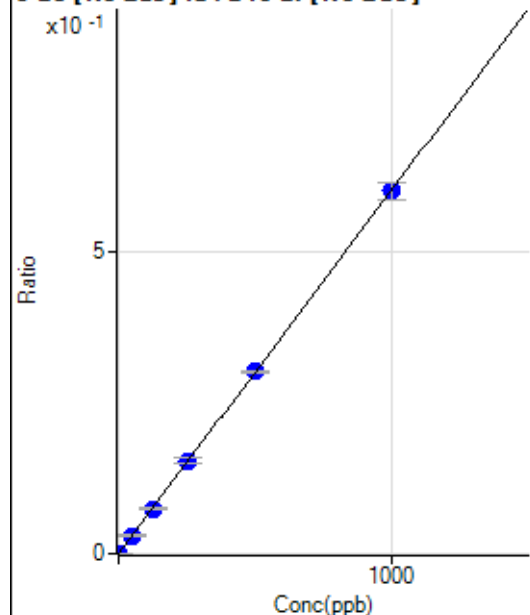


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020521MS.b\  
 Analysis File: P8020521MS.batch.bin  
 DA Date-Time: 2021-02-05 16:24:30  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2021-02-05 12:04:14 |
| 2     | 005CALS.d          | S02         | 2021-02-05 12:10:44 |
| 3     | 006CALS.d          | S03         | 2021-02-05 12:14:00 |
| 4     | 007CALS.d          | S04         | 2021-02-05 12:17:12 |
| 5     | 008CALS.d          | S05         | 2021-02-05 12:20:24 |
| 6     | 009CALS.d          | S06         | 2021-02-05 12:23:27 |
| 7     | 010CALS.d          | S07         | 2021-02-05 12:26:27 |
| 8     | 011CALS.d          | S08         | 2021-02-05 12:29:25 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|-----------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.32     | 0.0001 | P       | 9.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.983      | 578.57    | 0.0007 | P       | 8.9 |
| 3 | <input type="checkbox"/> | 50.000   | 49.752     | 26929.16  | 0.0299 | P       | 2.3 |
| 4 | <input type="checkbox"/> | 125.000  | 124.179    | 66497.52  | 0.0746 | P       | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 255.708    | 133485.25 | 0.1535 | P       | 6.9 |
| 6 | <input type="checkbox"/> | 500.000  | 500.354    | 268763.70 | 0.3003 | P       | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.511    | 565793.19 | 0.5993 | P       | 5.0 |
| 8 | <input type="checkbox"/> |          |            | 349.94    | 0.0004 | P       | 7.7 |

$$y = 6.0009\text{E-}004 * x + 7.9952\text{E-}005$$

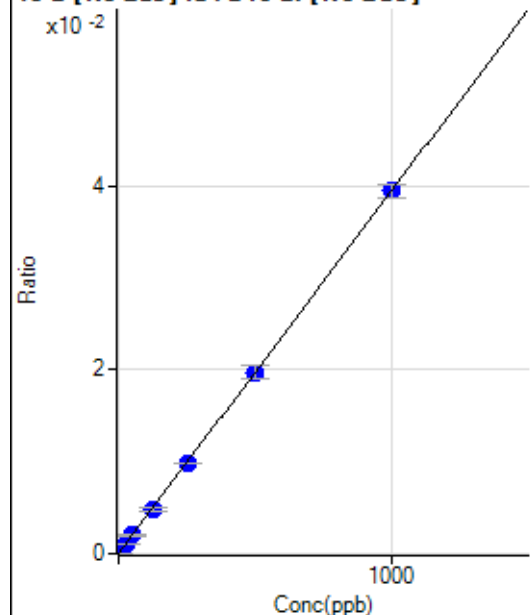
$$R = 1.0000$$

$$DL = 0.03621$$

$$BEC = 0.1332$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 24.66    | 0.0000 | P       | 23.8 |
| 2 | <input type="checkbox"/> | 25.000   | 24.263     | 851.19   | 0.0010 | P       | 5.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.347     | 1813.76  | 0.0020 | P       | 6.6  |
| 4 | <input type="checkbox"/> | 125.000  | 122.703    | 4344.46  | 0.0049 | P       | 8.7  |
| 5 | <input type="checkbox"/> | 250.000  | 250.309    | 8638.84  | 0.0099 | P       | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 500.182    | 17690.49 | 0.0198 | P       | 7.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.120   | 37359.86 | 0.0395 | P       | 3.8  |
| 8 | <input type="checkbox"/> |          |            | 6258.78  | 0.0065 | P       | 10.8 |

$$y = 3.9460\text{E-}005 * x + 2.8355\text{E-}005$$

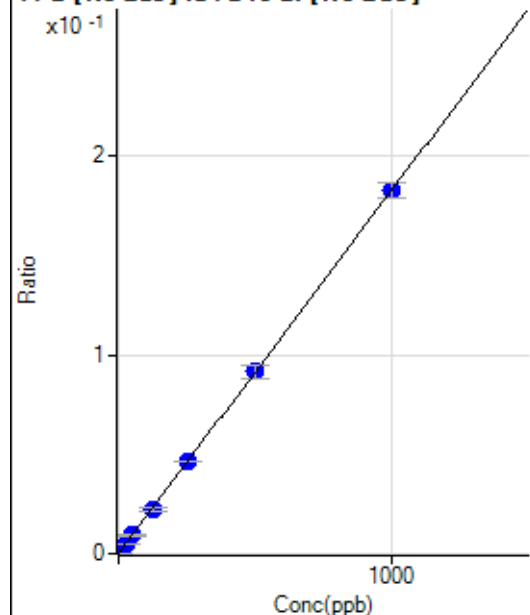
$$R = 1.0000$$

$$DL = 0.5136$$

$$BEC = 0.7186$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 120.64    | 0.0001 | P       | 19.0 |
| 2 | <input type="checkbox"/> | 25.000   | 25.578     | 4152.45   | 0.0048 | P       | 6.2  |
| 3 | <input type="checkbox"/> | 50.000   | 49.743     | 8299.39   | 0.0092 | P       | 4.6  |
| 4 | <input type="checkbox"/> | 125.000  | 121.533    | 19916.22  | 0.0223 | P       | 7.2  |
| 5 | <input type="checkbox"/> | 250.000  | 253.560    | 40518.31  | 0.0464 | P       | 2.0  |
| 6 | <input type="checkbox"/> | 500.000  | 501.167    | 82020.33  | 0.0916 | P       | 6.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.958    | 172629.50 | 0.1825 | P       | 4.4  |
| 8 | <input type="checkbox"/> |          |            | 28132.65  | 0.0294 | P       | 10.1 |

$$y = 1.8258\text{E-}004 * x + 1.3883\text{E-}004$$

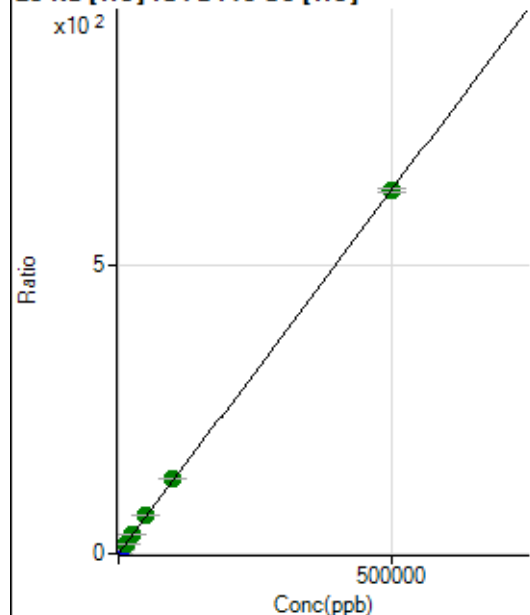
$$R = 1.0000$$

$$DL = 0.4336$$

$$BEC = 0.7604$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13017.24    | 0.2031   | P       | 0.3 |
| 2 | <input type="checkbox"/> | 500.000   | 508.085    | 54895.40    | 0.8425   | P       | 2.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5315.868   | 458705.87   | 6.8927   | P       | 0.9 |
| 4 | <input type="checkbox"/> | 12500.000 | 13107.995  | 1119683.24  | 16.6984  | A       | 1.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 25550.321  | 2157920.86  | 32.3560  | A       | 1.7 |
| 6 | <input type="checkbox"/> | 50000.000 | 52170.365  | 4267728.05  | 65.8550  | A       | 1.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 103063.87  | 8566765.90  | 129.9000 | A       | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 499124.30  | 42882796.79 | 628.3074 | A       | 1.0 |

$$y = 0.0013 * x + 0.2031$$

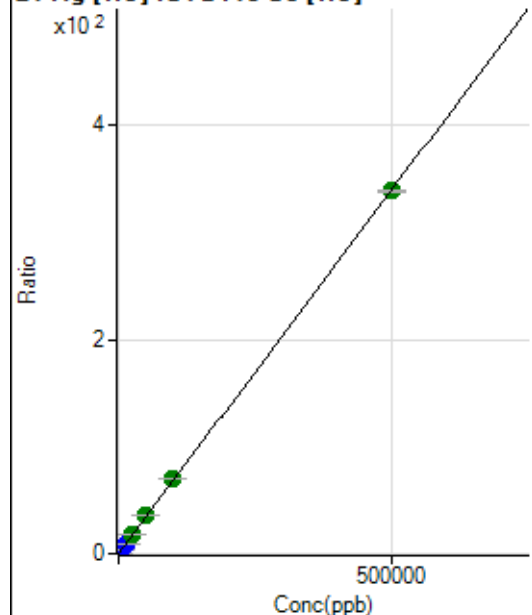
$$R = 1.0000$$

$$DL = 1.242$$

$$BEC = 161.4$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 294.45      | 0.0046   | P       | 23.3 |
| 2 | <input type="checkbox"/> | 500.000   | 507.289    | 22765.60    | 0.3494   | P       | 1.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 5344.567   | 242030.81   | 3.6369   | P       | 1.0  |
| 4 | <input type="checkbox"/> | 12500.000 | 13430.091  | 612343.85   | 9.1319   | P       | 0.3  |
| 5 | <input type="checkbox"/> | 25000.000 | 25504.507  | 1156555.91  | 17.3380  | A       | 1.0  |
| 6 | <input type="checkbox"/> | 50000.000 | 52701.922  | 2321293.95  | 35.8219  | A       | 1.8  |
| 7 | <input type="checkbox"/> | 100000.00 | 103215.89  | 4626374.89  | 70.1521  | A       | 1.6  |
| 8 | <input type="checkbox"/> | 500000.00 | 499034.69  | 23148154.16 | 339.1584 | A       | 0.3  |

$$y = 6.7962E-004 * x + 0.0046$$

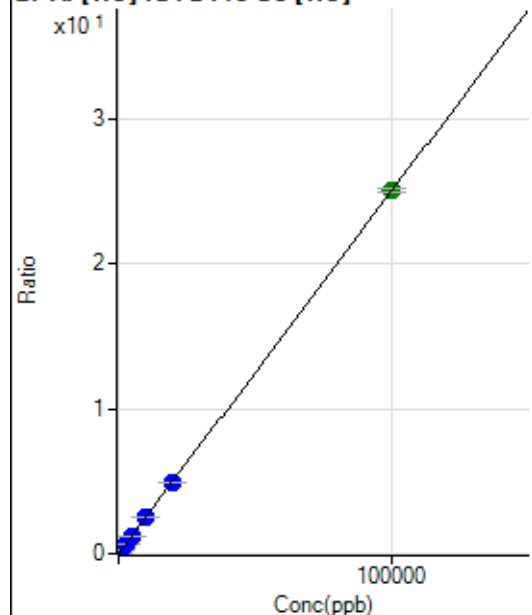
$$R = 1.0000$$

$$DL = 4.725$$

$$BEC = 6.763$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | De<br>t | RSD |
|---|--------------------------|-----------|------------|------------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 285.39     | 0.0045  | P       | 2.9 |
| 2 | <input type="checkbox"/> | 20.000    | 18.362     | 589.11     | 0.0090  | P       | 3.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 988.488    | 16737.92   | 0.2515  | P       | 0.5 |
| 4 | <input type="checkbox"/> | 2500.000  | 2496.461   | 42137.32   | 0.6284  | P       | 0.3 |
| 5 | <input type="checkbox"/> | 5000.000  | 4803.675   | 80375.73   | 1.2050  | P       | 0.4 |
| 6 | <input type="checkbox"/> | 10000.000 | 9892.045   | 160506.91  | 2.4768  | P       | 1.4 |
| 7 | <input type="checkbox"/> | 20000.000 | 19594.418  | 323259.40  | 4.9017  | P       | 0.8 |
| 8 | <input type="checkbox"/> | 100000.00 | 100101.93  | 1707877.74 | 25.0230 | A       | 1.1 |

$$y = 2.4993E-004 * x + 0.0045$$

$$R = 1.0000$$

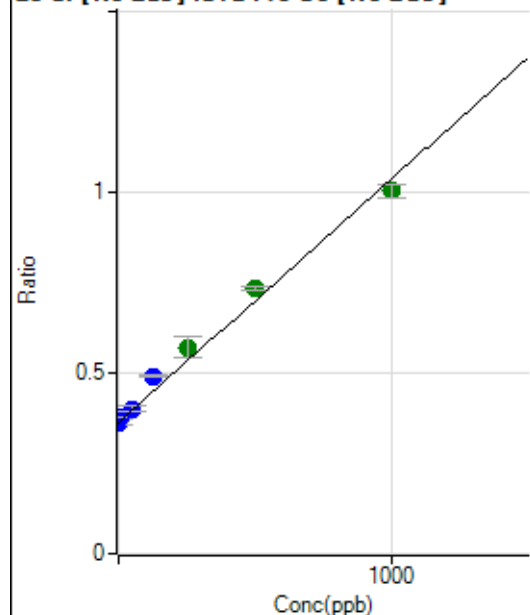
$$DL = 1.532$$

$$BEC = 17.82$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 589772.51  | 0.3640 | P       | 4.8 |
| 2 | <input type="checkbox"/> | 10.000   | 22.530     | 602690.82  | 0.3792 | P       | 0.8 |
| 3 | <input type="checkbox"/> | 50.000   | 56.331     | 676373.84  | 0.4020 | P       | 4.6 |
| 4 | <input type="checkbox"/> | 125.000  | 187.726    | 797115.35  | 0.4905 | P       | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 308.840    | 897962.81  | 0.5722 | A       | 9.6 |
| 6 | <input type="checkbox"/> | 500.000  | 553.126    | 1215753.41 | 0.7369 | A       | 1.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 950.444    | 1756400.00 | 1.0047 | A       | 4.0 |
| 8 | <input type="checkbox"/> |          |            | 829956.11  | 0.4767 | P       | 2.5 |

$$y = 6.7414E-004 * x + 0.3640$$

$$R = 0.9945$$

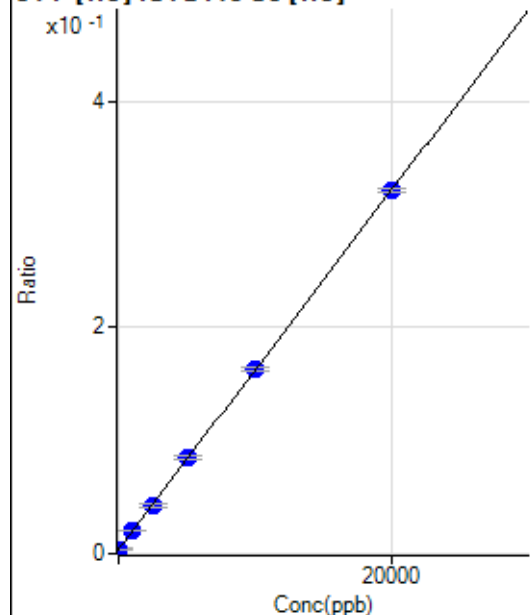
$$DL = 77.1$$

$$BEC = 539.9$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS      | Ratio  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 18.315     | 255.57   | 0.0040 | P       | 26.3 |
| 2 | <input type="checkbox"/> | 0.000     | -18.315    | 222.23   | 0.0034 | P       | 14.2 |
| 3 | <input type="checkbox"/> | 1000.000  | 1030.998   | 1336.21  | 0.0201 | P       | 4.4  |
| 4 | <input type="checkbox"/> | 2500.000  | 2443.020   | 2850.36  | 0.0425 | P       | 4.4  |
| 5 | <input type="checkbox"/> | 5000.000  | 5069.656   | 5617.91  | 0.0842 | P       | 4.1  |
| 6 | <input type="checkbox"/> | 10000.000 | 10060.423  | 10598.58 | 0.1635 | P       | 1.7  |
| 7 | <input type="checkbox"/> | 20000.000 | 19957.947  | 21157.59 | 0.3208 | P       | 1.0  |
| 8 | <input type="checkbox"/> |           |            | 227.79   | 0.0033 | P       | 2.5  |

