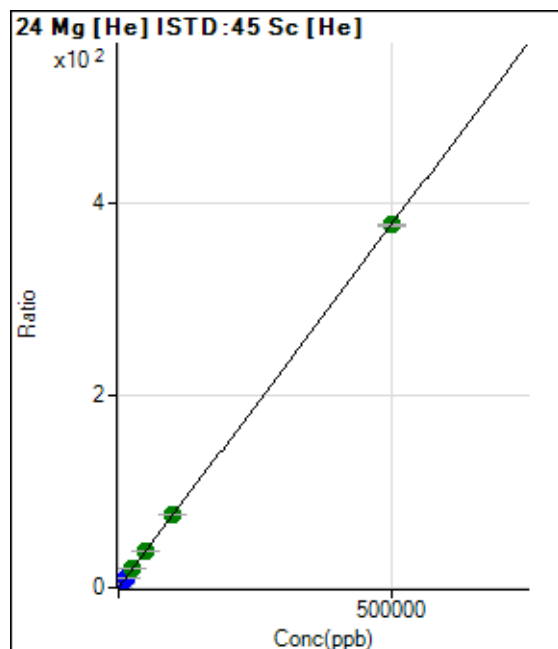
$$R = 1.0000$$

$$DL = 2.536$$

$$BEC = 36.22$$

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      | 4231.33     | 0.0112   | P    | 0.8 |
| 2 | <input type="checkbox"/> | 50.000    | 36.551     | 14849.60    | 0.0388   | P    | 0.9 |
| 3 | <input type="checkbox"/> | 500.000   | 544.328    | 161242.13   | 0.4228   | P    | 0.3 |
| 4 | <input type="checkbox"/> | 5000.000  | 5161.193   | 1484681.11  | 3.9142   | P    | 2.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 13040.046  | 3726325.74  | 9.8725   | P    | 1.1 |
| 6 | <input type="checkbox"/> | 25000.000 | 25864.833  | 7330780.37  | 19.5710  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 51105.743  | 14479487.48 | 38.6590  | A    | 0.7 |
| 8 | <input type="checkbox"/> | 100000.00 | 101537.32  | 28647280.15 | 76.7969  | A    | 0.1 |
| 9 | <input type="checkbox"/> | 500000.00 | 499523.56  | 152916985.3 | 377.7668 | A    | 0.2 |

$$y = 7.5623\text{E-}004 * x + 0.0112$$

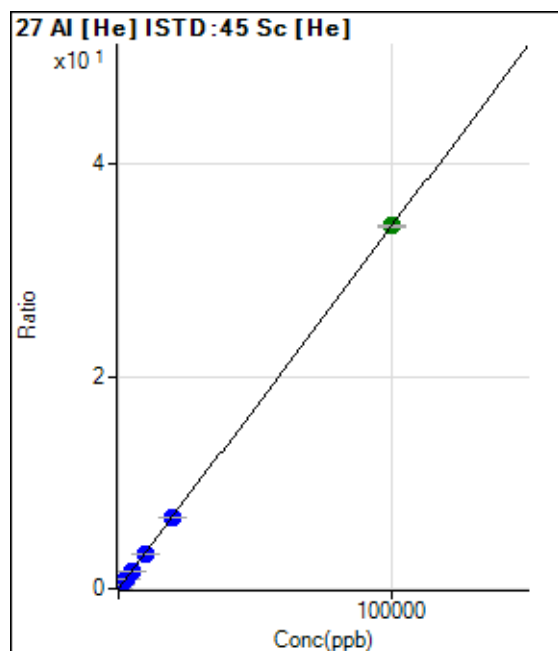
$$R = 1.0000$$

$$DL = 0.3471$$

$$BEC = 14.78$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>                     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|-------------------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/>            | 0.000     | 0.000      | 436.13      | 0.0012  | P    | 9.7  |
| 2 | <input checked="" type="checkbox"/> | 2.000     |            |             |         |      |      |
| 3 | <input type="checkbox"/>            | 20.000    | 17.965     | 2780.94     | 0.0073  | P    | 10.2 |
| 4 | <input type="checkbox"/>            | 1000.000  | 976.688    | 127039.20   | 0.3349  | P    | 2.6  |
| 5 | <input type="checkbox"/>            | 2500.000  | 2471.049   | 319179.95   | 0.8456  | P    | 1.3  |
| 6 | <input type="checkbox"/>            | 5000.000  | 4906.100   | 628467.25   | 1.6778  | P    | 0.0  |
| 7 | <input type="checkbox"/>            | 10000.000 | 9791.286   | 1253750.89  | 3.3473  | P    | 0.3  |
| 8 | <input type="checkbox"/>            | 20000.000 | 19435.402  | 2478063.57  | 6.6432  | P    | 0.3  |
| 9 | <input type="checkbox"/>            | 100000.00 | 100139.44  | 13853596.66 | 34.2237 | A    | 0.4  |

$$y = 3.4175\text{E-}004 * x + 0.0012$$

$$R = 1.0000$$

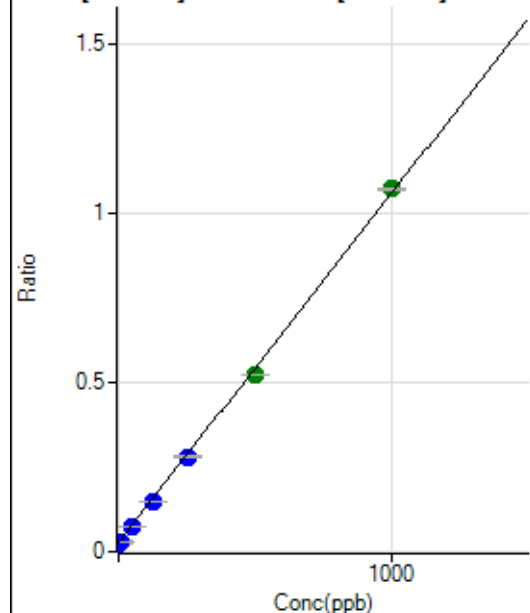
$$DL = 0.9782$$

$$BEC = 3.371$$

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      | 264875.92   | 0.0275 | P    | 40.4 |
| 2 | <input type="checkbox"/> | 1.000    | -5.549     | 212149.47   | 0.0218 | P    | 0.2  |
| 3 | <input type="checkbox"/> | 10.000   | 2.140      | 290766.80   | 0.0297 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 50.000   | 43.845     | 715267.21   | 0.0727 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 117.333    | 1458248.21  | 0.1483 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 245.322    | 2689605.44  | 0.2801 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 479.800    | 5046326.24  | 0.5215 | A    | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 1012.621   | 10144637.64 | 1.0700 | A    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 1978640.26  | 0.2091 | P    | 3.5  |

$$y = 0.0010 * x + 0.0275$$

$$R = 0.9997$$

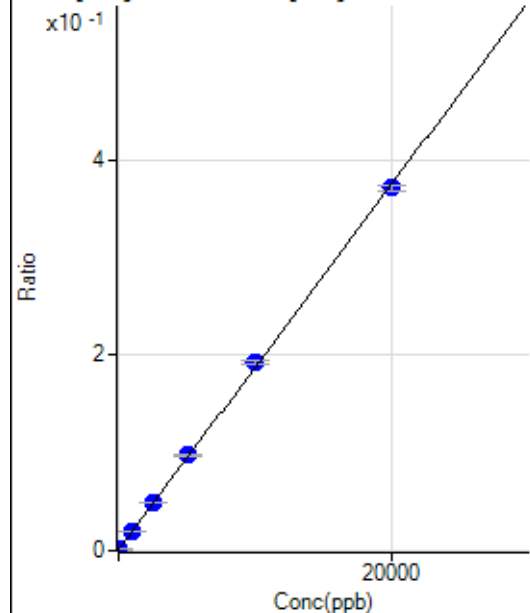
$$DL = 32.41$$

$$BEC = 26.73$$

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     | -27.455    | 77.78     | 0.0002 | P    | 11.9 |
| 2 | <input type="checkbox"/> | 0.000     | -16.701    | 155.56    | 0.0004 | P    | 25.0 |
| 3 | <input type="checkbox"/> | 0.000     | 44.155     | 588.92    | 0.0015 | P    | 10.6 |
| 4 | <input type="checkbox"/> | 1000.000  | 1028.167   | 7563.33   | 0.0199 | P    | 3.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2601.880   | 18631.76  | 0.0494 | P    | 1.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 5171.169   | 36481.80  | 0.0974 | P    | 3.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 10268.124  | 72172.64  | 0.1927 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 20000.000 | 19809.003  | 138426.67 | 0.3711 | P    | 1.9  |
| 9 | <input type="checkbox"/> |           |            | 180.57    | 0.0004 | P    | 9.1  |

$$y = 1.8695E-005 * x + 7.1869E-004$$

$$R = 0.9998$$

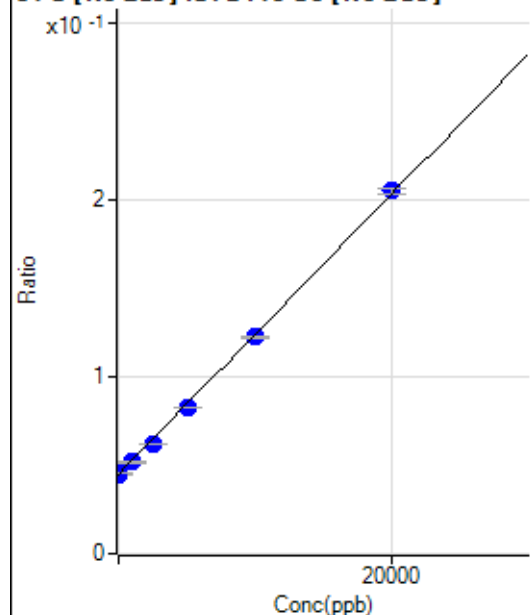
$$DL = 15.52$$

$$BEC = 38.44$$

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     | -23.696    | 433217.38  | 0.0449 | P    | 2.3 |
| 2 | <input type="checkbox"/> | 0.000     | -27.491    | 436429.05  | 0.0449 | P    | 0.5 |
| 3 | <input type="checkbox"/> | 0.000     | 51.187     | 444929.56  | 0.0455 | P    | 0.5 |
| 4 | <input type="checkbox"/> | 1000.000  | 857.535    | 510590.07  | 0.0519 | P    | 1.1 |
| 5 | <input type="checkbox"/> | 2500.000  | 2186.523   | 613547.87  | 0.0624 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 4735.679   | 793281.51  | 0.0826 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 10000.000 | 9799.221   | 1187786.03 | 0.1227 | P    | 0.7 |
| 8 | <input type="checkbox"/> | 20000.000 | 20212.778  | 1946185.96 | 0.2053 | P    | 1.3 |
| 9 | <input type="checkbox"/> |           |            | 390413.32  | 0.0413 | P    | 1.5 |

$$y = 7.9264\text{E-}006 * x + 0.0451$$

$$R = 0.9997$$

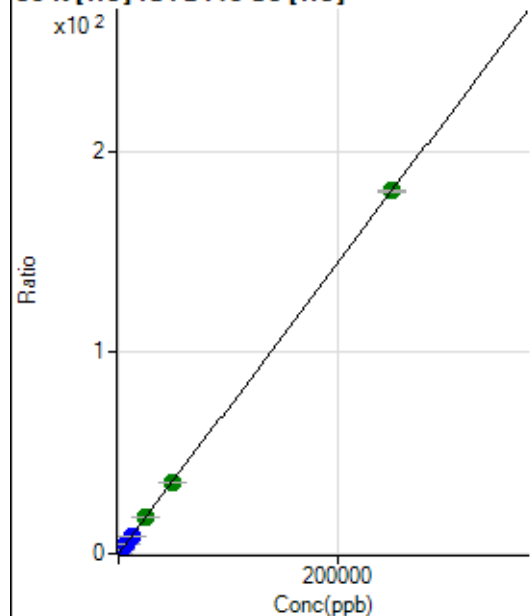
$$DL = 188.5$$

$$BEC = 5686$$

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      | 21749.96    | 0.0575   | P    | 1.1 |
| 2 | <input type="checkbox"/> | 50.000    | 40.437     | 33118.44    | 0.0866   | P    | 2.7 |
| 3 | <input type="checkbox"/> | 500.000   | 502.997    | 160017.83   | 0.4196   | P    | 0.8 |
| 4 | <input type="checkbox"/> | 2500.000  | 2471.177   | 696691.89   | 1.8366   | P    | 1.8 |
| 5 | <input type="checkbox"/> | 6250.000  | 6224.670   | 1713255.36  | 4.5390   | P    | 0.6 |
| 6 | <input type="checkbox"/> | 12500.000 | 12456.456  | 3380824.86  | 9.0257   | P    | 0.3 |
| 7 | <input type="checkbox"/> | 25000.000 | 24587.603  | 6652065.51  | 17.7597  | A    | 0.3 |
| 8 | <input type="checkbox"/> | 50000.000 | 48879.066  | 13148957.07 | 35.2488  | A    | 0.3 |
| 9 | <input type="checkbox"/> | 250000.00 | 250268.52  | 72963756.49 | 180.2428 | A    | 0.6 |

$$y = 7.1997\text{E-}004 * x + 0.0575$$

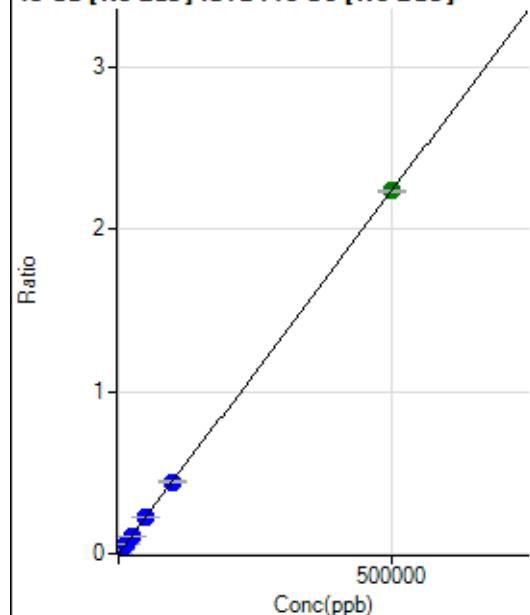
$$R = 1.0000$$

$$DL = 2.66$$

$$BEC = 79.82$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 4991.38     | 0.0005 | P    | 145. |
| 2 | <input type="checkbox"/> | 50.000    | -56.956    | 2605.90     | 0.0003 | P    | 6.4  |
| 3 | <input type="checkbox"/> | 500.000   | 399.328    | 22573.50    | 0.0023 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 5000.000  | 4926.587   | 221917.09   | 0.0225 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12342.036  | 547521.48   | 0.0557 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 25000.000 | 24968.796  | 1076716.20  | 0.1121 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 50000.000 | 49587.531  | 2149805.34  | 0.2222 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 100000.00 | 98962.519  | 4198408.56  | 0.4428 | P    | 0.8  |
| 9 | <input type="checkbox"/> | 500000.00 | 500255.09  | 21162945.26 | 2.2364 | A    | 0.3  |

$$y = 4.4695\text{E-}006 * x + 5.2230\text{E-}004$$

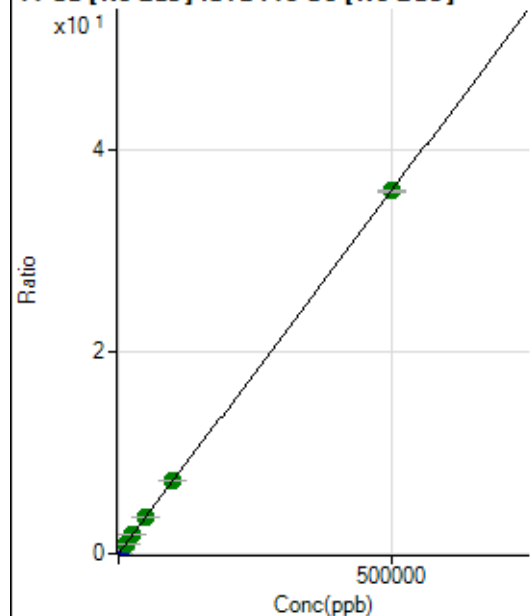
$$R = 1.0000$$

$$DL = 510$$

$$BEC = 116.9$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct                | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|-------------------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/>            | 0.000     | 0.000      | 89553.78    | 0.0094  | P    | 130. |
| 2 | <input checked="" type="checkbox"/> | 50.000    |            |             |         |      |      |
| 3 | <input type="checkbox"/>            | 500.000   | 400.197    | 373057.36   | 0.0381  | P    | 0.3  |
| 4 | <input type="checkbox"/>            | 5000.000  | 4971.633   | 3610460.15  | 0.3667  | P    | 0.4  |
| 5 | <input type="checkbox"/>            | 12500.000 | 12477.575  | 8911087.01  | 0.9063  | A    | 0.2  |
| 6 | <input type="checkbox"/>            | 25000.000 | 25114.630  | 17426722.26 | 1.8147  | A    | 0.5  |
| 7 | <input type="checkbox"/>            | 50000.000 | 50246.640  | 35043133.07 | 3.6212  | A    | 0.6  |
| 8 | <input type="checkbox"/>            | 100000.00 | 99925.198  | 68190040.42 | 7.1922  | A    | 0.4  |
| 9 | <input type="checkbox"/>            | 500000.00 | 499985.50  | 340185296.4 | 35.9493 | A    | 0.7  |

