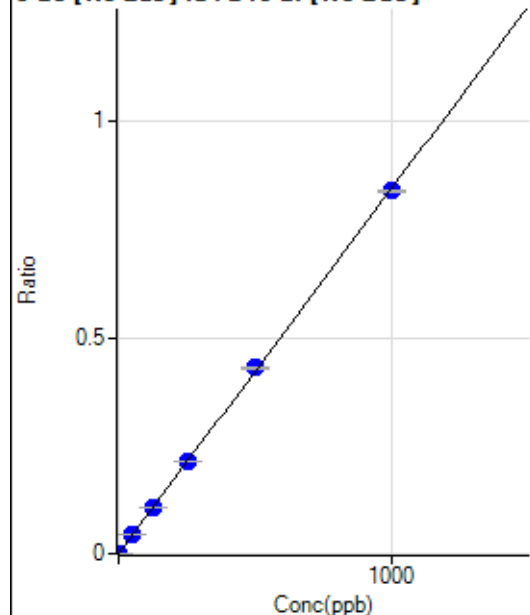


Calibration for 006CALS.d

Batch Folder: D:\ICP-MS Data\P7072819 MS.b\  
 Analysis File: P7072819 MS.batch.bin  
 DA Date-Time: 2019-07-28 14:34:50  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 002CALB.d          | S00         | 2019-07-28 11:57:56 |
| 2     | 003CALS.d          | S01         | 2019-07-28 12:01:32 |
| 3     | 004CALS.d          | S02         | 2019-07-28 12:06:02 |
| 4     | 005CALS.d          | S03         | 2019-07-28 12:09:58 |
| 5     | 006CALS.d          | S04         | 2019-07-28 12:14:11 |
| 6     | 007CALS.d          | S05         | 2019-07-28 12:18:01 |
| 7     | 008CALS.d          | S06         | 2019-07-28 12:21:50 |
| 8     | 009CALS.d          | S07         | 2019-07-28 12:25:37 |
| 9     | 010CALS.d          | S08         | 2019-07-28 12:29:22 |

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0000 | P    | 51.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.103      | 223.34     | 0.0001 | P    | 11.5 |
| 3 | <input type="checkbox"/> | 1.000    | 0.954      | 1746.80    | 0.0008 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 52.285     | 92936.12   | 0.0442 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 128.872    | 219253.54  | 0.1088 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 254.315    | 407186.68  | 0.2147 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 508.566    | 792364.21  | 0.4293 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.040    | 1549551.54 | 0.8392 | P    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 311.12     | 0.0002 | P    | 12.6 |

$$y = 8.4419\text{E-}004 * x + 1.8502\text{E-}005$$

$$R = 0.9999$$

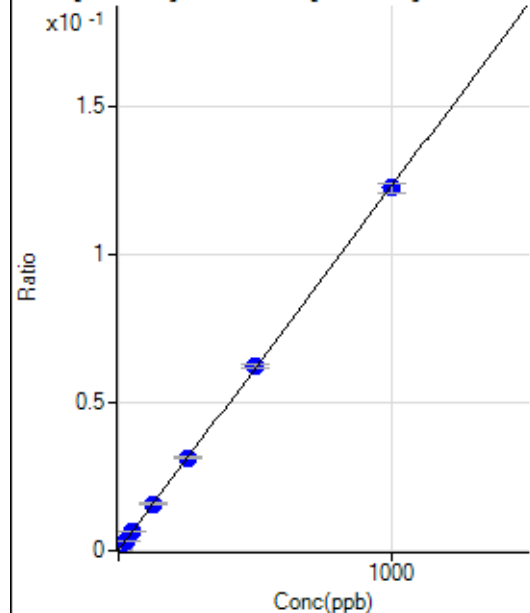
$$DL = 0.03389$$

$$BEC = 0.02192$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 391.69    | 0.0002 | P    | 18.7 |
| 2 | <input type="checkbox"/> | 2.500    | 2.214      | 969.52    | 0.0005 | P    | 15.8 |
| 3 | <input type="checkbox"/> | 25.000   | 22.765     | 6312.71   | 0.0030 | P    | 3.3  |
| 4 | <input type="checkbox"/> | 50.000   | 51.748     | 13751.22  | 0.0065 | P    | 3.2  |
| 5 | <input type="checkbox"/> | 125.000  | 126.209    | 31564.36  | 0.0157 | P    | 3.0  |
| 6 | <input type="checkbox"/> | 250.000  | 254.472    | 59542.94  | 0.0314 | P    | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 506.953    | 115099.57 | 0.0624 | P    | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.224    | 225743.81 | 0.1223 | P    | 2.4  |
| 9 | <input type="checkbox"/> |          |            | 11916.15  | 0.0065 | P    | 10.6 |

$$y = 1.2266\text{E-}004 * x + 1.8644\text{E-}004$$

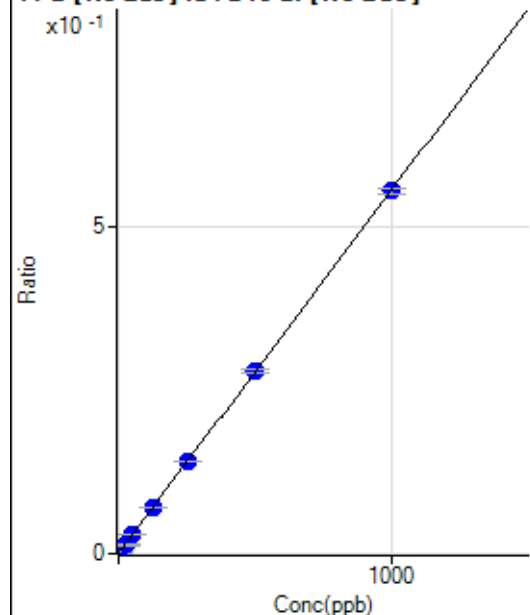
$$R = 0.9999$$

$$DL = 0.8527$$

$$BEC = 1.52$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1839.07    | 0.0009 | P    | 5.3  |
| 2 | <input type="checkbox"/> | 2.500    | 2.138      | 4367.48    | 0.0021 | P    | 5.1  |
| 3 | <input type="checkbox"/> | 25.000   | 22.267     | 28060.28   | 0.0132 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.402     | 60756.04   | 0.0289 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 126.365    | 143160.78  | 0.0711 | P    | 1.9  |
| 6 | <input type="checkbox"/> | 250.000  | 252.650    | 267744.59  | 0.1412 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 500.000  | 502.501    | 516649.33  | 0.2800 | P    | 1.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.966    | 1025014.18 | 0.5551 | P    | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 53925.44   | 0.0293 | P    | 10.4 |

$$y = 5.5538E-004 * x + 8.7525E-004$$

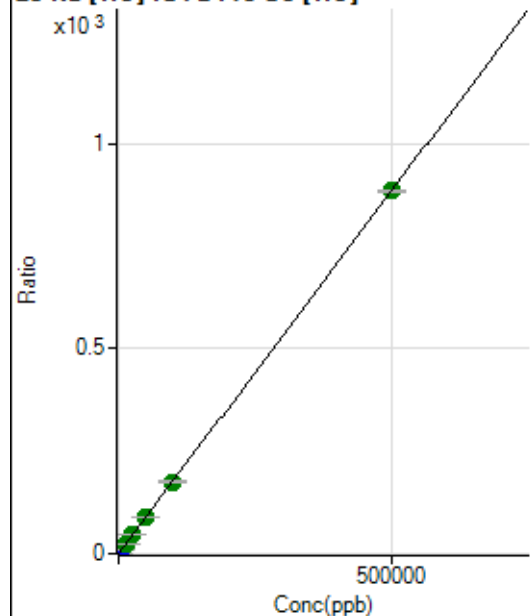
$$R = 1.0000$$

$$DL = 0.2513$$

$$BEC = 1.576$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 9928.67     | 0.0422   | P    | 1.7 |
| 2 | <input type="checkbox"/> | 50.000    | 48.055     | 30320.42    | 0.1271   | P    | 1.8 |
| 3 | <input type="checkbox"/> | 500.000   | 478.107    | 211946.27   | 0.8872   | P    | 0.3 |
| 4 | <input type="checkbox"/> | 5000.000  | 5040.499   | 2087821.66  | 8.9509   | P    | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12525.030  | 4886296.51  | 22.1793  | A    | 0.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 25478.421  | 9534744.22  | 45.0736  | A    | 0.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 50657.599  | 19038645.74 | 89.5761  | A    | 0.9 |
| 8 | <input type="checkbox"/> | 100000.00 | 99273.220  | 38536390.79 | 175.5009 | A    | 0.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 500054.66  | 195604997.4 | 883.8553 | A    | 0.8 |

$$y = 0.0018 * x + 0.0422$$

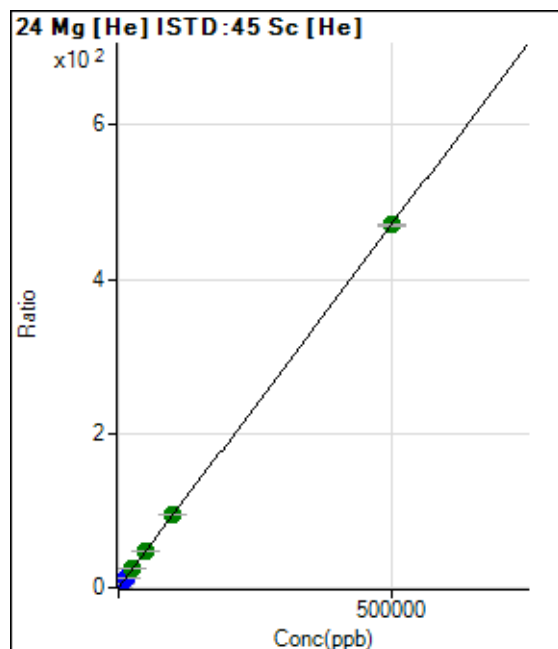
$$R = 1.0000$$

$$DL = 1.187$$

$$BEC = 23.86$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 161.12      | 0.0007   | P    | 21.3 |
| 2 | <input type="checkbox"/> | 50.000    | 51.357     | 11696.67    | 0.0490   | P    | 0.7  |
| 3 | <input type="checkbox"/> | 500.000   | 503.673    | 113432.02   | 0.4748   | P    | 0.6  |
| 4 | <input type="checkbox"/> | 5000.000  | 5146.448   | 1130168.69  | 4.8453   | P    | 0.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 12701.054  | 2634139.12  | 11.9568  | P    | 0.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 25889.355  | 5155482.45  | 24.3715  | A    | 0.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 51174.082  | 10238842.94 | 48.1731  | A    | 0.7  |
| 8 | <input type="checkbox"/> | 100000.00 | 99970.189  | 20663935.36 | 94.1071  | A    | 0.3  |
| 9 | <input type="checkbox"/> | 500000.00 | 499837.59  | 104130892.6 | 470.5200 | A    | 0.5  |

$$y = 9.4134\text{E-}004 * x + 6.8460\text{E-}004$$

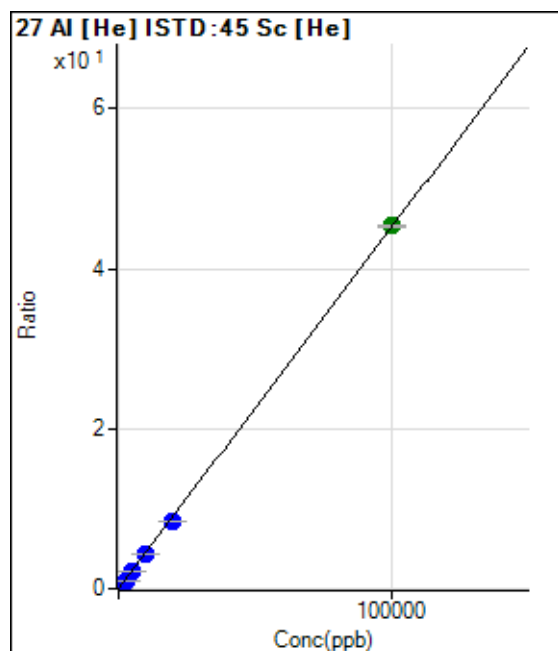
$$R = 1.0000$$

$$DL = 0.4649$$

$$BEC = 0.7273$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 333.35      | 0.0014  | P    | 10.9 |
| 2 | <input type="checkbox"/> | 2.000     | 1.527      | 502.81      | 0.0021  | P    | 16.9 |
| 3 | <input type="checkbox"/> | 20.000    | 17.767     | 2255.82     | 0.0094  | P    | 0.5  |
| 4 | <input type="checkbox"/> | 1000.000  | 972.645    | 102824.48   | 0.4409  | P    | 1.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2375.017   | 236710.87   | 1.0744  | P    | 1.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 4804.696   | 459496.24   | 2.1721  | P    | 0.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9461.667   | 908859.94   | 4.2761  | P    | 0.8  |
| 8 | <input type="checkbox"/> | 20000.000 | 18470.840  | 1832702.65  | 8.3464  | P    | 0.5  |
| 9 | <input type="checkbox"/> | 100000.00 | 100372.82  | 10036101.09 | 45.3492 | A    | 0.7  |

$$y = 4.5179\text{E-}004 * x + 0.0014$$

$$R = 0.9999$$

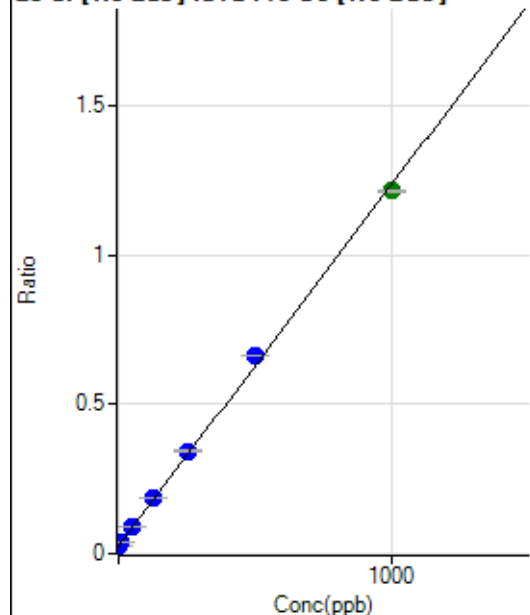
$$DL = 1.022$$

$$BEC = 3.133$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct                | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|-------------------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 120406.85  | 0.0259 | P    | 0.0 |
| 2 | <input checked="" type="checkbox"/> | 1.000    |            | 125316.84  | 0.0268 | P    | 0.5 |
| 3 | <input type="checkbox"/>            | 10.000   | 8.245      | 170233.07  | 0.0359 | P    | 1.1 |
| 4 | <input type="checkbox"/>            | 50.000   | 53.097     | 424741.87  | 0.0902 | P    | 0.8 |
| 5 | <input type="checkbox"/>            | 125.000  | 131.376    | 831780.05  | 0.1849 | P    | 0.8 |
| 6 | <input type="checkbox"/>            | 250.000  | 262.478    | 1454648.66 | 0.3436 | P    | 0.8 |
| 7 | <input type="checkbox"/>            | 500.000  | 525.710    | 2762418.20 | 0.6622 | P    | 0.2 |
| 8 | <input type="checkbox"/>            | 1000.000 | 983.091    | 5169963.35 | 1.2158 | A    | 0.6 |
| 9 | <input type="checkbox"/>            |          |            | 328072.69  | 0.0771 | P    | 0.5 |