$$y = 1.5888E-005 * x + 0.0037$$

$$R = 1.0000$$

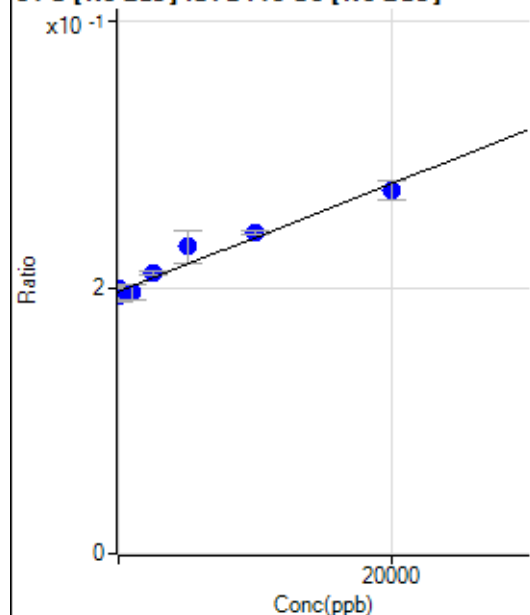
$$DL = 144.7$$

$$BEC = 232.6$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | -754.852   | 314496.05 | 0.1941 | P       | 4.4  |
| 2 | <input type="checkbox"/> | 0.000     | 754.852    | 318202.21 | 0.2002 | P       | 1.0  |
| 3 | <input type="checkbox"/> | 1000.000  | 29.385     | 331774.46 | 0.1973 | P       | 5.9  |
| 4 | <input type="checkbox"/> | 2500.000  | 3426.680   | 342943.48 | 0.2110 | P       | 0.9  |
| 5 | <input type="checkbox"/> | 5000.000  | 8381.088   | 362538.46 | 0.2312 | P       | 10.5 |
| 6 | <input type="checkbox"/> | 10000.000 | 10908.392  | 398295.86 | 0.2414 | P       | 1.3  |
| 7 | <input type="checkbox"/> | 20000.000 | 18633.228  | 476665.32 | 0.2728 | P       | 5.2  |
| 8 | <input type="checkbox"/> |           |            | 283509.45 | 0.1629 | P       | 0.8  |

$$y = 4.0590\text{E-}006 * x + 0.1971$$

$$R = 0.9749$$

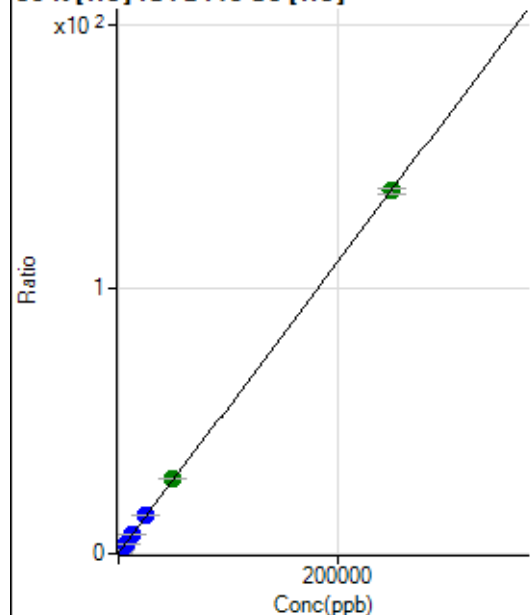
$$DL = 3909$$

$$BEC = 4.857\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio    | De<br>t | RSD |
|---|--------------------------|-----------|------------|------------|----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 17880.90   | 0.2790   | P       | 2.2 |
| 2 | <input type="checkbox"/> | 500.000   | 505.674    | 36260.03   | 0.5564   | P       | 1.8 |
| 3 | <input type="checkbox"/> | 2500.000  | 2629.915   | 114583.81  | 1.7218   | P       | 0.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6607.718   | 261790.76  | 3.9041   | P       | 0.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 12839.661  | 488462.73  | 7.3231   | P       | 0.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 26441.890  | 958198.05  | 14.7857  | P       | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 51289.336  | 1874055.34 | 28.4176  | A       | 1.6 |
| 8 | <input type="checkbox"/> | 250000.00 | 249570.70  | 9364352.03 | 137.2001 | A       | 1.5 |

$$y = 5.4863\text{E-}004 * x + 0.2790$$

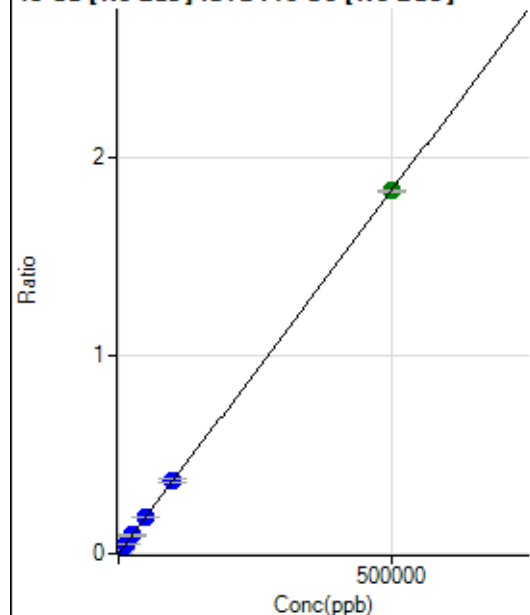
$$R = 1.0000$$

$$DL = 33.99$$

$$BEC = 508.5$$

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  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 222.48     | 0.0001 | P       | 12.1 |
| 2 | <input type="checkbox"/> | 500.000   | 486.707    | 3054.53    | 0.0019 | P       | 3.5  |
| 3 | <input type="checkbox"/> | 5000.000  | 4888.174   | 30383.11   | 0.0181 | P       | 5.8  |
| 4 | <input type="checkbox"/> | 12500.000 | 12477.700  | 74581.02   | 0.0459 | P       | 1.0  |
| 5 | <input type="checkbox"/> | 25000.000 | 26080.547  | 150228.25  | 0.0958 | P       | 10.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 50032.149  | 302949.46  | 0.1836 | P       | 1.1  |
| 7 | <input type="checkbox"/> | 100000.00 | 100812.06  | 646396.17  | 0.3698 | P       | 4.7  |
| 8 | <input type="checkbox"/> | 500000.00 | 499782.03  | 3190834.51 | 1.8330 | A       | 0.7  |

$$y = 3.6673\text{E-}006 * x + 1.3729\text{E-}004$$

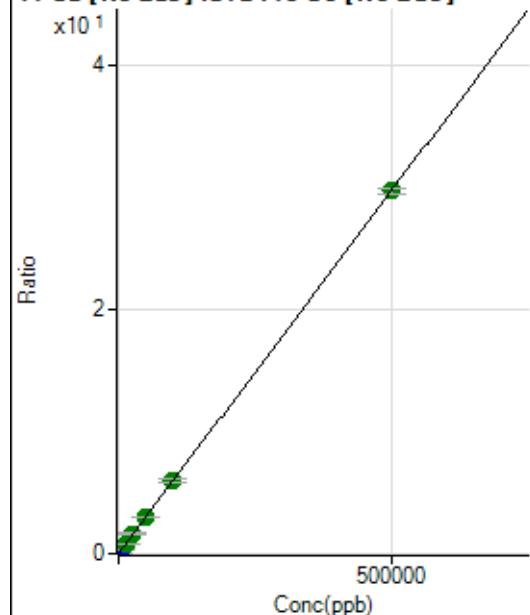
$$R = 1.0000$$

$$DL = 13.6$$

$$BEC = 37.44$$

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   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 12741.55    | 0.0079  | P       | 3.3  |
| 2 | <input type="checkbox"/> | 500.000   | 489.126    | 58757.82    | 0.0370  | P       | 1.5  |
| 3 | <input type="checkbox"/> | 5000.000  | 4940.427   | 507860.06   | 0.3019  | P       | 5.3  |
| 4 | <input type="checkbox"/> | 12500.000 | 12626.910  | 1233914.34  | 0.7593  | A       | 0.8  |
| 5 | <input type="checkbox"/> | 25000.000 | 26481.578  | 2483756.20  | 1.5839  | A       | 10.8 |
| 6 | <input type="checkbox"/> | 50000.000 | 49496.475  | 4872785.28  | 2.9536  | A       | 1.8  |
| 7 | <input type="checkbox"/> | 100000.00 | 100534.36  | 10473549.78 | 5.9911  | A       | 3.9  |
| 8 | <input type="checkbox"/> | 500000.00 | 499866.83  | 51797492.90 | 29.7573 | A       | 1.3  |

$$y = 5.9515\text{E-}005 * x + 0.0079$$

$$R = 1.0000$$

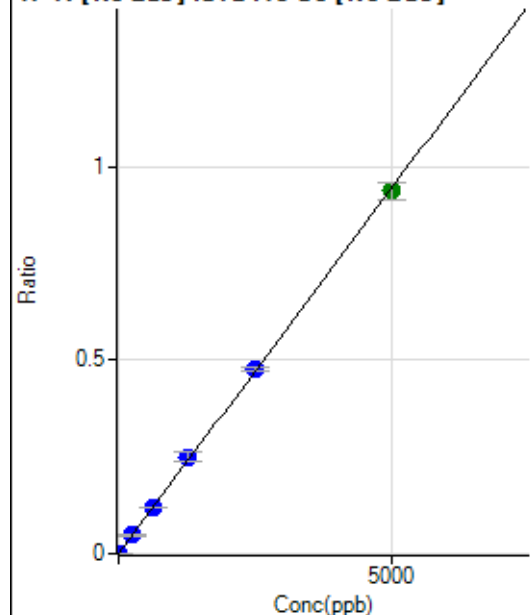
$$DL = 13.22$$

$$BEC = 132.1$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 233.34     | 0.0001 | P       | 24.1 |
| 2 | <input type="checkbox"/> | 5.000    | 5.225      | 1797.39    | 0.0011 | P       | 3.1  |
| 3 | <input type="checkbox"/> | 250.000  | 249.947    | 79562.60   | 0.0473 | P       | 5.3  |
| 4 | <input type="checkbox"/> | 625.000  | 633.734    | 194497.71  | 0.1197 | P       | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1327.321   | 392635.28  | 0.2505 | P       | 11.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2526.813   | 786598.57  | 0.4768 | P       | 2.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4966.174   | 1637814.99 | 0.9370 | A       | 4.5  |
| 8 | <input type="checkbox"/> |          |            | 1072.29    | 0.0006 | P       | 18.0 |

$$y = 1.8864\text{E-}004 * x + 1.4488\text{E-}004$$

$$R = 0.9998$$

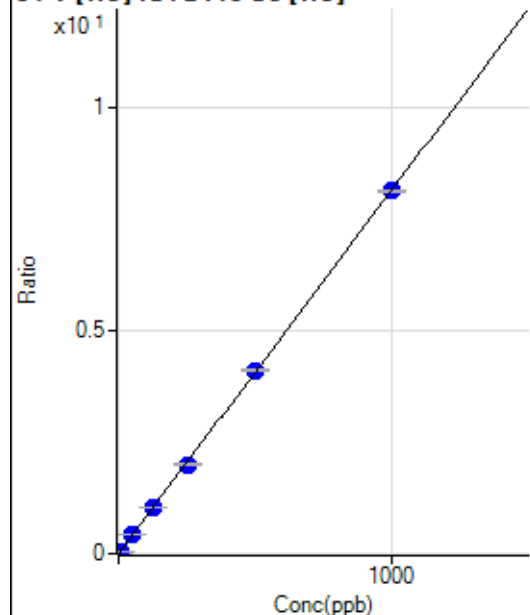
$$DL = 0.556$$

$$BEC = 0.768$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 24.44     | 0.0004 | P       | 55.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.189      | 2778.08   | 0.0426 | P       | 2.6  |
| 3 | <input type="checkbox"/> | 50.000   | 50.959     | 27641.16  | 0.4153 | P       | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 125.304    | 68443.80  | 1.0207 | P       | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 245.272    | 133239.04 | 1.9976 | P       | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 504.942    | 266505.22 | 4.1121 | P       | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.624    | 536322.86 | 8.1322 | P       | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 262.23    | 0.0038 | P       | 24.2 |

$$y = 0.0081 * x + 3.7971\text{E-}004$$

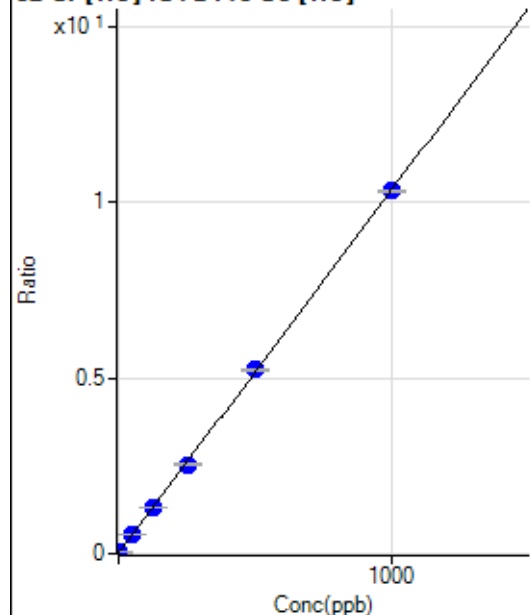
$$R = 1.0000$$

$$DL = 0.07764$$

$$BEC = 0.04663$$

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   | De<br>t | RSD |
|---|--------------------------|----------|------------|-----------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 600.02    | 0.0094  | P       | 6.0 |
| 2 | <input type="checkbox"/> | 2.000    | 2.036      | 1980.16   | 0.0304  | P       | 5.2 |
| 3 | <input type="checkbox"/> | 50.000   | 50.346     | 35227.85  | 0.5294  | P       | 1.6 |
| 4 | <input type="checkbox"/> | 125.000  | 126.104    | 87965.97  | 1.3118  | P       | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 244.460    | 169022.56 | 2.5343  | P       | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 506.818    | 339850.37 | 5.2440  | P       | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.820    | 680290.61 | 10.3154 | P       | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 4545.21   | 0.0666  | P       | 3.2 |

$$y = 0.0103 * x + 0.0094$$

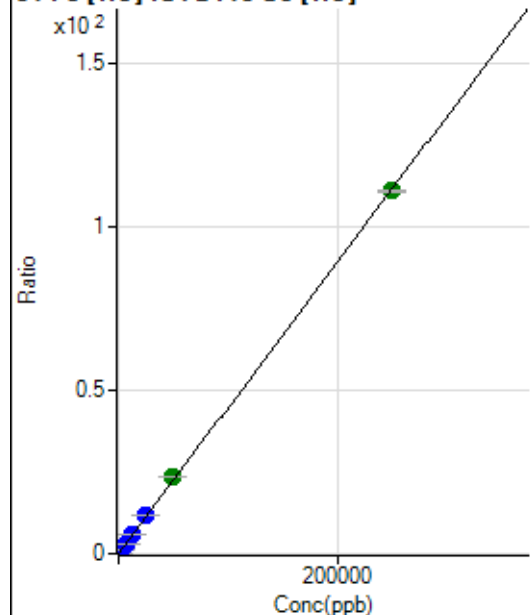
$$R = 0.9999$$

$$DL = 0.1641$$

$$BEC = 0.9068$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio    | De<br>t | RSD  |
|---|--------------------------|-----------|------------|------------|----------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 338.90     | 0.0053   | P       | 15.5 |
| 2 | <input type="checkbox"/> | 50.000    | 53.067     | 1885.34    | 0.0289   | P       | 8.0  |
| 3 | <input type="checkbox"/> | 2500.000  | 2697.889   | 80391.68   | 1.2080   | P       | 1.2  |
| 4 | <input type="checkbox"/> | 6250.000  | 6692.391   | 200405.14  | 2.9887   | P       | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12898.074  | 383843.35  | 5.7551   | P       | 1.5  |
| 6 | <input type="checkbox"/> | 25000.000 | 26541.365  | 767148.88  | 11.8371  | P       | 0.8  |
| 7 | <input type="checkbox"/> | 50000.000 | 52717.174  | 1550199.66 | 23.5059  | A       | 1.0  |
| 8 | <input type="checkbox"/> | 250000.00 | 249269.48  | 7584603.64 | 111.1263 | A       | 0.5  |

$$y = 4.4579E-004 * x + 0.0053$$

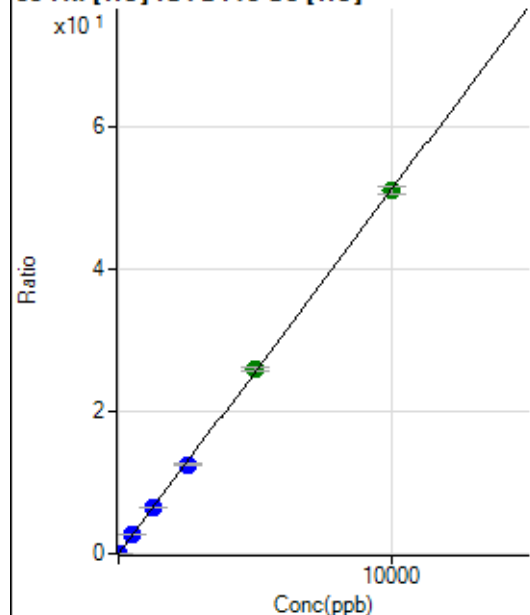
$$R = 0.9999$$

$$DL = 5.501$$

$$BEC = 11.87$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 58.89      | 0.0009  | P       | 42.7 |
| 2 | <input type="checkbox"/> | 1.000     | 0.873      | 351.12     | 0.0054  | P       | 2.6  |
| 3 | <input type="checkbox"/> | 500.000   | 507.976    | 173150.41  | 2.6018  | P       | 0.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1267.595   | 435263.88  | 6.4912  | P       | 0.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2453.105   | 837778.40  | 12.5611 | P       | 1.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5081.265   | 1686044.04 | 26.0176 | A       | 2.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9968.493   | 3365878.74 | 51.0408 | A       | 2.1  |
| 8 | <input type="checkbox"/> |           |            | 2832.53    | 0.0415  | P       | 7.6  |