$$y = 7.1882\text{E-}005 * x + 0.0094$$

$$R = 1.0000$$

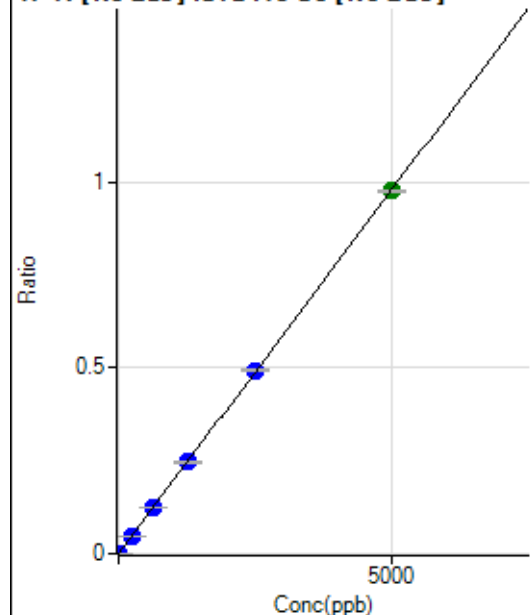
$$DL = 511.3$$

$$BEC = 130.2$$

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      | 255.57     | 0.0000 | P    | 47.2 |
| 2 | <input type="checkbox"/> | 0.500    | 0.445      | 1105.65    | 0.0001 | P    | 15.8 |
| 3 | <input type="checkbox"/> | 5.000    | 5.179      | 10176.13   | 0.0010 | P    | 3.0  |
| 4 | <input type="checkbox"/> | 250.000  | 250.219    | 482312.83  | 0.0490 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 627.155    | 1207004.83 | 0.1228 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 1250.000 | 1256.936   | 2362365.11 | 0.2460 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2517.472   | 4767890.17 | 0.4927 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 5000.000 | 4989.249   | 9256899.17 | 0.9764 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 3253.26    | 0.0003 | P    | 9.0  |

$$y = 1.9569\text{E-}004 * x + 2.6534\text{E-}005$$

$$R = 1.0000$$

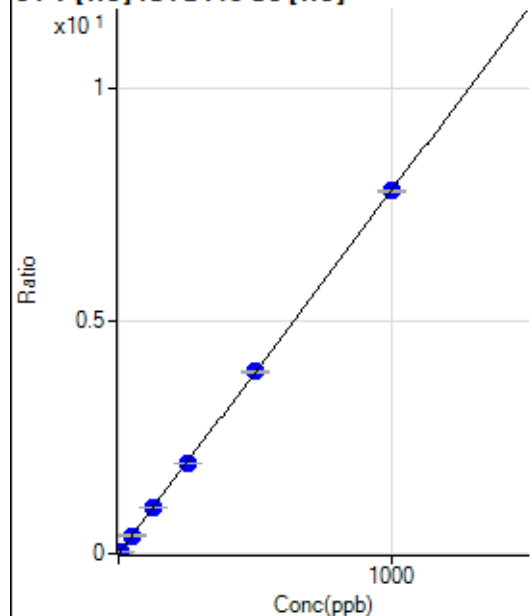
$$DL = 0.1921$$

$$BEC = 0.1356$$

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      | 56.67      | 0.0001 | P    | 15.2 |
| 2 | <input type="checkbox"/> | 0.500    | 0.494      | 1528.99    | 0.0040 | P    | 6.9  |
| 3 | <input type="checkbox"/> | 5.000    | 5.404      | 16116.77   | 0.0423 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 50.000   | 49.911     | 147579.41  | 0.3891 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 125.000  | 125.886    | 370314.99  | 0.9811 | P    | 1.3  |
| 6 | <input type="checkbox"/> | 250.000  | 250.654    | 731679.83  | 1.9534 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 501.052    | 1462451.94 | 3.9046 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.202    | 2904428.22 | 7.7863 | P    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 1367.87    | 0.0034 | P    | 6.2  |

$$y = 0.0078 * x + 1.4966\text{E-}004$$

$$R = 1.0000$$

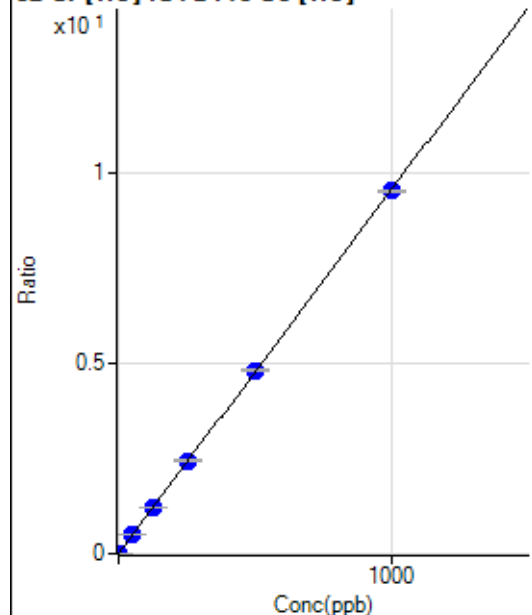
$$DL = 0.008769$$

$$BEC = 0.01921$$

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      | 647.80     | 0.0017 | P    | 4.0 |
| 2 | <input type="checkbox"/> | 0.200    | 0.189      | 1345.64    | 0.0035 | P    | 3.6 |
| 3 | <input type="checkbox"/> | 2.000    | 2.103      | 8319.13    | 0.0218 | P    | 3.0 |
| 4 | <input type="checkbox"/> | 50.000   | 50.975     | 185494.35  | 0.4890 | P    | 2.7 |
| 5 | <input type="checkbox"/> | 125.000  | 128.338    | 463733.27  | 1.2286 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 255.127    | 914228.72  | 2.4407 | P    | 0.9 |
| 7 | <input type="checkbox"/> | 500.000  | 503.082    | 1802007.49 | 4.8111 | P    | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 996.711    | 3554898.42 | 9.5302 | P    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 139493.46  | 0.3446 | P    | 0.6 |

$$y = 0.0096 * x + 0.0017$$

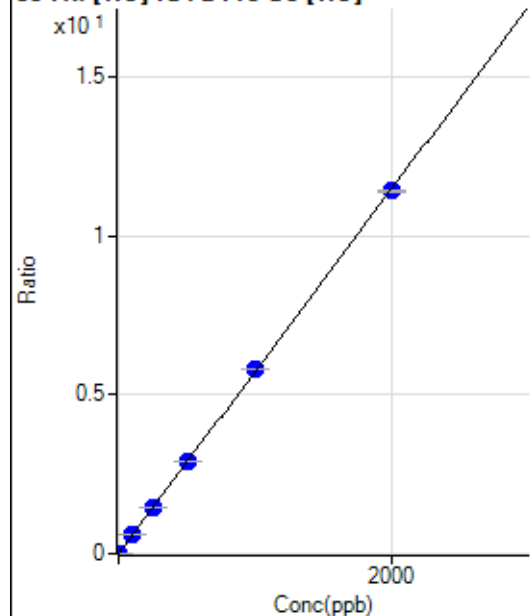
$$R = 1.0000$$

$$DL = 0.02141$$

$$BEC = 0.179$$

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      | 155.56     | 0.0004  | P    | 13.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.070      | 311.12     | 0.0008  | P    | 20.0 |
| 3 | <input type="checkbox"/> | 1.000    | 1.071      | 2498.03    | 0.0066  | P    | 4.0  |
| 4 | <input type="checkbox"/> | 100.000  | 101.853    | 221558.20  | 0.5841  | P    | 2.5  |
| 5 | <input type="checkbox"/> | 250.000  | 257.061    | 556205.95  | 1.4736  | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 509.377    | 1093613.68 | 2.9196  | P    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1012.554   | 2173659.22 | 5.8032  | P    | 0.1  |
| 8 | <input type="checkbox"/> | 2000.000 | 1990.403   | 4255156.64 | 11.4072 | P    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 17397.28   | 0.0430  | P    | 1.7  |

$$y = 0.0057 * x + 4.1100E-004$$

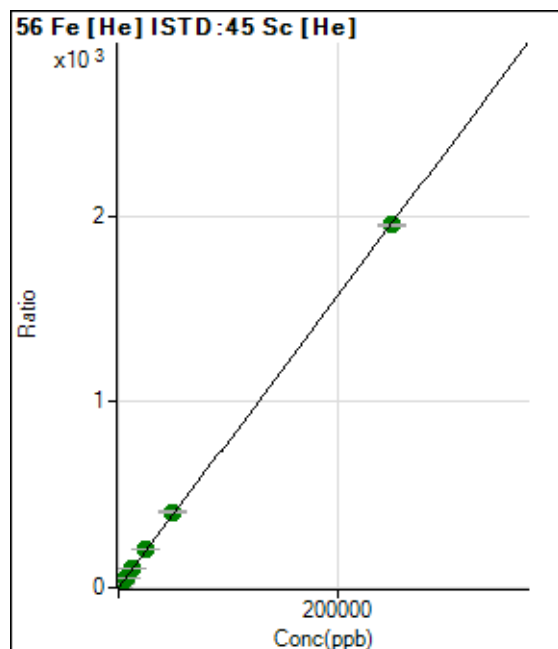
$$R = 1.0000$$

$$DL = 0.02998$$

$$BEC = 0.07172$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 25893.69    | 0.0684    | P   | 1.2 |
| 2 | <input type="checkbox"/> | 5.000     | -1.618     | 21317.75    | 0.0557    | P   | 5.6 |
| 3 | <input type="checkbox"/> | 50.000    | 51.675     | 180484.64   | 0.4733    | P   | 0.6 |
| 4 | <input type="checkbox"/> | 2500.000  | 2668.870   | 7957031.89  | 20.9785   | A   | 3.1 |
| 5 | <input type="checkbox"/> | 6250.000  | 6754.442   | 20000377.07 | 52.9883   | A   | 0.6 |
| 6 | <input type="checkbox"/> | 12500.000 | 13429.092  | 39436414.77 | 105.2830  | A   | 0.6 |
| 7 | <input type="checkbox"/> | 25000.000 | 26649.425  | 78231315.64 | 208.8621  | A   | 0.3 |
| 8 | <input type="checkbox"/> | 50000.000 | 52168.700  | 152493796.0 | 408.8012  | A   | 0.3 |
| 9 | <input type="checkbox"/> | 250000.00 | 249340.56  | 790795388.0 | 1,953.608 | A   | 0.4 |

$$y = 0.0078 * x + 0.0684$$

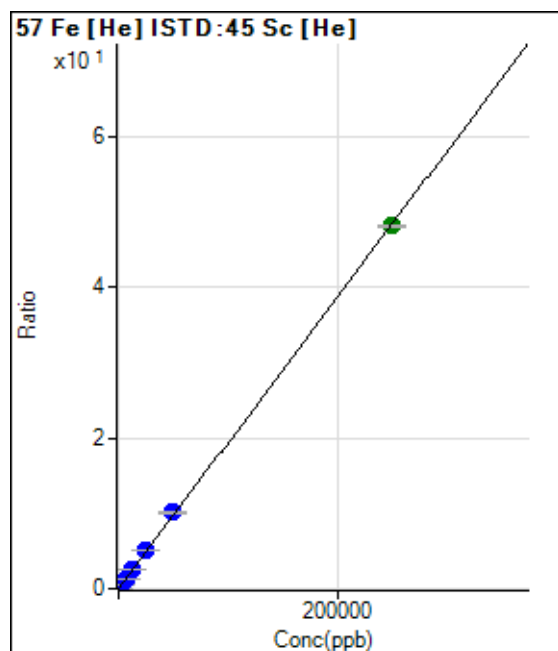
$$R = 0.9999$$

$$DL = 0.3097$$

$$BEC = 8.731$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                            | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|-------------------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/>            | 0.000     | 0.000      | 727.82      | 0.0019  | P   | 2.0 |
| 2 | <input checked="" type="checkbox"/> | 5.000     |            |             |         |     |     |
| 3 | <input type="checkbox"/>            | 50.000    | 52.963     | 4639.75     | 0.0122  | P   | 1.1 |
| 4 | <input type="checkbox"/>            | 2500.000  | 2682.776   | 197532.86   | 0.5208  | P   | 2.9 |
| 5 | <input type="checkbox"/>            | 6250.000  | 6736.812   | 492520.56   | 1.3049  | P   | 0.9 |
| 6 | <input type="checkbox"/>            | 12500.000 | 13431.242  | 973754.85   | 2.5996  | P   | 0.3 |
| 7 | <input type="checkbox"/>            | 25000.000 | 26636.102  | 1930310.18  | 5.1535  | P   | 0.3 |
| 8 | <input type="checkbox"/>            | 50000.000 | 52369.459  | 3778883.94  | 10.1305 | P   | 0.8 |
| 9 | <input type="checkbox"/>            | 250000.00 | 249301.93  | 19518239.33 | 48.2187 | A   | 0.6 |

$$y = 1.9341E-004 * x + 0.0019$$

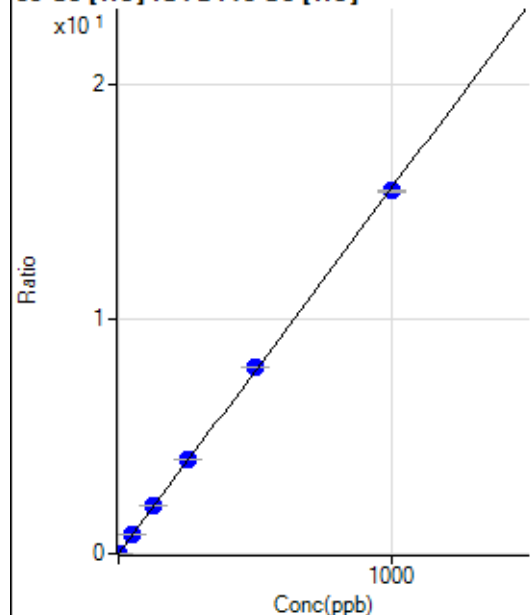
$$R = 0.9999$$

$$DL = 0.6$$

$$BEC = 9.943$$

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      | 320.01     | 0.0008  | P    | 9.6 |
| 2 | <input type="checkbox"/> | 0.100    | 0.085      | 833.37     | 0.0022  | P    | 7.2 |
| 3 | <input type="checkbox"/> | 1.000    | 1.092      | 6815.02    | 0.0179  | P    | 1.5 |
| 4 | <input type="checkbox"/> | 50.000   | 51.923     | 307321.23  | 0.8102  | P    | 2.7 |
| 5 | <input type="checkbox"/> | 125.000  | 130.665    | 769125.35  | 2.0377  | P    | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 258.189    | 1507894.89 | 4.0256  | P    | 0.0 |
| 7 | <input type="checkbox"/> | 500.000  | 508.748    | 2970760.61 | 7.9314  | P    | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 992.774    | 5773066.44 | 15.4766 | P    | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 13077.12   | 0.0323  | P    | 1.2 |

$$y = 0.0156 * x + 8.4566E-004$$

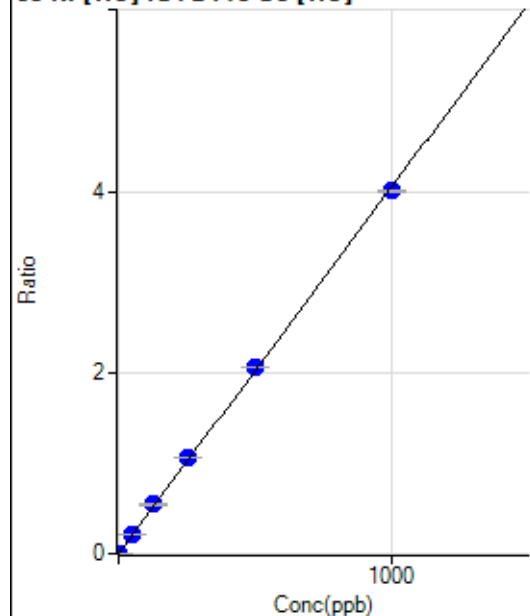
$$R = 0.9999$$

$$DL = 0.01567$$

$$BEC = 0.05425$$

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      | 78.89      | 0.0002 | P    | 23.0 |
| 2 | <input type="checkbox"/> | 0.100    | 0.114      | 255.56     | 0.0007 | P    | 9.4  |
| 3 | <input type="checkbox"/> | 1.000    | 1.158      | 1866.81    | 0.0049 | P    | 3.1  |
| 4 | <input type="checkbox"/> | 50.000   | 53.292     | 81873.74   | 0.2159 | P    | 2.9  |
| 5 | <input type="checkbox"/> | 125.000  | 134.076    | 204858.88  | 0.5427 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 262.407    | 397814.85  | 1.0620 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 510.923    | 774464.74  | 2.0677 | P    | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.138    | 1494614.63 | 4.0068 | P    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 40202.95   | 0.0993 | P    | 1.2  |