$$y = 0.0012 * x + 0.0259$$

$$R = 0.9994$$

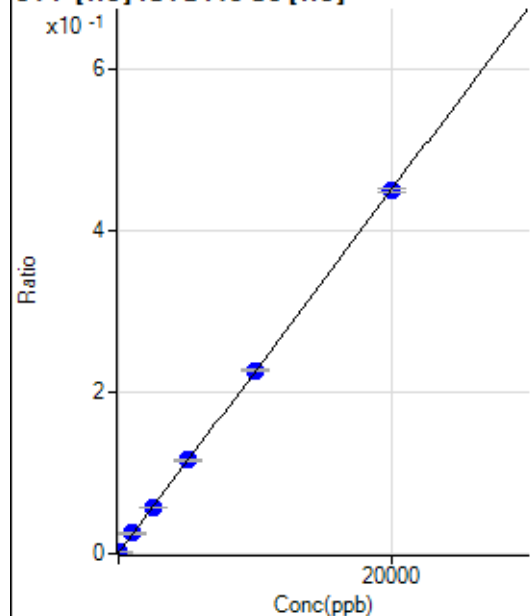
$$DL = 0.02575$$

$$BEC = 21.39$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct                | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|-------------------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/>            | 0.000     | -22.911    | 83.34    | 0.0004 | P    | 10.3 |
| 2 | <input checked="" type="checkbox"/> | 0.000     |            | 102.78   | 0.0004 | P    | 53.7 |
| 3 | <input type="checkbox"/>            | 0.000     | 22.911     | 330.58   | 0.0014 | P    | 13.3 |
| 4 | <input type="checkbox"/>            | 1000.000  | 1072.800   | 5829.19  | 0.0250 | P    | 3.8  |
| 5 | <input type="checkbox"/>            | 2500.000  | 2503.154   | 12592.03 | 0.0572 | P    | 1.5  |
| 6 | <input type="checkbox"/>            | 5000.000  | 5132.201   | 24595.95 | 0.1163 | P    | 1.9  |
| 7 | <input type="checkbox"/>            | 10000.000 | 10063.914  | 48281.84 | 0.2272 | P    | 0.6  |
| 8 | <input type="checkbox"/>            | 20000.000 | 19930.958  | 98597.23 | 0.4490 | P    | 0.9  |
| 9 | <input type="checkbox"/>            |           |            | 138.90   | 0.0006 | P    | 18.8 |

$$y = 2.2486E-005 * x + 8.6916E-004$$

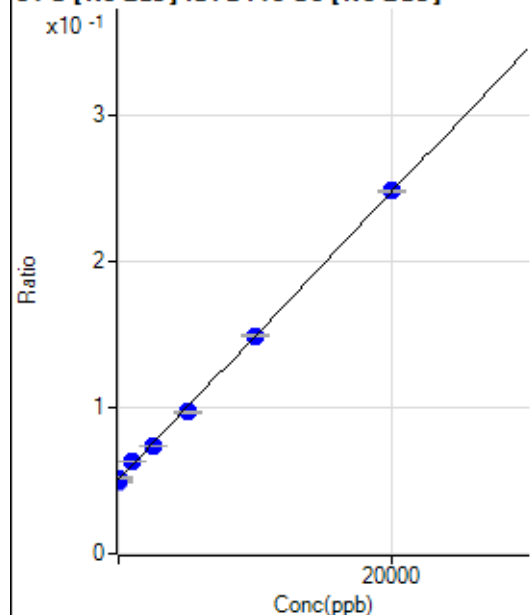
$$R = 1.0000$$

$$DL = 14.74$$

$$BEC = 38.65$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct                | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|-------------------------------------|-----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/>            | 0.000     | -105.831   | 230365.31  | 0.0495 | P    | 0.2 |
| 2 | <input checked="" type="checkbox"/> | 0.000     |            | 226029.41  | 0.0483 | P    | 1.3 |
| 3 | <input type="checkbox"/>            | 0.000     | 105.831    | 244974.74  | 0.0516 | P    | 1.0 |
| 4 | <input type="checkbox"/>            | 1000.000  | 1261.756   | 296690.14  | 0.0630 | P    | 0.4 |
| 5 | <input type="checkbox"/>            | 2500.000  | 2325.192   | 330301.11  | 0.0734 | P    | 0.9 |
| 6 | <input type="checkbox"/>            | 5000.000  | 4715.472   | 410346.98  | 0.0969 | P    | 0.8 |
| 7 | <input type="checkbox"/>            | 10000.000 | 10014.501  | 621474.12  | 0.1490 | P    | 0.8 |
| 8 | <input type="checkbox"/>            | 20000.000 | 20072.645  | 1053734.51 | 0.2478 | P    | 0.4 |
| 9 | <input type="checkbox"/>            |           |            | 182623.58  | 0.0429 | P    | 1.9 |

$$y = 9.8254\text{E-}006 * x + 0.0506$$

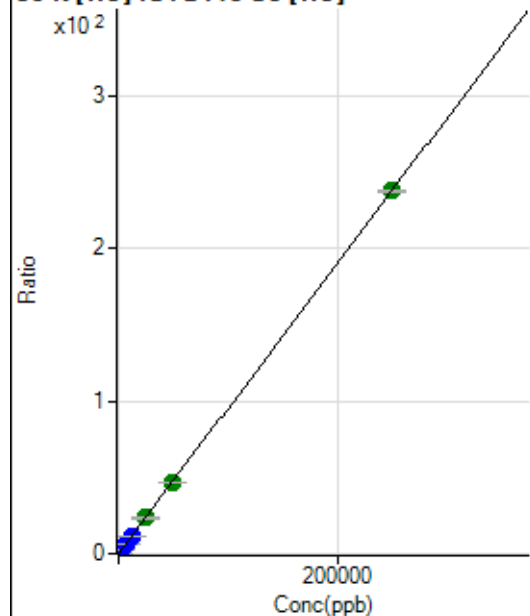
$$R = 0.9997$$

$$DL = 93.41$$

$$BEC = 5148$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 15083.28    | 0.0641   | P    | 3.2 |
| 2 | <input type="checkbox"/> | 50.000    | 47.924     | 26129.53    | 0.1095   | P    | 0.5 |
| 3 | <input type="checkbox"/> | 500.000   | 474.574    | 122877.60   | 0.5144   | P    | 1.2 |
| 4 | <input type="checkbox"/> | 2500.000  | 2491.372   | 566361.75   | 2.4281   | P    | 0.9 |
| 5 | <input type="checkbox"/> | 6250.000  | 6099.196   | 1289141.07  | 5.8516   | P    | 0.4 |
| 6 | <input type="checkbox"/> | 12500.000 | 12257.973  | 2474069.41  | 11.6957  | P    | 1.0 |
| 7 | <input type="checkbox"/> | 25000.000 | 24576.659  | 4970302.50  | 23.3850  | A    | 0.8 |
| 8 | <input type="checkbox"/> | 50000.000 | 48500.986  | 10119719.49 | 46.0870  | A    | 0.3 |
| 9 | <input type="checkbox"/> | 250000.00 | 250358.14  | 52590136.94 | 237.6308 | A    | 0.4 |

$$y = 9.4891\text{E-}004 * x + 0.0641$$

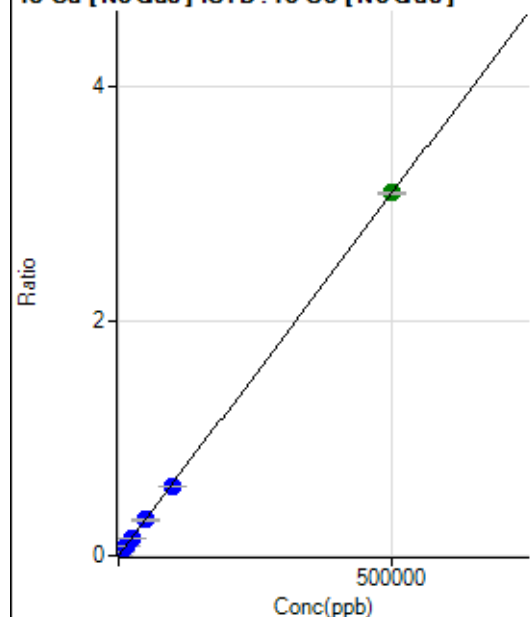
$$R = 1.0000$$

$$DL = 6.472$$

$$BEC = 67.5$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 313.90      | 0.0001 | P    | 12.2 |
| 2 | <input type="checkbox"/> | 50.000    | 46.299     | 1655.72     | 0.0004 | P    | 7.6  |
| 3 | <input type="checkbox"/> | 500.000   | 453.734    | 13631.85    | 0.0029 | P    | 2.7  |
| 4 | <input type="checkbox"/> | 5000.000  | 4888.089   | 142681.80   | 0.0303 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 12500.000 | 12293.701  | 342184.62   | 0.0761 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 25000.000 | 24414.583  | 639331.20   | 0.1510 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 49126.197  | 1267201.06  | 0.3038 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 100000.00 | 96089.875  | 2526334.80  | 0.5941 | P    | 0.3  |
| 9 | <input type="checkbox"/> | 500000.00 | 500904.99  | 13172363.14 | 3.0967 | A    | 0.4  |

$$y = 6.1820E-006 * x + 6.7516E-005$$

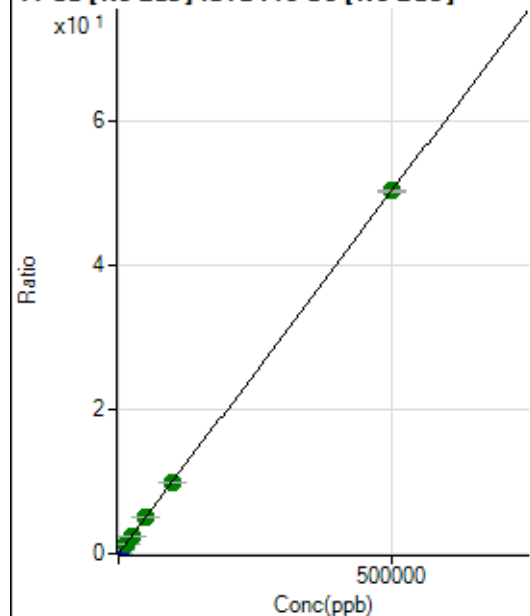
$$R = 1.0000$$

$$DL = 3.991$$

$$BEC = 10.92$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 7285.54     | 0.0016  | P    | 7.9 |
| 2 | <input type="checkbox"/> | 50.000    | 47.933     | 29889.53    | 0.0064  | P    | 1.2 |
| 3 | <input type="checkbox"/> | 500.000   | 457.450    | 225644.16   | 0.0475  | P    | 0.4 |
| 4 | <input type="checkbox"/> | 5000.000  | 4922.262   | 2338156.50  | 0.4963  | P    | 0.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12236.817  | 5540072.78  | 1.2315  | A    | 0.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 24518.299  | 10440535.65 | 2.4659  | A    | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 49522.554  | 20771082.24 | 4.9791  | A    | 0.1 |
| 8 | <input type="checkbox"/> | 100000.00 | 98029.771  | 41905718.65 | 9.8545  | A    | 0.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 500473.27  | 213981377.0 | 50.3041 | A    | 0.3 |

$$y = 1.0051E-004 * x + 0.0016$$

$$R = 1.0000$$

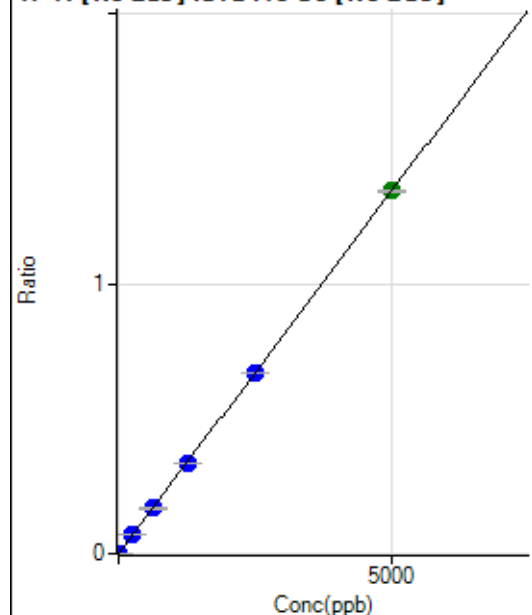
$$DL = 3.693$$

$$BEC = 15.59$$

Weight: &lt;None&gt;

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78      | 0.0000 | P   | 51.0 |
| 2 | <input type="checkbox"/> | 0.500    | 0.516      | 702.83     | 0.0002 | P   | 7.4  |
| 3 | <input type="checkbox"/> | 5.000    | 5.062      | 6510.06    | 0.0014 | P   | 5.8  |
| 4 | <input type="checkbox"/> | 250.000  | 254.097    | 321647.04  | 0.0683 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 624.568    | 754890.03  | 0.1678 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 1250.000 | 1249.704   | 1421550.69 | 0.3357 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2489.179   | 2789715.49 | 0.6687 | P   | 0.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 5005.334   | 5718221.18 | 1.3447 | A   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 2175.27    | 0.0005 | P   | 1.0  |

$$y = 2.6865E-004 * x + 1.1360E-005$$

$$R = 1.0000$$

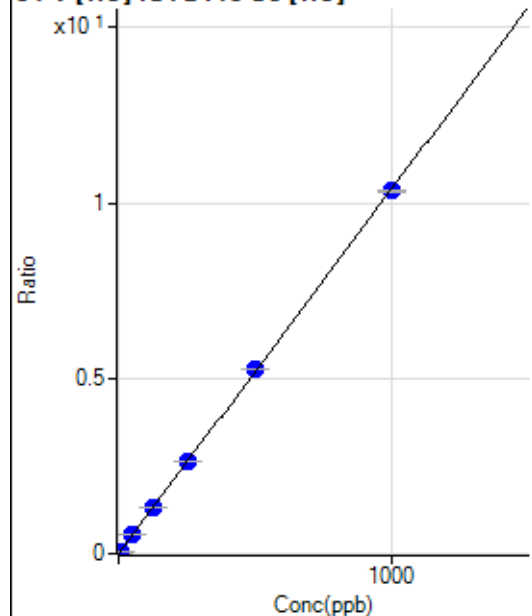
$$DL = 0.06472$$

$$BEC = 0.04229$$

Weight: &lt;None&gt;

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.44       | 0.0000  | P   | 43.3 |
| 2 | <input type="checkbox"/> | 0.500    | 0.524      | 1303.41    | 0.0055  | P   | 2.2  |
| 3 | <input type="checkbox"/> | 5.000    | 5.203      | 12913.59   | 0.0541  | P   | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 51.678     | 125187.13  | 0.5367  | P   | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 126.603    | 289653.26  | 1.3148  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 254.931    | 560037.30  | 2.6475  | P   | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 505.887    | 1116624.02 | 5.2536  | P   | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.539    | 2270161.37 | 10.3387 | P   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 398.90     | 0.0018  | P   | 2.5  |

$$y = 0.0104 * x + 1.8867E-005$$

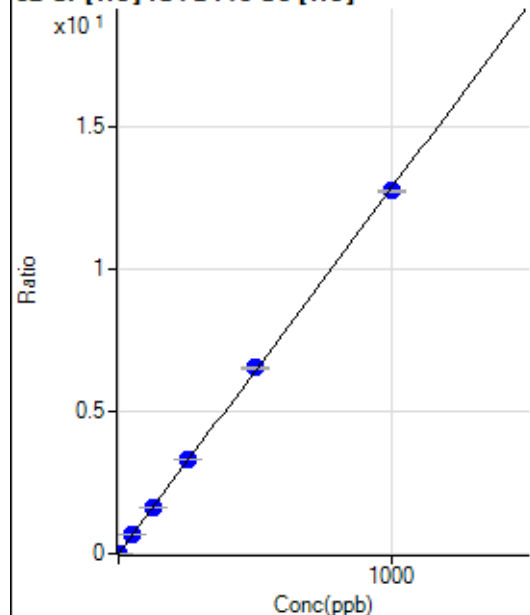
$$R = 1.0000$$

$$DL = 0.002361$$

$$BEC = 0.001817$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 616.69     | 0.0026  | P   | 5.9 |
| 2 | <input type="checkbox"/> | 0.200    | 0.218      | 1294.52    | 0.0054  | P   | 3.5 |
| 3 | <input type="checkbox"/> | 2.000    | 1.958      | 6642.72    | 0.0278  | P   | 1.9 |
| 4 | <input type="checkbox"/> | 50.000   | 52.228     | 157340.09  | 0.6746  | P   | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 128.119    | 363712.26  | 1.6509  | P   | 0.7 |
| 6 | <input type="checkbox"/> | 250.000  | 258.333    | 703599.58  | 3.3262  | P   | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 509.619    | 1394084.01 | 6.5591  | P   | 1.0 |
| 8 | <input type="checkbox"/> | 1000.000 | 992.606    | 2804666.10 | 12.7729 | P   | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 42207.05   | 0.1907  | P   | 1.5 |