$$y = 0.0051 * x + 9.1789E-004$$

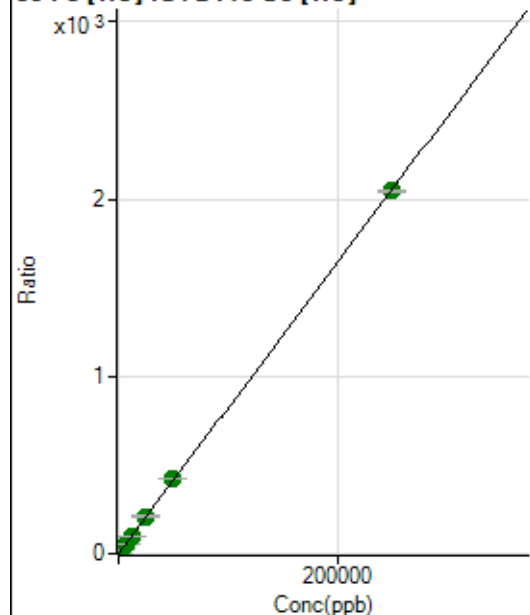
$$R = 0.9999$$

$$DL = 0.2298$$

$$BEC = 0.1793$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1494.55     | 0.0233    | P       | 1.2 |
| 2 | <input type="checkbox"/> | 50.000    | 51.944     | 29271.05    | 0.4492    | P       | 2.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2604.306   | 1422491.86  | 21.3752   | A       | 0.8 |
| 4 | <input type="checkbox"/> | 6250.000  | 6552.978   | 3604099.99  | 53.7492   | A       | 1.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 12521.694  | 6849108.14  | 102.6849  | A       | 0.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 25732.369  | 13673289.19 | 210.9953  | A       | 1.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 51618.958  | 27910433.96 | 423.2317  | A       | 1.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 249593.26  | 139667075.3 | 2,046.363 | A       | 0.6 |

$$y = 0.0082 * x + 0.0233$$

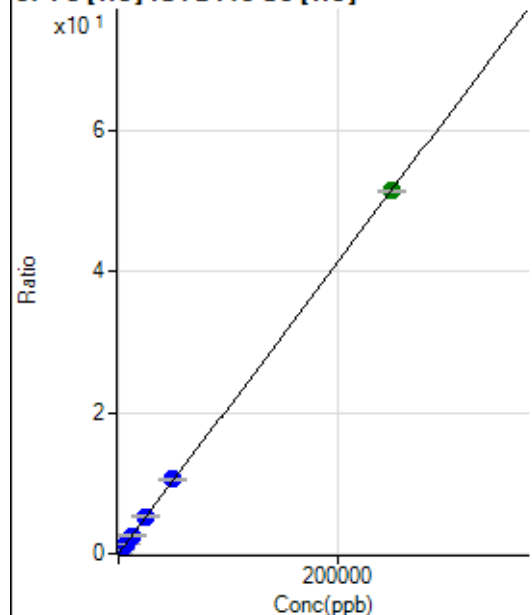
$$R = 1.0000$$

$$DL = 0.1066$$

$$BEC = 2.844$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 87.04      | 0.0014  | P       | 31.2 |
| 2 | <input type="checkbox"/> | 50.000    | 50.932     | 772.26     | 0.0119  | P       | 9.3  |
| 3 | <input type="checkbox"/> | 2500.000  | 2564.563   | 35299.38   | 0.5304  | P       | 1.1  |
| 4 | <input type="checkbox"/> | 6250.000  | 6417.788   | 88869.65   | 1.3253  | P       | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12560.135  | 172914.67  | 2.5924  | P       | 1.2  |
| 6 | <input type="checkbox"/> | 25000.000 | 25629.941  | 342707.63  | 5.2886  | P       | 1.7  |
| 7 | <input type="checkbox"/> | 50000.000 | 51331.028  | 698410.51  | 10.5906 | P       | 1.5  |
| 8 | <input type="checkbox"/> | 250000.00 | 249662.95  | 3515354.97 | 51.5051 | A       | 0.8  |

$$y = 2.0629E-004 * x + 0.0014$$

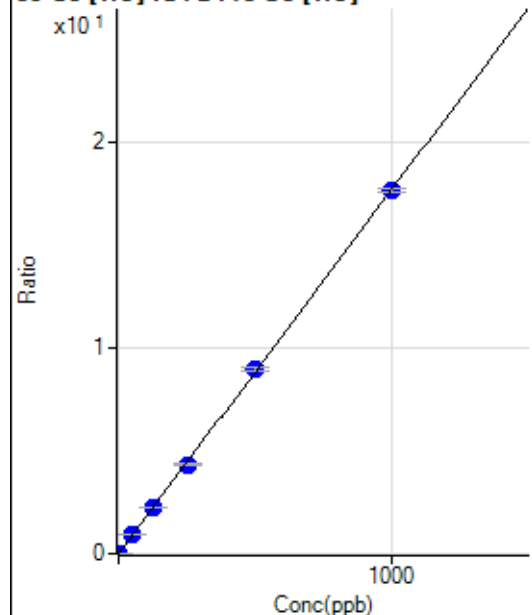
$$R = 1.0000$$

$$DL = 6.164$$

$$BEC = 6.578$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 66.67      | 0.0010  | P       | 17.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.986      | 1203.40    | 0.0185  | P       | 3.4  |
| 3 | <input type="checkbox"/> | 50.000   | 50.980     | 60025.85   | 0.9020  | P       | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 126.379    | 149827.83  | 2.2344  | P       | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 244.995    | 288839.24  | 4.3306  | P       | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.267    | 580983.79  | 8.9656  | P       | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.397    | 1162484.22 | 17.6272 | P       | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 1933.48    | 0.0283  | P       | 6.5  |

$$y = 0.0177 * x + 0.0010$$

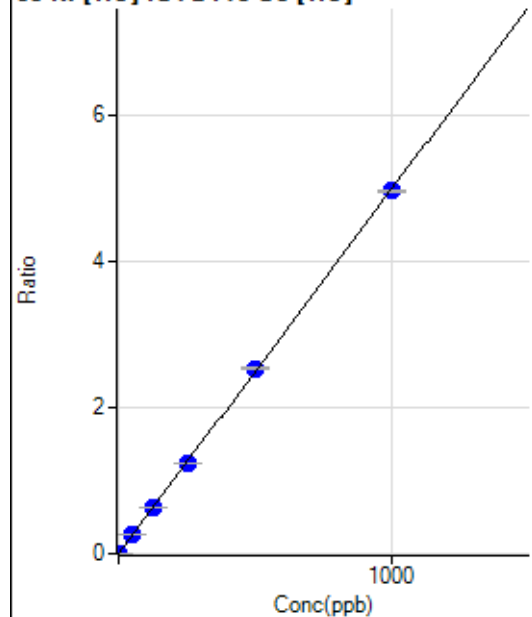
$$R = 0.9999$$

$$DL = 0.03171$$

$$BEC = 0.0589$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 43.33     | 0.0007 | P       | 33.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.008      | 371.12    | 0.0057 | P       | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 51.778     | 17199.35  | 0.2584 | P       | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 126.760    | 42360.69  | 0.6317 | P       | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 248.173    | 82449.40  | 1.2362 | P       | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 508.680    | 164146.43 | 2.5331 | P       | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.808    | 326986.63 | 4.9582 | P       | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 1478.98   | 0.0217 | P       | 2.2  |

$$y = 0.0050 * x + 6.7556E-004$$

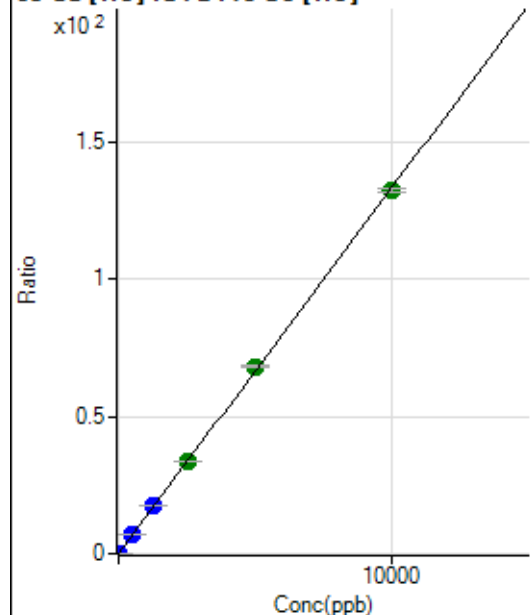
$$R = 0.9999$$

$$DL = 0.1356$$

$$BEC = 0.1357$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio    | De<br>t | RSD |
|---|--------------------------|-----------|------------|------------|----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 483.35     | 0.0075   | P       | 4.8 |
| 2 | <input type="checkbox"/> | 2.000     | 2.203      | 2401.33    | 0.0369   | P       | 3.8 |
| 3 | <input type="checkbox"/> | 500.000   | 520.997    | 461854.91  | 6.9402   | P       | 1.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1291.435   | 1152823.04 | 17.1921  | P       | 0.2 |
| 5 | <input type="checkbox"/> | 2500.000  | 2526.130   | 2242440.49 | 33.6216  | A       | 1.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5122.732   | 4417954.17 | 68.1733  | A       | 1.3 |
| 7 | <input type="checkbox"/> | 10000.000 | 9925.873   | 8711033.69 | 132.0865 | A       | 1.0 |
| 8 | <input type="checkbox"/> |           |            | 7372.00    | 0.1080   | P       | 7.9 |

$$y = 0.0133 * x + 0.0075$$

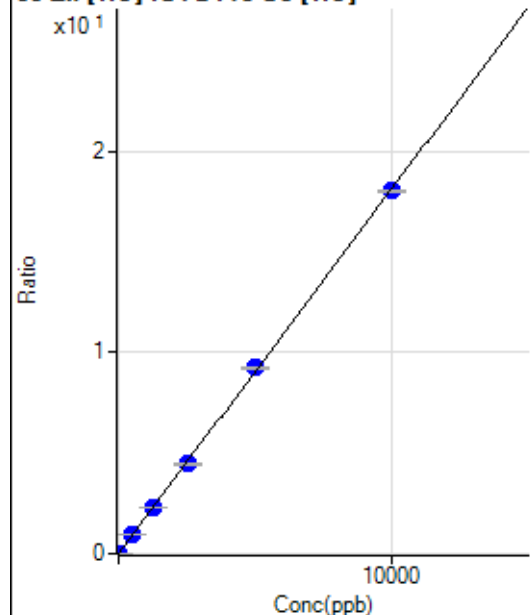
$$R = 0.9999$$

$$DL = 0.08212$$

$$BEC = 0.567$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 124.45     | 0.0019  | P       | 3.0  |
| 2 | <input type="checkbox"/> | 2.000     | 1.851      | 344.45     | 0.0053  | P       | 10.3 |
| 3 | <input type="checkbox"/> | 500.000   | 510.300    | 61584.23   | 0.9254  | P       | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1260.980   | 153143.30  | 2.2838  | P       | 0.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2471.391   | 298410.95  | 4.4742  | P       | 1.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5100.439   | 598262.06  | 9.2318  | P       | 1.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9955.045   | 1188176.44 | 18.0167 | P       | 0.8  |
| 8 | <input type="checkbox"/> |           |            | 1609.00    | 0.0236  | P       | 13.2 |

$$y = 0.0018 * x + 0.0019$$

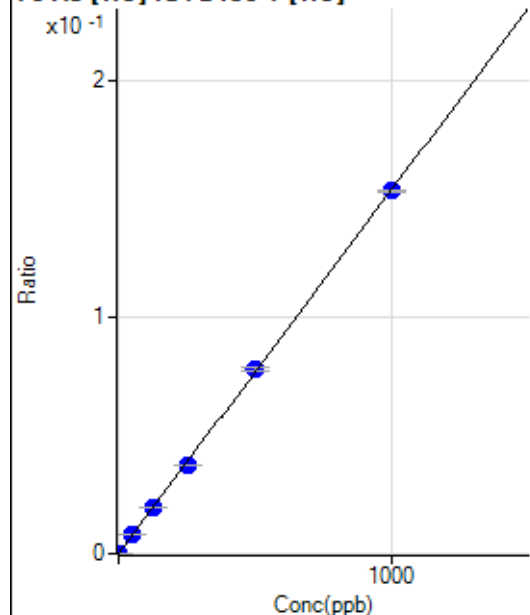
$$R = 0.9999$$

$$DL = 0.09595$$

$$BEC = 1.073$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 14.00    | 0.0000 | P       | 0.2  |
| 2 | <input type="checkbox"/> | 1.000    | 0.944      | 91.68    | 0.0002 | P       | 15.4 |
| 3 | <input type="checkbox"/> | 50.000   | 51.305     | 4351.11  | 0.0079 | P       | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 125.582    | 10776.53 | 0.0194 | P       | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 244.192    | 21043.40 | 0.0377 | P       | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 508.007    | 42536.60 | 0.0783 | P       | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.311    | 85455.75 | 0.1537 | P       | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 57.68    | 0.0001 | P       | 23.0 |

$$y = 1.5407E-004 * x + 2.6560E-005$$

$$R = 0.9999$$

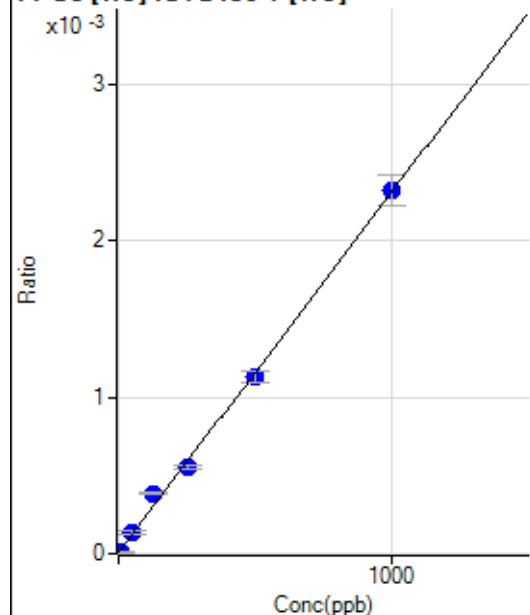
$$DL = 0.001048$$

$$BEC = 0.1724$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|---------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.44    | 0.0000 | P       | 43.6 |
| 2 | <input type="checkbox"/> | 5.000    | 0.844      | 5.56    | 0.0000 | P       | 91.9 |
| 3 | <input type="checkbox"/> | 50.000   | 55.268     | 74.45   | 0.0001 | P       | 22.5 |
| 4 | <input type="checkbox"/> | 125.000  | 162.876    | 213.34  | 0.0004 | P       | 4.0  |
| 5 | <input type="checkbox"/> | 250.000  | 235.405    | 307.79  | 0.0006 | P       | 4.3  |
| 6 | <input type="checkbox"/> | 500.000  | 488.408    | 615.58  | 0.0011 | P       | 6.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.468   | 1291.19 | 0.0023 | P       | 8.5  |
| 8 | <input type="checkbox"/> |          |            | 3.33    | 0.0000 | P       | 0.5  |

$$y = 2.3028\text{E-}006 * x + 8.4337\text{E-}006$$

$$R = 0.9989$$

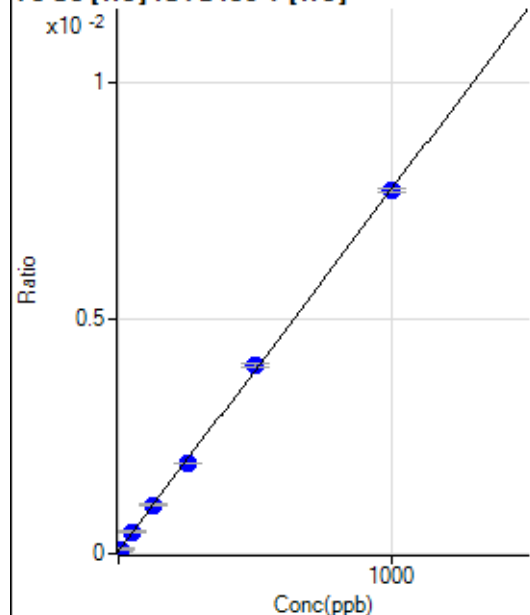
$$DL = 4.789$$

$$BEC = 3.662$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|---------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 31.00   | 0.0001 | P       | 28.3 |
| 2 | <input type="checkbox"/> | 5.000    | 5.452      | 53.68   | 0.0001 | P       | 4.4  |
| 3 | <input type="checkbox"/> | 50.000   | 53.041     | 256.03  | 0.0005 | P       | 7.9  |
| 4 | <input type="checkbox"/> | 125.000  | 127.447    | 577.74  | 0.0010 | P       | 3.6  |
| 5 | <input type="checkbox"/> | 250.000  | 241.304    | 1070.15 | 0.0019 | P       | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 512.441    | 2172.73 | 0.0040 | P       | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.493    | 4289.76 | 0.0077 | P       | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 36.00   | 0.0001 | P       | 12.6 |