$$y = 0.0040 * x + 2.0836E-004$$

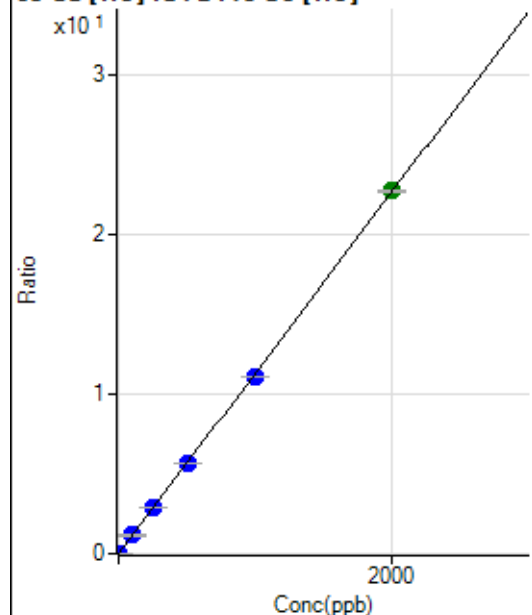
$$R = 0.9998$$

$$DL = 0.03555$$

$$BEC = 0.05149$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 943.38     | 0.0025  | P   | 7.7 |
| 2 | <input type="checkbox"/> | 0.200    | 0.175      | 1710.13    | 0.0045  | P   | 5.9 |
| 3 | <input type="checkbox"/> | 2.000    | 2.119      | 10106.98   | 0.0265  | P   | 1.0 |
| 4 | <input type="checkbox"/> | 100.000  | 101.789    | 438324.47  | 1.1556  | P   | 2.6 |
| 5 | <input type="checkbox"/> | 250.000  | 253.805    | 1086194.68 | 2.8777  | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 499.670    | 2121250.47 | 5.6631  | P   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 979.944    | 4159014.63 | 11.1039 | P   | 0.4 |
| 8 | <input type="checkbox"/> | 2000.000 | 2009.545   | 8492800.78 | 22.7678 | A   | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 15299.31   | 0.0378  | P   | 1.9 |

$$y = 0.0113 * x + 0.0025$$

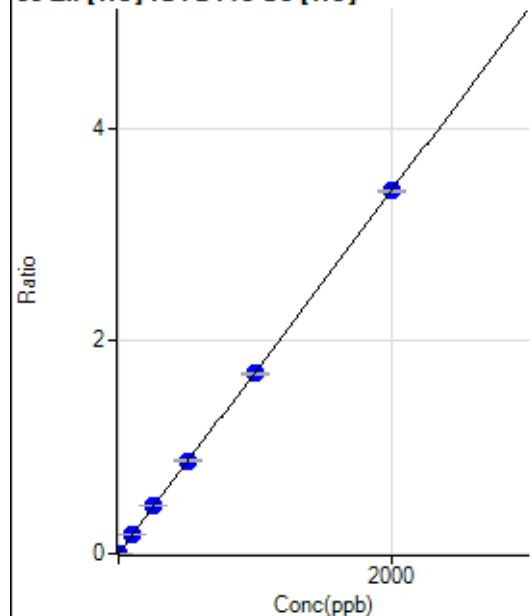
$$R = 0.9999$$

$$DL = 0.05097$$

$$BEC = 0.22$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct                | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|-------------------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 776.70     | 0.0021 | P   | 23.0 |
| 2 | <input checked="" type="checkbox"/> | 0.200    |            |            |        |     |      |
| 3 | <input type="checkbox"/>            | 2.000    | 1.481      | 1746.80    | 0.0046 | P   | 5.5  |
| 4 | <input type="checkbox"/>            | 100.000  | 103.889    | 68011.89   | 0.1793 | P   | 1.5  |
| 5 | <input type="checkbox"/>            | 250.000  | 260.454    | 168504.39  | 0.4464 | P   | 1.2  |
| 6 | <input type="checkbox"/>            | 500.000  | 512.026    | 327996.68  | 0.8757 | P   | 0.5  |
| 7 | <input type="checkbox"/>            | 1000.000 | 992.438    | 634968.29  | 1.6953 | P   | 0.7  |
| 8 | <input type="checkbox"/>            | 2000.000 | 1999.274   | 1273138.71 | 3.4131 | P   | 0.9  |
| 9 | <input type="checkbox"/>            |          |            | 14059.17   | 0.0347 | P   | 1.9  |

$$y = 0.0017 * x + 0.0021$$

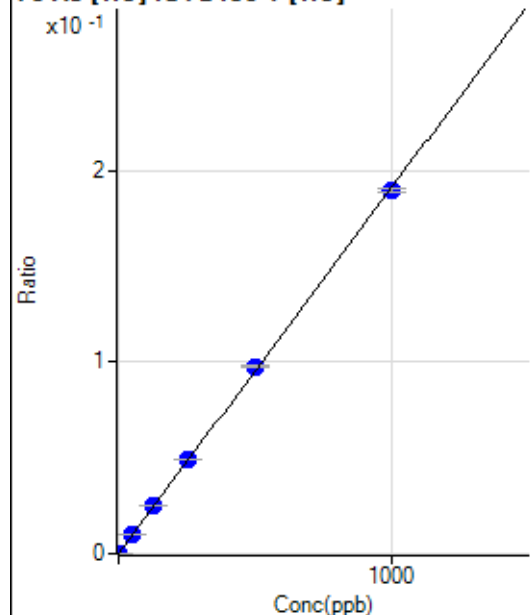
$$R = 1.0000$$

$$DL = 0.8319$$

$$BEC = 1.203$$

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      | 16.05     | 0.0000 | P    | 58.1 |
| 2 | <input type="checkbox"/> | 0.100    | 0.097      | 54.94     | 0.0000 | P    | 3.7  |
| 3 | <input type="checkbox"/> | 1.000    | 1.094      | 450.01    | 0.0002 | P    | 4.1  |
| 4 | <input type="checkbox"/> | 50.000   | 51.423     | 20271.02  | 0.0098 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 125.000  | 129.679    | 51037.96  | 0.0248 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 256.923    | 100449.39 | 0.0491 | P    | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 512.200    | 198612.60 | 0.0978 | P    | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.513    | 382910.61 | 0.1893 | P    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 179.01    | 0.0001 | P    | 8.4  |

$$y = 1.9096\text{E-}004 * x + 7.8126\text{E-}006$$

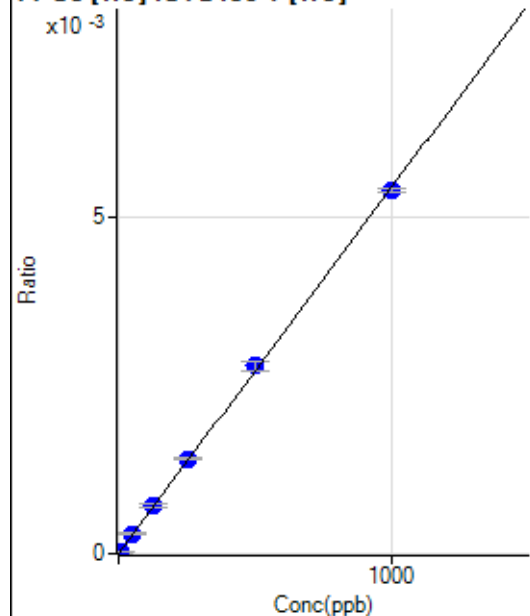
$$R = 0.9999$$

$$DL = 0.07128$$

$$BEC = 0.04091$$

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    | 0.392      | 4.44     | 0.0000 | P    | 43.7 |
| 3 | <input type="checkbox"/> | 5.000    | 5.498      | 62.22    | 0.0000 | P    | 19.0 |
| 4 | <input type="checkbox"/> | 50.000   | 54.250     | 610.02   | 0.0003 | P    | 8.1  |
| 5 | <input type="checkbox"/> | 125.000  | 129.990    | 1460.10  | 0.0007 | P    | 9.2  |
| 6 | <input type="checkbox"/> | 250.000  | 258.719    | 2887.00  | 0.0014 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 500.000  | 512.280    | 5668.97  | 0.0028 | P    | 4.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.842    | 10922.04 | 0.0054 | P    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 8.89     | 0.0000 | P    | 44.7 |

$$y = 5.4506\text{E-}006 * x + 0.0000\text{E+}000$$

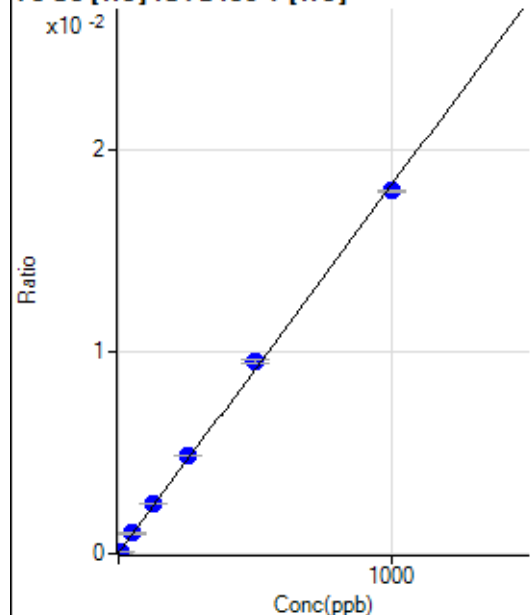
$$R = 0.9998$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 67.90    | 0.0000 | P    | 9.4  |
| 2 | <input type="checkbox"/> | 0.500    | 0.317      | 80.86    | 0.0000 | P    | 12.9 |
| 3 | <input type="checkbox"/> | 5.000    | 5.671      | 282.72   | 0.0001 | P    | 4.2  |
| 4 | <input type="checkbox"/> | 50.000   | 53.772     | 2084.74  | 0.0010 | P    | 4.1  |
| 5 | <input type="checkbox"/> | 125.000  | 134.079    | 5089.82  | 0.0025 | P    | 1.4  |
| 6 | <input type="checkbox"/> | 250.000  | 265.096    | 9933.09  | 0.0049 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 520.809    | 19290.68 | 0.0095 | P    | 1.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 984.495    | 36260.09 | 0.0179 | P    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 71.61    | 0.0000 | P    | 9.4  |

$$y = 1.8178\text{E-}005 * x + 3.3062\text{E-}005$$

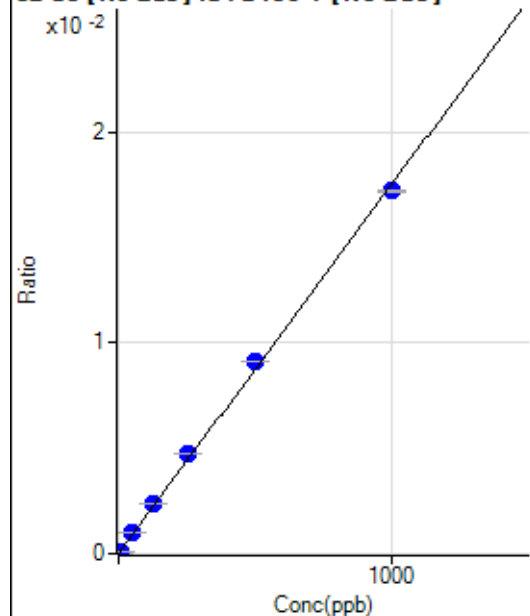
$$R = 0.9995$$

$$DL = 0.5141$$

$$BEC = 1.819$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>                     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|-------------------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 94.90     | 0.0000 | P    | 141. |
| 2 | <input checked="" type="checkbox"/> | 0.500    |            |           |        |      |      |
| 3 | <input type="checkbox"/>            | 5.000    | 5.893      | 1742.50   | 0.0001 | P    | 4.1  |
| 4 | <input type="checkbox"/>            | 50.000   | 55.634     | 15786.87  | 0.0010 | P    | 1.8  |
| 5 | <input type="checkbox"/>            | 125.000  | 136.140    | 38509.89  | 0.0024 | P    | 0.3  |
| 6 | <input type="checkbox"/>            | 250.000  | 268.838    | 74840.22  | 0.0047 | P    | 0.2  |
| 7 | <input type="checkbox"/>            | 500.000  | 521.104    | 146442.41 | 0.0091 | P    | 0.9  |
| 8 | <input type="checkbox"/>            | 1000.000 | 983.060    | 268933.29 | 0.0172 | P    | 0.2  |
| 9 | <input type="checkbox"/>            |          |            | 402.14    | 0.0000 | P    | 30.6 |

$$y = 1.7519\text{E-}005 * x + 5.9677\text{E-}006$$

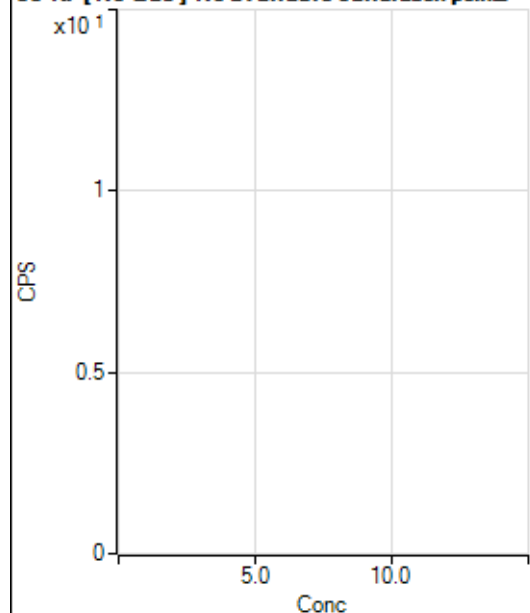
$$R = 0.9995$$

$$DL = 1.444$$

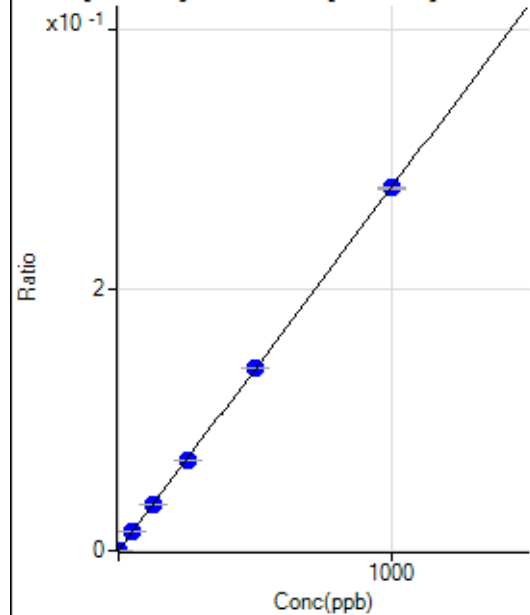
$$BEC = 0.3406$$

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"/> |       |            | 1591.22 |       | P        | 8.8 |
| 2 | <input type="checkbox"/> |       |            | 1525.66 |       | P        | 5.7 |
| 3 | <input type="checkbox"/> |       |            | 1546.78 |       | P        | 3.2 |
| 4 | <input type="checkbox"/> |       |            | 1603.45 |       | P        | 5.8 |
| 5 | <input type="checkbox"/> |       |            | 1606.79 |       | P        | 3.3 |
| 6 | <input type="checkbox"/> |       |            | 1427.87 |       | P        | 8.0 |
| 7 | <input type="checkbox"/> |       |            | 1547.88 |       | P        | 5.4 |
| 8 | <input type="checkbox"/> |       |            | 1601.23 |       | P        | 2.3 |
| 9 | <input type="checkbox"/> |       |            | 1574.55 |       | P        | 5.8 |