$$y = 0.0129 * x + 0.0026$$

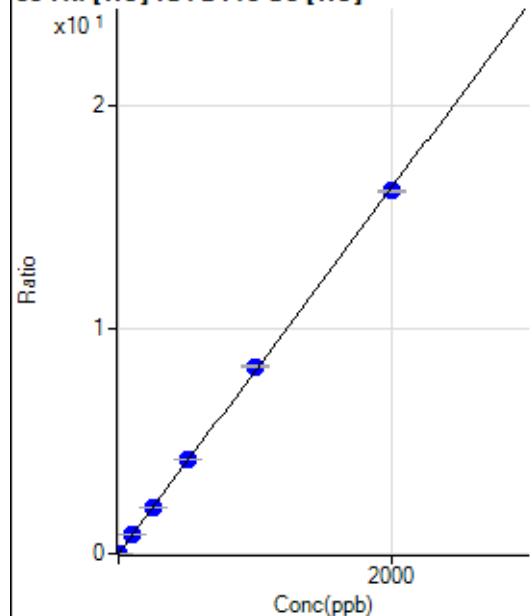
$$R = 0.9999$$

$$DL = 0.03575$$

$$BEC = 0.2035$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0001  | P   | 30.0 |
| 2 | <input type="checkbox"/> | 0.100    | 0.086      | 195.56     | 0.0008  | P   | 19.0 |
| 3 | <input type="checkbox"/> | 1.000    | 1.042      | 2057.95    | 0.0086  | P   | 5.1  |
| 4 | <input type="checkbox"/> | 100.000  | 104.338    | 198432.20  | 0.8507  | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 256.049    | 459887.91  | 2.0875  | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 516.772    | 891190.98  | 4.2130  | P   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1021.641   | 1770244.90 | 8.3289  | P   | 1.0  |
| 8 | <input type="checkbox"/> | 2000.000 | 1984.014   | 3551589.08 | 16.1745 | P   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 13312.87   | 0.0602  | P   | 0.2  |

$$y = 0.0082 * x + 1.1793E-004$$

$$R = 0.9999$$

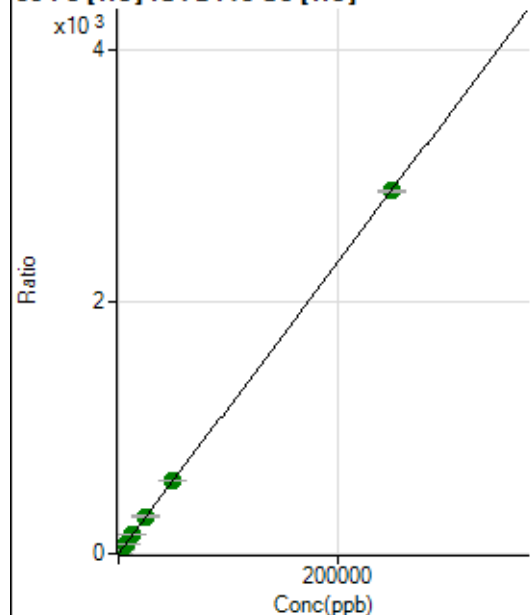
$$DL = 0.01304$$

$$BEC = 0.01447$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3176.37     | 0.0135    | P    | 4.3 |
| 2 | <input type="checkbox"/> | 5.000     | 5.132      | 17316.21    | 0.0726    | P    | 2.1 |
| 3 | <input type="checkbox"/> | 50.000    | 51.632     | 145275.68   | 0.6081    | P    | 0.6 |
| 4 | <input type="checkbox"/> | 2500.000  | 2593.564   | 6970366.01  | 29.8830   | A    | 0.2 |
| 5 | <input type="checkbox"/> | 6250.000  | 6423.847   | 16301581.03 | 73.9956   | A    | 0.3 |
| 6 | <input type="checkbox"/> | 12500.000 | 12980.411  | 31625523.85 | 149.5061  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 25000.000 | 25787.083  | 63124577.34 | 296.9979  | A    | 1.2 |
| 8 | <input type="checkbox"/> | 50000.000 | 50390.076  | 127431651.9 | 580.3453  | A    | 0.2 |
| 9 | <input type="checkbox"/> | 250000.00 | 249813.97  | 636710354.9 | 2,877.068 | A    | 0.7 |

$$y = 0.0115 * x + 0.0135$$

$$R = 1.0000$$

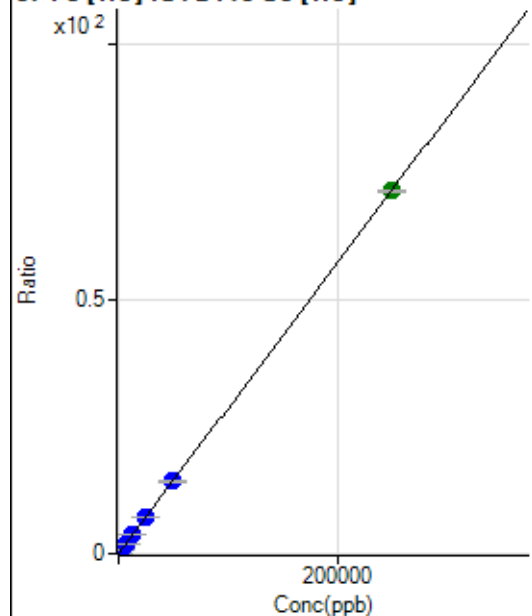
$$DL = 0.1522$$

$$BEC = 1.171$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 153.71      | 0.0007  | P    | 12.6 |
| 2 | <input type="checkbox"/> | 5.000     | 5.339      | 518.54      | 0.0022  | P    | 19.2 |
| 3 | <input type="checkbox"/> | 50.000    | 51.482     | 3663.53     | 0.0153  | P    | 4.3  |
| 4 | <input type="checkbox"/> | 2500.000  | 2608.601   | 173713.51   | 0.7448  | P    | 0.9  |
| 5 | <input type="checkbox"/> | 6250.000  | 6468.270   | 406627.02   | 1.8457  | P    | 0.6  |
| 6 | <input type="checkbox"/> | 12500.000 | 12983.504  | 783560.94   | 3.7042  | P    | 0.9  |
| 7 | <input type="checkbox"/> | 25000.000 | 25667.656  | 1556310.15  | 7.3223  | P    | 0.7  |
| 8 | <input type="checkbox"/> | 50000.000 | 49761.162  | 3116914.77  | 14.1950 | P    | 0.7  |
| 9 | <input type="checkbox"/> | 250000.00 | 249950.28  | 15778983.92 | 71.2988 | A    | 0.5  |

$$y = 2.8525E-004 * x + 6.5274E-004$$

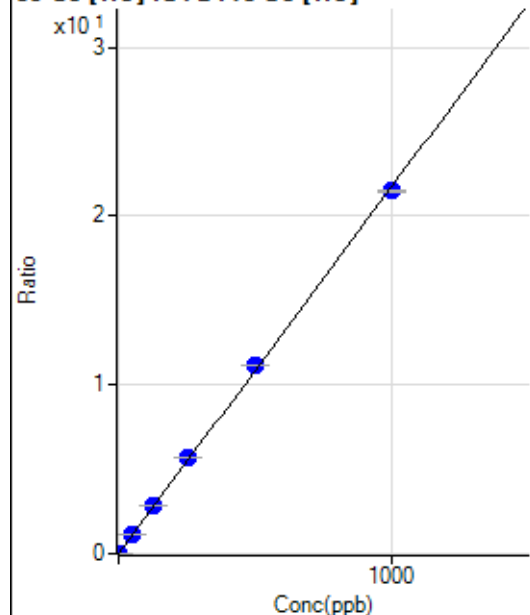
$$R = 1.0000$$

$$DL = 0.8631$$

$$BEC = 2.288$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 93.34      | 0.0004  | P        | 18.0 |
| 2 | <input type="checkbox"/> | 0.100    | 0.102      | 621.14     | 0.0026  | P        | 4.1  |
| 3 | <input type="checkbox"/> | 1.000    | 0.987      | 5216.56    | 0.0218  | P        | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 53.506     | 271195.60  | 1.1627  | P        | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 130.750    | 625789.98  | 2.8405  | P        | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 261.620    | 1202207.39 | 5.6833  | P        | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 513.449    | 2370603.42 | 11.1535 | P        | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.477    | 4719593.06 | 21.4938 | P        | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 57019.34   | 0.2577  | P        | 1.5  |

$$y = 0.0217 * x + 3.9646E-004$$

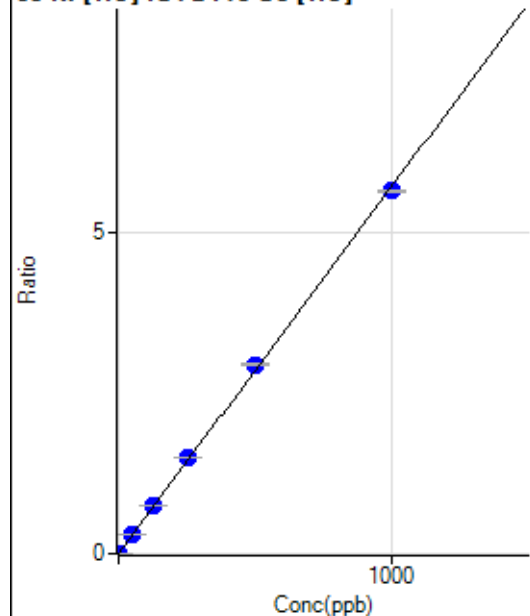
$$R = 0.9998$$

$$DL = 0.009829$$

$$BEC = 0.01825$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0002 | P        | 27.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.104      | 181.11     | 0.0008 | P        | 9.3  |
| 3 | <input type="checkbox"/> | 1.000    | 1.052      | 1474.54    | 0.0062 | P        | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 53.897     | 71823.65   | 0.3079 | P        | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 130.693    | 164438.82  | 0.7464 | P        | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 261.954    | 316426.98  | 1.4959 | P        | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 514.560    | 624507.28  | 2.9383 | P        | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 988.825    | 1239806.84 | 5.6463 | P        | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 20976.32   | 0.0948 | P        | 1.9  |

$$y = 0.0057 * x + 1.6516E-004$$

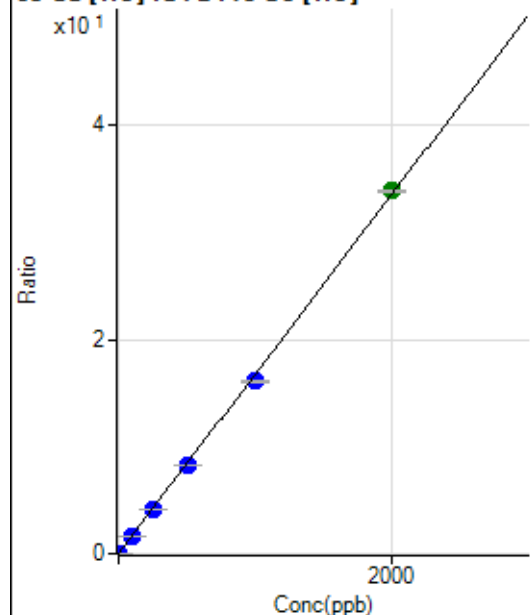
$$R = 0.9998$$

$$DL = 0.02389$$

$$BEC = 0.02893$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 605.58     | 0.0026  | P    | 6.5 |
| 2 | <input type="checkbox"/> | 0.200    | 0.195      | 1392.32    | 0.0058  | P    | 4.6 |
| 3 | <input type="checkbox"/> | 2.000    | 1.882      | 8150.18    | 0.0341  | P    | 2.7 |
| 4 | <input type="checkbox"/> | 100.000  | 100.536    | 393725.65  | 1.6880  | P    | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 246.539    | 911111.53  | 4.1356  | P    | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 493.342    | 1750041.52 | 8.2731  | P    | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 960.873    | 3424282.76 | 16.1110 | P    | 0.4 |
| 8 | <input type="checkbox"/> | 2000.000 | 2021.634   | 7442407.39 | 33.8940 | A    | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 8734.96    | 0.0395  | P    | 3.0 |

$$y = 0.0168 * x + 0.0026$$

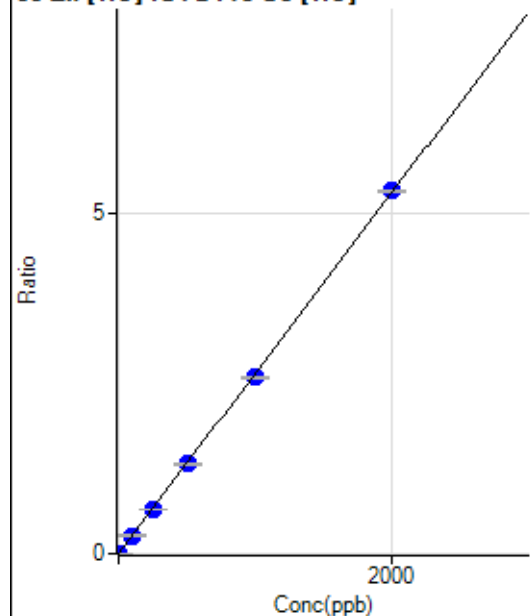
$$R = 0.9997$$

$$DL = 0.02979$$

$$BEC = 0.1534$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 265.56     | 0.0011 | P    | 11.7 |
| 2 | <input type="checkbox"/> | 0.200    | 0.249      | 426.68     | 0.0018 | P    | 14.8 |
| 3 | <input type="checkbox"/> | 2.000    | 1.948      | 1504.55    | 0.0063 | P    | 4.1  |
| 4 | <input type="checkbox"/> | 100.000  | 100.775    | 62651.64   | 0.2686 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 246.734    | 144515.96  | 0.6560 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 498.027    | 279842.37  | 1.3229 | P    | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 976.155    | 550894.77  | 2.5919 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 2000.000 | 2012.785   | 1173263.91 | 5.3432 | P    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 9892.37    | 0.0447 | P    | 0.7  |

$$y = 0.0027 * x + 0.0011$$

$$R = 0.9999$$

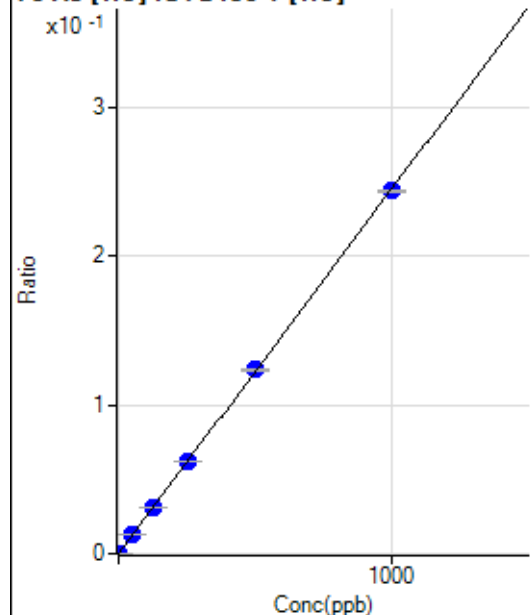
$$DL = 0.1487$$

$$BEC = 0.425$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 6.18      | 0.0000 | P        | 17.5 |
| 2 | <input type="checkbox"/> | 0.100    | 0.096      | 40.74     | 0.0000 | P        | 11.3 |
| 3 | <input type="checkbox"/> | 1.000    | 1.023      | 373.46    | 0.0003 | P        | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 52.099     | 18508.78  | 0.0128 | P        | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 127.205    | 43321.74  | 0.0311 | P        | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 253.492    | 83671.94  | 0.0621 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 506.168    | 168072.58 | 0.1239 | P        | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.662    | 335146.20 | 0.2438 | P        | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 427.17    | 0.0003 | P        | 12.2 |