$$y = 7.6903\text{E-}006 * x + 5.8830\text{E-}005$$

$$R = 0.9998$$

$$DL = 6.484$$

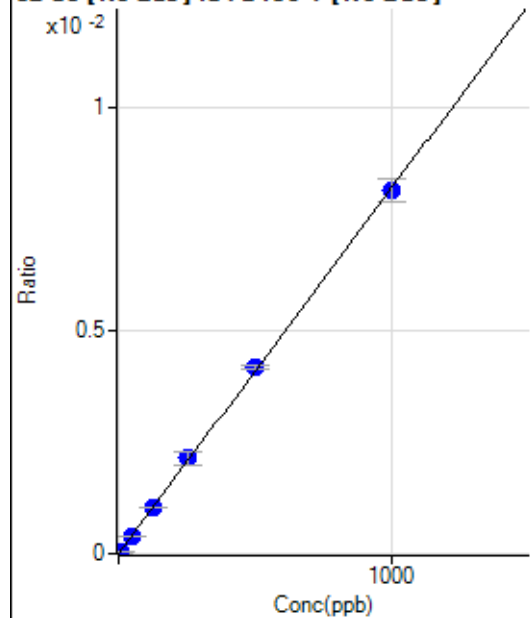
$$BEC = 7.65$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|---------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 1972.17 |       | P       | 10.0 |
| 2 | <input type="checkbox"/> |       |            | 1908.77 |       | P       | 4.7  |
| 3 | <input type="checkbox"/> |       |            | 2038.94 |       | P       | 8.5  |
| 4 | <input type="checkbox"/> |       |            | 2012.22 |       | P       | 16.4 |
| 5 | <input type="checkbox"/> |       |            | 1965.50 |       | P       | 2.1  |
| 6 | <input type="checkbox"/> |       |            | 2172.42 |       | P       | 4.4  |
| 7 | <input type="checkbox"/> |       |            | 2135.70 |       | P       | 9.5  |
| 8 | <input type="checkbox"/> |       |            | 2205.79 |       | P       | 1.8  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | De<br>t | RSD   |
|---|--------------------------|----------|------------|----------|--------|---------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.45     | 0.0000 | P       | 2419. |
| 2 | <input type="checkbox"/> | 5.000    | 4.028      | 135.52   | 0.0000 | P       | 26.3  |
| 3 | <input type="checkbox"/> | 50.000   | 48.982     | 1753.77  | 0.0004 | P       | 3.5   |
| 4 | <input type="checkbox"/> | 125.000  | 126.275    | 4254.56  | 0.0010 | P       | 3.4   |
| 5 | <input type="checkbox"/> | 250.000  | 261.702    | 8651.46  | 0.0021 | P       | 14.1  |
| 6 | <input type="checkbox"/> | 500.000  | 508.944    | 17307.94 | 0.0042 | P       | 1.7   |
| 7 | <input type="checkbox"/> | 1000.000 | 992.499    | 36575.57 | 0.0081 | P       | 6.5   |
| 8 | <input type="checkbox"/> |          |            | 40.77    | 0.0000 | P       | 109.0 |

$$y = 8.2051E-006 * x + 6.9223E-007$$

$$R = 0.9998$$

$$DL = 6.124$$

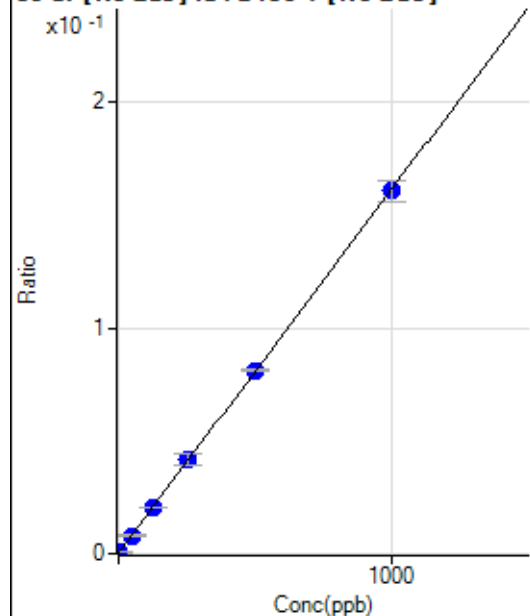
$$BEC = 0.08437$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 674.47 |       | P       | 11.3 |
| 2 | <input type="checkbox"/> |       |            | 667.80 |       | P       | 3.2  |
| 3 | <input type="checkbox"/> |       |            | 637.80 |       | P       | 6.3  |
| 4 | <input type="checkbox"/> |       |            | 694.47 |       | P       | 15.3 |
| 5 | <input type="checkbox"/> |       |            | 646.69 |       | P       | 9.2  |
| 6 | <input type="checkbox"/> |       |            | 697.81 |       | P       | 4.8  |
| 7 | <input type="checkbox"/> |       |            | 617.80 |       | P       | 3.5  |
| 8 | <input type="checkbox"/> |       |            | 674.47 |       | P       | 1.5  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1119.52   | 0.0003 | P       | 15.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.071      | 1775.17   | 0.0004 | P       | 2.3  |
| 3 | <input type="checkbox"/> | 50.000   | 48.527     | 35200.64  | 0.0081 | P       | 3.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.020    | 85095.17  | 0.0207 | P       | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 258.869    | 169199.57 | 0.0420 | P       | 13.0 |
| 6 | <input type="checkbox"/> | 500.000  | 502.565    | 336680.93 | 0.0812 | P       | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.321    | 722262.40 | 0.1608 | P       | 5.9  |
| 8 | <input type="checkbox"/> |          |            | 5626.29   | 0.0013 | P       | 1.9  |

$$y = 1.6112E-004 * x + 2.7074E-004$$

$$R = 0.9999$$

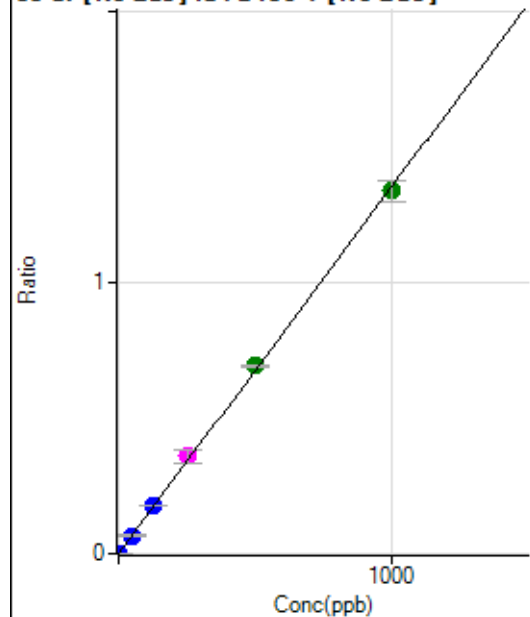
$$DL = 0.7973$$

$$BEC = 1.68$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 205.56     | 0.0000 | P       | 31.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.035      | 5806.93    | 0.0015 | P       | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 49.383     | 291061.51  | 0.0669 | P       | 5.2  |
| 4 | <input type="checkbox"/> | 125.000  | 129.231    | 718444.16  | 0.1751 | P       | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 265.259    | 1448762.45 | 0.3593 | M       | 12.5 |
| 6 | <input type="checkbox"/> | 500.000  | 512.009    | 2873945.86 | 0.6935 | A       | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.683    | 6020949.92 | 1.3404 | A       | 5.9  |
| 8 | <input type="checkbox"/> |          |            | 39386.61   | 0.0090 | P       | 2.0  |

$$y = 0.0014 * x + 4.8886E-005$$

$$R = 0.9997$$

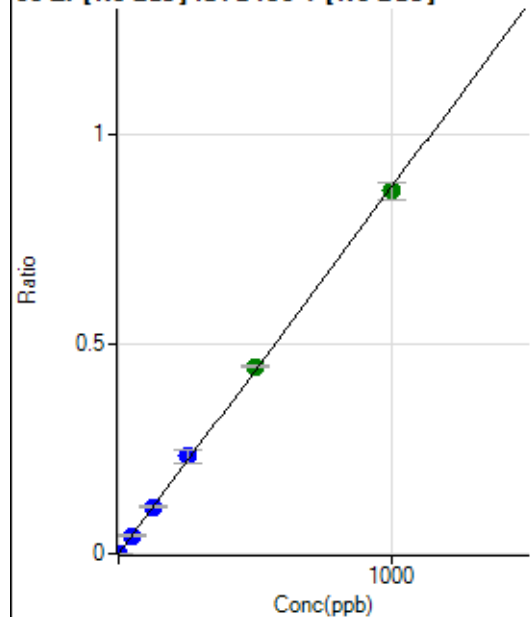
$$DL = 0.03433$$

$$BEC = 0.0361$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 161.12     | 0.0000 | P       | 39.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.989      | 3608.91    | 0.0009 | P       | 6.7  |
| 3 | <input type="checkbox"/> | 50.000   | 49.367     | 187574.90  | 0.0431 | P       | 5.1  |
| 4 | <input type="checkbox"/> | 125.000  | 128.221    | 459468.79  | 0.1120 | P       | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 266.579    | 937960.23  | 0.2327 | P       | 13.1 |
| 6 | <input type="checkbox"/> | 500.000  | 511.322    | 1849858.92 | 0.4464 | A       | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.823    | 3882967.88 | 0.8641 | A       | 4.7  |
| 8 | <input type="checkbox"/> |          |            | 3058.75    | 0.0007 | P       | 4.4  |

$$y = 8.7291E-004 * x + 3.8207E-005$$

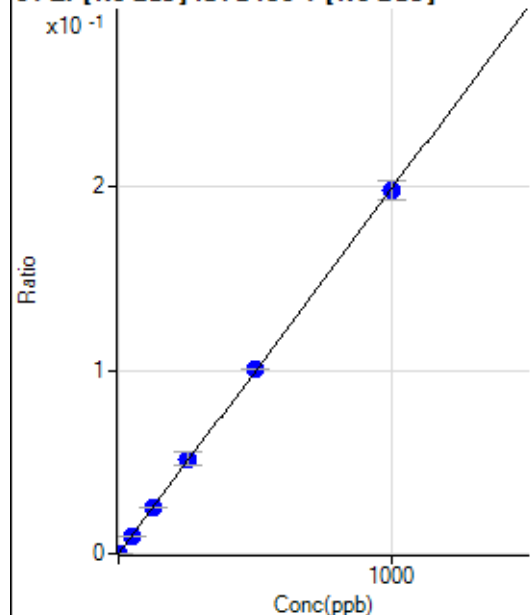
$$R = 0.9997$$

$$DL = 0.05164$$

$$BEC = 0.04377$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 58.33     | 0.0000 | P       | 36.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.929      | 794.49    | 0.0002 | P       | 10.6 |
| 3 | <input type="checkbox"/> | 50.000   | 47.455     | 41086.28  | 0.0094 | P       | 5.6  |
| 4 | <input type="checkbox"/> | 125.000  | 126.198    | 103018.72 | 0.0251 | P       | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 258.775    | 207291.57 | 0.0515 | P       | 13.9 |
| 6 | <input type="checkbox"/> | 500.000  | 506.329    | 417233.95 | 0.1007 | P       | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.619    | 888539.18 | 0.1978 | P       | 5.2  |
| 8 | <input type="checkbox"/> |          |            | 694.48    | 0.0002 | P       | 7.2  |

$$y = 1.9882E-004 * x + 1.3988E-005$$

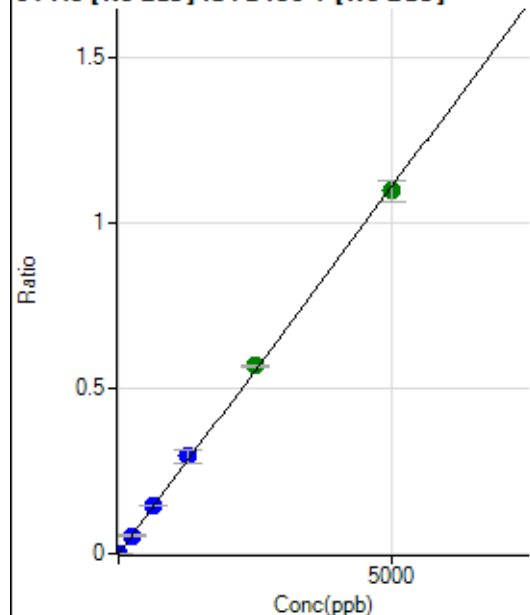
$$R = 0.9999$$

$$DL = 0.07614$$

$$BEC = 0.07036$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.78     | 0.0000 | P       | 15.2 |
| 2 | <input type="checkbox"/> | 5.000    | 4.870      | 4411.92    | 0.0011 | P       | 7.5  |
| 3 | <input type="checkbox"/> | 250.000  | 247.650    | 238364.73  | 0.0548 | P       | 6.7  |
| 4 | <input type="checkbox"/> | 625.000  | 646.249    | 587097.98  | 0.1431 | P       | 0.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1328.653   | 1185485.10 | 0.2941 | P       | 12.9 |
| 6 | <input type="checkbox"/> | 2500.000 | 2559.079   | 2347526.77 | 0.5664 | A       | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4948.259   | 4919793.47 | 1.0953 | A       | 5.8  |
| 8 | <input type="checkbox"/> |          |            | 3895.10    | 0.0009 | P       | 0.7  |

$$y = 2.2134E-004 * x + 2.4708E-005$$

$$R = 0.9997$$

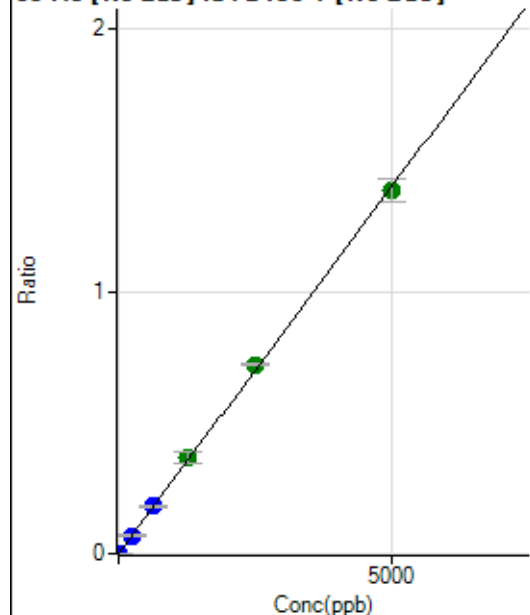
$$DL = 0.05105$$

$$BEC = 0.1116$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 83.34      | 0.0000 | P       | 15.3 |
| 2 | <input type="checkbox"/> | 5.000    | 5.101      | 5790.27    | 0.0014 | P       | 7.9  |
| 3 | <input type="checkbox"/> | 250.000  | 246.036    | 299533.33  | 0.0689 | P       | 4.3  |
| 4 | <input type="checkbox"/> | 625.000  | 644.497    | 740073.84  | 0.1803 | P       | 1.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1316.384   | 1485177.70 | 0.3683 | A       | 12.4 |
| 6 | <input type="checkbox"/> | 2500.000 | 2571.521   | 2981745.62 | 0.7195 | A       | 0.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4945.405   | 6214147.06 | 1.3837 | A       | 6.4  |
| 8 | <input type="checkbox"/> |          |            | 4692.61    | 0.0011 | P       | 11.2 |

$$y = 2.7979\text{E-}004 * x + 2.0175\text{E-}005$$

$$R = 0.9997$$

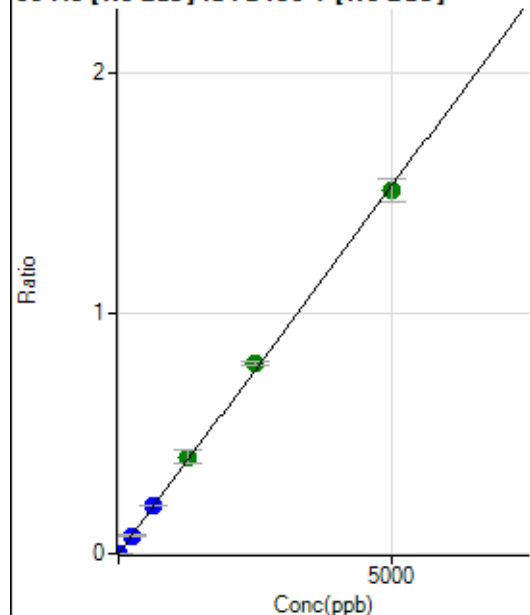
$$DL = 0.0332$$

$$BEC = 0.07211$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 172.23     | 0.0000 | P       | 18.3 |
| 2 | <input type="checkbox"/> | 5.000    | 4.964      | 6240.44    | 0.0016 | P       | 0.6  |
| 3 | <input type="checkbox"/> | 250.000  | 247.764    | 329658.02  | 0.0758 | P       | 3.7  |
| 4 | <input type="checkbox"/> | 625.000  | 644.474    | 808524.97  | 0.1970 | P       | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1321.074   | 1628087.24 | 0.4038 | A       | 12.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2587.656   | 3277597.14 | 0.7909 | A       | 1.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4936.081   | 6775620.68 | 1.5087 | A       | 6.4  |
| 8 | <input type="checkbox"/> |          |            | 6268.30    | 0.0014 | P       | 6.4  |