**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      | 2978.23    | 0.0002 | P        | 16.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.024      | 3106.04    | 0.0002 | P        | 3.0  |
| 3 | <input type="checkbox"/> | 1.000    | 0.945      | 7199.35    | 0.0005 | P        | 2.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.744     | 230621.93  | 0.0143 | P        | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 126.827    | 572114.11  | 0.0355 | P        | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 250.058    | 1108587.92 | 0.0699 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 502.654    | 2247954.28 | 0.1402 | P        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.393    | 4344795.28 | 0.2783 | P        | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 19953.48   | 0.0013 | P        | 2.0  |

$$y = 2.7860E-004 * x + 1.8805E-004$$

$$R = 1.0000$$

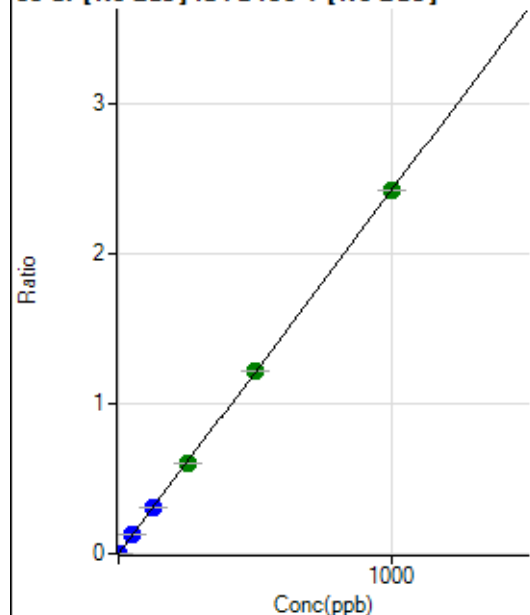
$$DL = 0.3427$$

$$BEC = 0.675$$

Weight: <None>

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      | 4075.48     | 0.0003 | P        | 135. |
| 2 | <input type="checkbox"/> | 0.100    | 0.011      | 4537.05     | 0.0003 | P        | 5.2  |
| 3 | <input type="checkbox"/> | 1.000    | 0.922      | 39786.85    | 0.0025 | P        | 1.0  |
| 4 | <input type="checkbox"/> | 50.000   | 51.123     | 2000846.16  | 0.1243 | P        | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 127.951    | 5003736.05  | 0.3107 | P        | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 250.554    | 9650838.93  | 0.6081 | A        | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 501.240    | 19497998.35 | 1.2163 | A        | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.817    | 37829270.64 | 2.4234 | A        | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 152364.95   | 0.0101 | P        | 0.4  |

$$y = 0.0024 * x + 2.5735E-004$$

$$R = 1.0000$$

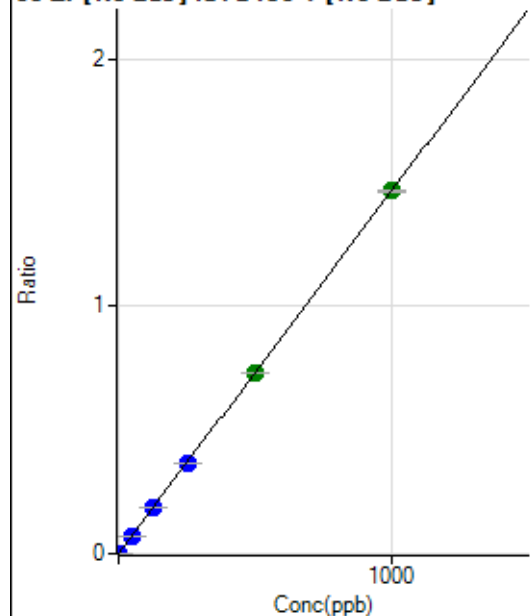
$$DL = 0.4311$$

$$BEC = 0.1061$$

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      | 2347.97     | 0.0001 | P        | 97.6 |
| 2 | <input type="checkbox"/> | 0.100    | 0.022      | 2889.30     | 0.0002 | P        | 1.8  |
| 3 | <input type="checkbox"/> | 1.000    | 0.834      | 21878.56    | 0.0014 | P        | 4.2  |
| 4 | <input type="checkbox"/> | 50.000   | 49.965     | 1182797.46  | 0.0735 | P        | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 124.996    | 2956615.82  | 0.1836 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 251.396    | 5857099.65  | 0.3691 | P        | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 498.723    | 11734624.22 | 0.7320 | A        | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.292   | 22915808.50 | 1.4680 | A        | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 6832.46     | 0.0005 | P        | 1.1  |

$$y = 0.0015 * x + 1.4827E-004$$

$$R = 1.0000$$

$$DL = 0.2958$$

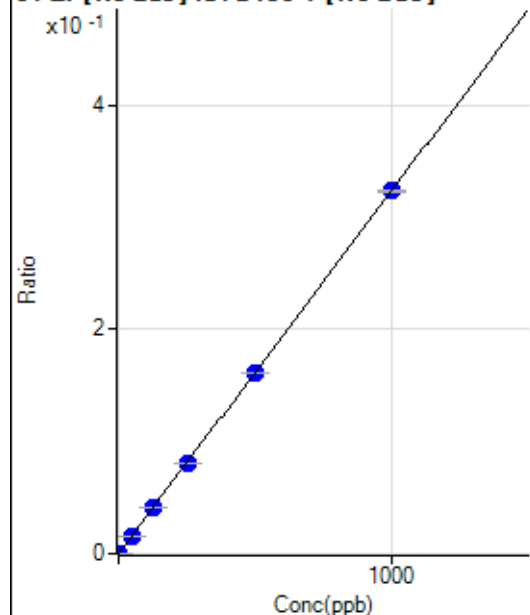
$$BEC = 0.101$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 602.85     | 0.0000 | P    | 101. |
| 2 | <input type="checkbox"/> | 0.100    | 0.009      | 655.60     | 0.0000 | P    | 4.8  |
| 3 | <input type="checkbox"/> | 1.000    | 0.857      | 5031.66    | 0.0003 | P    | 6.1  |
| 4 | <input type="checkbox"/> | 50.000   | 49.881     | 260556.14  | 0.0162 | P    | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 125.364    | 654211.95  | 0.0406 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 250.392    | 1286912.43 | 0.0811 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 499.602    | 2593161.39 | 0.1618 | P    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.062   | 5053923.59 | 0.3238 | P    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1502.93    | 0.0001 | P    | 1.1  |

$$y = 3.2370\text{E-}004 * x + 3.8069\text{E-}005$$

$$R = 1.0000$$

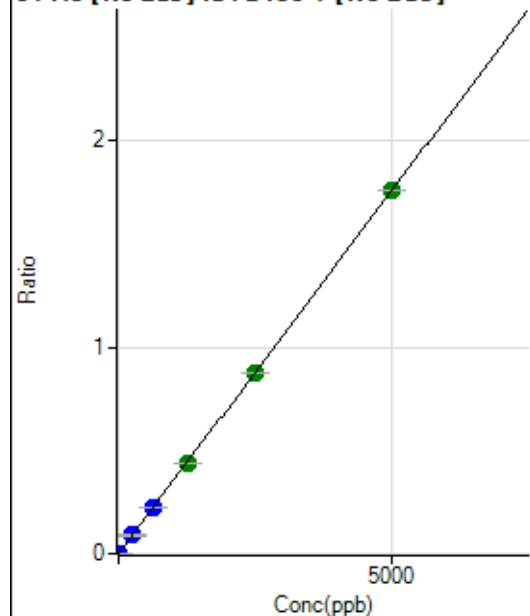
$$DL = 0.3577$$

$$BEC = 0.1176$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1150.17     | 0.0001 | P    | 76.6 |
| 2 | <input type="checkbox"/> | 0.500    | 0.362      | 3189.39     | 0.0002 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 5.000    | 4.820      | 28162.15    | 0.0018 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 250.000  | 252.199    | 1426906.67  | 0.0886 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 632.045    | 3575818.22  | 0.2220 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.730   | 6960162.74  | 0.4386 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 2500.000 | 2495.941   | 14051578.09 | 0.8765 | A    | 0.1  |
| 8 | <input type="checkbox"/> | 5000.000 | 5001.357   | 27416007.90 | 1.7563 | A    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 22913.59    | 0.0015 | P    | 0.8  |

$$y = 3.5115\text{E-}004 * x + 7.2633\text{E-}005$$

$$R = 1.0000$$

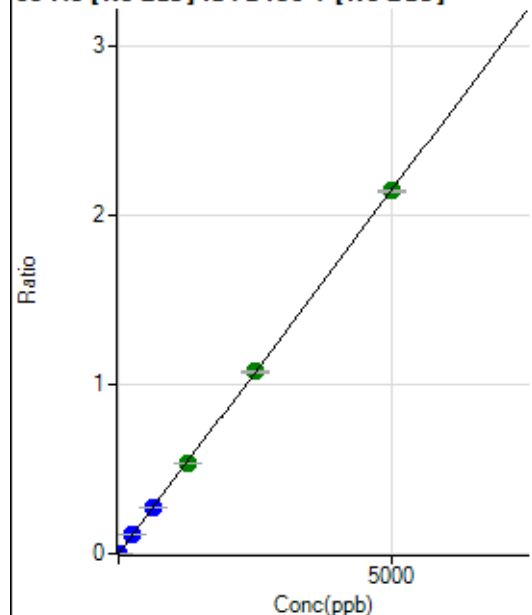
$$DL = 0.4753$$

$$BEC = 0.2068$$

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      | 625.04      | 0.0000 | P    | 35.8 |
| 2 | <input type="checkbox"/> | 0.500    | 0.463      | 3803.44     | 0.0002 | P    | 6.9  |
| 3 | <input type="checkbox"/> | 5.000    | 5.154      | 35921.04    | 0.0023 | P    | 3.4  |
| 4 | <input type="checkbox"/> | 250.000  | 253.840    | 1754997.69  | 0.1090 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 636.141    | 4399094.71  | 0.2731 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1253.818   | 8542963.21  | 0.5383 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 2500.000 | 2507.084   | 17254284.24 | 1.0763 | A    | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4993.919   | 33466738.59 | 2.1439 | A    | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 35202.84    | 0.0023 | P    | 3.6  |

$$y = 4.2930E-004 * x + 3.9469E-005$$

$$R = 1.0000$$

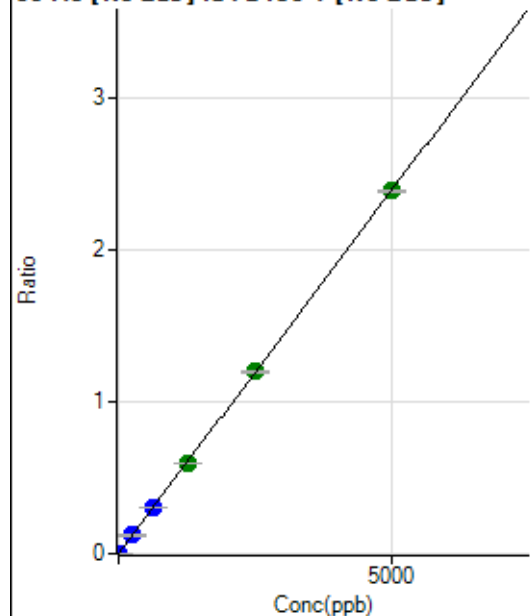
$$DL = 0.09872$$

$$BEC = 0.09194$$

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      | 700.05      | 0.0000 | P    | 21.3 |
| 2 | <input type="checkbox"/> | 0.500    | 0.459      | 4203.57     | 0.0003 | P    | 1.4  |
| 3 | <input type="checkbox"/> | 5.000    | 5.176      | 40112.85    | 0.0025 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 250.000  | 252.279    | 1939051.35  | 0.1204 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 633.978    | 4873908.01  | 0.3026 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 1250.000 | 1253.184   | 9492636.76  | 0.5981 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2503.028   | 19151140.88 | 1.1946 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4996.454   | 37224189.03 | 2.3846 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 51418.92    | 0.0034 | P    | 1.0  |

$$y = 4.7726E-004 * x + 4.4189E-005$$

$$R = 1.0000$$

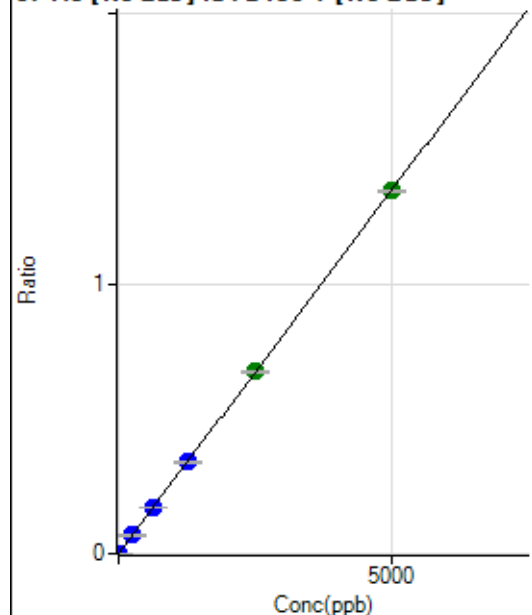
$$DL = 0.05923$$

$$BEC = 0.09259$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 463.92      | 0.0000 | P    | 25.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.445      | 2378.07     | 0.0001 | P    | 4.6  |
| 3 | <input type="checkbox"/> | 5.000    | 5.079      | 22259.92    | 0.0014 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 250.000  | 252.360    | 1093160.41  | 0.0679 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 625.000  | 625.557    | 2710281.03  | 0.1683 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1258.587   | 5372711.53  | 0.3385 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 2500.000 | 2504.300   | 10797832.80 | 0.6736 | A    | 0.7  |
| 8 | <input type="checkbox"/> | 5000.000 | 4995.515   | 20973762.27 | 1.3436 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 21848.02    | 0.0014 | P    | 3.2  |

$$y = 2.6896\text{E-}004 * x + 2.9291\text{E-}005$$

$$R = 1.0000$$

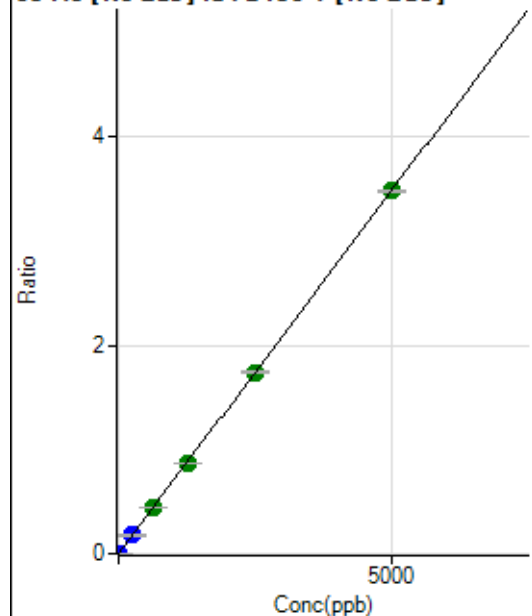
$$DL = 0.0833$$

$$BEC = 0.1089$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1025.09     | 0.0001 | P    | 25.0 |
| 2 | <input type="checkbox"/> | 0.500    | 0.434      | 5859.80     | 0.0004 | P    | 6.1  |
| 3 | <input type="checkbox"/> | 5.000    | 5.045      | 57118.00    | 0.0036 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 250.000  | 251.629    | 2823850.00  | 0.1754 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 624.034    | 7004656.23  | 0.4349 | A    | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1253.660   | 13865228.09 | 0.8736 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2500.714   | 27935547.15 | 1.7426 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4998.767   | 54374631.08 | 3.4833 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 54725.52    | 0.0036 | P    | 1.9  |

$$y = 6.9683\text{E-}004 * x + 6.4718\text{E-}005$$

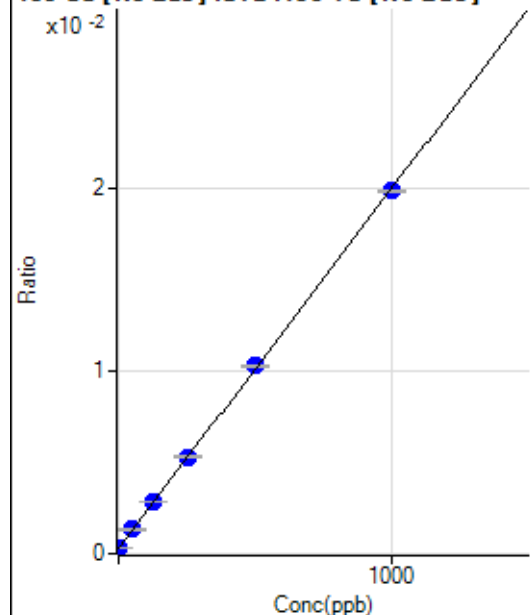
$$R = 1.0000$$

$$DL = 0.06954$$

$$BEC = 0.09287$$

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      | 5762.54   | 0.0003 | P    | 2.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.016      | 5751.41   | 0.0003 | P    | 4.8 |
| 3 | <input type="checkbox"/> | 1.000    | 1.234      | 6296.09   | 0.0003 | P    | 4.8 |
| 4 | <input type="checkbox"/> | 50.000   | 53.120     | 27644.54  | 0.0013 | P    | 2.6 |
| 5 | <input type="checkbox"/> | 125.000  | 129.797    | 59620.47  | 0.0028 | P    | 1.1 |
| 6 | <input type="checkbox"/> | 250.000  | 255.559    | 110893.15 | 0.0053 | P    | 2.2 |
| 7 | <input type="checkbox"/> | 500.000  | 507.316    | 215297.77 | 0.0102 | P    | 1.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 994.196    | 407676.91 | 0.0198 | P    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 5329.01   | 0.0003 | P    | 5.7 |