$$y = 2.4483\text{E-}004 * x + 4.2461\text{E-}006$$

$$R = 1.0000$$

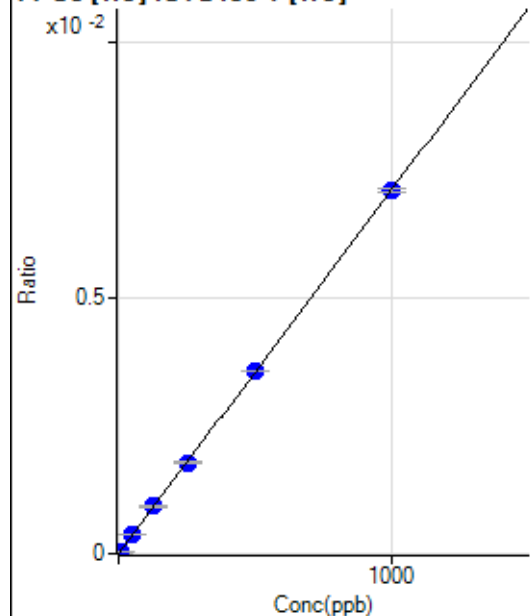
$$DL = 0.009104$$

$$BEC = 0.01734$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                            | Conc.    | Calc Conc. | CPS     | Ratio  | Det<br>. | RSD  |
|---|-------------------------------------|----------|------------|---------|--------|----------|------|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 0.00    | 0.0000 | P        |      |
| 2 | <input checked="" type="checkbox"/> | 0.500    |            | 3.33    | 0.0000 | P        | 0.7  |
| 3 | <input type="checkbox"/>            | 5.000    | 5.001      | 52.22   | 0.0000 | P        | 29.8 |
| 4 | <input type="checkbox"/>            | 50.000   | 53.290     | 550.02  | 0.0004 | P        | 1.4  |
| 5 | <input type="checkbox"/>            | 125.000  | 130.706    | 1293.41 | 0.0009 | P        | 3.0  |
| 6 | <input type="checkbox"/>            | 250.000  | 249.429    | 2392.46 | 0.0018 | P        | 1.7  |
| 7 | <input type="checkbox"/>            | 500.000  | 502.881    | 4853.12 | 0.0036 | P        | 0.6  |
| 8 | <input type="checkbox"/>            | 1000.000 | 997.824    | 9761.21 | 0.0071 | P        | 1.1  |
| 9 | <input type="checkbox"/>            |          |            | 2.22    | 0.0000 | P        | 173. |

$$y = 7.1154\text{E-}006 * x + 0.0000\text{E+}000$$

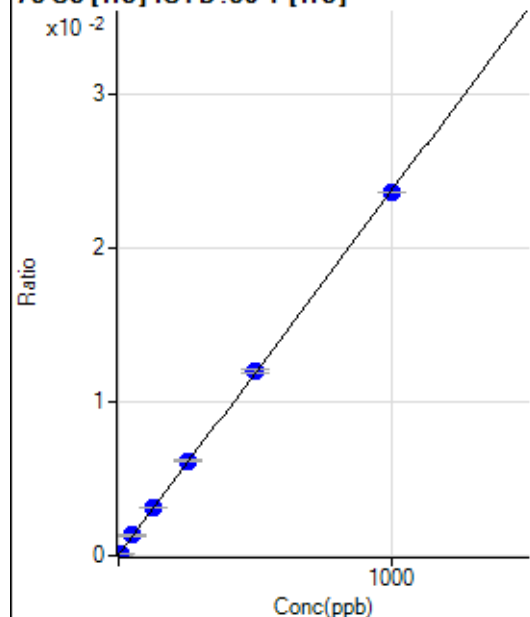
$$R = 1.0000$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 68.52    | 0.0000 | P    | 4.5  |
| 2 | <input type="checkbox"/> | 0.500    | 0.417      | 83.34    | 0.0001 | P    | 34.8 |
| 3 | <input type="checkbox"/> | 5.000    | 5.412      | 256.79   | 0.0002 | P    | 5.8  |
| 4 | <input type="checkbox"/> | 50.000   | 53.789     | 1914.34  | 0.0013 | P    | 5.9  |
| 5 | <input type="checkbox"/> | 125.000  | 128.822    | 4305.00  | 0.0031 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 250.000  | 258.397    | 8305.53  | 0.0062 | P    | 1.8  |
| 7 | <input type="checkbox"/> | 500.000  | 505.822    | 16295.05 | 0.0120 | P    | 1.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.321    | 32410.85 | 0.0236 | P    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 74.69    | 0.0001 | P    | 17.7 |

$$y = 2.3661\text{E-}005 * x + 4.7089\text{E-}005$$

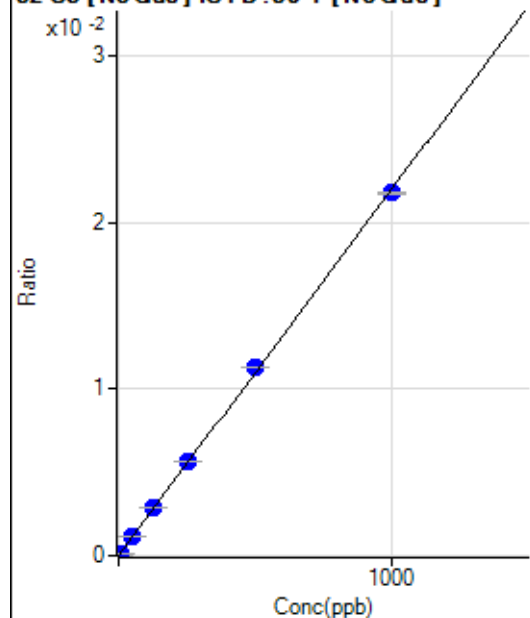
$$R = 0.9999$$

$$DL = 0.2659$$

$$BEC = 1.99$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 37.74     | 0.0000 | P    | 72.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.405      | 124.28    | 0.0000 | P    | 24.5 |
| 3 | <input type="checkbox"/> | 5.000    | 5.637      | 1242.38   | 0.0001 | P    | 2.5  |
| 4 | <input type="checkbox"/> | 50.000   | 52.541     | 11284.21  | 0.0012 | P    | 2.5  |
| 5 | <input type="checkbox"/> | 125.000  | 129.453    | 26863.85  | 0.0029 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 250.000  | 256.703    | 51254.30  | 0.0057 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 513.442    | 101578.56 | 0.0113 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.917    | 199146.53 | 0.0218 | P    | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 141.40    | 0.0000 | P    | 13.4 |

$$y = 2.2002\text{E-}005 * x + 4.0638\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.4018$$

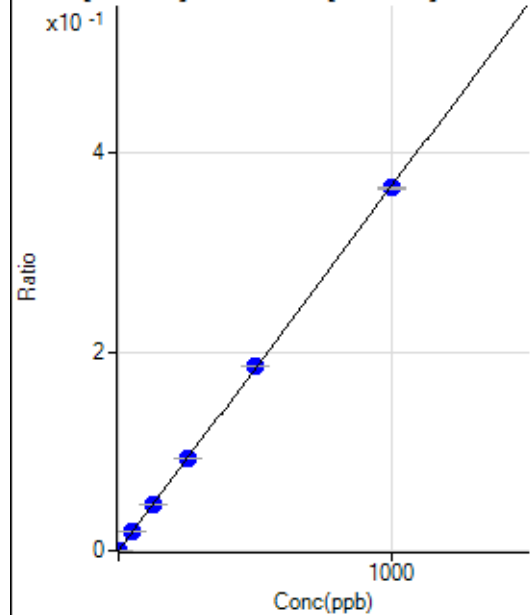
$$BEC = 0.1847$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 298.90 |       | P        | 9.3  |
| 2 | <input type="checkbox"/> |       |            | 311.12 |       | P        | 14.6 |
| 3 | <input type="checkbox"/> |       |            | 262.23 |       | P        | 0.7  |
| 4 | <input type="checkbox"/> |       |            | 301.12 |       | P        | 13.3 |
| 5 | <input type="checkbox"/> |       |            | 297.79 |       | P        | 2.3  |
| 6 | <input type="checkbox"/> |       |            | 280.01 |       | P        | 15.6 |
| 7 | <input type="checkbox"/> |       |            | 292.23 |       | P        | 14.4 |
| 8 | <input type="checkbox"/> |       |            | 285.56 |       | P        | 1.8  |
| 9 | <input type="checkbox"/> |       |            | 302.23 |       | P        | 6.1  |

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

|   | Rj<br>ct                            | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|-------------------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 644.48     | 0.0001 | P        | 17.0 |
| 2 | <input checked="" type="checkbox"/> | 0.100    |            | 863.95     | 0.0001 | P        | 7.3  |
| 3 | <input type="checkbox"/>            | 1.000    | 0.978      | 4148.01    | 0.0004 | P        | 7.6  |
| 4 | <input type="checkbox"/>            | 50.000   | 51.093     | 182674.11  | 0.0188 | P        | 0.9  |
| 5 | <input type="checkbox"/>            | 125.000  | 126.955    | 438506.90  | 0.0466 | P        | 0.3  |
| 6 | <input type="checkbox"/>            | 250.000  | 252.222    | 838209.79  | 0.0924 | P        | 0.3  |
| 7 | <input type="checkbox"/>            | 500.000  | 507.043    | 1669553.47 | 0.1857 | P        | 0.4  |
| 8 | <input type="checkbox"/>            | 1000.000 | 995.624    | 3330229.09 | 0.3647 | P        | 0.5  |
| 9 | <input type="checkbox"/>            |          |            | 14524.60   | 0.0016 | P        | 0.8  |

$$y = 3.6619\text{E-}004 * x + 6.9334\text{E-}005$$

$$R = 1.0000$$

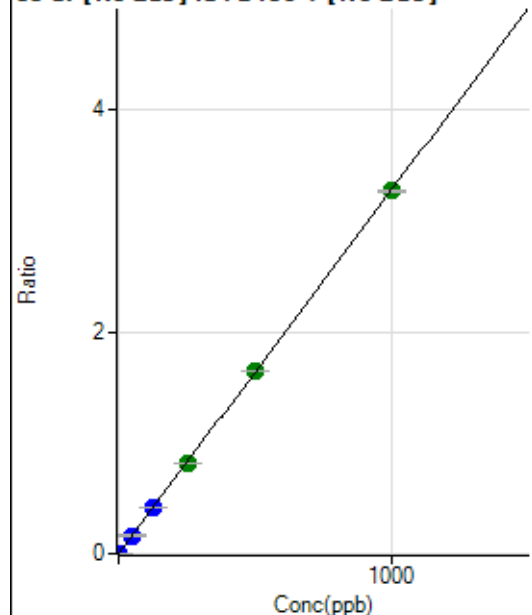
$$DL = 0.09682$$

$$BEC = 0.1893$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1527.92     | 0.0002 | P    | 6.3 |
| 2 | <input type="checkbox"/> | 0.100    | 0.088      | 4348.09     | 0.0005 | P    | 3.1 |
| 3 | <input type="checkbox"/> | 1.000    | 0.958      | 32047.84    | 0.0033 | P    | 1.8 |
| 4 | <input type="checkbox"/> | 50.000   | 50.069     | 1597886.65  | 0.1643 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 124.481    | 3844007.46  | 0.4081 | P    | 0.2 |
| 6 | <input type="checkbox"/> | 250.000  | 250.567    | 7448616.83  | 0.8214 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 500.000  | 504.599    | 14866794.08 | 1.6540 | A    | 0.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.620    | 29861698.24 | 3.2698 | A    | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 123701.84   | 0.0140 | P    | 1.4 |

$$y = 0.0033 * x + 1.6441E-004$$

$$R = 1.0000$$

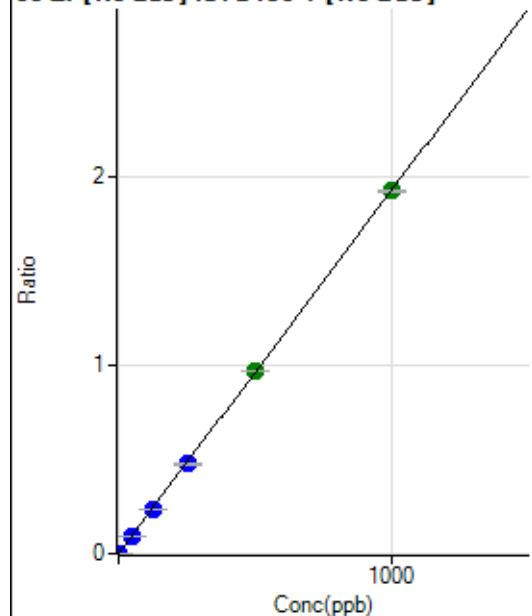
$$DL = 0.009507$$

$$BEC = 0.05017$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 852.85      | 0.0001 | P    | 12.6 |
| 2 | <input type="checkbox"/> | 0.100    | 0.076      | 2291.95     | 0.0002 | P    | 2.6  |
| 3 | <input type="checkbox"/> | 1.000    | 0.859      | 16971.82    | 0.0017 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 49.842     | 936878.66   | 0.0963 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 124.122    | 2257675.22  | 0.2397 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 246.255    | 4311943.67  | 0.4755 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 504.084    | 8747881.79  | 0.9732 | A    | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.012    | 17614048.66 | 1.9287 | A    | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 6451.74     | 0.0007 | P    | 6.7  |

$$y = 0.0019 * x + 9.1754E-005$$

$$R = 1.0000$$

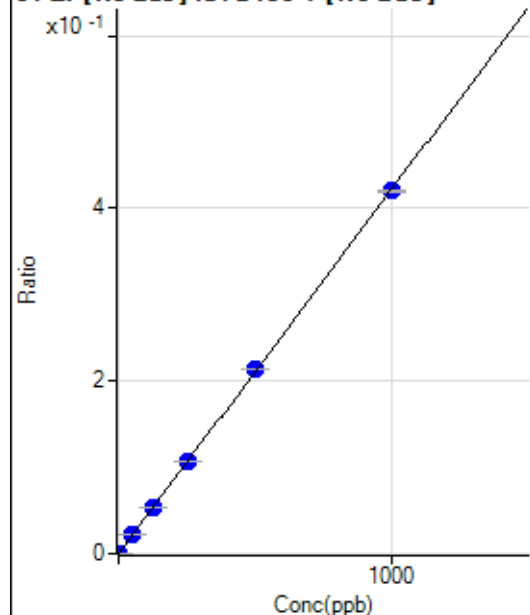
$$DL = 0.01793$$

$$BEC = 0.04753$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 177.79     | 0.0000 | P    | 27.2 |
| 2 | <input type="checkbox"/> | 0.100    | 0.083      | 516.70     | 0.0001 | P    | 1.6  |
| 3 | <input type="checkbox"/> | 1.000    | 0.883      | 3797.88    | 0.0004 | P    | 7.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.849     | 208768.08  | 0.0215 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 127.153    | 505160.92  | 0.0536 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 252.391    | 965309.41  | 0.1064 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 505.908    | 1917725.17 | 0.2134 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.137    | 3836399.87 | 0.4201 | P    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1436.24    | 0.0002 | P    | 10.7 |

$$y = 4.2168\text{E-}004 * x + 1.9134\text{E-}005$$

$$R = 1.0000$$

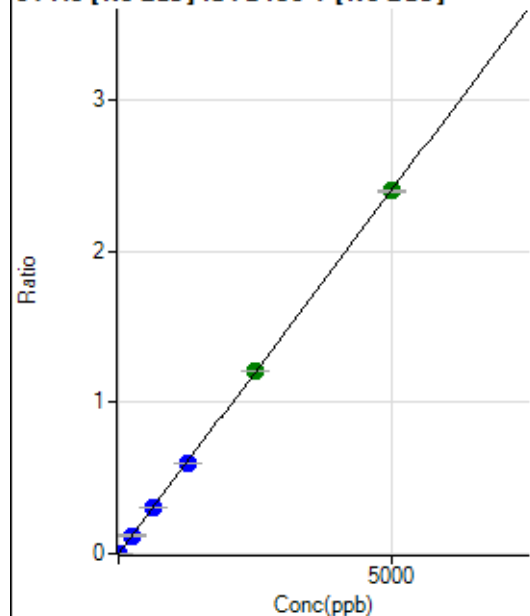
$$DL = 0.037$$

$$BEC = 0.04538$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 300.01      | 0.0000 | P    | 9.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.465      | 2450.33     | 0.0003 | P    | 1.3 |
| 3 | <input type="checkbox"/> | 5.000    | 4.521      | 21408.47    | 0.0022 | P    | 0.5 |
| 4 | <input type="checkbox"/> | 250.000  | 250.493    | 1172700.19  | 0.1206 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 625.000  | 625.708    | 2835749.89  | 0.3011 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 1250.000 | 1238.312   | 5403430.85  | 0.5958 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 2500.000 | 2520.128   | 10899208.58 | 1.2126 | A    | 0.4 |
| 8 | <input type="checkbox"/> | 5000.000 | 4992.745   | 21938675.15 | 2.4022 | A    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 12233.55    | 0.0014 | P    | 4.6 |