$$y = 3.0564\text{E-}004 * x + 4.1399\text{E-}005$$

$$R = 0.9996$$

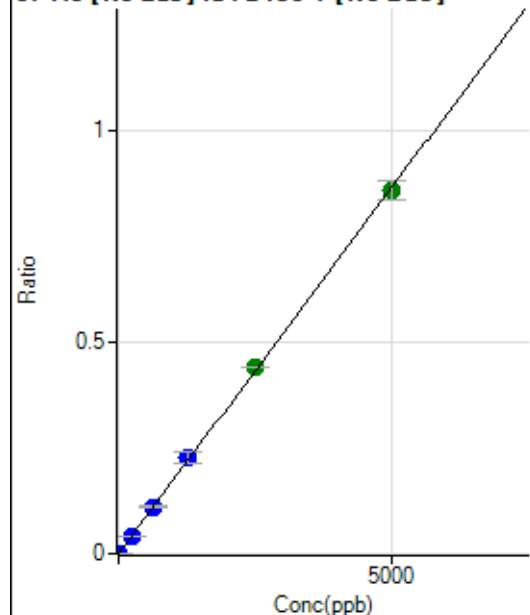
$$DL = 0.07453$$

$$BEC = 0.1354$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 63.89      | 0.0000 | P       | 42.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.014      | 3536.67    | 0.0009 | P       | 2.4  |
| 3 | <input type="checkbox"/> | 250.000  | 242.282    | 182392.67  | 0.0419 | P       | 5.3  |
| 4 | <input type="checkbox"/> | 625.000  | 641.617    | 455714.85  | 0.1110 | P       | 0.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1320.918   | 921983.21  | 0.2286 | P       | 12.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2546.164   | 1826052.08 | 0.4406 | A       | 0.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 4957.497   | 3854534.16 | 0.8579 | A       | 5.3  |
| 8 | <input type="checkbox"/> |          |            | 2917.05    | 0.0007 | P       | 1.7  |

$$y = 1.7305E-004 * x + 1.5391E-005$$

$$R = 0.9998$$

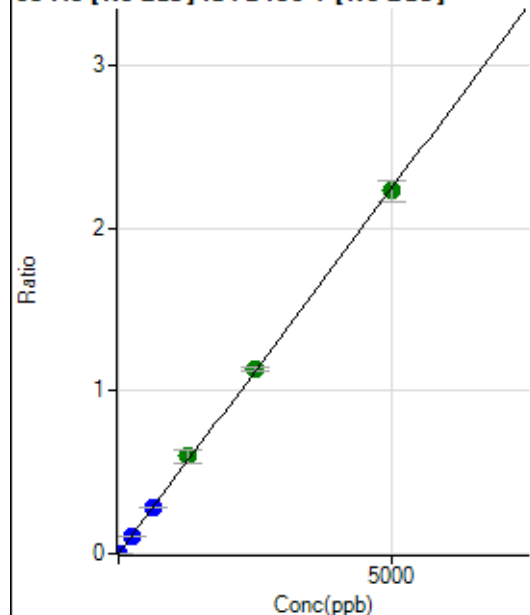
$$DL = 0.1141$$

$$BEC = 0.08894$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 175.01      | 0.0000 | P       | 29.9 |
| 2 | <input type="checkbox"/> | 5.000    | 4.673      | 8566.75     | 0.0021 | P       | 6.9  |
| 3 | <input type="checkbox"/> | 250.000  | 243.173    | 475314.42   | 0.1093 | P       | 5.1  |
| 4 | <input type="checkbox"/> | 625.000  | 637.626    | 1175809.59  | 0.2865 | P       | 1.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1329.348   | 2407603.35  | 0.5973 | A       | 13.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2527.157   | 4705090.90  | 1.1355 | A       | 1.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4965.348   | 10020939.55 | 2.2309 | A       | 5.9  |
| 8 | <input type="checkbox"/> |          |            | 7577.32     | 0.0017 | P       | 4.3  |

$$y = 4.4929E-004 * x + 4.1785E-005$$

$$R = 0.9998$$

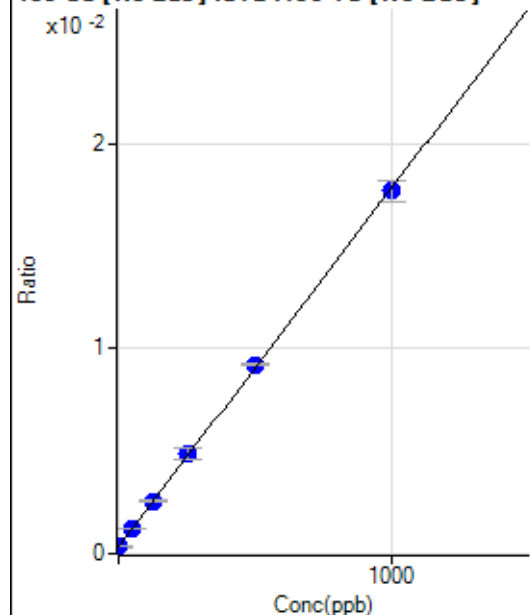
$$DL = 0.08344$$

$$BEC = 0.093$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 977.84   | 0.0003 | P       | 12.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.972      | 994.51   | 0.0004 | P       | 9.4  |
| 3 | <input type="checkbox"/> | 50.000   | 50.488     | 3731.17  | 0.0012 | P       | 4.4  |
| 4 | <input type="checkbox"/> | 125.000  | 128.060    | 7613.44  | 0.0026 | P       | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 260.247    | 14193.77 | 0.0049 | P       | 10.6 |
| 6 | <input type="checkbox"/> | 500.000  | 508.770    | 27937.19 | 0.0092 | P       | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.646    | 57986.31 | 0.0177 | P       | 5.5  |
| 8 | <input type="checkbox"/> |          |            | 1105.63  | 0.0003 | P       | 10.4 |

$$y = 1.7501\text{E-}005 * x + 3.3472\text{E-}004$$

$$R = 0.9999$$

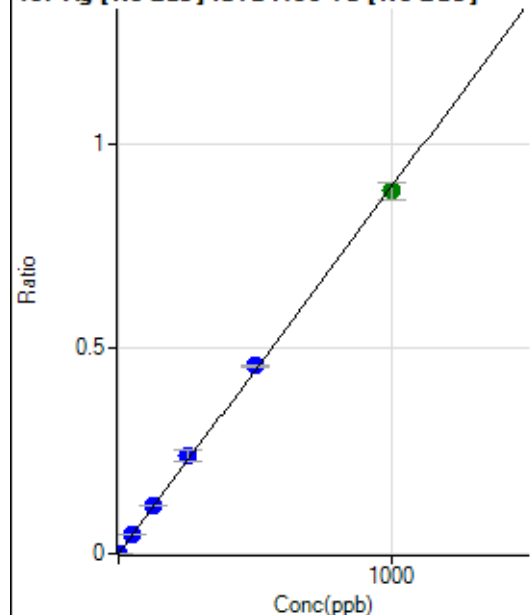
$$DL = 7.249$$

$$BEC = 19.13$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.44      | 0.0000 | P       | 61.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.983      | 2505.85    | 0.0009 | P       | 6.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.716     | 139040.91  | 0.0454 | P       | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 129.957    | 343712.30  | 0.1163 | P       | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 268.431    | 697080.29  | 0.2402 | P       | 11.0 |
| 6 | <input type="checkbox"/> | 500.000  | 511.963    | 1385140.43 | 0.4581 | P       | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.755    | 2898151.21 | 0.8848 | A       | 4.7  |
| 8 | <input type="checkbox"/> |          |            | 2119.66    | 0.0007 | P       | 10.5 |

$$y = 8.9483\text{E-}004 * x + 6.5450\text{E-}006$$

$$R = 0.9997$$

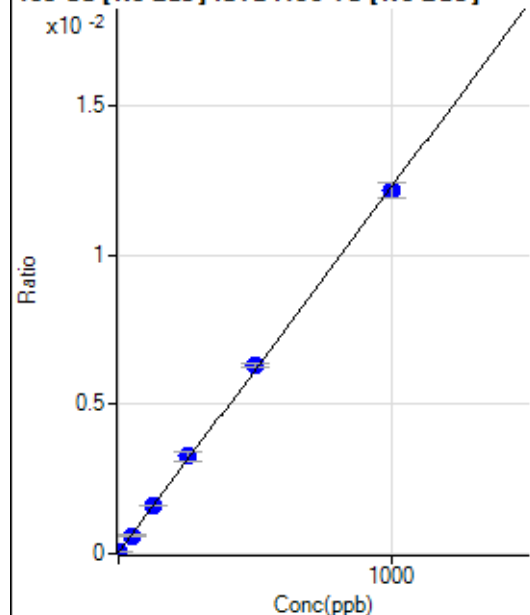
$$DL = 0.01344$$

$$BEC = 0.007314$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 111.11   | 0.0000 | P       | 10.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.024      | 143.06   | 0.0001 | P       | 26.3 |
| 3 | <input type="checkbox"/> | 50.000   | 45.709     | 1832.09  | 0.0006 | P       | 5.0  |
| 4 | <input type="checkbox"/> | 125.000  | 129.757    | 4812.00  | 0.0016 | P       | 0.1  |
| 5 | <input type="checkbox"/> | 250.000  | 262.828    | 9460.29  | 0.0033 | P       | 10.5 |
| 6 | <input type="checkbox"/> | 500.000  | 513.974    | 19159.26 | 0.0063 | P       | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.426    | 39840.84 | 0.0122 | P       | 4.4  |
| 8 | <input type="checkbox"/> |          |            | 129.17   | 0.0000 | P       | 3.9  |

$$y = 1.2254\text{E-}005 * x + 3.8049\text{E-}005$$

$$R = 0.9997$$

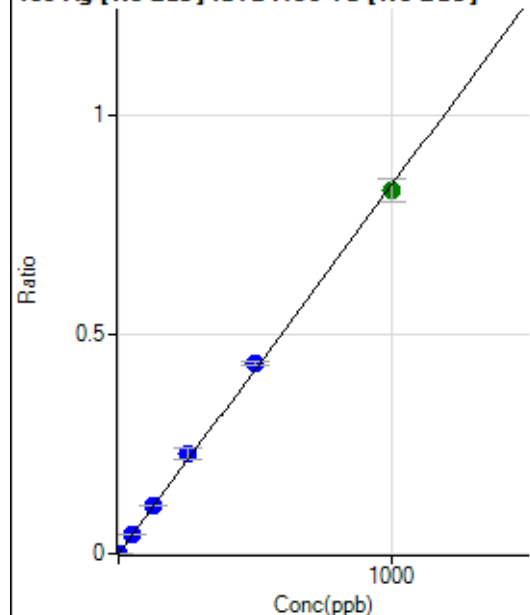
$$DL = 1.011$$

$$BEC = 3.105$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89      | 0.0000 | P       | 64.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.029      | 2453.06    | 0.0009 | P       | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 51.355     | 131950.64  | 0.0431 | P       | 2.5  |
| 4 | <input type="checkbox"/> | 125.000  | 130.825    | 324255.01  | 0.1097 | P       | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 270.657    | 658824.10  | 0.2270 | P       | 10.6 |
| 6 | <input type="checkbox"/> | 500.000  | 518.195    | 1313877.10 | 0.4346 | P       | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 984.942    | 2703516.29 | 0.8260 | A       | 6.4  |
| 8 | <input type="checkbox"/> |          |            | 1980.75    | 0.0006 | P       | 4.5  |

$$y = 8.3859\text{E-}004 * x + 4.6593\text{E-}006$$

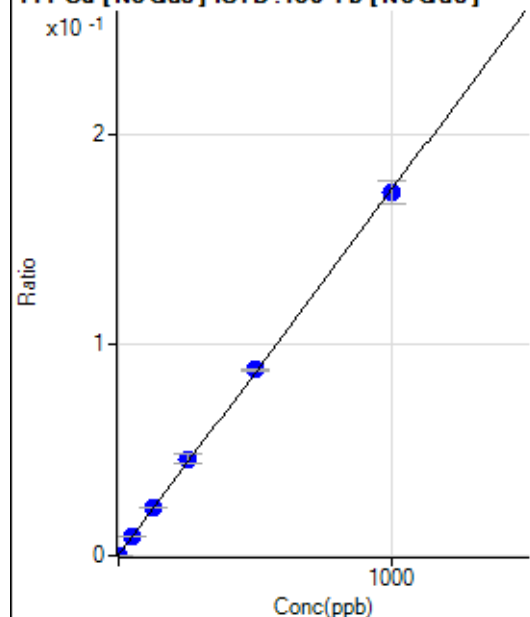
$$R = 0.9995$$

$$DL = 0.01076$$

$$BEC = 0.005556$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 666.43    | 0.0002 | P       | 10.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.050      | 1159.92   | 0.0004 | P       | 4.4  |
| 3 | <input type="checkbox"/> | 50.000   | 49.944     | 27231.56  | 0.0089 | P       | 3.1  |
| 4 | <input type="checkbox"/> | 125.000  | 129.439    | 67020.96  | 0.0227 | P       | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 264.207    | 133653.93 | 0.0460 | P       | 10.7 |
| 6 | <input type="checkbox"/> | 500.000  | 508.254    | 267203.65 | 0.0884 | P       | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.769    | 563733.26 | 0.1722 | P       | 6.4  |
| 8 | <input type="checkbox"/> |          |            | 1183.55   | 0.0004 | P       | 7.3  |

$$y = 1.7343\text{E-}004 * x + 2.2816\text{E-}004$$

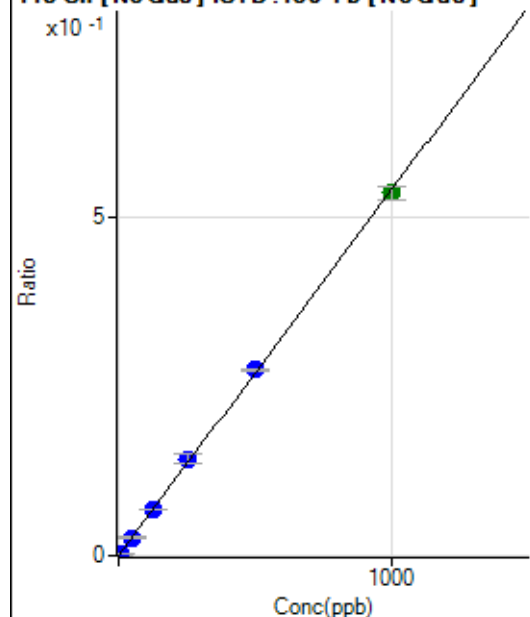
$$R = 0.9998$$

$$DL = 0.4233$$

$$BEC = 1.316$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 175.01     | 0.0001 | P       | 20.9 |
| 2 | <input type="checkbox"/> | 5.000    | 5.104      | 7963.63    | 0.0028 | P       | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 49.335     | 81775.26   | 0.0267 | P       | 4.7  |
| 4 | <input type="checkbox"/> | 125.000  | 127.819    | 204192.74  | 0.0691 | P       | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 264.263    | 414388.89  | 0.1428 | P       | 10.8 |
| 6 | <input type="checkbox"/> | 500.000  | 508.477    | 830467.47  | 0.2747 | P       | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.876    | 1755185.84 | 0.5357 | A       | 3.8  |
| 8 | <input type="checkbox"/> |          |            | 1766.84    | 0.0005 | P       | 6.9  |

$$y = 5.4006\text{E-}004 * x + 6.0169\text{E-}005$$

$$R = 0.9998$$

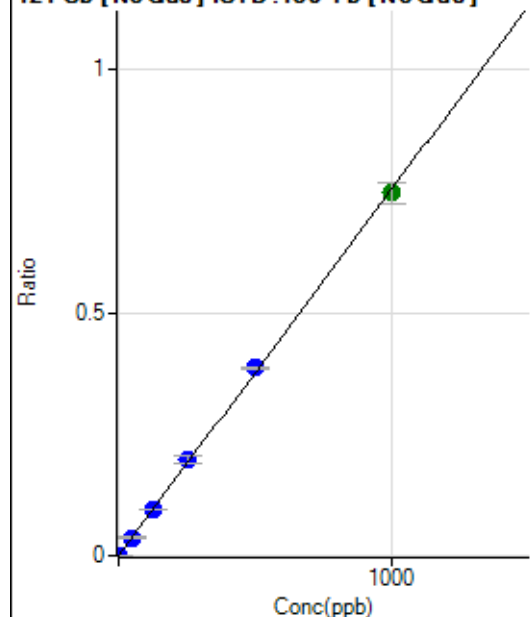
$$DL = 0.06975$$

$$BEC = 0.1114$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 111.11     | 0.0000 | P       | 13.9 |
| 2 | <input type="checkbox"/> | 2.000    | 1.982      | 4331.35    | 0.0015 | P       | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 49.185     | 113676.61  | 0.0371 | P       | 3.1  |
| 4 | <input type="checkbox"/> | 125.000  | 127.869    | 284942.83  | 0.0964 | P       | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 262.139    | 574222.74  | 0.1976 | P       | 8.9  |
| 6 | <input type="checkbox"/> | 500.000  | 512.082    | 1167074.67 | 0.3860 | P       | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.607    | 2444761.82 | 0.7467 | A       | 5.5  |
| 8 | <input type="checkbox"/> |          |            | 2628.12    | 0.0008 | P       | 7.6  |