$$y = 1.9650\text{E-}005 * x + 2.7927\text{E-}004$$

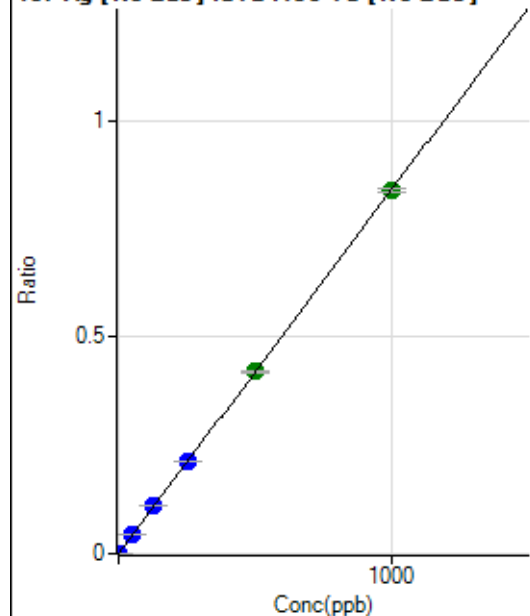
$$R = 0.9999$$

$$DL = 0.9973$$

$$BEC = 14.21$$

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      | 433.36      | 0.0000 | P    | 15.1 |
| 2 | <input type="checkbox"/> | 0.100    | 0.084      | 1883.55     | 0.0001 | P    | 10.3 |
| 3 | <input type="checkbox"/> | 1.000    | 1.021      | 18209.57    | 0.0009 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 50.000   | 53.052     | 931149.85   | 0.0446 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 130.083    | 2301492.21  | 0.1092 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 250.000  | 255.192    | 4482620.59  | 0.2143 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 501.611    | 8848724.94  | 0.4212 | A    | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.109    | 17224125.03 | 0.8372 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 3203.28     | 0.0002 | P    | 6.1  |

$$y = 8.3960\text{E-}004 * x + 2.0985\text{E-}005$$

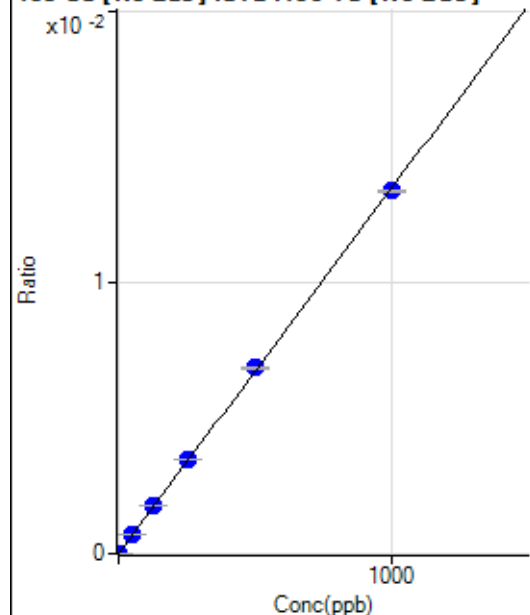
$$R = 1.0000$$

$$DL = 0.0113$$

$$BEC = 0.02499$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 34.72     | 0.0000 | P    | 27.8 |
| 2 | <input type="checkbox"/> | 0.100    | 0.081      | 56.95     | 0.0000 | P    | 8.5  |
| 3 | <input type="checkbox"/> | 1.000    | 0.875      | 279.17    | 0.0000 | P    | 8.3  |
| 4 | <input type="checkbox"/> | 50.000   | 53.733     | 15138.90  | 0.0007 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 129.696    | 36793.78  | 0.0017 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 258.072    | 72660.58  | 0.0035 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 508.270    | 143687.98 | 0.0068 | P    | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.073    | 274897.73 | 0.0134 | P    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 100.00    | 0.0000 | P    | 25.9 |

$$y = 1.3452\text{E-}005 * x + 1.6829\text{E-}006$$

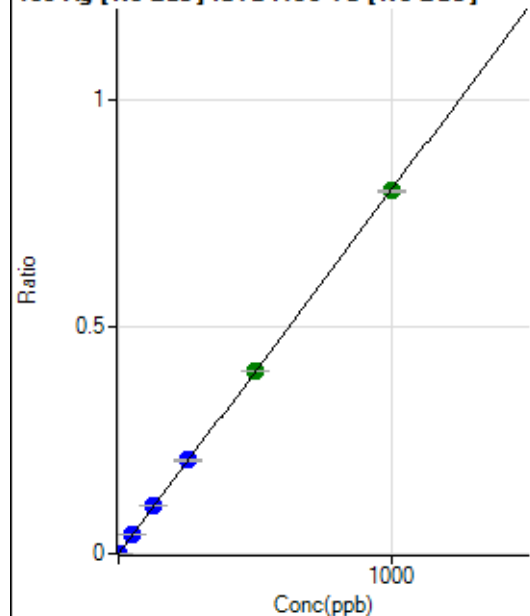
$$R = 0.9999$$

$$DL = 0.1043$$

$$BEC = 0.1251$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 347.24      | 0.0000 | P    | 9.2  |
| 2 | <input type="checkbox"/> | 0.100    | 0.083      | 1716.85     | 0.0001 | P    | 4.5  |
| 3 | <input type="checkbox"/> | 1.000    | 0.995      | 16921.81    | 0.0008 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 50.000   | 53.201     | 892779.05   | 0.0427 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 125.000  | 130.234    | 2203152.39  | 0.1046 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 256.321    | 4305007.00  | 0.2058 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 502.053    | 8468302.01  | 0.4031 | A    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.579    | 16460915.82 | 0.8001 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 3167.17     | 0.0002 | P    | 10.3 |

$$y = 8.0281\text{E-}004 * x + 1.6835\text{E-}005$$

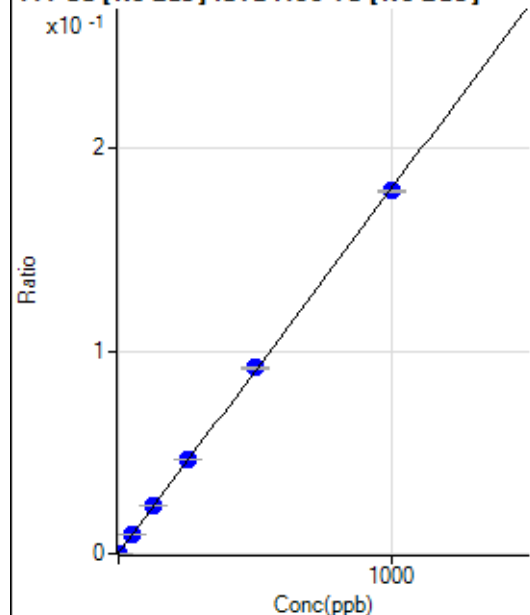
$$R = 1.0000$$

$$DL = 0.005764$$

$$BEC = 0.02097$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4153.93    | 0.0002 | P    | 1.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.084      | 4451.41    | 0.0002 | P    | 5.5 |
| 3 | <input type="checkbox"/> | 1.000    | 1.075      | 8193.04    | 0.0004 | P    | 3.8 |
| 4 | <input type="checkbox"/> | 50.000   | 53.326     | 204886.70  | 0.0098 | P    | 1.0 |
| 5 | <input type="checkbox"/> | 125.000  | 131.204    | 502119.14  | 0.0238 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 257.070    | 972773.33  | 0.0465 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 507.773    | 1925620.88 | 0.0917 | P    | 0.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 993.404    | 3685377.24 | 0.1791 | P    | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 4472.85    | 0.0002 | P    | 5.0 |

$$y = 1.8011\text{E-}004 * x + 2.0130\text{E-}004$$

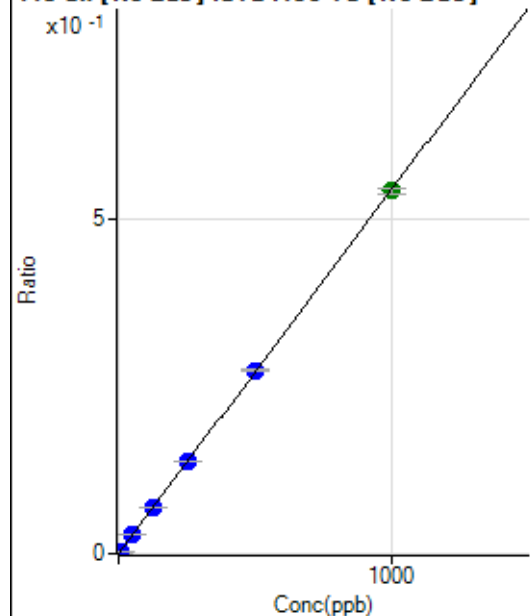
$$R = 0.9999$$

$$DL = 0.05564$$

$$BEC = 1.118$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1327.91     | 0.0001 | P    | 10.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.537      | 7341.15     | 0.0004 | P    | 1.0  |
| 3 | <input type="checkbox"/> | 5.000    | 5.427      | 62662.54    | 0.0030 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 51.684     | 589619.24   | 0.0282 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 127.890    | 1469112.27  | 0.0697 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 253.768    | 2893081.88  | 0.1383 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 503.109    | 5759299.56  | 0.2741 | P    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.056    | 11175399.73 | 0.5432 | A    | 1.4  |
| 9 | <input type="checkbox"/> |          |            | 5056.68     | 0.0003 | P    | 4.8  |

$$y = 5.4473\text{E-}004 * x + 6.4382\text{E-}005$$

$$R = 1.0000$$

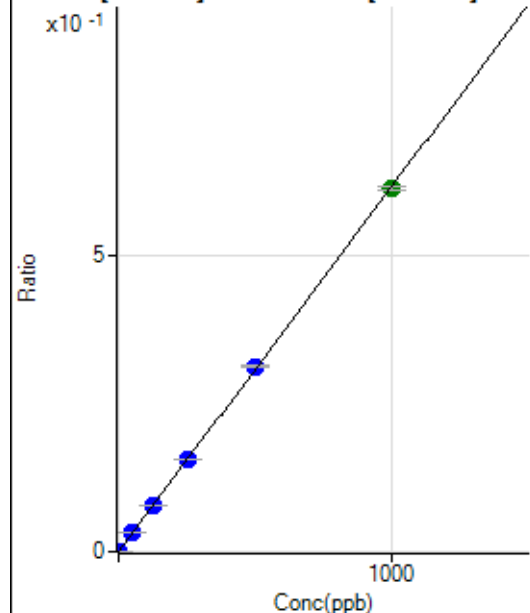
$$DL = 0.03738$$

$$BEC = 0.1182$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 519.48      | 0.0000 | P    | 44.4 |
| 2 | <input type="checkbox"/> | 0.200    | 0.180      | 2797.64     | 0.0001 | P    | 0.7  |
| 3 | <input type="checkbox"/> | 2.000    | 2.002      | 26041.70    | 0.0013 | P    | 2.8  |
| 4 | <input type="checkbox"/> | 50.000   | 51.083     | 656471.71   | 0.0314 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 128.242    | 1660911.56  | 0.0788 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 254.914    | 3277582.06  | 0.1567 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 507.529    | 6553389.21  | 0.3119 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.547    | 12574850.80 | 0.6112 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 10209.70    | 0.0005 | P    | 5.7  |

$$y = 6.1453\text{E-}004 * x + 2.5203\text{E-}005$$

$$R = 0.9999$$

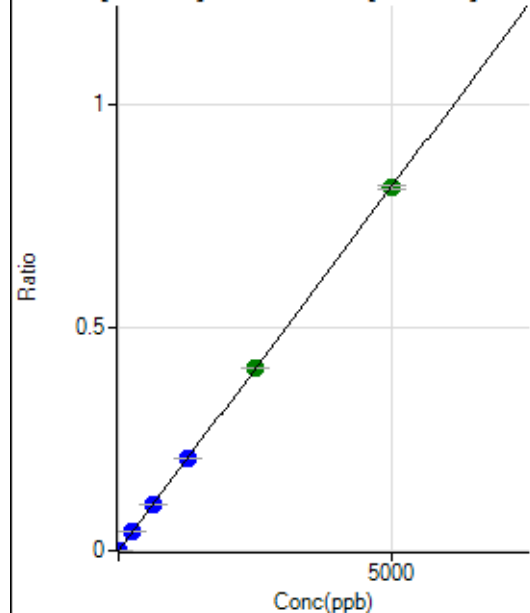
$$DL = 0.05468$$

$$BEC = 0.04101$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 819.56      | 0.0000 | P    | 102. |
| 2 | <input type="checkbox"/> | 1.000    | 0.886      | 3786.81     | 0.0002 | P    | 0.7  |
| 3 | <input type="checkbox"/> | 10.000   | 10.321     | 35707.96    | 0.0017 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 250.000  | 256.941    | 875524.52   | 0.0419 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 640.357    | 2198916.26  | 0.1044 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1268.337   | 4323626.27  | 0.2067 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2516.548   | 8614913.65  | 0.4100 | A    | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4984.874   | 16709774.68 | 0.8122 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 3283.86     | 0.0002 | P    | 1.4  |

$$y = 1.6292\text{E-}004 * x + 3.9741\text{E-}005$$

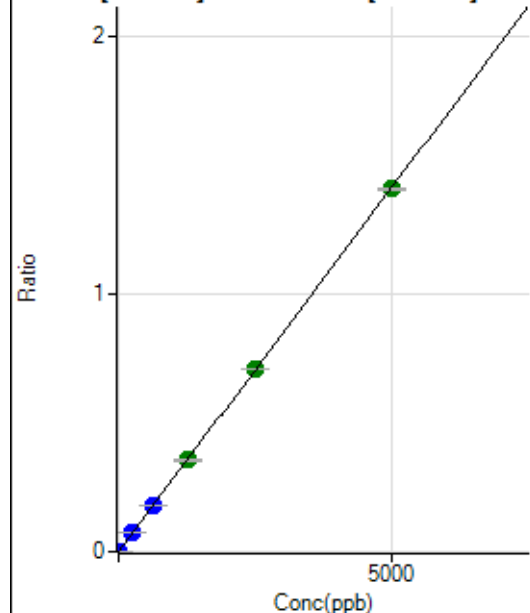
$$R = 1.0000$$

$$DL = 0.7461$$

$$BEC = 0.2439$$

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      | 1366.92     | 0.0001 | P        | 96.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.894      | 6554.62     | 0.0003 | P        | 1.7  |
| 3 | <input type="checkbox"/> | 10.000   | 10.455     | 62603.79    | 0.0030 | P        | 0.8  |
| 4 | <input type="checkbox"/> | 250.000  | 257.359    | 1519607.63  | 0.0727 | P        | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 641.088    | 3814711.33  | 0.1811 | P        | 0.9  |
| 6 | <input type="checkbox"/> | 1250.000 | 1257.754   | 7429825.86  | 0.3552 | A        | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2518.160   | 14938387.31 | 0.7110 | A        | 0.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4986.602   | 28967483.29 | 1.4079 | A        | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 5890.40     | 0.0003 | P        | 8.9  |

$$y = 2.8233\text{E-}004 * x + 6.6277\text{E-}005$$

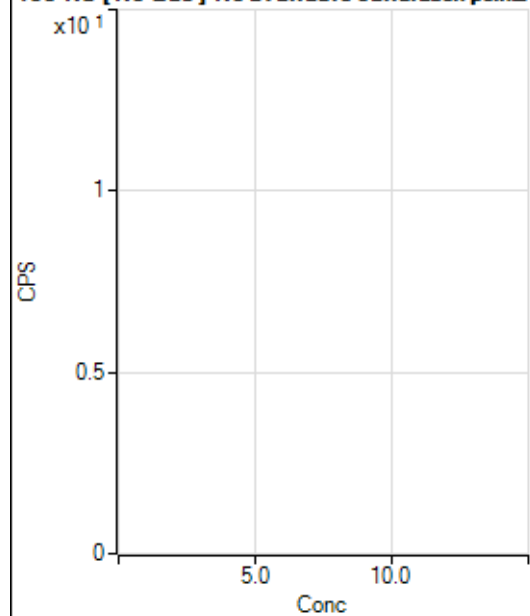
$$R = 1.0000$$

$$DL = 0.6811$$

$$BEC = 0.2348$$

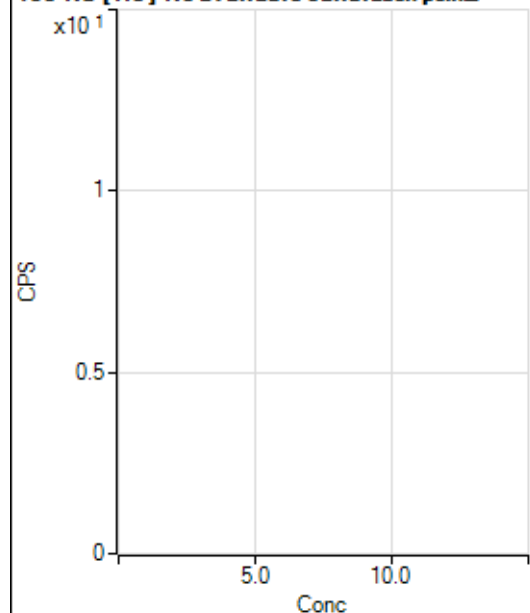
Weight: &lt;None&gt;