$$y = 4.8114\text{E-}004 * x + 3.2280\text{E-}005$$

$$R = 1.0000$$

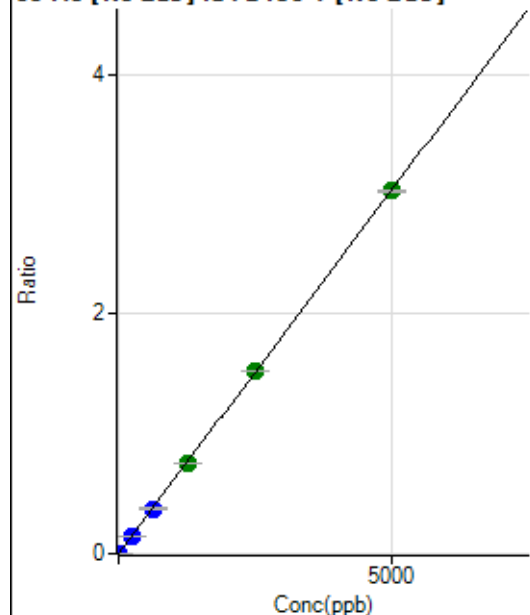
$$DL = 0.01917$$

$$BEC = 0.06709$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 47.23       | 0.0000 | P    | 20.5 |
| 2 | <input type="checkbox"/> | 0.500    | 0.476      | 2814.29     | 0.0003 | P    | 7.7  |
| 3 | <input type="checkbox"/> | 5.000    | 4.620      | 27210.20    | 0.0028 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 250.000  | 249.009    | 1468466.68  | 0.1510 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 621.152    | 3546524.86  | 0.3766 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.357   | 6862860.92  | 0.7568 | A    | 0.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2517.349   | 13717292.50 | 1.5261 | A    | 0.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 4992.267   | 27639093.33 | 3.0264 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 17233.44    | 0.0019 | P    | 6.9  |

$$y = 6.0622\text{E-}004 * x + 5.0824\text{E-}006$$

$$R = 1.0000$$

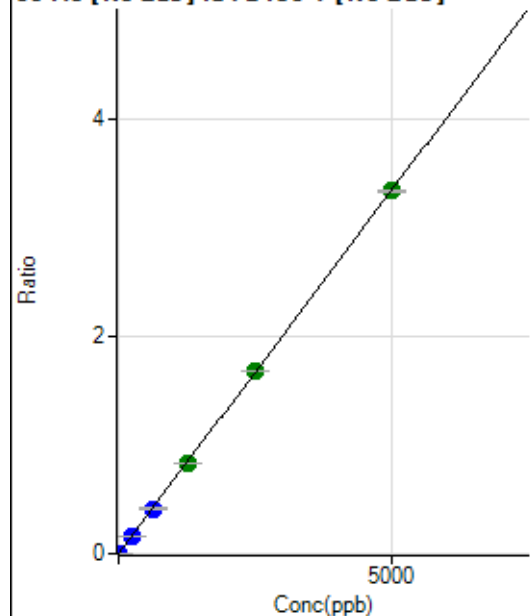
$$DL = 0.005154$$

$$BEC = 0.008384$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 130.56      | 0.0000 | P    | 25.9 |
| 2 | <input type="checkbox"/> | 0.500    | 0.428      | 2875.42     | 0.0003 | P    | 6.7  |
| 3 | <input type="checkbox"/> | 5.000    | 4.589      | 29865.53    | 0.0031 | P    | 0.5  |
| 4 | <input type="checkbox"/> | 250.000  | 250.321    | 1626556.17  | 0.1672 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 621.638    | 3910735.33  | 0.4152 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1249.655   | 7569528.64  | 0.8347 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 2500.000 | 2512.037   | 15081757.98 | 1.6779 | A    | 0.1  |
| 8 | <input type="checkbox"/> | 5000.000 | 4994.473   | 30465992.35 | 3.3360 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 27098.93    | 0.0031 | P    | 1.5  |

$$y = 6.6793\text{E-}004 * x + 1.4053\text{E-}005$$

$$R = 1.0000$$

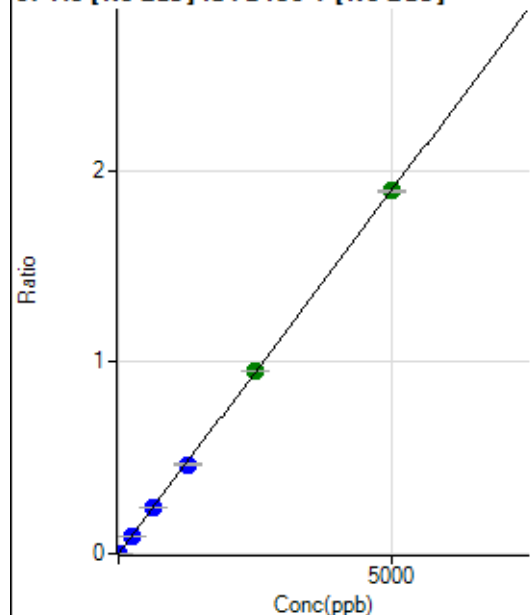
$$DL = 0.01637$$

$$BEC = 0.02104$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.45       | 0.0000 | P   | 54.1 |
| 2 | <input type="checkbox"/> | 0.500    | 0.484      | 1802.97     | 0.0002 | P   | 1.5  |
| 3 | <input type="checkbox"/> | 5.000    | 4.729      | 17425.20    | 0.0018 | P   | 0.8  |
| 4 | <input type="checkbox"/> | 250.000  | 249.640    | 920209.97   | 0.0946 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 623.135    | 2223857.21  | 0.2361 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1230.778   | 4229196.14  | 0.4664 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2518.284   | 8577133.44  | 0.9542 | A   | 0.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 4995.915   | 17288313.75 | 1.8930 | A   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 10559.95    | 0.0012 | P   | 8.7  |

$$y = 3.7892E-004 * x + 4.7816E-006$$

$$R = 1.0000$$

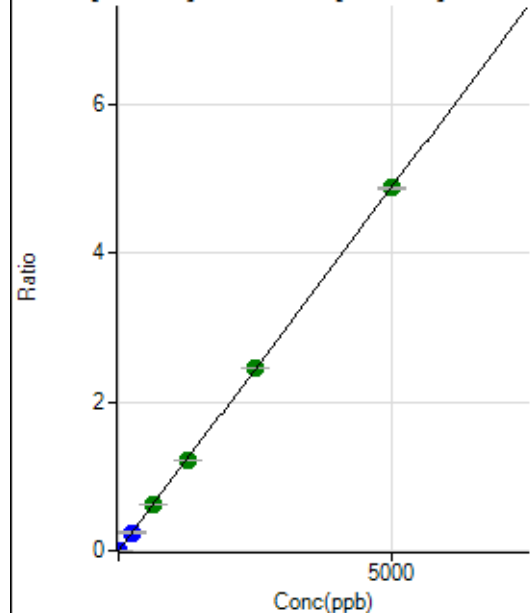
$$DL = 0.02048$$

$$BEC = 0.01262$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 66.67       | 0.0000 | P   | 69.4 |
| 2 | <input type="checkbox"/> | 0.500    | 0.481      | 4567.58     | 0.0005 | P   | 7.8  |
| 3 | <input type="checkbox"/> | 5.000    | 4.679      | 44370.36    | 0.0046 | P   | 2.6  |
| 4 | <input type="checkbox"/> | 250.000  | 251.103    | 2384682.95  | 0.2451 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 625.808    | 5754094.53  | 0.6110 | A   | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1244.585   | 11018599.72 | 1.2150 | A   | 0.1  |
| 7 | <input type="checkbox"/> | 2500.000 | 2512.374   | 22046311.78 | 2.4527 | A   | 0.3  |
| 8 | <input type="checkbox"/> | 5000.000 | 4995.011   | 44533980.16 | 4.8764 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 25595.97    | 0.0029 | P   | 5.4  |

$$y = 9.7625E-004 * x + 7.1685E-006$$

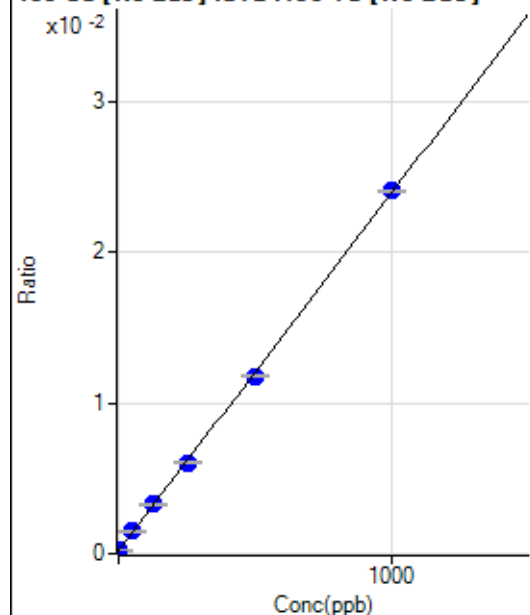
$$R = 1.0000$$

$$DL = 0.01529$$

$$BEC = 0.007343$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>                     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|-------------------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 2544.79   | 0.0002 | P    | 7.3 |
| 2 | <input checked="" type="checkbox"/> | 0.100    |            | 3006.01   | 0.0002 | P    | 5.0 |
| 3 | <input type="checkbox"/>            | 1.000    | 1.941      | 3278.31   | 0.0002 | P    | 4.7 |
| 4 | <input type="checkbox"/>            | 50.000   | 54.021     | 21116.46  | 0.0015 | P    | 0.6 |
| 5 | <input type="checkbox"/>            | 125.000  | 129.489    | 46560.94  | 0.0033 | P    | 1.3 |
| 6 | <input type="checkbox"/>            | 250.000  | 247.337    | 85943.44  | 0.0061 | P    | 0.8 |
| 7 | <input type="checkbox"/>            | 500.000  | 487.934    | 168444.94 | 0.0118 | P    | 0.9 |
| 8 | <input type="checkbox"/>            | 1000.000 | 1005.936   | 347875.01 | 0.0241 | P    | 0.6 |
| 9 | <input type="checkbox"/>            |          |            | 2678.16   | 0.0002 | P    | 2.1 |

$$y = 2.3752E-005 * x + 1.8508E-004$$

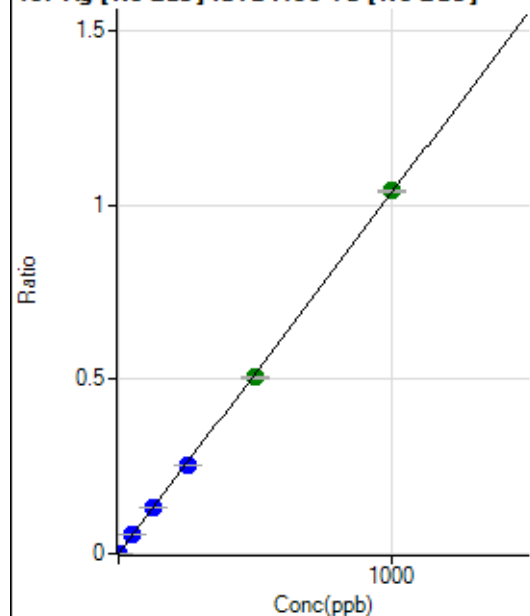
$$R = 0.9999$$

$$DL = 1.701$$

$$BEC = 7.792$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 88.89       | 0.0000 | P    | 57.4 |
| 2 | <input type="checkbox"/> | 0.100    | 0.101      | 1558.49     | 0.0001 | P    | 2.4  |
| 3 | <input type="checkbox"/> | 1.000    | 1.085      | 16009.70    | 0.0011 | P    | 2.2  |
| 4 | <input type="checkbox"/> | 50.000   | 53.622     | 797746.79   | 0.0555 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 125.000  | 129.390    | 1910948.76  | 0.1338 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 246.440    | 3615091.53  | 0.2549 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 489.189    | 7238280.20  | 0.5060 | A    | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 1005.566   | 15026569.61 | 1.0400 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 1758.53     | 0.0001 | P    | 19.5 |

$$y = 0.0010 * x + 6.4745E-006$$

$$R = 0.9999$$

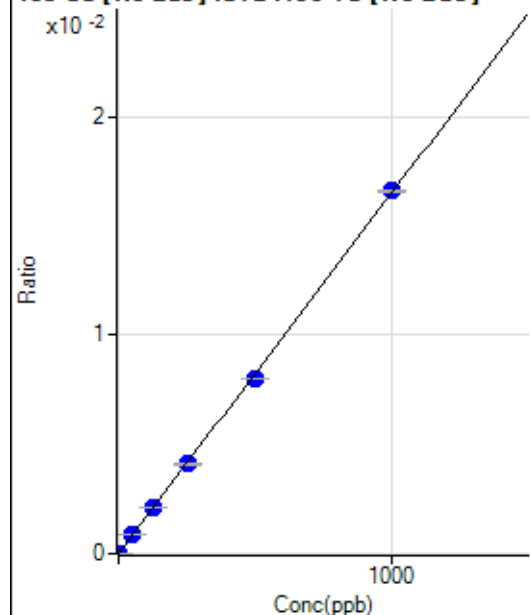
$$DL = 0.01078$$

$$BEC = 0.00626$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct                | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|-------------------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 13.89     | 0.0000 | P   | 45.8 |
| 2 | <input checked="" type="checkbox"/> | 0.100    |            | 44.44     | 0.0000 | P   | 4.7  |
| 3 | <input type="checkbox"/>            | 1.000    | 0.954      | 237.51    | 0.0000 | P   | 12.7 |
| 4 | <input type="checkbox"/>            | 50.000   | 53.958     | 12818.51  | 0.0009 | P   | 0.7  |
| 5 | <input type="checkbox"/>            | 125.000  | 129.333    | 30481.62  | 0.0021 | P   | 1.6  |
| 6 | <input type="checkbox"/>            | 250.000  | 248.128    | 58074.22  | 0.0041 | P   | 1.1  |
| 7 | <input type="checkbox"/>            | 500.000  | 485.927    | 114709.28 | 0.0080 | P   | 0.7  |
| 8 | <input type="checkbox"/>            | 1000.000 | 1006.765   | 239999.60 | 0.0166 | P   | 0.7  |
| 9 | <input type="checkbox"/>            |          |            | 66.67     | 0.0000 | P   | 22.1 |

$$y = 1.6499\text{E-}005 * x + 1.0098\text{E-}006$$

$$R = 0.9998$$

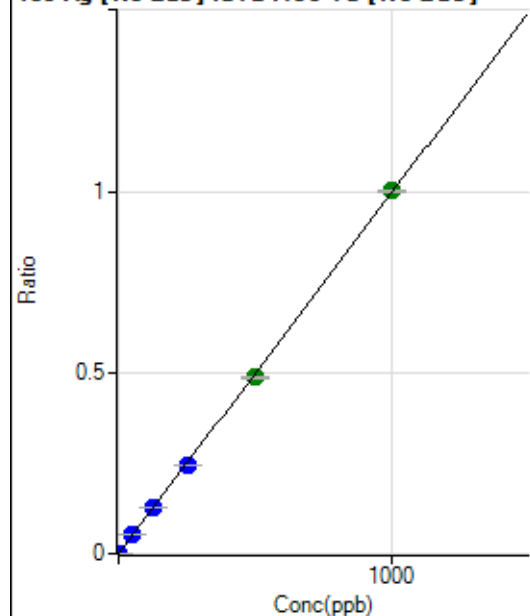
$$DL = 0.08415$$

$$BEC = 0.0612$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89       | 0.0000 | P   | 45.1 |
| 2 | <input type="checkbox"/> | 0.100    | 0.109      | 1564.04     | 0.0001 | P   | 20.5 |
| 3 | <input type="checkbox"/> | 1.000    | 1.057      | 14966.86    | 0.0011 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 50.000   | 53.346     | 763756.65   | 0.0531 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 129.579    | 1841739.34  | 0.1290 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 246.101    | 3474312.28  | 0.2450 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 488.109    | 6950752.33  | 0.4859 | A   | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 1006.181   | 14470403.97 | 1.0015 | A   | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 1669.62     | 0.0001 | P   | 20.2 |