$$y = 7.5370\text{E-}004 * x + 3.8088\text{E-}005$$

$$R = 0.9998$$

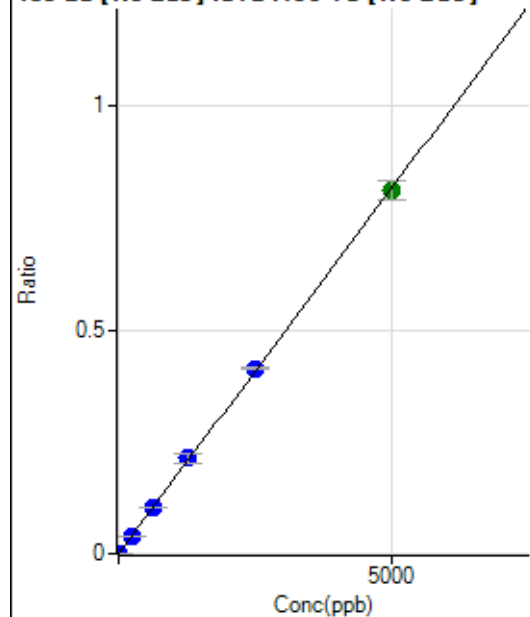
$$DL = 0.02102$$

$$BEC = 0.05053$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11      | 0.0000 | P       | 15.4 |
| 2 | <input type="checkbox"/> | 10.000   | 9.600      | 4467.54    | 0.0016 | P       | 2.7  |
| 3 | <input type="checkbox"/> | 250.000  | 246.307    | 123317.98  | 0.0402 | P       | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 628.620    | 303514.78  | 0.1027 | P       | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1311.517   | 621965.79  | 0.2142 | P       | 10.3 |
| 6 | <input type="checkbox"/> | 2500.000 | 2534.865   | 1251939.08 | 0.4141 | P       | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4966.921   | 2656648.60 | 0.8113 | A       | 5.3  |
| 8 | <input type="checkbox"/> |          |            | 1850.18    | 0.0006 | P       | 4.4  |

$$y = 1.6334\text{E-}004 * x + 1.2381\text{E-}005$$

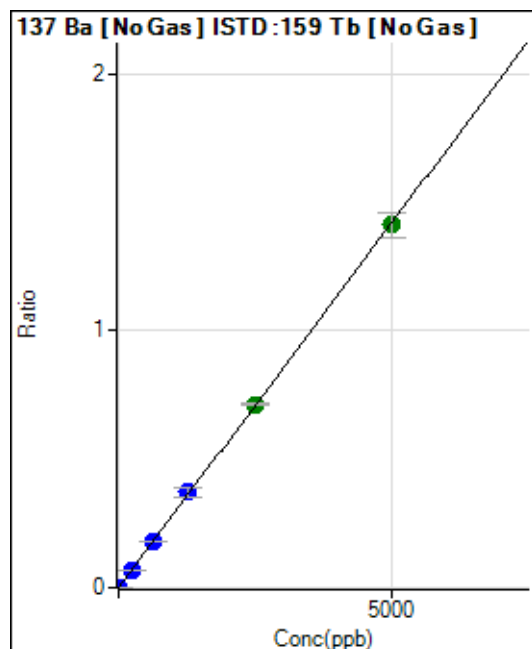
$$R = 0.9999$$

$$DL = 0.03512$$

$$BEC = 0.0758$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 33.33      | 0.0000 | P       | 20.9 |
| 2 | <input type="checkbox"/> | 10.000   | 10.398     | 8372.22    | 0.0030 | P       | 5.6  |
| 3 | <input type="checkbox"/> | 250.000  | 243.460    | 211573.38  | 0.0691 | P       | 4.0  |
| 4 | <input type="checkbox"/> | 625.000  | 633.812    | 531445.88  | 0.1798 | P       | 0.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1315.629   | 1083743.32 | 0.3733 | P       | 10.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2511.915   | 2154657.86 | 0.7126 | A       | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4976.860   | 4621029.01 | 1.4119 | A       | 6.7  |
| 8 | <input type="checkbox"/> |          |            | 3289.39    | 0.0010 | P       | 9.1  |

$$y = 2.8370E-004 * x + 1.1334E-005$$

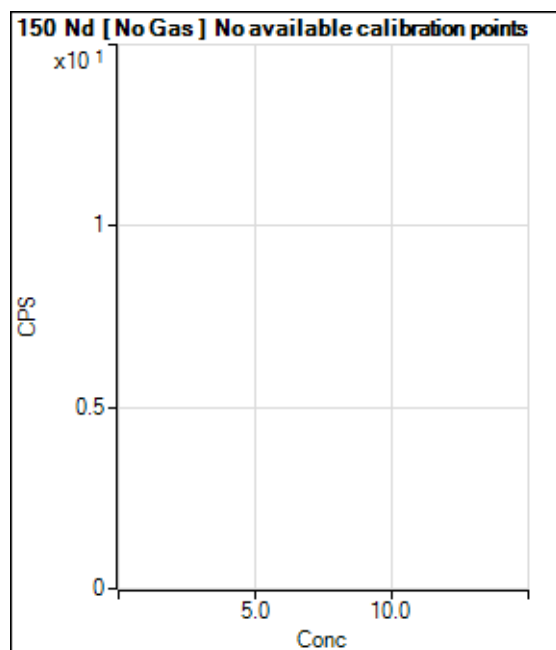
$$R = 0.9999$$

$$DL = 0.02507$$

$$BEC = 0.03995$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|--------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P       | 100.0 |
| 2 | <input type="checkbox"/> |       |            | 4.45   |       | P       | 86.6  |
| 3 | <input type="checkbox"/> |       |            | 8.89   |       | P       | 43.3  |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P       | 17.3  |
| 5 | <input type="checkbox"/> |       |            | 31.11  |       | P       | 12.4  |
| 6 | <input type="checkbox"/> |       |            | 68.89  |       | P       | 20.1  |
| 7 | <input type="checkbox"/> |       |            | 280.01 |       | P       | 21.2  |
| 8 | <input type="checkbox"/> |       |            | 17.78  |       | P       | 21.7  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|-------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 1.11  |       | P       | 173.2 |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P       |       |
| 3 | <input type="checkbox"/> |       |            | 3.33  |       | P       | 100.1 |
| 4 | <input type="checkbox"/> |       |            | 1.11  |       | P       | 173.2 |
| 5 | <input type="checkbox"/> |       |            | 3.33  |       | P       | 100.1 |
| 6 | <input type="checkbox"/> |       |            | 13.33 |       | P       | 66.1  |
| 7 | <input type="checkbox"/> |       |            | 58.89 |       | P       | 32.2  |
| 8 | <input type="checkbox"/> |       |            | 4.44  |       | P       | 114.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|--------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 8.33   |       | P       | 100.0 |
| 2 | <input type="checkbox"/> |       |            | 11.11  |       | P       | 43.3  |
| 3 | <input type="checkbox"/> |       |            | 13.89  |       | P       | 34.7  |
| 4 | <input type="checkbox"/> |       |            | 33.33  |       | P       | 25.0  |
| 5 | <input type="checkbox"/> |       |            | 47.22  |       | P       | 50.9  |
| 6 | <input type="checkbox"/> |       |            | 83.34  |       | P       | 10.0  |
| 7 | <input type="checkbox"/> |       |            | 208.34 |       | P       | 10.6  |
| 8 | <input type="checkbox"/> |       |            | 544.47 |       | P       | 25.3  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|--------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 3.33   |       | P       | 100.1 |
| 2 | <input type="checkbox"/> |       |            | 2.22   |       | P       | 86.6  |
| 3 | <input type="checkbox"/> |       |            | 5.56   |       | P       | 34.7  |
| 4 | <input type="checkbox"/> |       |            | 14.45  |       | P       | 48.0  |
| 5 | <input type="checkbox"/> |       |            | 22.22  |       | P       | 22.9  |
| 6 | <input type="checkbox"/> |       |            | 35.56  |       | P       | 5.4   |
| 7 | <input type="checkbox"/> |       |            | 121.12 |       | P       | 17.5  |
| 8 | <input type="checkbox"/> |       |            | 320.01 |       | P       | 8.9   |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11  |       | P       | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 19.44  |       | P       | 65.5 |
| 3 | <input type="checkbox"/> |       |            | 19.44  |       | P       | 89.2 |
| 4 | <input type="checkbox"/> |       |            | 52.78  |       | P       | 65.7 |
| 5 | <input type="checkbox"/> |       |            | 88.89  |       | P       | 14.3 |
| 6 | <input type="checkbox"/> |       |            | 88.89  |       | P       | 14.3 |
| 7 | <input type="checkbox"/> |       |            | 244.46 |       | P       | 8.6  |
| 8 | <input type="checkbox"/> |       |            | 588.92 |       | P       | 9.4  |

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

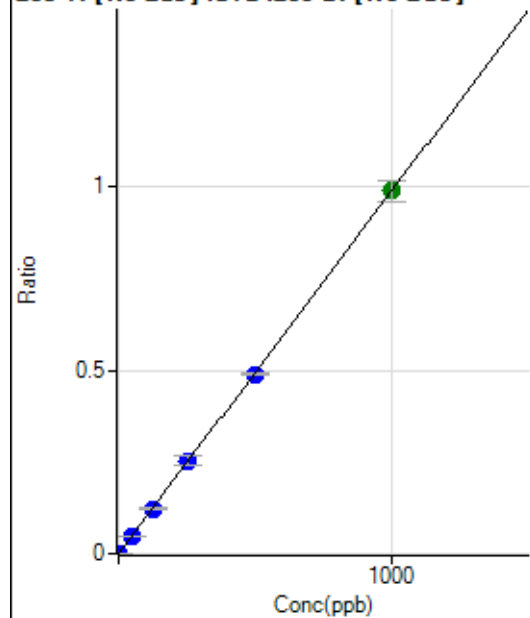
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 17.78  |       | P       | 28.6 |
| 2 | <input type="checkbox"/> |       |            | 7.78   |       | P       | 24.7 |
| 3 | <input type="checkbox"/> |       |            | 14.44  |       | P       | 35.3 |
| 4 | <input type="checkbox"/> |       |            | 17.78  |       | P       | 47.2 |
| 5 | <input type="checkbox"/> |       |            | 26.67  |       | P       | 45.1 |
| 6 | <input type="checkbox"/> |       |            | 48.89  |       | P       | 15.7 |
| 7 | <input type="checkbox"/> |       |            | 133.34 |       | P       | 17.3 |
| 8 | <input type="checkbox"/> |       |            | 374.46 |       | P       | 12.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|--------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 30.55  |       | P       | 15.7  |
| 2 | <input type="checkbox"/> |       |            | 22.22  |       | P       | 21.6  |
| 3 | <input type="checkbox"/> |       |            | 22.22  |       | P       | 43.3  |
| 4 | <input type="checkbox"/> |       |            | 11.11  |       | P       | 86.6  |
| 5 | <input type="checkbox"/> |       |            | 13.89  |       | P       | 34.7  |
| 6 | <input type="checkbox"/> |       |            | 33.33  |       | P       | 109.0 |
| 7 | <input type="checkbox"/> |       |            | 102.78 |       | P       | 40.8  |
| 8 | <input type="checkbox"/> |       |            | 102.78 |       | P       | 36.6  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|-------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 5.56  |       | P       | 34.7 |
| 2 | <input type="checkbox"/> |       |            | 10.00 |       | P       | 33.3 |
| 3 | <input type="checkbox"/> |       |            | 5.56  |       | P       | 91.6 |
| 4 | <input type="checkbox"/> |       |            | 11.11 |       | P       | 45.8 |
| 5 | <input type="checkbox"/> |       |            | 11.11 |       | P       | 34.6 |
| 6 | <input type="checkbox"/> |       |            | 18.89 |       | P       | 27.0 |
| 7 | <input type="checkbox"/> |       |            | 41.11 |       | P       | 4.7  |
| 8 | <input type="checkbox"/> |       |            | 43.33 |       | P       | 15.4 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.00     | 0.0001 | P       | 49.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.045      | 1694.60    | 0.0011 | P       | 4.0  |
| 3 | <input type="checkbox"/> | 50.000   | 48.017     | 79289.59   | 0.0475 | P       | 4.8  |
| 4 | <input type="checkbox"/> | 125.000  | 124.183    | 196741.55  | 0.1228 | P       | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 256.256    | 400226.25  | 0.2534 | P       | 10.8 |
| 6 | <input type="checkbox"/> | 500.000  | 495.574    | 812979.08  | 0.4900 | P       | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.850   | 1785381.42 | 0.9896 | A       | 5.7  |
| 8 | <input type="checkbox"/> |          |            | 1769.62    | 0.0011 | P       | 10.9 |

$$y = 9.8870E-004 * x + 6.2670E-005$$

$$R = 1.0000$$

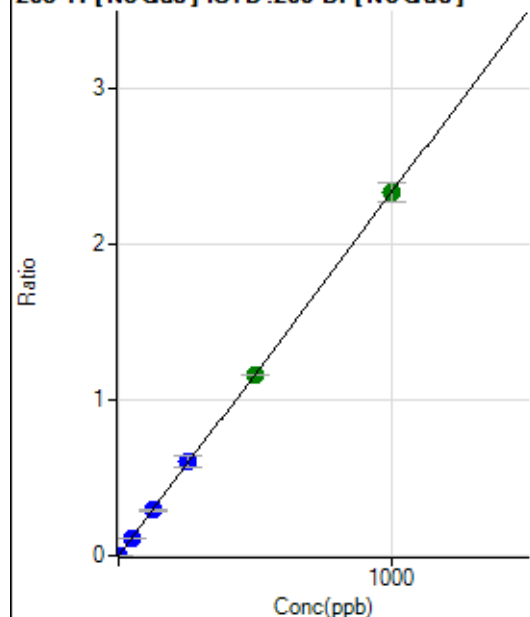
$$DL = 0.09366$$

$$BEC = 0.06339$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 327.79     | 0.0002 | P       | 5.7  |
| 2 | <input type="checkbox"/> | 1.000    | 0.936      | 3692.30    | 0.0024 | P       | 1.4  |
| 3 | <input type="checkbox"/> | 50.000   | 47.969     | 186798.62  | 0.1120 | P       | 4.8  |
| 4 | <input type="checkbox"/> | 125.000  | 124.796    | 466106.83  | 0.2910 | P       | 1.2  |
| 5 | <input type="checkbox"/> | 250.000  | 258.743    | 951848.70  | 0.6032 | P       | 11.8 |
| 6 | <input type="checkbox"/> | 500.000  | 497.751    | 1924704.04 | 1.1602 | A       | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.066    | 4200915.37 | 2.3285 | A       | 5.3  |
| 8 | <input type="checkbox"/> |          |            | 4306.38    | 0.0026 | P       | 2.6  |

$$y = 0.0023 * x + 2.0710E-004$$

$$R = 0.9999$$

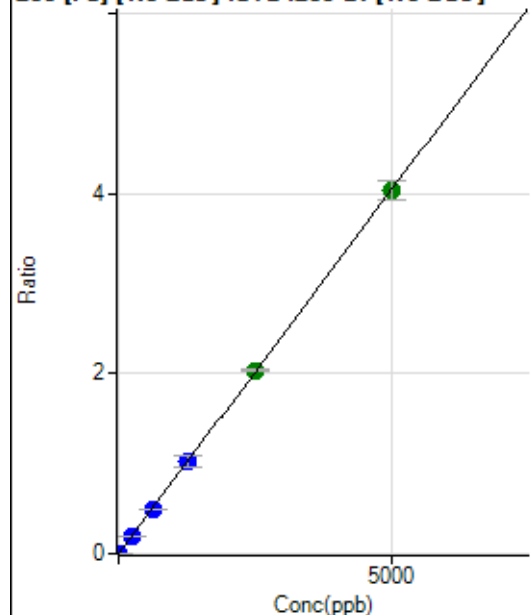
$$DL = 0.01519$$

$$BEC = 0.08887$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 162.97     | 0.0001 | P       | 16.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.910      | 1296.39    | 0.0008 | P       | 4.6  |
| 3 | <input type="checkbox"/> | 250.000  | 235.071    | 316866.98  | 0.1900 | P       | 4.6  |
| 4 | <input type="checkbox"/> | 625.000  | 610.003    | 789232.69  | 0.4928 | P       | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1270.973   | 1620643.85 | 1.0267 | P       | 11.4 |
| 6 | <input type="checkbox"/> | 2500.000 | 2521.234   | 3378658.01 | 2.0365 | A       | 1.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4986.761   | 7267226.09 | 4.0279 | A       | 5.2  |
| 8 | <input type="checkbox"/> |          |            | 16041.64   | 0.0096 | P       | 0.3  |