Min Conc: 0

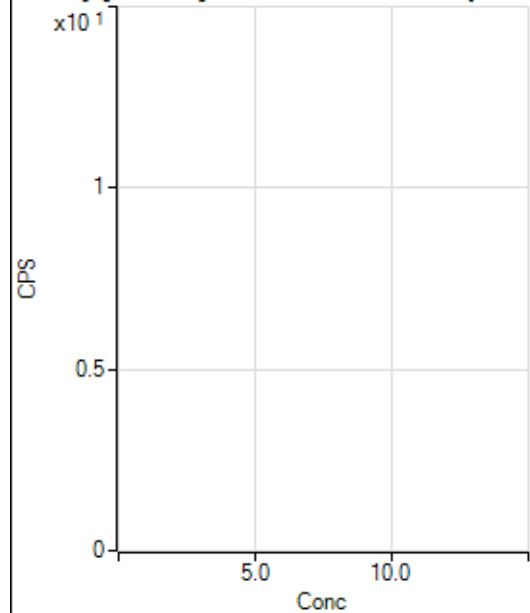
**150 Nd [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11   |       | P        | 69.3 |
| 2 | <input type="checkbox"/> |       |            | 13.33   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 15.56   |       | P        | 49.5 |
| 4 | <input type="checkbox"/> |       |            | 73.34   |       | P        | 18.2 |
| 5 | <input type="checkbox"/> |       |            | 160.01  |       | P        | 19.1 |
| 6 | <input type="checkbox"/> |       |            | 324.46  |       | P        | 20.3 |
| 7 | <input type="checkbox"/> |       |            | 593.37  |       | P        | 3.9  |
| 8 | <input type="checkbox"/> |       |            | 1255.66 |       | P        | 2.5  |
| 9 | <input type="checkbox"/> |       |            | 157.79  |       | P        | 12.9 |

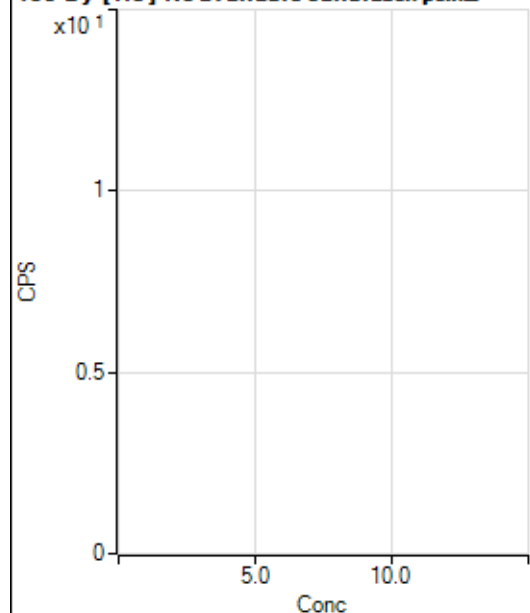


**150 Nd [He] No available calibration points**

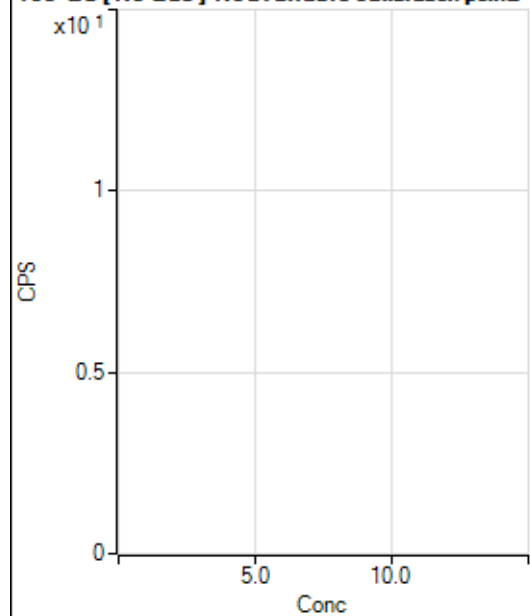
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            | 6.67  |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 21.7 |
| 4 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 36.7 |
| 5 | <input type="checkbox"/> |       |            | 26.67 |       | P        | 66.2 |
| 6 | <input type="checkbox"/> |       |            | 36.67 |       | P        | 18.2 |
| 7 | <input type="checkbox"/> |       |            | 53.33 |       | P        | 31.2 |
| 8 | <input type="checkbox"/> |       |            | 98.89 |       | P        | 23.7 |
| 9 | <input type="checkbox"/> |       |            | 58.89 |       | P        | 8.6  |

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

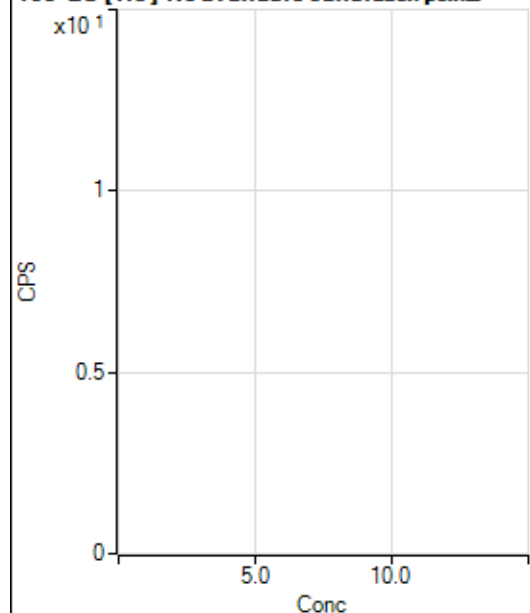
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 15.1 |
| 2 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 54.1 |
| 3 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 19.9 |
| 4 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 52.9 |
| 5 | <input type="checkbox"/> |       |            | 69.45  |       | P        | 18.3 |
| 6 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 17.8 |
| 7 | <input type="checkbox"/> |       |            | 194.46 |       | P        | 20.3 |
| 8 | <input type="checkbox"/> |       |            | 322.24 |       | P        | 15.6 |
| 9 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 36.1 |

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

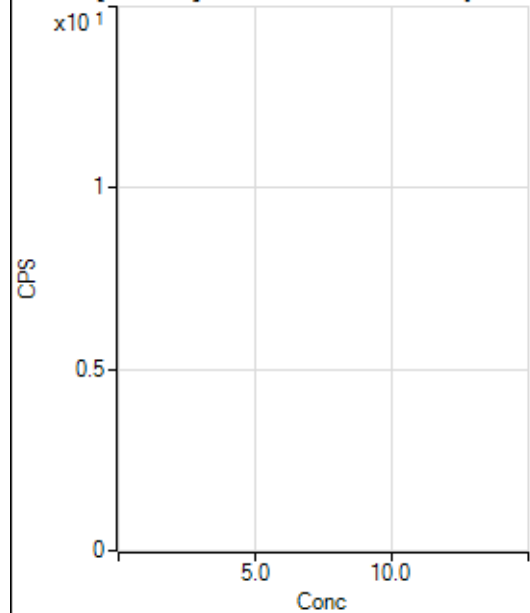
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 25.56  |       | P        | 32.8 |
| 2 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 66.8 |
| 3 | <input type="checkbox"/> |       |            | 31.11  |       | P        | 62.8 |
| 4 | <input type="checkbox"/> |       |            | 43.33  |       | P        | 7.7  |
| 5 | <input type="checkbox"/> |       |            | 56.67  |       | P        | 41.2 |
| 6 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 8.2  |
| 7 | <input type="checkbox"/> |       |            | 164.45 |       | P        | 8.2  |
| 8 | <input type="checkbox"/> |       |            | 308.90 |       | P        | 8.4  |
| 9 | <input type="checkbox"/> |       |            | 53.34  |       | P        | 10.8 |

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

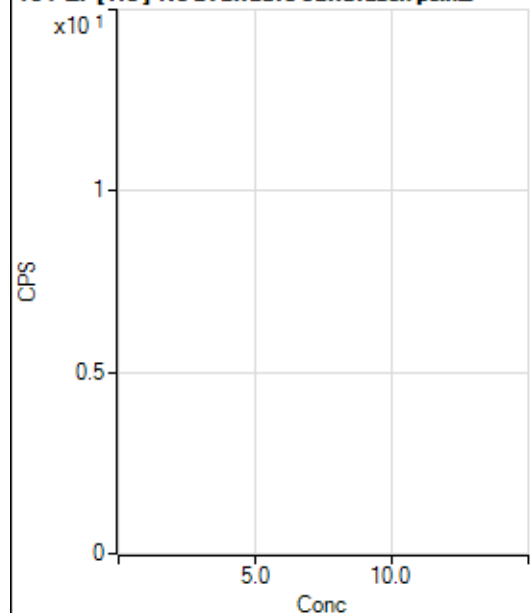
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 163.90 |       | P        | 14.7 |
| 2 | <input type="checkbox"/> |       |            | 138.89 |       | P        | 21.1 |
| 3 | <input type="checkbox"/> |       |            | 141.67 |       | P        | 5.9  |
| 4 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 61.6 |
| 5 | <input type="checkbox"/> |       |            | 100.01 |       | P        | 25.0 |
| 6 | <input type="checkbox"/> |       |            | 86.11  |       | P        | 20.1 |
| 7 | <input type="checkbox"/> |       |            | 155.56 |       | P        | 8.2  |
| 8 | <input type="checkbox"/> |       |            | 141.67 |       | P        | 21.2 |
| 9 | <input type="checkbox"/> |       |            | 144.45 |       | P        | 48.4 |

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

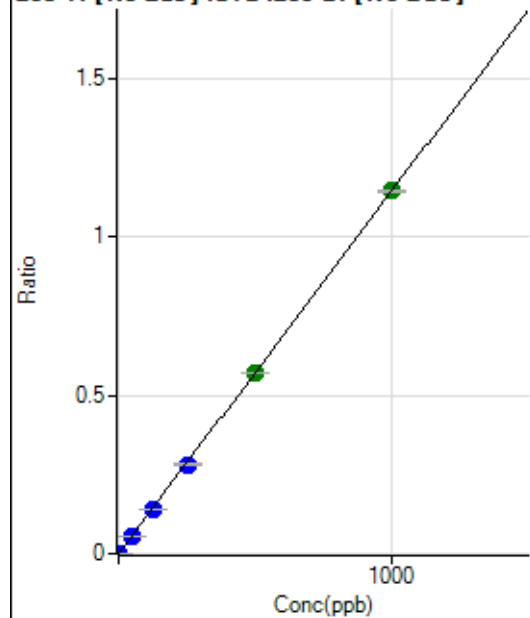
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 340.01 |       | P        | 12.8 |
| 2 | <input type="checkbox"/> |       |            | 312.23 |       | P        | 11.4 |
| 3 | <input type="checkbox"/> |       |            | 310.01 |       | P        | 20.5 |
| 4 | <input type="checkbox"/> |       |            | 321.12 |       | P        | 11.7 |
| 5 | <input type="checkbox"/> |       |            | 334.46 |       | P        | 4.0  |
| 6 | <input type="checkbox"/> |       |            | 323.34 |       | P        | 0.0  |
| 7 | <input type="checkbox"/> |       |            | 302.23 |       | P        | 3.5  |
| 8 | <input type="checkbox"/> |       |            | 325.57 |       | P        | 6.8  |
| 9 | <input type="checkbox"/> |       |            | 323.34 |       | P        | 6.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 39.0 |
| 2 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 17.8 |
| 3 | <input type="checkbox"/> |       |            | 125.00 |       | P        | 11.5 |
| 4 | <input type="checkbox"/> |       |            | 102.79 |       | P        | 20.4 |
| 5 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 5.4  |
| 6 | <input type="checkbox"/> |       |            | 113.89 |       | P        | 25.7 |
| 7 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 40.5 |
| 8 | <input type="checkbox"/> |       |            | 125.01 |       | P        | 24.0 |
| 9 | <input type="checkbox"/> |       |            | 152.79 |       | P        | 3.1  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 86.67 |       | P        | 38.5 |
| 2 | <input type="checkbox"/> |       |            | 70.00 |       | P        | 46.9 |
| 3 | <input type="checkbox"/> |       |            | 62.22 |       | P        | 6.2  |
| 4 | <input type="checkbox"/> |       |            | 73.33 |       | P        | 9.1  |
| 5 | <input type="checkbox"/> |       |            | 86.67 |       | P        | 7.7  |
| 6 | <input type="checkbox"/> |       |            | 47.78 |       | P        | 29.0 |
| 7 | <input type="checkbox"/> |       |            | 81.11 |       | P        | 12.6 |
| 8 | <input type="checkbox"/> |       |            | 86.67 |       | P        | 16.8 |
| 9 | <input type="checkbox"/> |       |            | 83.33 |       | P        | 25.0 |

**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      | 1344.58     | 0.0001 | P        | 4.0 |
| 2 | <input type="checkbox"/> | 0.100    | 0.086      | 2594.82     | 0.0002 | P        | 6.3 |
| 3 | <input type="checkbox"/> | 1.000    | 0.975      | 15712.72    | 0.0012 | P        | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 49.295     | 730533.11   | 0.0565 | P        | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 123.544    | 1817573.37  | 0.1414 | P        | 0.6 |
| 6 | <input type="checkbox"/> | 250.000  | 246.607    | 3599767.96  | 0.2821 | P        | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 499.505    | 7146244.43  | 0.5713 | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.313   | 13674847.18 | 1.1450 | A        | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 4011.91     | 0.0004 | P        | 1.1 |

$$y = 0.0011 * x + 1.0454E-004$$

$$R = 1.0000$$

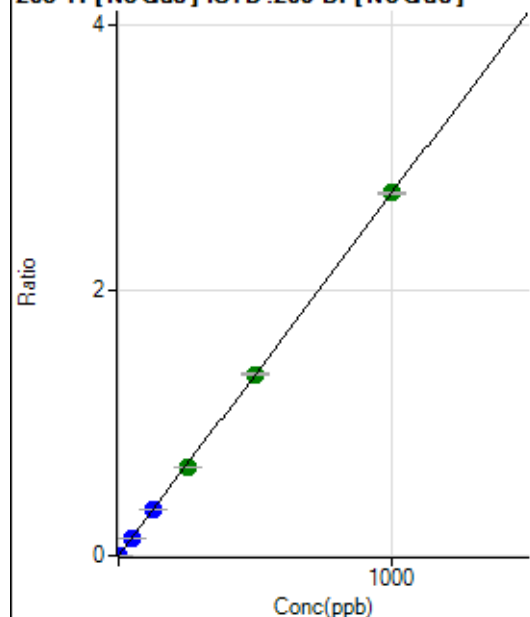
$$DL = 0.01093$$

$$BEC = 0.09142$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2758.76     | 0.0002 | P    | 11.0 |
| 2 | <input type="checkbox"/> | 0.100    | 0.076      | 5393.01     | 0.0004 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 1.000    | 0.979      | 37183.52    | 0.0029 | P    | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 49.311     | 1744045.94  | 0.1348 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 125.267    | 4399012.82  | 0.3421 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 244.265    | 8511163.56  | 0.6670 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 499.903    | 17072386.67 | 1.3647 | A    | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.483   | 32648800.03 | 2.7339 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 9667.81     | 0.0009 | P    | 3.9  |