$$y = 9.9539\text{E-}004 * x + 2.8324\text{E-}006$$

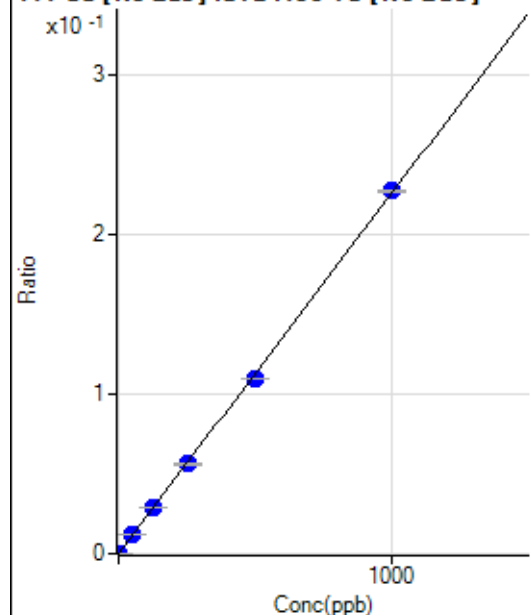
$$R = 0.9999$$

$$DL = 0.003846$$

$$BEC = 0.002846$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>                     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|-------------------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/>            | 0.000    | 0.000      | 1792.47    | 0.0001 | P    | 6.7 |
| 2 | <input checked="" type="checkbox"/> | 0.100    |            | 2371.72    | 0.0002 | P    | 5.7 |
| 3 | <input type="checkbox"/>            | 1.000    | 1.085      | 5320.66    | 0.0004 | P    | 1.8 |
| 4 | <input type="checkbox"/>            | 50.000   | 53.613     | 175839.37  | 0.0122 | P    | 0.2 |
| 5 | <input type="checkbox"/>            | 125.000  | 129.677    | 419623.04  | 0.0294 | P    | 0.6 |
| 6 | <input type="checkbox"/>            | 250.000  | 248.864    | 798149.38  | 0.0563 | P    | 0.9 |
| 7 | <input type="checkbox"/>            | 500.000  | 485.093    | 1567537.55 | 0.1096 | P    | 0.7 |
| 8 | <input type="checkbox"/>            | 1000.000 | 1006.972   | 3284196.61 | 0.2273 | P    | 0.2 |
| 9 | <input type="checkbox"/>            |          |            | 2408.63    | 0.0002 | P    | 3.8 |

$$y = 2.2561\text{E-}004 * x + 1.3037\text{E-}004$$

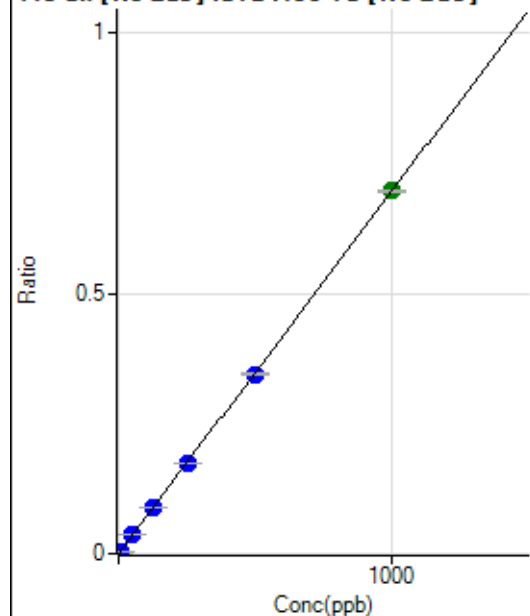
$$R = 0.9998$$

$$DL = 0.1154$$

$$BEC = 0.5778$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 802.84      | 0.0001 | P    | 7.4 |
| 2 | <input type="checkbox"/> | 0.500    | 0.520      | 5901.49     | 0.0004 | P    | 0.5 |
| 3 | <input type="checkbox"/> | 5.000    | 5.127      | 51408.67    | 0.0036 | P    | 0.9 |
| 4 | <input type="checkbox"/> | 50.000   | 52.639     | 527444.32   | 0.0367 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 129.308    | 1285124.17  | 0.0900 | P    | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 250.521    | 2472239.18  | 0.1743 | P    | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 494.746    | 4923828.93  | 0.3442 | P    | 1.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.826   | 10068748.57 | 0.6969 | A    | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 4964.99     | 0.0004 | P    | 6.8 |

$$y = 6.9556\text{E-}004 * x + 5.8393\text{E-}005$$

$$R = 1.0000$$

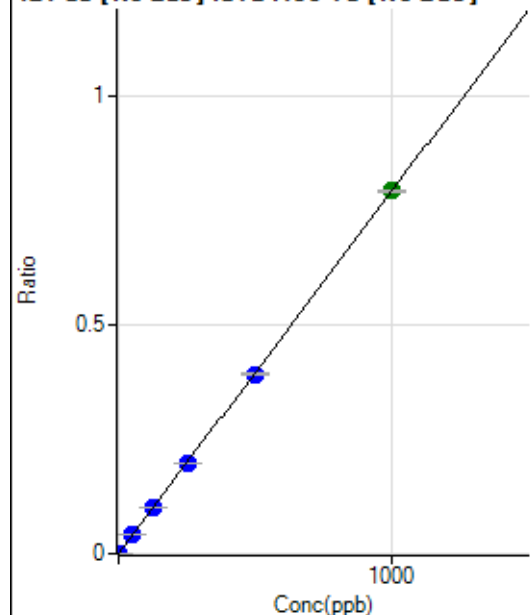
$$DL = 0.01873$$

$$BEC = 0.08395$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 75.00       | 0.0000 | P    | 48.5 |
| 2 | <input type="checkbox"/> | 0.200    | 0.199      | 2286.40     | 0.0002 | P    | 10.5 |
| 3 | <input type="checkbox"/> | 2.000    | 1.920      | 21597.90    | 0.0015 | P    | 2.2  |
| 4 | <input type="checkbox"/> | 50.000   | 52.290     | 594306.02   | 0.0413 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 125.000  | 128.384    | 1448535.03  | 0.1014 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 250.994    | 2812798.13  | 0.1983 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 495.074    | 5596176.69  | 0.3912 | P    | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.677   | 11435182.98 | 0.7915 | A    | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 18599.09    | 0.0014 | P    | 0.7  |

$$y = 7.9013\text{E-}004 * x + 5.4555\text{E-}006$$

$$R = 1.0000$$

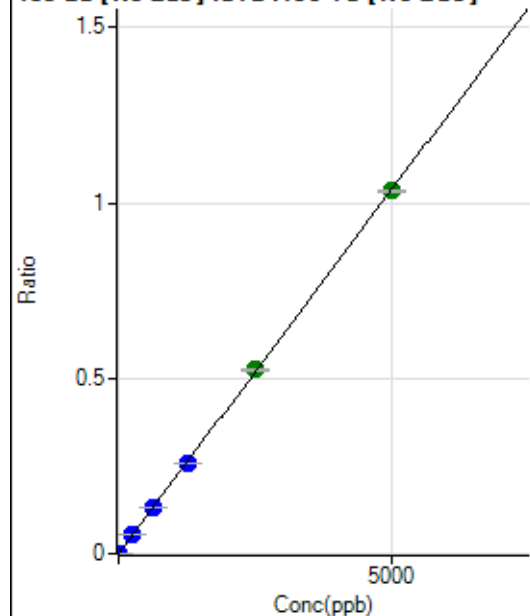
$$DL = 0.01004$$

$$BEC = 0.006905$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 77.78       | 0.0000 | P    | 26.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.004      | 3006.03     | 0.0002 | P    | 3.2  |
| 3 | <input type="checkbox"/> | 10.000   | 10.255     | 30242.26    | 0.0021 | P    | 2.2  |
| 4 | <input type="checkbox"/> | 250.000  | 259.527    | 774111.88   | 0.0538 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 625.000  | 639.971    | 1895037.63  | 0.1327 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.095   | 3670819.92  | 0.2588 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2524.746   | 7489935.76  | 0.5236 | A    | 1.1  |
| 8 | <input type="checkbox"/> | 5000.000 | 4985.755   | 14937999.29 | 1.0339 | A    | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 2864.31     | 0.0002 | P    | 12.1 |

$$y = 2.0737\text{E-}004 * x + 5.6528\text{E-}006$$

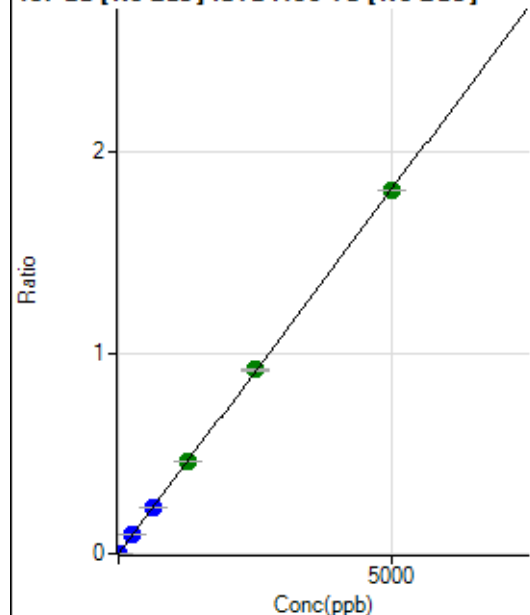
$$R = 1.0000$$

$$DL = 0.02166$$

$$BEC = 0.02726$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 88.89       | 0.0000 | P        | 38.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.993      | 5156.75     | 0.0004 | P        | 2.5  |
| 3 | <input type="checkbox"/> | 10.000   | 9.974      | 51448.86    | 0.0036 | P        | 0.5  |
| 4 | <input type="checkbox"/> | 250.000  | 260.863    | 1362177.22  | 0.0947 | P        | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 639.329    | 3314327.70  | 0.2321 | P        | 0.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1263.661   | 6506633.91  | 0.4588 | A        | 0.6  |
| 7 | <input type="checkbox"/> | 2500.000 | 2528.445   | 13132095.43 | 0.9179 | A        | 0.8  |
| 8 | <input type="checkbox"/> | 5000.000 | 4980.028   | 26121726.10 | 1.8080 | A        | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 5301.33     | 0.0004 | P        | 14.5 |

$$y = 3.6304E-004 * x + 6.4730E-006$$

$$R = 1.0000$$

$$DL = 0.02043$$

$$BEC = 0.01783$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 21.7 |
| 4 | <input type="checkbox"/> |       |            | 62.23  |       | P        | 16.4 |
| 5 | <input type="checkbox"/> |       |            | 144.45 |       | P        | 34.0 |
| 6 | <input type="checkbox"/> |       |            | 237.79 |       | P        | 29.4 |
| 7 | <input type="checkbox"/> |       |            | 484.47 |       | P        | 5.7  |
| 8 | <input type="checkbox"/> |       |            | 902.28 |       | P        | 14.4 |
| 9 | <input type="checkbox"/> |       |            | 255.57 |       | P        | 9.9  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 6.67  |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 45.8 |
| 3 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 75.0 |
| 4 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 13.4 |
| 5 | <input type="checkbox"/> |       |            | 26.67 |       | P        | 12.5 |
| 6 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 36.1 |
| 7 | <input type="checkbox"/> |       |            | 68.89 |       | P        | 26.6 |
| 8 | <input type="checkbox"/> |       |            | 91.11 |       | P        | 18.4 |
| 9 | <input type="checkbox"/> |       |            | 93.34 |       | P        | 12.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 50.0 |
| 2 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 17.3 |
| 3 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 17.3 |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 78.1 |
| 5 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 53.9 |
| 6 | <input type="checkbox"/> |       |            | 75.00  |       | P        | 22.2 |
| 7 | <input type="checkbox"/> |       |            | 150.01 |       | P        | 19.2 |
| 8 | <input type="checkbox"/> |       |            | 200.01 |       | P        | 7.2  |
| 9 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 11.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 13.3 |
| 2 | <input type="checkbox"/> |       |            | 21.11  |       | P        | 9.1  |
| 3 | <input type="checkbox"/> |       |            | 24.45  |       | P        | 28.4 |
| 4 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 6.7  |
| 5 | <input type="checkbox"/> |       |            | 53.33  |       | P        | 32.5 |
| 6 | <input type="checkbox"/> |       |            | 81.11  |       | P        | 27.4 |
| 7 | <input type="checkbox"/> |       |            | 152.23 |       | P        | 14.2 |
| 8 | <input type="checkbox"/> |       |            | 324.45 |       | P        | 11.9 |
| 9 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 29.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 86.12  |       | P        | 34.0 |
| 2 | <input type="checkbox"/> |       |            | 102.78 |       | P        | 12.4 |
| 3 | <input type="checkbox"/> |       |            | 75.00  |       | P        | 19.2 |
| 4 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 13.1 |
| 5 | <input type="checkbox"/> |       |            | 108.34 |       | P        | 13.3 |
| 6 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 12.1 |
| 7 | <input type="checkbox"/> |       |            | 111.12 |       | P        | 28.4 |
| 8 | <input type="checkbox"/> |       |            | 113.90 |       | P        | 16.9 |
| 9 | <input type="checkbox"/> |       |            | 161.12 |       | P        | 40.2 |

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

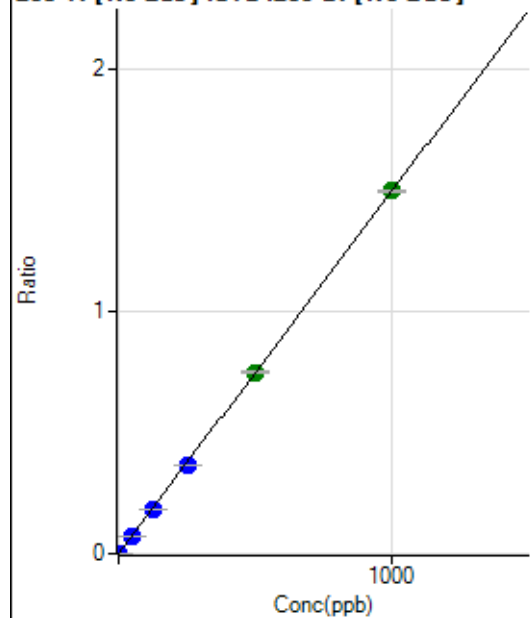
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 10.0 |
| 2 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 11.3 |
| 3 | <input type="checkbox"/> |       |            | 218.90 |       | P        | 5.8  |
| 4 | <input type="checkbox"/> |       |            | 251.12 |       | P        | 13.1 |
| 5 | <input type="checkbox"/> |       |            | 218.89 |       | P        | 24.3 |
| 6 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 13.1 |
| 7 | <input type="checkbox"/> |       |            | 223.34 |       | P        | 15.1 |
| 8 | <input type="checkbox"/> |       |            | 254.45 |       | P        | 2.0  |
| 9 | <input type="checkbox"/> |       |            | 251.12 |       | P        | 17.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 31.6 |
| 2 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 34.4 |
| 3 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 25.0 |
| 4 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 29.9 |
| 5 | <input type="checkbox"/> |       |            | 69.45  |       | P        | 25.0 |
| 6 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 33.1 |
| 7 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 31.6 |
| 8 | <input type="checkbox"/> |       |            | 88.90  |       | P        | 30.1 |
| 9 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 62.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 71.11 |       | P        | 28.6 |
| 2 | <input type="checkbox"/> |       |            | 65.56 |       | P        | 21.2 |
| 3 | <input type="checkbox"/> |       |            | 47.78 |       | P        | 14.5 |
| 4 | <input type="checkbox"/> |       |            | 52.22 |       | P        | 7.4  |
| 5 | <input type="checkbox"/> |       |            | 52.22 |       | P        | 22.4 |
| 6 | <input type="checkbox"/> |       |            | 50.00 |       | P        | 11.5 |
| 7 | <input type="checkbox"/> |       |            | 56.67 |       | P        | 17.6 |
| 8 | <input type="checkbox"/> |       |            | 67.78 |       | P        | 24.3 |
| 9 | <input type="checkbox"/> |       |            | 70.00 |       | P        | 29.0 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 566.70      | 0.0001 | P        | 12.0 |
| 2 | <input type="checkbox"/> | 0.100    | 0.084      | 1805.77     | 0.0002 | P        | 10.6 |
| 3 | <input type="checkbox"/> | 1.000    | 0.896      | 13829.99    | 0.0014 | P        | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 48.772     | 729320.76   | 0.0731 | P        | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 121.704    | 1811428.93  | 0.1823 | P        | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 242.839    | 3592897.22  | 0.3637 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 500.904    | 7371067.53  | 0.7502 | A        | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.812   | 14583317.34 | 1.5003 | A        | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 4139.72     | 0.0005 | P        | 14.4 |