$$y = 8.0770E-004 * x + 1.0338E-004$$

$$R = 1.0000$$

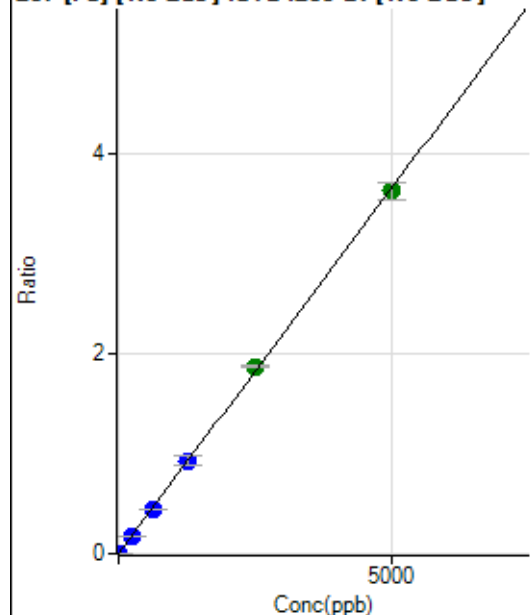
$$DL = 0.06397$$

$$BEC = 0.128$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 159.27     | 0.0001 | P       | 3.8  |
| 2 | <input type="checkbox"/> | 1.000    | 0.952      | 1229.71    | 0.0008 | P       | 8.8  |
| 3 | <input type="checkbox"/> | 250.000  | 236.233    | 287935.06  | 0.1727 | P       | 5.8  |
| 4 | <input type="checkbox"/> | 625.000  | 608.476    | 712124.62  | 0.4447 | P       | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1274.533   | 1470129.55 | 0.9313 | P       | 11.3 |
| 6 | <input type="checkbox"/> | 2500.000 | 2560.633   | 3103797.32 | 1.8709 | A       | 0.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 4966.304   | 6547742.33 | 3.6285 | A       | 4.8  |
| 8 | <input type="checkbox"/> |          |            | 14486.15   | 0.0086 | P       | 2.2  |

$$y = 7.3060\text{E-}004 * x + 1.0065\text{E-}004$$

$$R = 0.9999$$

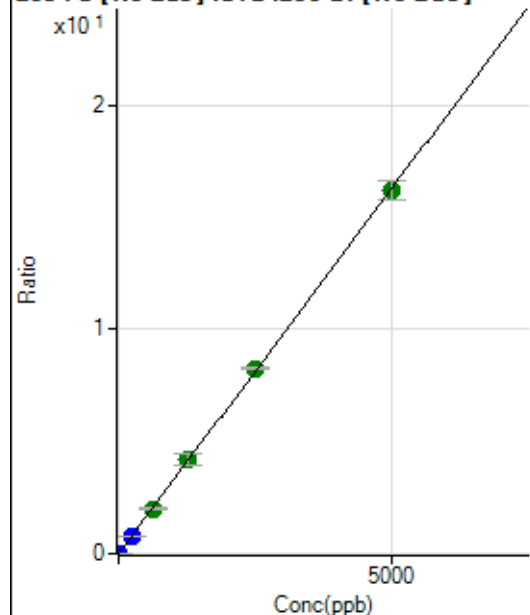
$$DL = 0.01553$$

$$BEC = 0.1378$$

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   | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 670.39      | 0.0004  | P       | 8.8  |
| 2 | <input type="checkbox"/> | 1.000    | 0.917      | 5267.19     | 0.0034  | P       | 4.5  |
| 3 | <input type="checkbox"/> | 250.000  | 238.555    | 1295746.58  | 0.7770  | P       | 5.3  |
| 4 | <input type="checkbox"/> | 625.000  | 617.026    | 3217527.13  | 2.0090  | A       | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1287.480   | 6612461.30  | 4.1916  | A       | 12.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2538.434   | 13709692.35 | 8.2638  | A       | 0.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4972.982   | 29208023.28 | 16.1890 | A       | 5.4  |
| 8 | <input type="checkbox"/> |          |            | 65137.30    | 0.0389  | P       | 1.6  |

$$y = 0.0033 * x + 4.2386\text{E-}004$$

$$R = 0.9999$$

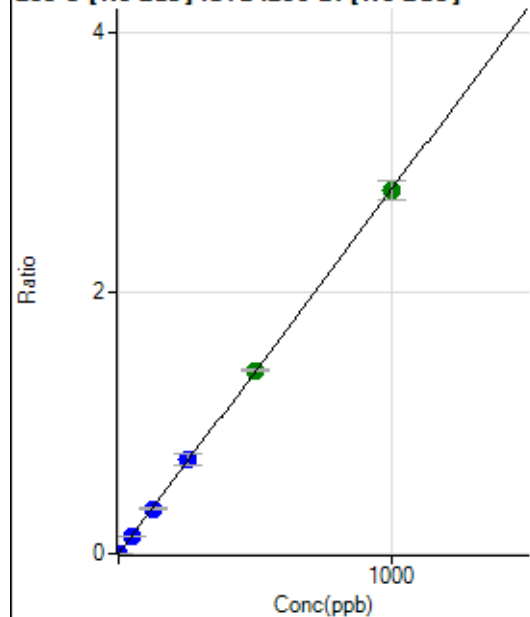
$$DL = 0.03436$$

$$BEC = 0.1302$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.78     | 0.0001 | P       | 33.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.067      | 4709.35    | 0.0030 | P       | 1.5  |
| 3 | <input type="checkbox"/> | 50.000   | 47.648     | 221971.62  | 0.1331 | P       | 5.9  |
| 4 | <input type="checkbox"/> | 125.000  | 124.040    | 554920.46  | 0.3465 | P       | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 258.048    | 1137858.82 | 0.7208 | P       | 11.3 |
| 6 | <input type="checkbox"/> | 500.000  | 503.722    | 2333941.02 | 1.4069 | A       | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.365    | 5020699.37 | 2.7827 | A       | 5.2  |
| 8 | <input type="checkbox"/> |          |            | 2969.96    | 0.0018 | P       | 5.6  |

$$y = 0.0028 * x + 6.5513E-005$$

$$R = 0.9999$$

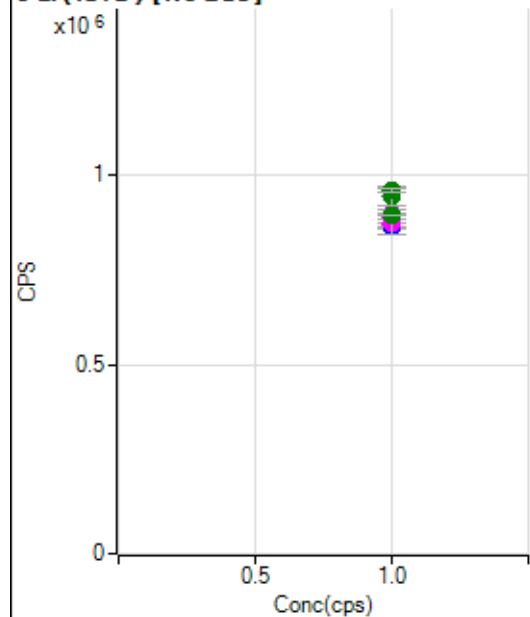
$$DL = 0.02378$$

$$BEC = 0.02346$$

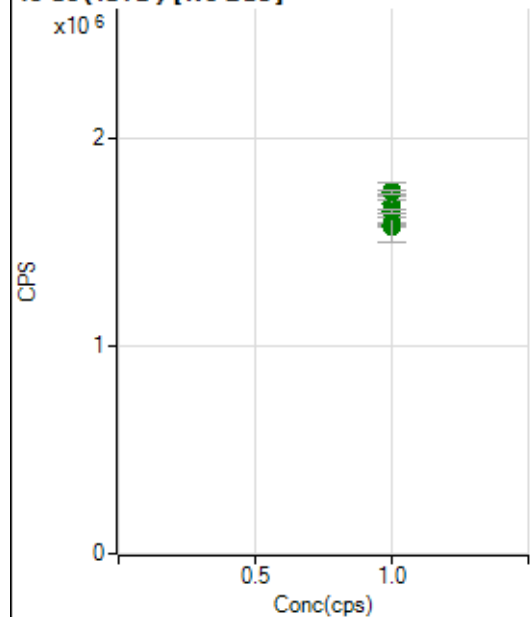
Weight: &lt;None&gt;

Min Conc: 0

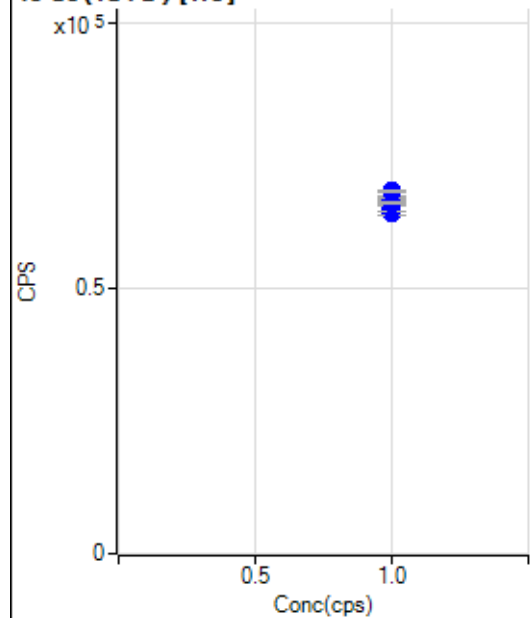
6 Li (ISTD) [No Gas]



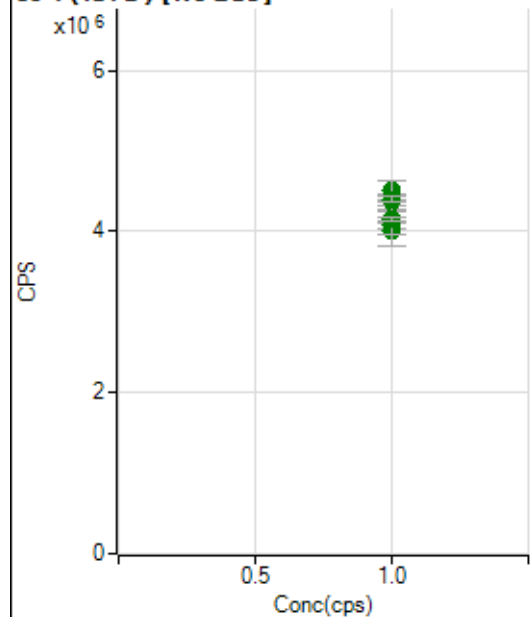
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-----------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 867027.54 |       | M       | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 863570.00 |       | P       | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 899791.90 |       | M       | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 891453.38 |       | M       | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 871962.33 |       | M       | 6.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 894898.24 |       | A       | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 945778.77 |       | A       | 5.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 958934.45 |       | A       | 1.0 |

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

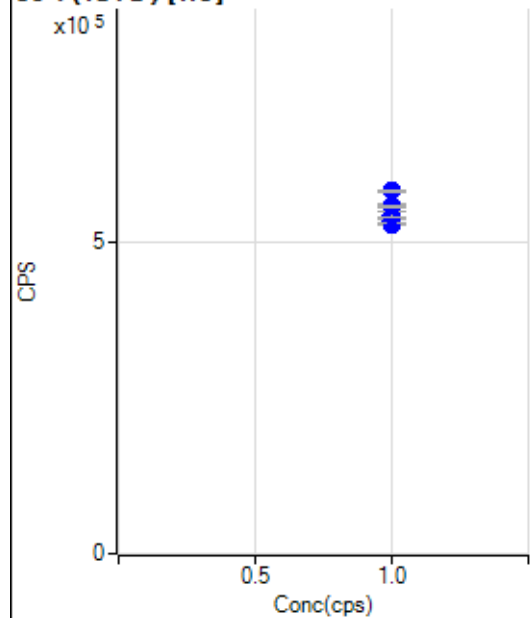
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1622707.51 |       | A       | 4.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1589512.67 |       | A       | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1685180.58 |       | A       | 4.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1624984.61 |       | A       | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1579343.02 |       | A       | 9.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1650023.64 |       | A       | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1750292.77 |       | A       | 4.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1740815.88 |       | A       | 1.2 |

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

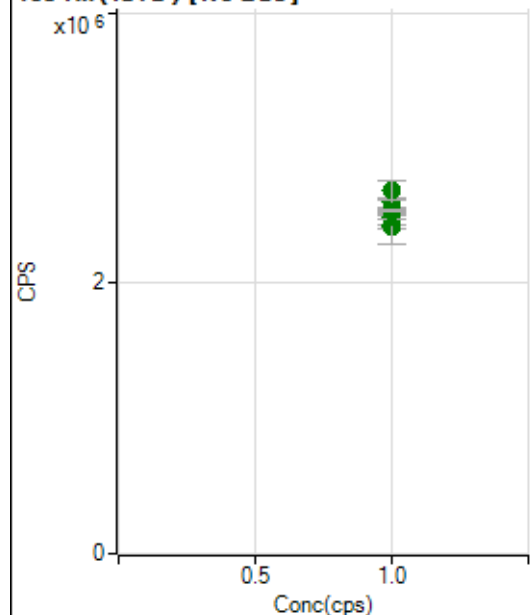
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|----------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 64089.93 |       | P       | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 65180.40 |       | P       | 2.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 66549.79 |       | P       | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 67055.55 |       | P       | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 66701.79 |       | P       | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 64813.18 |       | P       | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 65950.56 |       | P       | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 68251.13 |       | P       | 0.4 |

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

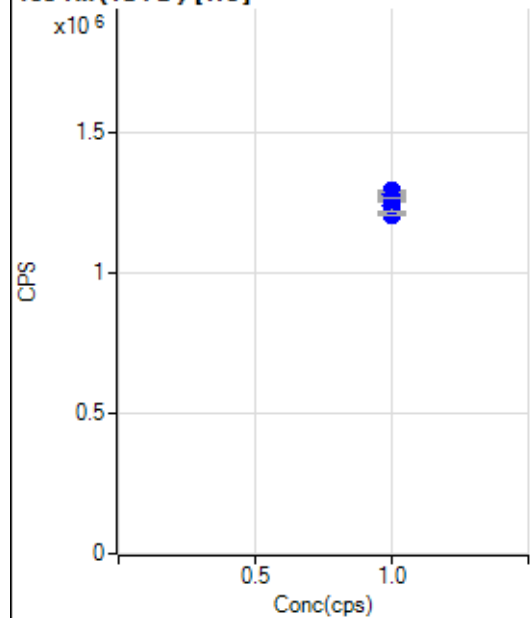
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|------------|-------|---------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 4154672.09 |       | A       | 5.7  |
| 2 | <input type="checkbox"/> | 1.000 |            | 4003737.72 |       | A       | 1.8  |
| 3 | <input type="checkbox"/> | 1.000 |            | 4356133.03 |       | A       | 4.9  |
| 4 | <input type="checkbox"/> | 1.000 |            | 4103774.59 |       | A       | 0.2  |
| 5 | <input type="checkbox"/> | 1.000 |            | 4073061.85 |       | A       | 12.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4144364.70 |       | A       | 1.2  |
| 7 | <input type="checkbox"/> | 1.000 |            | 4501411.01 |       | A       | 5.4  |
| 8 | <input type="checkbox"/> | 1.000 |            | 4400142.85 |       | A       | 1.7  |

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

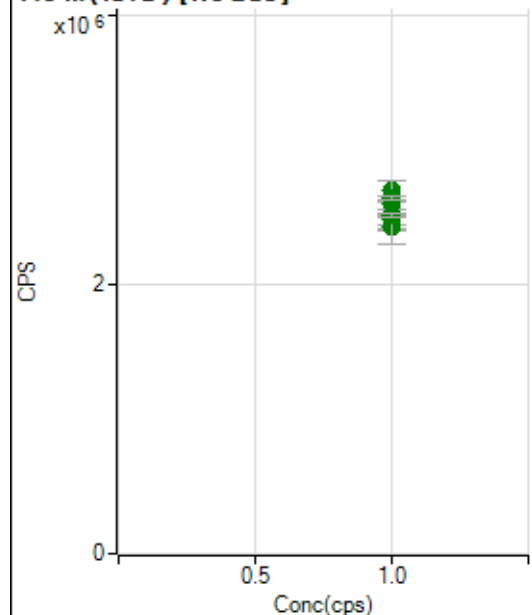
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-----------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 527109.63 |       | P       | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 532723.76 |       | P       | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 548585.08 |       | P       | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 556199.82 |       | P       | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 558948.34 |       | P       | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 543312.63 |       | P       | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 556048.43 |       | P       | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 581122.24 |       | P       | 0.5 |