$$y = 0.0027 * x + 2.1452E-004$$

$$R = 1.0000$$

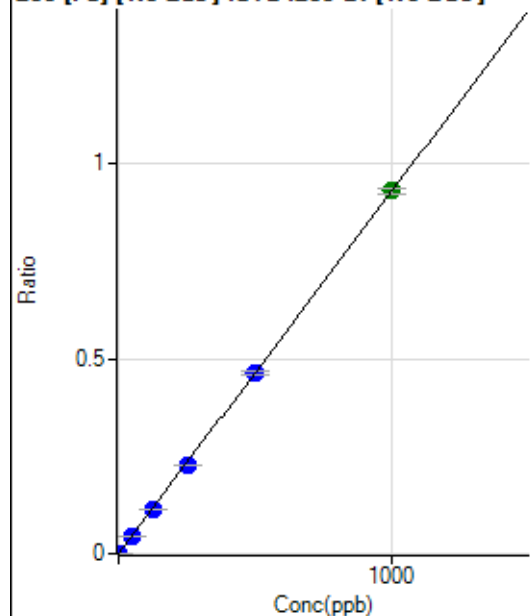
$$DL = 0.02604$$

$$BEC = 0.07859$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1781.67     | 0.0001 | P    | 26.8 |
| 2 | <input type="checkbox"/> | 0.100    | 0.063      | 2529.94     | 0.0002 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 1.000    | 0.908      | 12635.95    | 0.0010 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 50.000   | 49.464     | 595534.49   | 0.0460 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 123.583    | 1476084.59  | 0.1148 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 244.758    | 2899885.51  | 0.2272 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 499.126    | 5795226.34  | 0.4633 | P    | 1.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.952   | 11103894.93 | 0.9298 | A    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 26796.05    | 0.0026 | P    | 1.5  |

$$y = 9.2787E-004 * x + 1.3857E-004$$

$$R = 1.0000$$

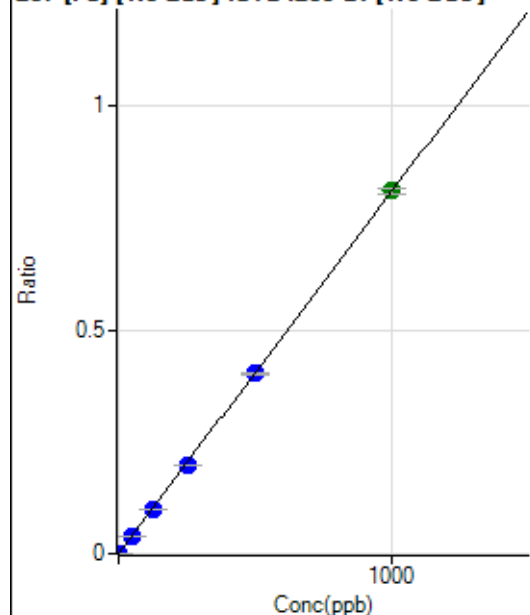
$$DL = 0.1203$$

$$BEC = 0.1493$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1627.94    | 0.0001 | P    | 25.4 |
| 2 | <input type="checkbox"/> | 0.100    | 0.062      | 2261.37    | 0.0002 | P    | 7.5  |
| 3 | <input type="checkbox"/> | 1.000    | 0.945      | 11460.82   | 0.0009 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 48.570     | 508910.35  | 0.0393 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 122.911    | 1277454.45 | 0.0994 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 243.455    | 2509889.84 | 0.1967 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 497.764    | 5028725.00 | 0.4020 | P    | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.087   | 9672674.41 | 0.8100 | A    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 23541.68   | 0.0023 | P    | 2.8  |

$$y = 8.0734\text{E-}004 * x + 1.2661\text{E-}004$$

$$R = 1.0000$$

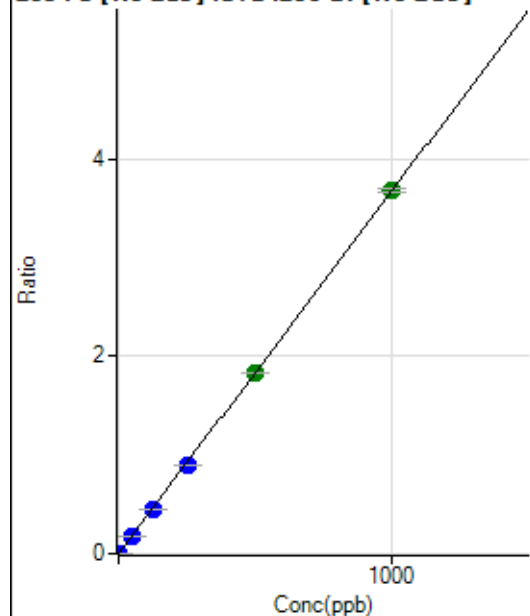
$$DL = 0.1195$$

$$BEC = 0.1568$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct                | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|-------------------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 6613.86     | 0.0005 | P    | 26.6 |
| 2 | <input checked="" type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/>            | 1.000    | 0.928      | 50480.97    | 0.0039 | P    | 0.2  |
| 4 | <input type="checkbox"/>            | 50.000   | 49.164     | 2340225.28  | 0.1809 | P    | 0.9  |
| 5 | <input type="checkbox"/>            | 125.000  | 123.708    | 5842317.06  | 0.4544 | P    | 0.1  |
| 6 | <input type="checkbox"/>            | 250.000  | 246.062    | 11527627.05 | 0.9033 | P    | 0.3  |
| 7 | <input type="checkbox"/>            | 500.000  | 498.988    | 22909066.54 | 1.8313 | A    | 0.7  |
| 8 | <input type="checkbox"/>            | 1000.000 | 1001.694   | 43897100.17 | 3.6758 | A    | 1.0  |
| 9 | <input type="checkbox"/>            |          |            | 105467.41   | 0.0102 | P    | 0.6  |

$$y = 0.0037 * x + 5.1439\text{E-}004$$

$$R = 1.0000$$

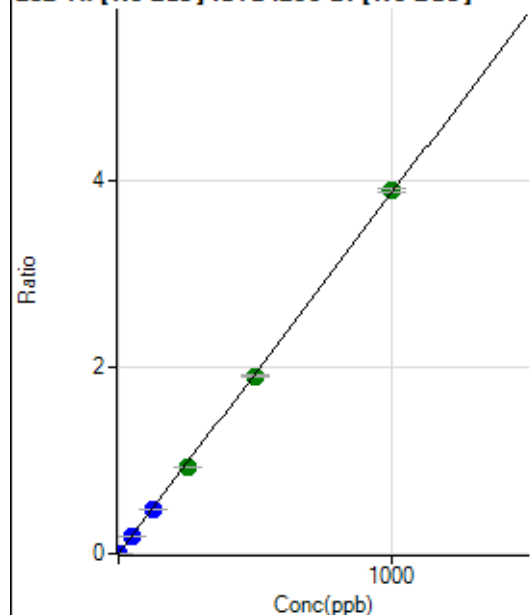
$$DL = 0.1117$$

$$BEC = 0.1402$$

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. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2563.29     | 0.0002 | P    | 3.7 |
| 2 | <input type="checkbox"/> | 0.100    | 0.073      | 6144.21     | 0.0005 | P    | 3.3 |
| 3 | <input type="checkbox"/> | 1.000    | 0.840      | 44296.43    | 0.0034 | P    | 2.4 |
| 4 | <input type="checkbox"/> | 50.000   | 46.743     | 2333792.72  | 0.1804 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 120.548    | 5977575.08  | 0.4649 | P    | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 239.433    | 11781883.94 | 0.9232 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 500.000  | 493.344    | 23794376.69 | 1.9021 | A    | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 1006.689   | 46347367.70 | 3.8811 | A    | 1.2 |
| 9 | <input type="checkbox"/> |          |            | 8447.44     | 0.0008 | P    | 3.9 |

$$y = 0.0039 * x + 1.9928E-004$$

$$R = 0.9999$$

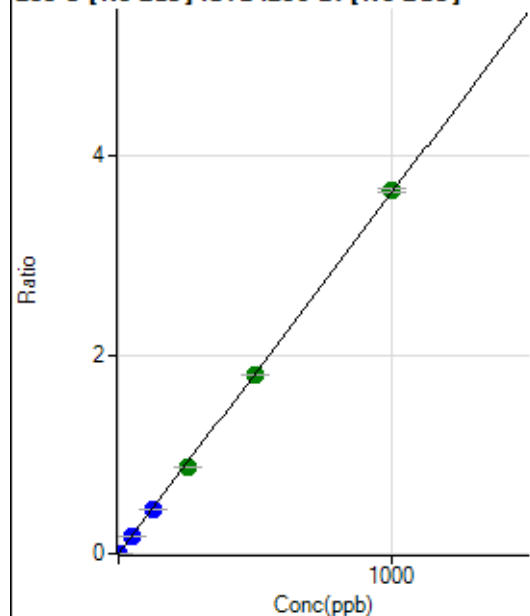
$$DL = 0.005687$$

$$BEC = 0.05169$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3709.04     | 0.0003 | P    | 5.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.082      | 7510.83     | 0.0006 | P    | 1.6 |
| 3 | <input type="checkbox"/> | 1.000    | 0.906      | 46108.94    | 0.0036 | P    | 1.5 |
| 4 | <input type="checkbox"/> | 50.000   | 47.612     | 2239861.14  | 0.1731 | P    | 0.8 |
| 5 | <input type="checkbox"/> | 125.000  | 121.924    | 5694706.85  | 0.4429 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 240.519    | 11146716.83 | 0.8735 | A    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 495.311    | 22497494.77 | 1.7985 | A    | 0.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 1005.219   | 43583285.69 | 3.6496 | A    | 1.2 |
| 9 | <input type="checkbox"/> |          |            | 6802.08     | 0.0007 | P    | 4.1 |

$$y = 0.0036 * x + 2.8838E-004$$

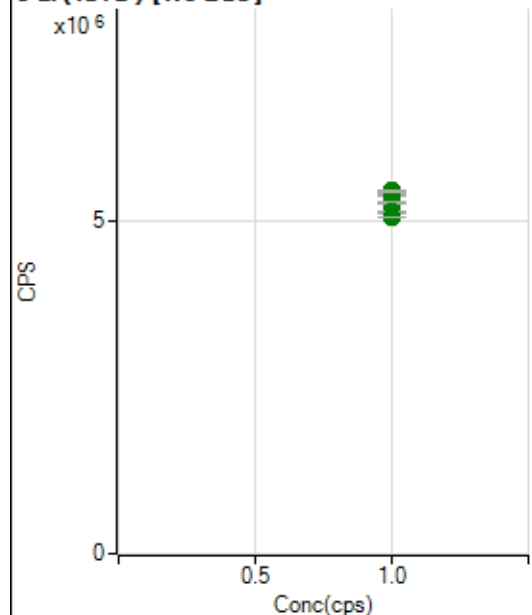
$$R = 0.9999$$

$$DL = 0.0127$$

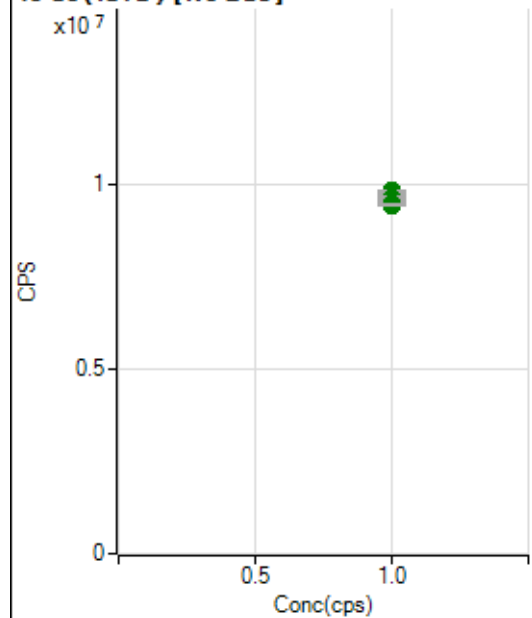
$$BEC = 0.07943$$

Weight: &lt;None&gt;

Min Conc: 0

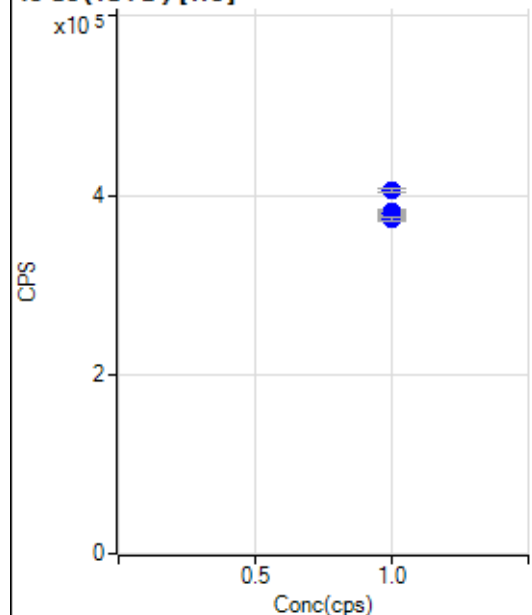
**6 Li (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5419592.76 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5386954.02 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5426642.84 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5434216.59 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5465694.15 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5306089.37 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5293055.34 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5153157.18 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5073196.80 |       | A        | 0.2 |

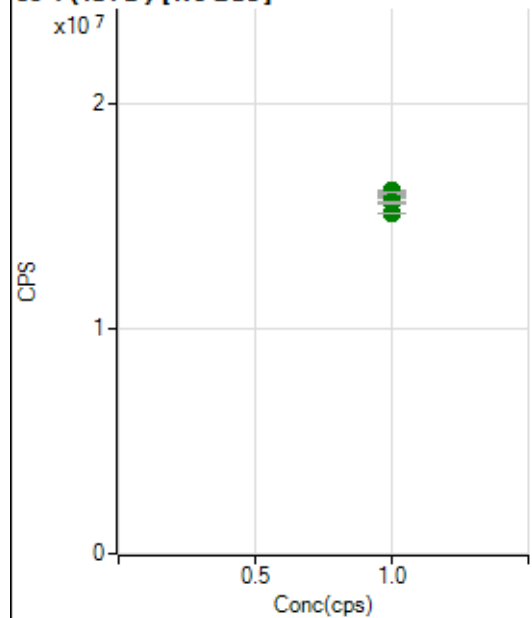
**45 Sc (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9654527.39 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9730869.66 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9784369.58 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9844979.99 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9832681.73 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9603333.46 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9677511.07 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9481339.36 |       | A        | 1.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9462985.11 |       | A        | 0.2 |

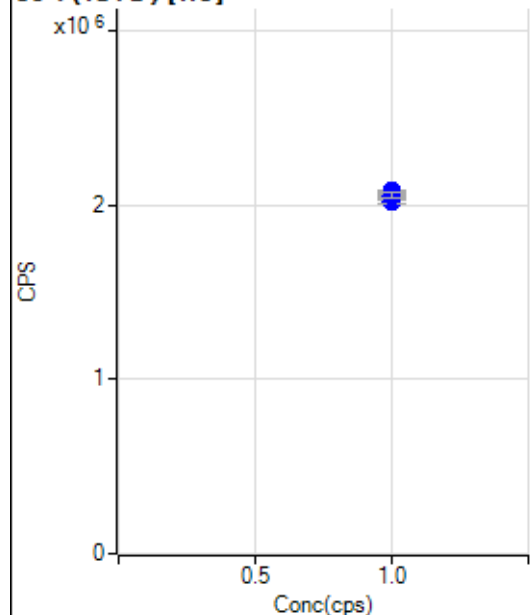


**45 Sc (ISTD) [He]**

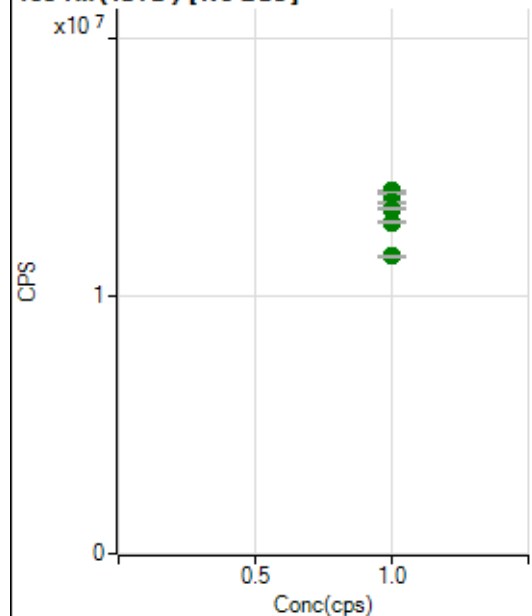
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 378504.01 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 382517.42 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 381353.45 |       | P        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 379341.11 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 377449.54 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 374577.04 |       | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 374563.14 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 373028.51 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 404795.62 |       | P        | 0.9 |