$$y = 0.0015 * x + 5.8808E-005$$

$$R = 1.0000$$

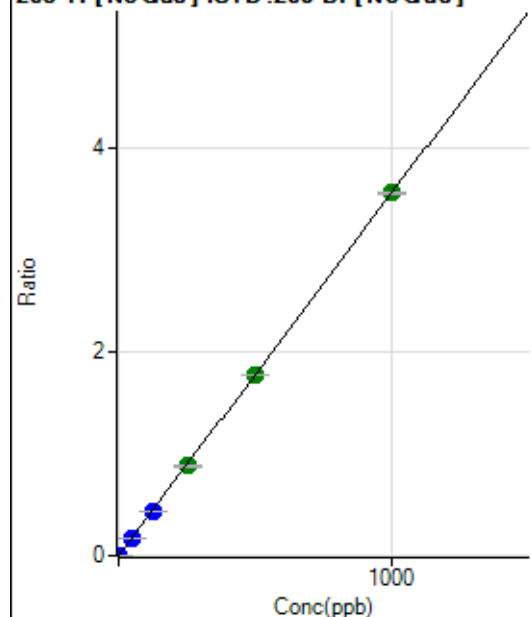
$$DL = 0.01416$$

$$BEC = 0.03927$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 869.51      | 0.0001 | P    | 23.8 |
| 2 | <input type="checkbox"/> | 0.100    | 0.088      | 3967.43     | 0.0004 | P    | 6.4  |
| 3 | <input type="checkbox"/> | 1.000    | 0.902      | 32532.63    | 0.0033 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 49.099     | 1740860.28  | 0.1745 | P    | 0.0  |
| 5 | <input type="checkbox"/> | 125.000  | 122.834    | 4335630.13  | 0.4364 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 247.209    | 8674292.73  | 0.8781 | A    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 500.025    | 17451232.86 | 1.7761 | A    | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.001   | 34559564.66 | 3.5555 | A    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 9145.26     | 0.0011 | P    | 11.0 |

$$y = 0.0036 * x + 9.0233E-005$$

$$R = 1.0000$$

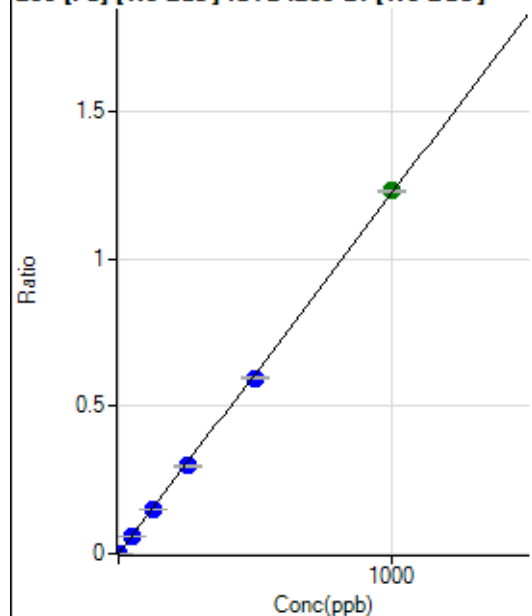
$$DL = 0.01816$$

$$BEC = 0.0254$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 942.66      | 0.0001 | P    | 3.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.094      | 2083.56     | 0.0002 | P    | 7.0 |
| 3 | <input type="checkbox"/> | 1.000    | 0.907      | 11890.85    | 0.0012 | P    | 0.3 |
| 4 | <input type="checkbox"/> | 50.000   | 48.663     | 593143.96   | 0.0594 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 121.828    | 1477249.87  | 0.1487 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 250.000  | 244.061    | 2941317.34  | 0.2978 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 488.244    | 5851863.15  | 0.5956 | P    | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 1007.826   | 11948882.45 | 1.2293 | A    | 0.7 |
| 9 | <input type="checkbox"/> |          |            | 9733.48     | 0.0012 | P    | 3.4 |

$$y = 0.0012 * x + 9.7850E-005$$

$$R = 0.9999$$

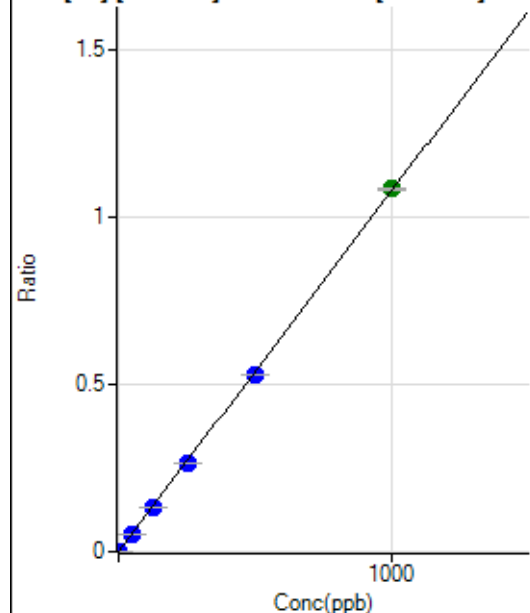
$$DL = 0.009294$$

$$BEC = 0.08023$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 950.07      | 0.0001 | P   | 8.4 |
| 2 | <input type="checkbox"/> | 0.100    | 0.091      | 1931.69     | 0.0002 | P   | 2.7 |
| 3 | <input type="checkbox"/> | 1.000    | 0.901      | 10535.98    | 0.0011 | P   | 2.2 |
| 4 | <input type="checkbox"/> | 50.000   | 48.683     | 523346.82   | 0.0525 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 122.829    | 1313388.37  | 0.1322 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 250.000  | 244.909    | 2602601.33  | 0.2635 | P   | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 490.111    | 5179748.55  | 0.5272 | P   | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 1006.554   | 10522701.51 | 1.0826 | A   | 0.8 |
| 9 | <input type="checkbox"/> |          |            | 8612.30     | 0.0010 | P   | 7.0 |

$$y = 0.0011 * x + 9.8669E-005$$

$$R = 0.9999$$

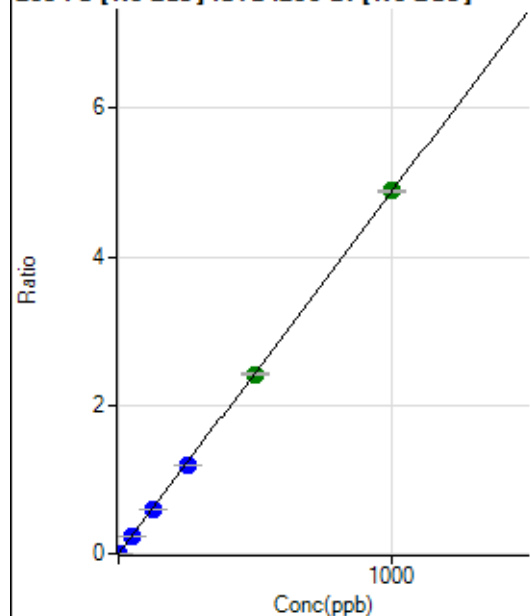
$$DL = 0.02305$$

$$BEC = 0.09175$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3544.73     | 0.0004 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 0.100    | 0.091      | 7954.83     | 0.0008 | P   | 3.9 |
| 3 | <input type="checkbox"/> | 1.000    | 0.912      | 47515.91    | 0.0048 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 50.000   | 49.001     | 2385863.64  | 0.2391 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 123.170    | 5966478.42  | 0.6005 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 245.478    | 11818857.65 | 1.1965 | P   | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 496.304    | 23764418.70 | 2.4186 | A   | 0.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.257   | 47519977.34 | 4.8888 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 37793.76    | 0.0045 | P   | 3.9 |

$$y = 0.0049 * x + 3.6800E-004$$

$$R = 1.0000$$

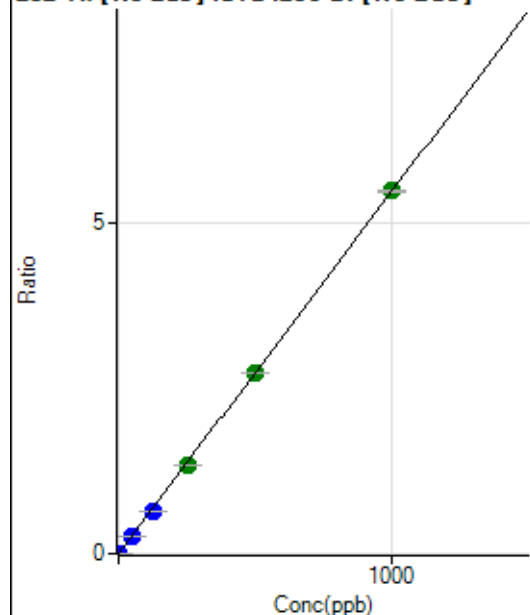
$$DL = 0.002057$$

$$BEC = 0.07553$$

Weight: &lt;None&gt;

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1729.80     | 0.0002 | P    | 6.0  |
| 2 | <input type="checkbox"/> | 0.100    | 0.083      | 6188.66     | 0.0006 | P    | 2.9  |
| 3 | <input type="checkbox"/> | 1.000    | 0.799      | 44871.76    | 0.0045 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 50.000   | 46.245     | 2523509.14  | 0.2529 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 118.578    | 6440563.34  | 0.6482 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 243.856    | 13166962.68 | 1.3329 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 499.441    | 26821602.68 | 2.7298 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.806   | 53276166.93 | 5.4808 | A    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 14269.34    | 0.0017 | P    | 11.3 |

$$y = 0.0055 * x + 1.7962E-004$$

$$R = 1.0000$$

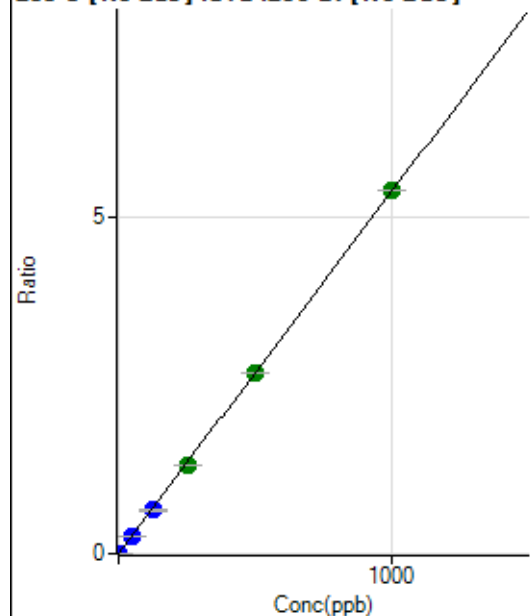
$$DL = 0.00587$$

$$BEC = 0.03287$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2083.61     | 0.0002 | P    | 8.4  |
| 2 | <input type="checkbox"/> | 0.100    | 0.089      | 6832.69     | 0.0007 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 1.000    | 0.859      | 47774.65    | 0.0048 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 47.103     | 2531081.59  | 0.2537 | P    | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 119.550    | 6393604.88  | 0.6435 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 243.963    | 12969702.81 | 1.3130 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 499.831    | 26428849.89 | 2.6898 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.420   | 52433433.12 | 5.3942 | A    | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 9384.40     | 0.0011 | P    | 15.3 |

$$y = 0.0054 * x + 2.1639E-004$$

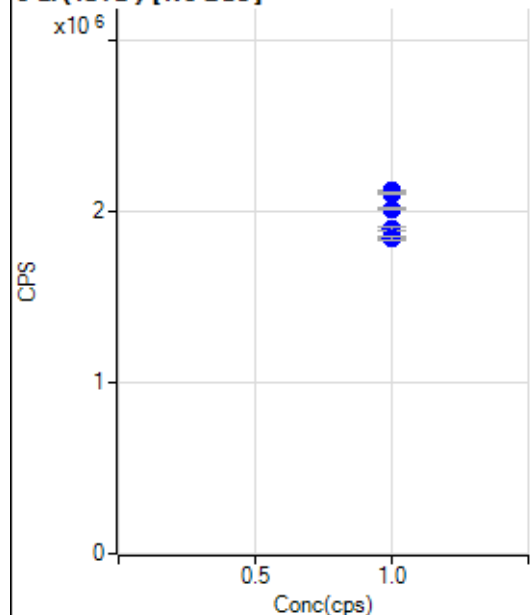
$$R = 1.0000$$

$$DL = 0.01008$$

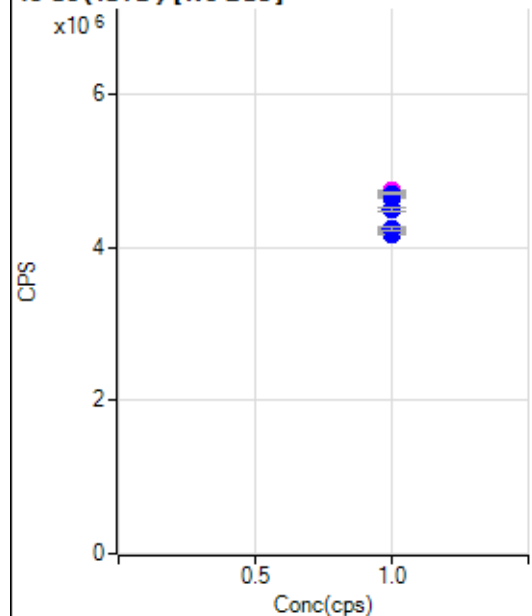
$$BEC = 0.04021$$

Weight: &lt;None&gt;

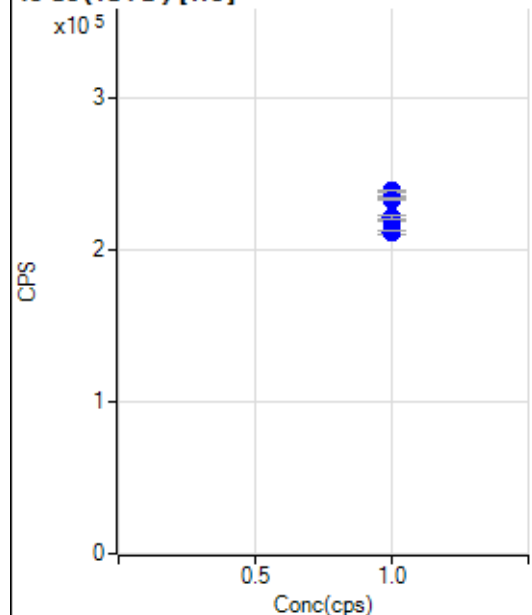
Min Conc: 0

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

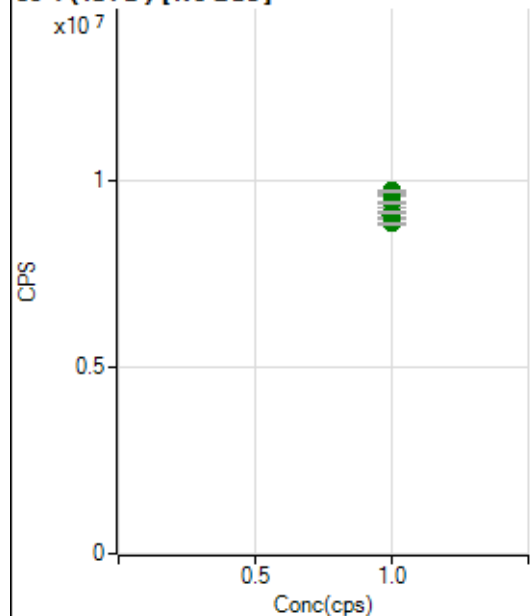
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2101241.61 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2117385.33 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2119091.79 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2104625.40 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2015019.36 |       | P        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1896506.87 |       | P        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1845526.07 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1846512.12 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1841247.34 |       | P        | 1.0 |