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

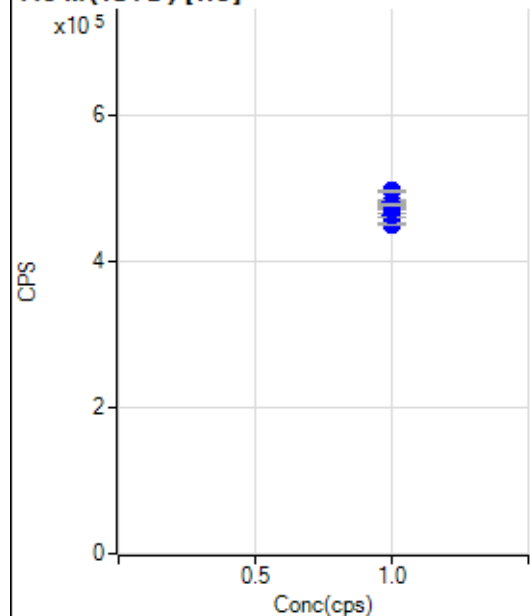
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|------------|-------|---------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 2485352.18 |       | A       | 4.2  |
| 2 | <input type="checkbox"/> | 1.000 |            | 2424307.46 |       | A       | 1.2  |
| 3 | <input type="checkbox"/> | 1.000 |            | 2597366.18 |       | A       | 2.9  |
| 4 | <input type="checkbox"/> | 1.000 |            | 2499599.67 |       | A       | 1.6  |
| 5 | <input type="checkbox"/> | 1.000 |            | 2429786.84 |       | A       | 11.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2493115.40 |       | A       | 1.0  |
| 7 | <input type="checkbox"/> | 1.000 |            | 2684576.90 |       | A       | 5.2  |
| 8 | <input type="checkbox"/> | 1.000 |            | 2536980.44 |       | A       | 0.8  |

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

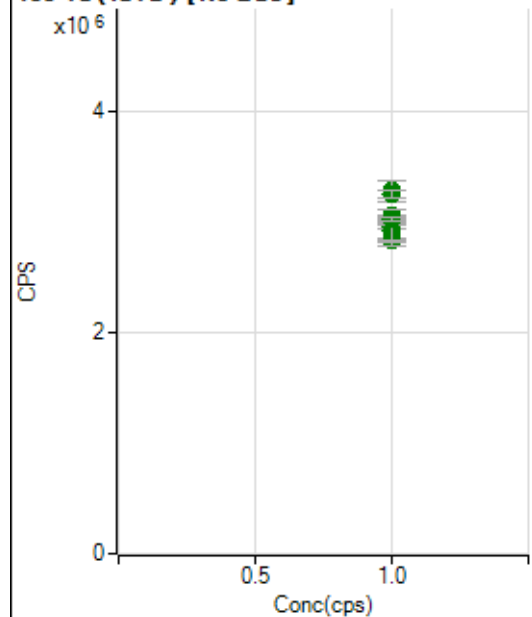
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1209841.12 |       | P       | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1239651.31 |       | P       | 2.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1280522.99 |       | P       | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1291825.63 |       | P       | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1294104.82 |       | P       | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1260630.94 |       | P       | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1281148.43 |       | P       | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1269279.10 |       | P       | 0.2 |

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

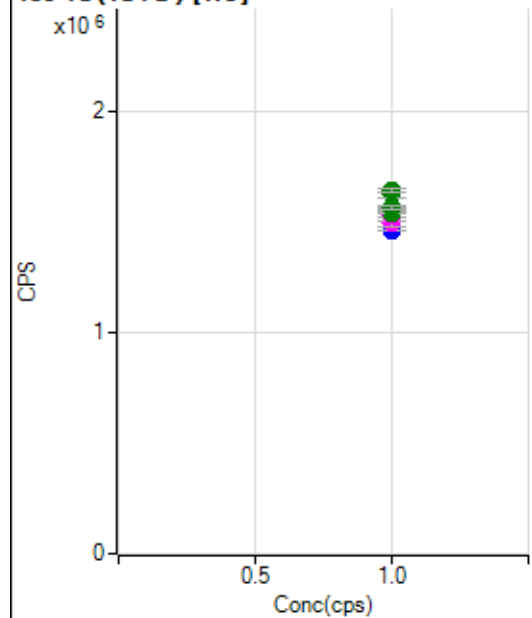
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|------------|-------|---------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 2475206.92 |       | A       | 6.3  |
| 2 | <input type="checkbox"/> | 1.000 |            | 2427756.50 |       | A       | 1.1  |
| 3 | <input type="checkbox"/> | 1.000 |            | 2599174.45 |       | A       | 3.7  |
| 4 | <input type="checkbox"/> | 1.000 |            | 2515986.38 |       | A       | 0.5  |
| 5 | <input type="checkbox"/> | 1.000 |            | 2425646.23 |       | A       | 11.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2504192.71 |       | A       | 1.1  |
| 7 | <input type="checkbox"/> | 1.000 |            | 2690677.39 |       | A       | 5.9  |
| 8 | <input type="checkbox"/> | 1.000 |            | 2634972.48 |       | A       | 0.8  |

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

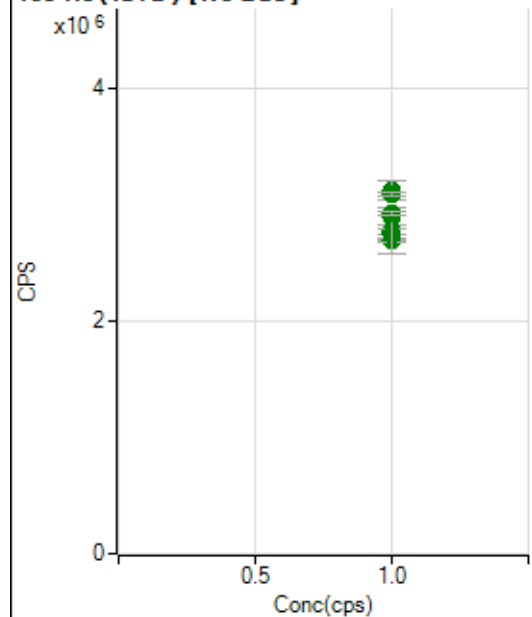
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-----------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 450083.07 |       | P       | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 461756.57 |       | P       | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 473830.83 |       | P       | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 481813.89 |       | P       | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 481700.48 |       | P       | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 470621.94 |       | P       | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 476418.29 |       | P       | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 495544.24 |       | P       | 0.5 |

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

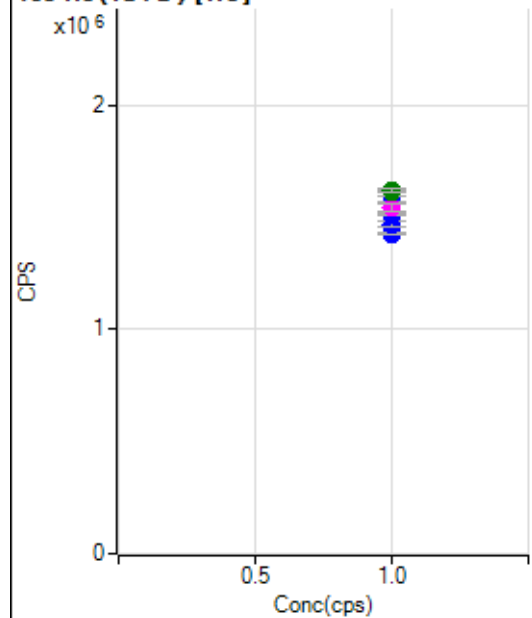
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2924530.31 |       | A       | 4.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2827062.70 |       | A       | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3065106.79 |       | A       | 2.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2955512.84 |       | A       | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2922640.60 |       | A       | 9.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3023656.59 |       | A       | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3280888.46 |       | A       | 5.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3251866.79 |       | A       | 2.1 |

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

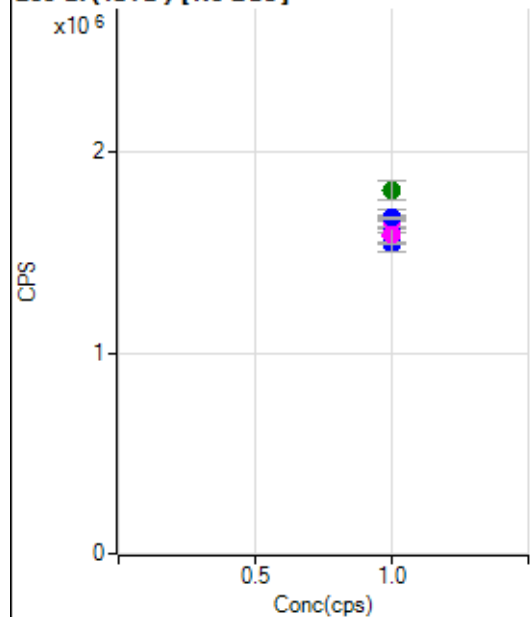
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1461849.54 |       | P       | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1493687.03 |       | M       | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1530123.28 |       | M       | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1543624.72 |       | A       | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1568685.67 |       | A       | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1566749.04 |       | A       | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1624356.69 |       | A       | 1.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1643061.40 |       | A       | 1.1 |

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

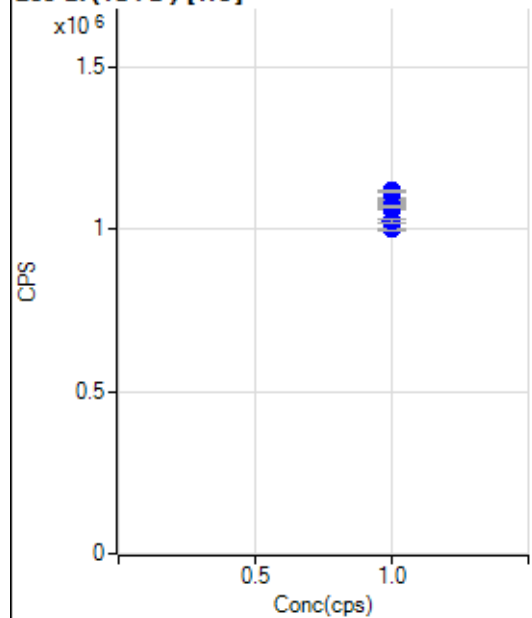
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|------------|-------|---------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 2751789.84 |       | A       | 4.5  |
| 2 | <input type="checkbox"/> | 1.000 |            | 2691478.12 |       | A       | 0.8  |
| 3 | <input type="checkbox"/> | 1.000 |            | 2892422.70 |       | A       | 5.3  |
| 4 | <input type="checkbox"/> | 1.000 |            | 2771232.14 |       | A       | 1.8  |
| 5 | <input type="checkbox"/> | 1.000 |            | 2742999.19 |       | A       | 11.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2915533.70 |       | A       | 1.0  |
| 7 | <input type="checkbox"/> | 1.000 |            | 3112768.17 |       | A       | 5.4  |
| 8 | <input type="checkbox"/> | 1.000 |            | 3089072.40 |       | A       | 1.2  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1427245.10 |       | P       | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1468963.50 |       | P       | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1514685.86 |       | P       | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1563043.92 |       | P       | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1568160.10 |       | P       | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1545240.55 |       | M       | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1609579.46 |       | A       | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1619318.24 |       | A       | 1.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|------------|-------|---------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 1583890.10 |       | M       | 4.3  |
| 2 | <input type="checkbox"/> | 1.000 |            | 1545646.28 |       | P       | 1.0  |
| 3 | <input type="checkbox"/> | 1.000 |            | 1670522.39 |       | M       | 5.0  |
| 4 | <input type="checkbox"/> | 1.000 |            | 1601536.76 |       | P       | 0.4  |
| 5 | <input type="checkbox"/> | 1.000 |            | 1592323.92 |       | M       | 11.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1658984.45 |       | M       | 0.4  |
| 7 | <input type="checkbox"/> | 1.000 |            | 1807520.89 |       | A       | 5.3  |
| 8 | <input type="checkbox"/> | 1.000 |            | 1674913.26 |       | P       | 0.5  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 999201.93  |       | P       | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1026403.51 |       | P       | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1061336.79 |       | P       | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1080847.93 |       | P       | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1091420.50 |       | P       | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1087168.13 |       | P       | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1118361.84 |       | P       | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1070203.73 |       | P       | 0.7 |

# US EPA Tune Check Report

Operator Name Jaswal  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8020521MS.b  
Acq. Date-Time 2021-02-05 11:29:11  
Report Comment ---  
Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|--------|-----------------|
| 9    |              | 1832  | 18318.85  |                            |             | 2.415  | 5.000           |
| 24   |              | 20306 | 203064.39 |                            |             | 1.955  | 5.000           |
| 25   |              | 2741  | 27405.15  |                            |             | 2.347  | 5.000           |
| 26   |              | 3149  | 31494.29  |                            |             | 3.078  | 5.000           |
| 59   |              | 4266  | 42661.73  |                            |             | 2.240  | 5.000           |
| 113  |              | 2009  | 20088.32  |                            |             | 2.435  | 5.000           |
| 115  |              | 6534  | 65337.30  |                            |             | 2.520  | 5.000           |
| 206  |              | 2373  | 23730.38  |                            |             | 3.378  | 5.000           |
| 207  |              | 1969  | 19689.17  |                            |             | 2.761  | 5.000           |
| 208  |              | 4850  | 48498.11  |                            |             | 2.700  | 5.000           |
| 220  |              | 1     | 6.30      |                            |             | 19.920 |                 |

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

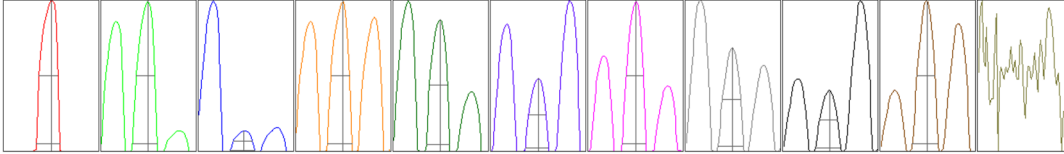
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 1864        | 1862        | 1757        | 1827        | 1849        |
| 24   | 20488       | 20546       | 19610       | 20350       | 20537       |
| 25   | 2787        | 2777        | 2631        | 2735        | 2772        |
| 26   | 3226        | 3193        | 2981        | 3183        | 3164        |
| 59   | 4347        | 4326        | 4104        | 4277        | 4278        |
| 113  | 2029        | 2032        | 1923        | 2017        | 2043        |
| 115  | 6669        | 6663        | 6263        | 6524        | 6549        |
| 206  | 2425        | 2419        | 2239        | 2357        | 2425        |
| 207  | 1966        | 2013        | 1879        | 1977        | 2010        |
| 208  | 4890        | 4922        | 4628        | 4847        | 4961        |

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 3249.29     | 9.05   | 8.90 - 9.10     |             |
| 24   | 36726.07    | 24.00  | 23.90 - 24.10   |             |
| 25   | 4842.20     | 24.95  | 24.90 - 25.10   |             |
| 26   | 5699.39     | 26.00  | 25.90 - 26.10   |             |
| 59   | 7962.52     | 59.00  | 58.90 - 59.10   |             |
| 113  | 3886.54     | 113.05 | 112.90 - 113.10 |             |
| 115  | 12729.48    | 115.05 | 114.90 - 115.10 |             |
| 206  | 4352.80     | 206.00 | 205.90 - 206.10 |             |
| 207  | 3637.40     | 207.00 | 206.90 - 207.10 |             |
| 208  | 8941.07     | 208.00 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.59  | 0.738 | 0.900           |             |
| 24   | 0.58  | 0.783 | 0.900           |             |
| 25   | 0.60  | 0.776 | 0.900           |             |
| 26   | 0.59  | 0.783 | 0.900           |             |
| 59   | 0.57  | 0.735 | 0.900           |             |
| 113  | 0.54  | 0.731 | 0.900           |             |
| 115  | 0.53  | 0.761 | 0.900           |             |
| 206  | 0.58  | 0.809 | 0.900           |             |
| 207  | 0.56  | 0.804 | 0.900           |             |
| 208  | 0.57  | 0.818 | 0.900           |             |
| 220  |       |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

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

# US EPA Tune Check Report

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

## Lens Parameters

|            |          |               |        |            |        |
|------------|----------|---------------|--------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 11.9 V | Deflect    | 15.8 V |
| Extract 2  | -200.0 V | Cell Entrance | -30 V  | Plate Bias | -50 V  |
| Omega Bias | -100 V   | Cell Exit     | -50 V  |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 160 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 121 | Axis Gain   | 0.9991 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | -0.02  |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 0.6 mm | Torch V | -0.3 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.0 mV | Analog HV | 2190 V | Pulse HV | 1356 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS      | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 995   | 9948.48  |                            |             | 2.910 |                 |
| 89   |              | 6034  | 60337.38 |                            |             | 3.172 |                 |
| 205  |              | 2243  | 22425.47 |                            |             | 3.793 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 999         | 1005        | 1001        | 946         | 1024        |
| 89   | 6106        | 6087        | 6071        | 5704        | 6201        |
| 205  | 2271        | 2263        | 2263        | 2096        | 2320        |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

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

### Lens Parameters

|           |        |            |        |         |       |
|-----------|--------|------------|--------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 11.9 V | Deflect | 4.4 V |
|-----------|--------|------------|--------|---------|-------|

# US EPA Tune Check Report

|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -200.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias               | -100 V     | Cell Exit     | -70 V   |                       |         |
| <b>Cell Parameters</b>   |            |               |         |                       |         |
| Use Gas                  | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow                  | 4.5 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow                  | ---        | OctP RF       | 200 V   |                       |         |
| <b>QP Parameters</b>     |            |               |         |                       |         |
| Mass Gain                | 121        | Axis Gain     | 0.9991  | QP Bias               | -13.0 V |
| Mass Offset              | 125        | Axis Offset   | -0.02   |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 0.6 mm     | Torch V       | -0.3 mm |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 4.0 mV     | Analog HV     | 2190 V  | Pulse HV              | 1356 V  |