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

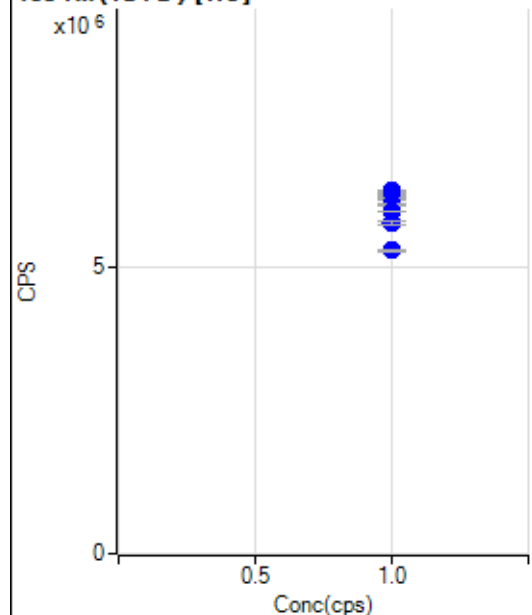
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15836366.15 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 15954188.51 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 15953898.24 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 16099011.15 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 16106045.04 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15870247.82 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 16030931.43 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 15609874.77 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 15116603.11 |       | A        | 0.3 |

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

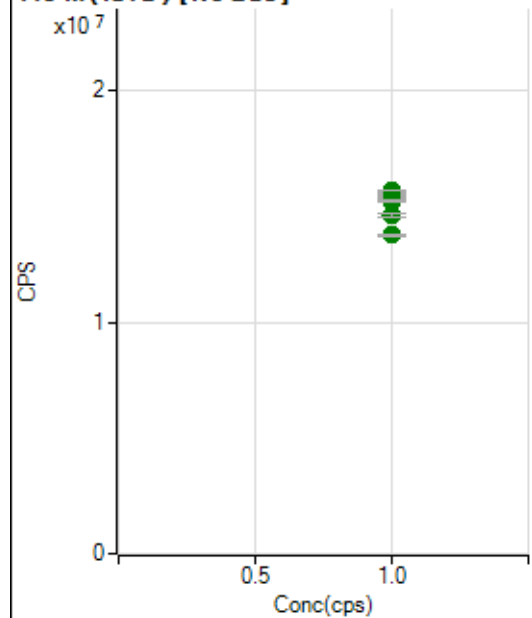
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2053513.32 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2082893.18 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2076611.84 |       | P        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2062720.90 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2060408.34 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2047192.21 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2030438.25 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2022456.20 |       | P        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2058356.53 |       | P        | 1.3 |

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

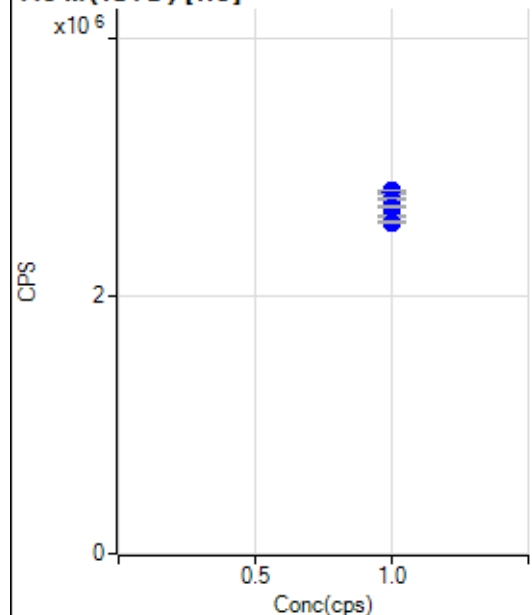
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14019929.48 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14064236.77 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14104455.52 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14051430.70 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13998444.41 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13645403.61 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13405258.20 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12865033.79 |       | A        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 11571969.01 |       | A        | 0.6 |

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

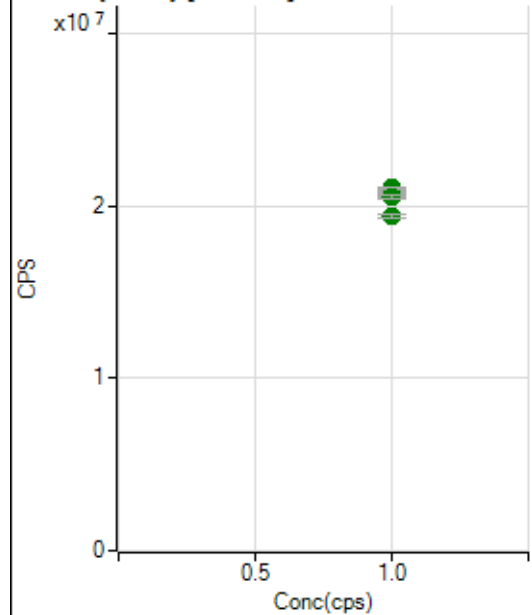
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6268424.63 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6323016.16 |       | P        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6301179.00 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6245730.95 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6198447.82 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6088673.52 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5960094.63 |       | P        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5763909.50 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5279799.68 |       | P        | 0.7 |

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

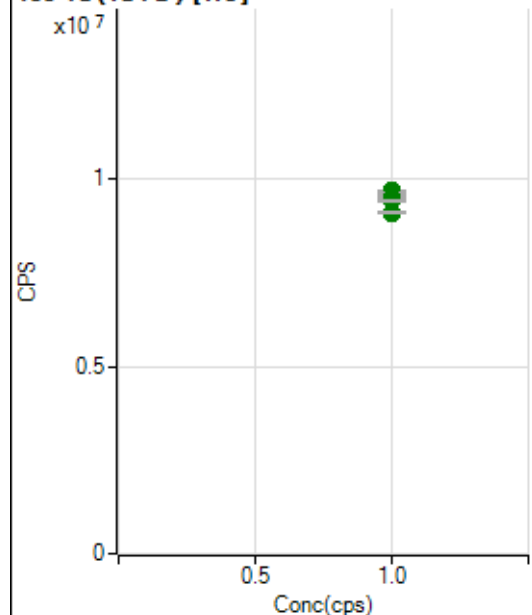
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 15366198.93 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 15509556.56 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 15660744.66 |       | A        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15637190.91 |       | A        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15682343.83 |       | A        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15250355.96 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15267982.33 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14636981.74 |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13775826.20 |       | A        | 0.4 |

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

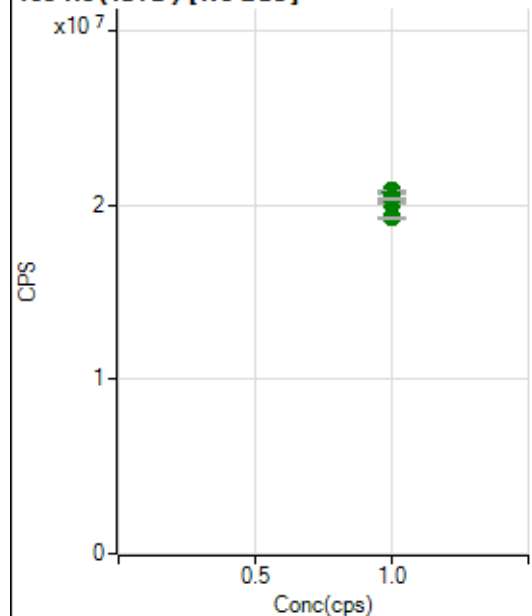
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2805215.96 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2817462.19 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2815512.89 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2795326.89 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2809437.76 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2753817.15 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2693493.20 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2620562.77 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2574772.13 |       | P        | 1.0 |

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

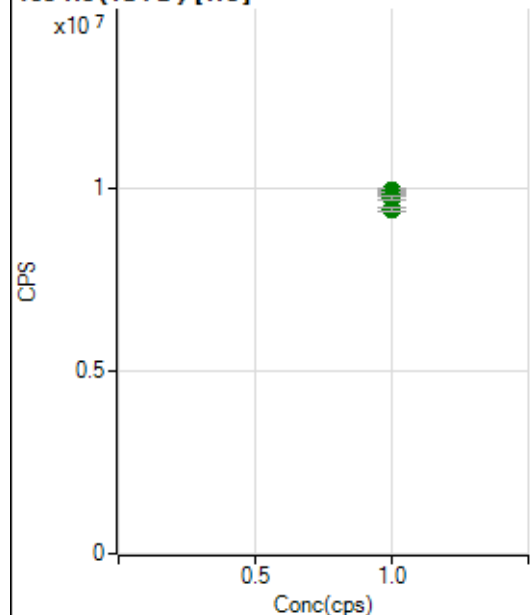
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 20635995.80 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 20570895.94 |       | A        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 20743979.69 |       | A        | 0.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 20895049.96 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 21068793.43 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 20919295.11 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 21009979.97 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 20574766.64 |       | A        | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 19395024.71 |       | A        | 1.1 |

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

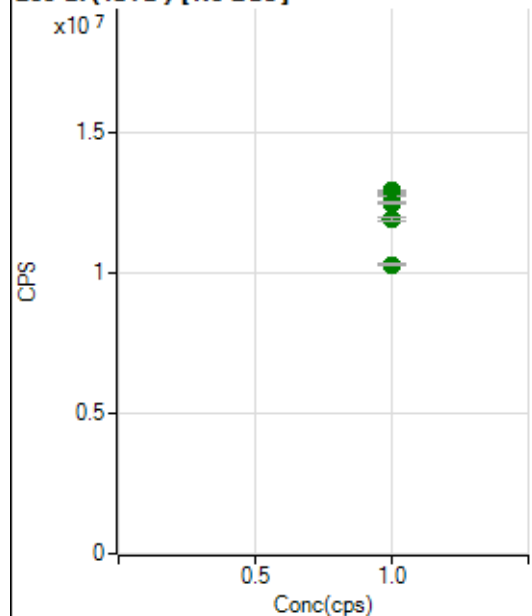
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9560714.02 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9542371.87 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9664358.81 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9646676.32 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9692286.59 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9656185.62 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9528290.13 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9435627.50 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9105208.41 |       | A        | 0.6 |

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

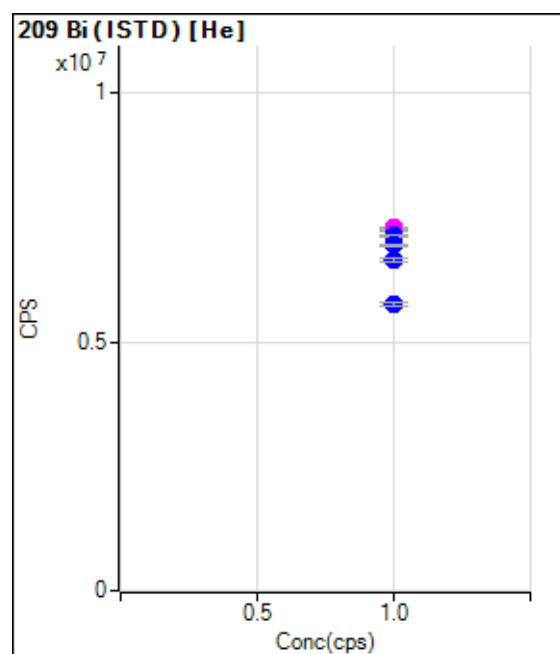
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 20106859.65 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 20380314.52 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 20399116.08 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 20691544.91 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 20838054.11 |       | A        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 20740257.06 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 20784380.67 |       | A        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 20407592.30 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 19281476.64 |       | A        | 0.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9911549.57 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9823024.30 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9886078.60 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9859612.42 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9945793.32 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9950068.88 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9878797.14 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9763119.78 |       | A        | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9427491.80 |       | A        | 0.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12862383.56 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12816551.06 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12882487.03 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12936717.45 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12857065.78 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12761344.53 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12509452.45 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11942616.91 |       | A        | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 10308179.50 |       | A        | 0.7 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7250527.32 |       | M        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7273849.82 |       | M        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7289548.92 |       | M        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7228135.66 |       | M        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7222471.21 |       | M        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7132300.03 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6935906.29 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6635179.21 |       | P        | 1.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5758243.25 |       | P        | 1.3 |

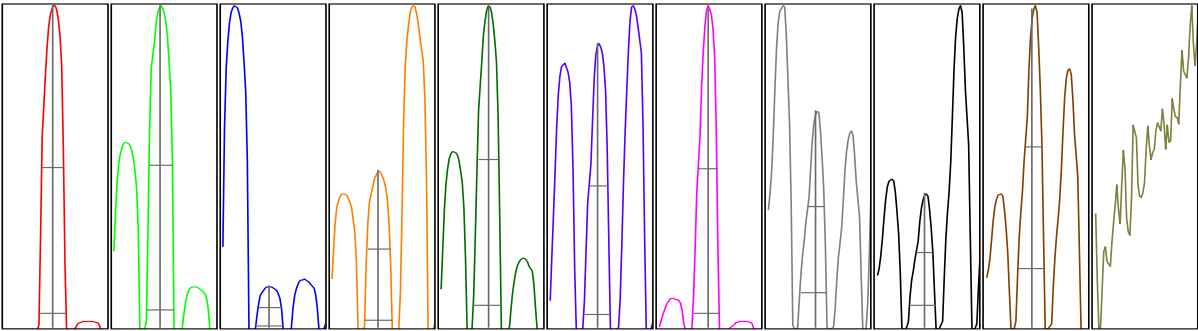
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7102919 MS .b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |                 |                  |                    |                |
|----------|-----------------|------------------|--------------------|----------------|
| Mass     | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
| 9        | 14971           | 0.55             | 5.00               |                |
| 24       | 144855          | 0.43             | 5.00               |                |
| 25       | 19256           | 0.43             | 5.00               |                |
| 26       | 22569           | 0.18             | 5.00               |                |
| 59       | 113810          | 0.15             | 5.00               |                |
| 113      | 15014           | 0.26             | 5.00               |                |
| 115      | 177692          | 0.35             | 5.00               |                |
| 206      | 43723           | 0.44             | 5.00               |                |
| 207      | 42389           | 0.77             | 5.00               |                |
| 208      | 94242           | 0.71             | 5.00               |                |
| 220      | 89              | 2.10             |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 14871                | 14897                | 15045                | 15043                | 15002                |
| 24   | 144824               | 144525               | 145689               | 145195               | 144039               |
| 25   | 19184                | 19273                | 19295                | 19364                | 19162                |
| 26   | 22592                | 22591                | 22562                | 22596                | 22502                |
| 59   | 114032               | 113796               | 113650               | 113653               | 113920               |
| 113  | 14980                | 15001                | 15017                | 15079                | 14995                |
| 115  | 177734               | 176714               | 178366               | 177993               | 177655               |
| 206  | 43569                | 43568                | 44036                | 43751                | 43689                |
| 207  | 42058                | 42161                | 42766                | 42253                | 42707                |
| 208  | 93514                | 93662                | 95142                | 94342                | 94552                |
| 220  | 88                   | 86                   | 89                   | 90                   | 91                   |

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    | 25033          | 8.95             | 8.9 - 9.1          |                | 0.781                | 0.900                  |                        |
| 24   | 228407         | 23.90            | 23.9 - 24.1        |                | 0.788                | 0.900                  |                        |
| 25   | 30309          | 24.90            | 24.9 - 25.1        |                | 0.789                | 0.900                  |                        |
| 26   | 35416          | 25.90            | 25.9 - 26.1        |                | 0.788                | 0.900                  |                        |
| 59   | 189719         | 58.95            | 58.9 - 59.1        |                | 0.803                | 0.900                  |                        |
| 113  | 28078          | 112.95           | 112.9 - 113.1      |                | 0.767                | 0.900                  |                        |
| 115  | 333100         | 115.00           | 114.9 - 115.1      |                | 0.765                | 0.900                  |                        |
| 206  | 83018          | 205.95           | 205.9 - 206.1      |                | 0.764                | 0.900                  |                        |
| 207  | 75275          | 206.95           | 206.9 - 207.1      |                | 0.735                | 0.900                  |                        |
| 208  | 177127         | 207.90           | 207.9 - 208.1      |                | 0.754                | 0.900                  |                        |
| 220  |                |                  | -                  |                |                      |                        |                        |

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

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.4   | V    | Deflect       | 13.8  | V    |
| Extract 2     | -130.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

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

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 26335           | 0.63             |                    |
| 89   | 22594           | 0.78             |                    |
| 205  | 35820           | 0.62             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 26421                | 26151                | 26228                | 26573                | 26301                |
| 89   | 22783                | 22426                | 22629                | 22737                | 22397                |
| 205  | 36039                | 35463                | 35878                | 35943                | 35777                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.5   | V    | Deflect       | 1.8   | V    |
| Extract 2     | -145.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -65    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

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