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

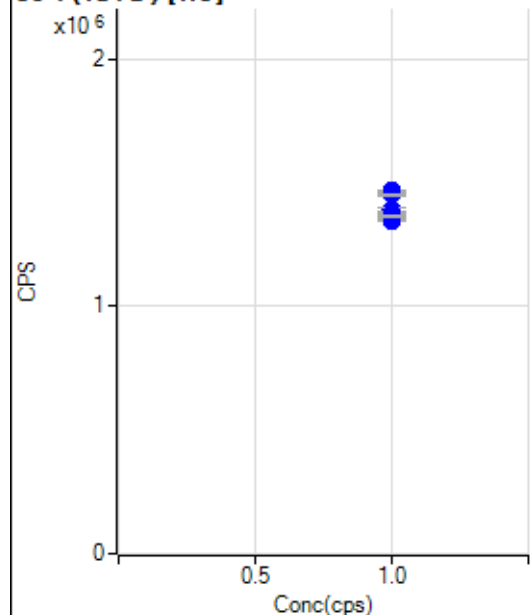
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4650122.54 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4681463.73 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4745835.69 |       | M        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4711121.59 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4498724.45 |       | P        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4234108.86 |       | P        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4171670.58 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4252405.82 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4253725.40 |       | P        | 0.9 |

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

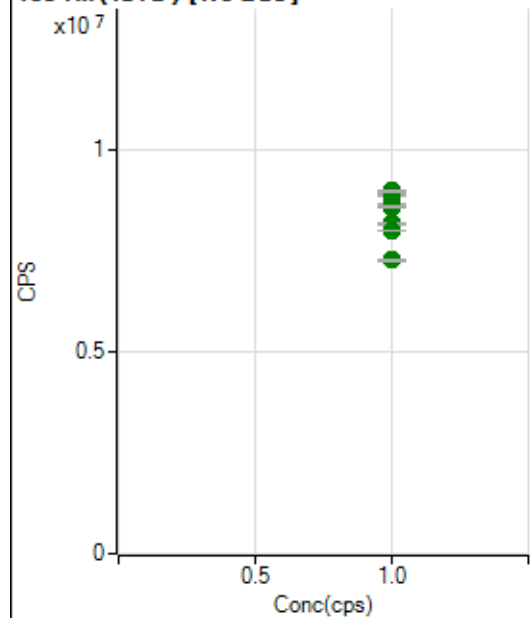
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 235467.59 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 238562.46 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 238893.30 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 233257.26 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 220306.57 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 211544.16 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 212544.02 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 219578.83 |       | P        | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 221314.76 |       | P        | 1.0 |

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

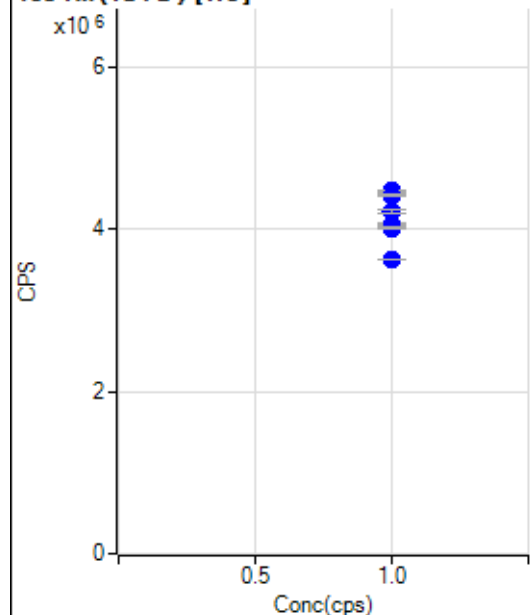
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9293601.11 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9579203.05 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9698258.61 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9727706.04 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9418318.20 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9068608.06 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8988590.01 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9132570.98 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8842986.67 |       | A        | 0.6 |

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

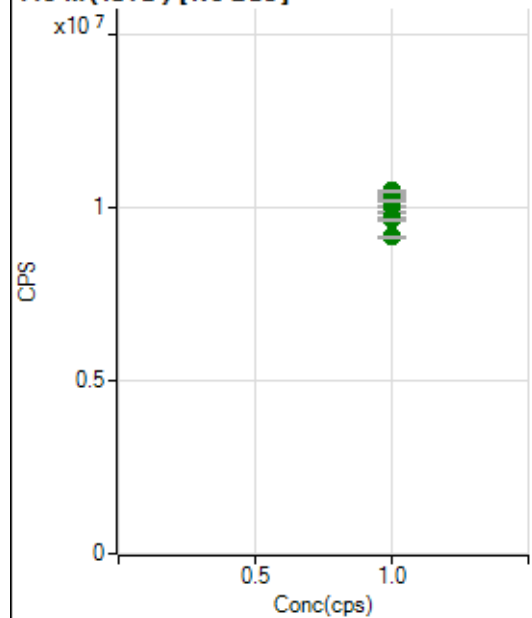
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1455009.40 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1465059.25 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1466501.00 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1450534.74 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1390905.45 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1348139.42 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1356259.08 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1374849.13 |       | P        | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1362232.93 |       | P        | 0.7 |

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

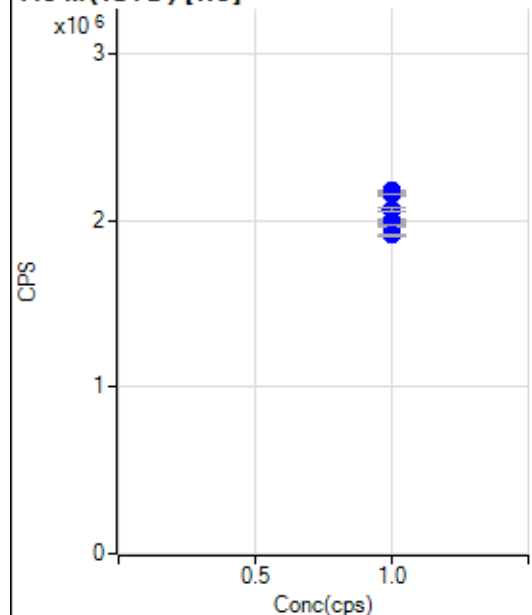
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8644023.54 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8874924.16 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8969201.85 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8986020.08 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8593106.36 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8179294.98 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8004148.27 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7984361.72 |       | A        | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7268131.94 |       | A        | 0.3 |

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

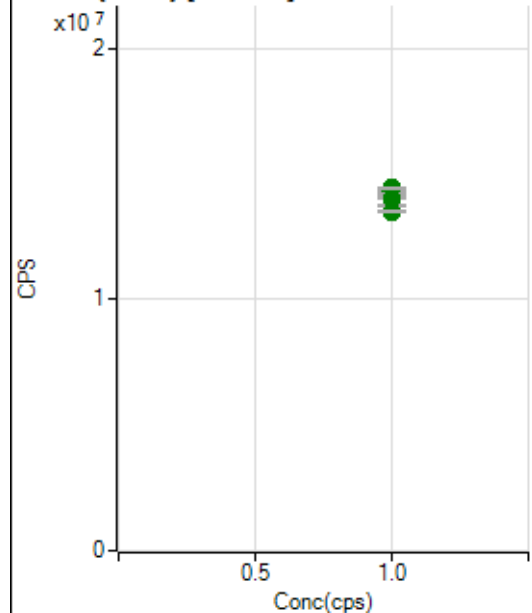
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4430980.39 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4468996.25 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4472763.44 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4420836.88 |       | P        | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4212431.88 |       | P        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4062190.15 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4043243.79 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4016926.05 |       | P        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3630604.49 |       | P        | 0.2 |

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

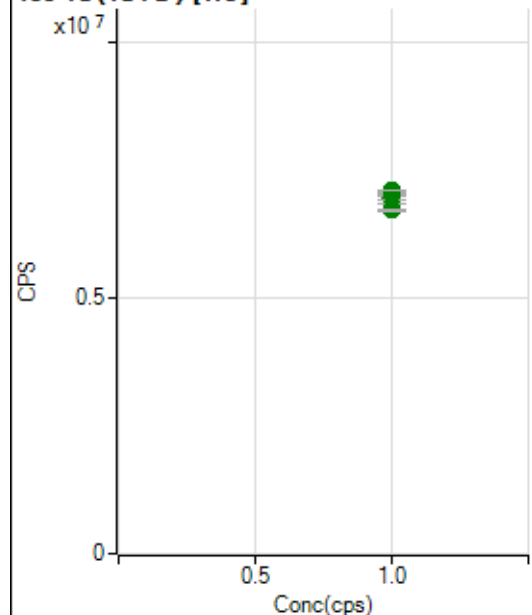
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10037489.70 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10318203.02 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10404873.62 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10480475.49 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10184024.17 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9867042.19  |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9695303.49  |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9639799.97  |       | A        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9147323.42  |       | A        | 0.5 |

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

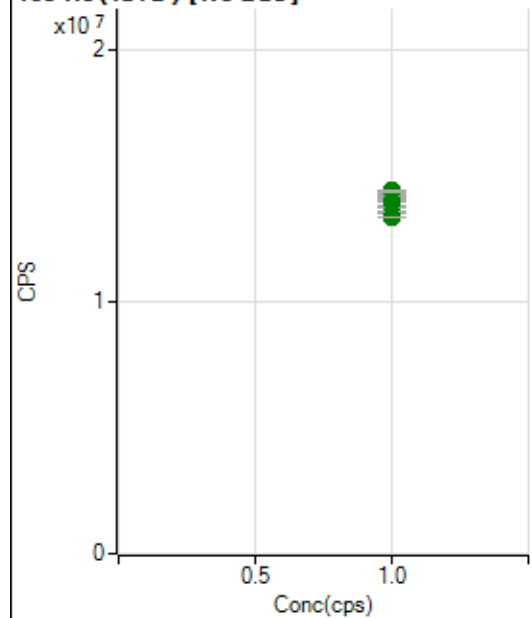
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2153010.25 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2177160.03 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2161000.10 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2159301.46 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2065537.71 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2001598.53 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1988267.38 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1967876.65 |       | P        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1911132.37 |       | P        | 0.8 |

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

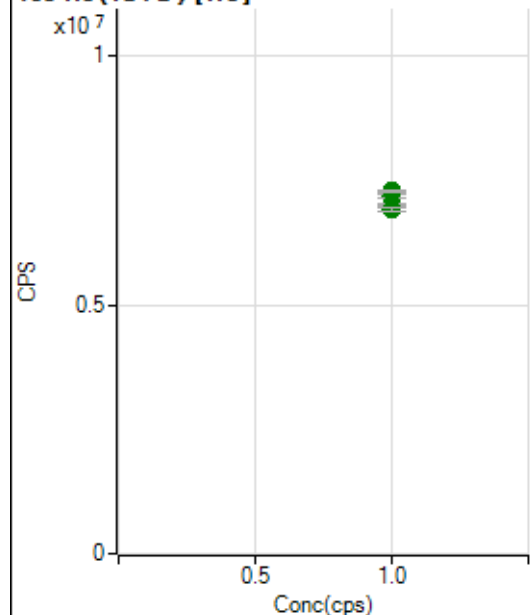
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13748445.07 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14047382.29 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14183151.73 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14382553.81 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14279038.81 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14182610.90 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14306626.87 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14448044.51 |       | A        | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13510317.02 |       | A        | 0.5 |

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

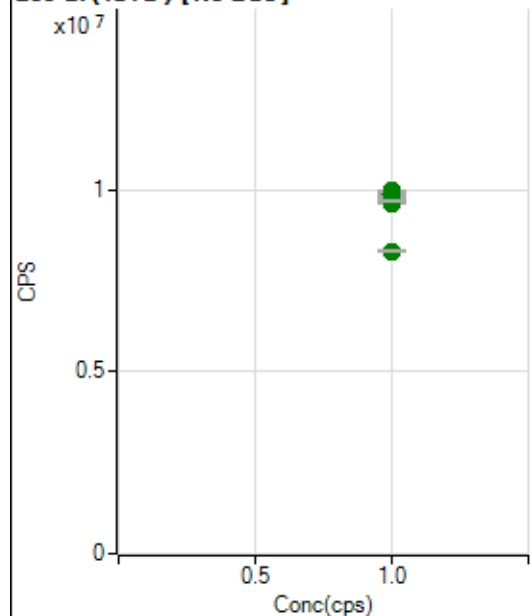
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6836468.16 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7014465.73 |       | A        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7029515.31 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7073239.27 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7005159.34 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6952834.76 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7051343.02 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7095677.88 |       | A        | 0.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 6728295.66 |       | A        | 0.5 |

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

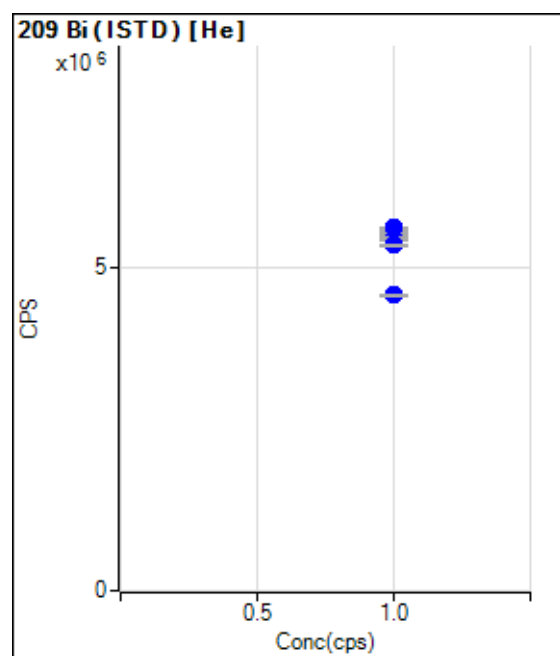
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13552865.93 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13792728.78 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 13987920.63 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14238621.50 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14215469.59 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14058012.64 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14194903.44 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14403007.61 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13362457.07 |       | A        | 0.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7009683.58 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7191625.73 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7221501.07 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7248409.89 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7187820.73 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7177693.02 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7271941.70 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7289936.70 |       | A        | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 6914850.24 |       | A        | 0.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9632138.81 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9810086.24 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9872902.01 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9977451.94 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9935610.34 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9878602.91 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9825643.88 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9720316.04 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8317395.43 |       | A        | 0.4 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5563062.49 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5593244.43 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5618724.78 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5605755.89 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5531362.77 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5445854.92 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5453130.68 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5351016.38 |       | P        | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4571711.32 |       | P        | 0.7 |

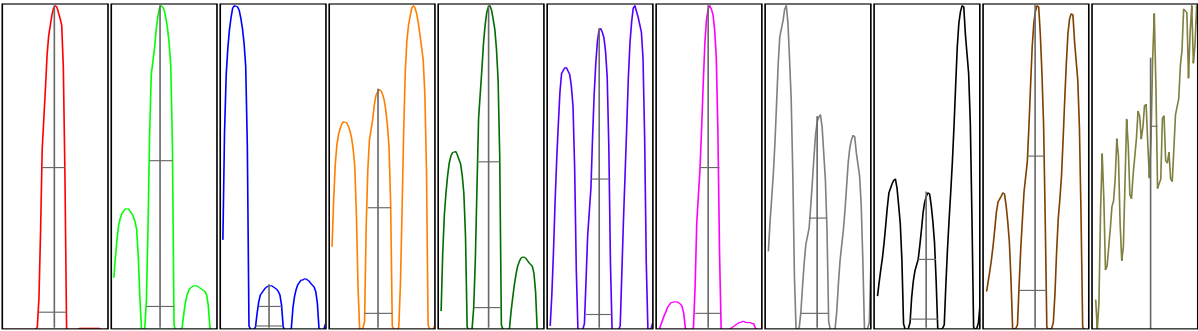
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7072819 MS.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |        |          |            |        |  |
|----------|--------|----------|------------|--------|--|
| Mass     | Count  | RSD%     | RSD%       | RSD%   |  |
|          | (Mean) | (Actual) | (Required) | (Flag) |  |
| 9        | 7601   | 0.61     | 5.00       |        |  |
| 24       | 114971 | 0.94     | 5.00       |        |  |
| 25       | 15649  | 0.66     | 5.00       |        |  |
| 26       | 18198  | 0.90     | 5.00       |        |  |
| 59       | 74840  | 0.78     | 5.00       |        |  |
| 113      | 12945  | 1.34     | 5.00       |        |  |
| 115      | 162758 | 2.71     | 5.00       |        |  |
| 206      | 40249  | 1.04     | 5.00       |        |  |
| 207      | 37814  | 1.02     | 5.00       |        |  |
| 208      | 87472  | 1.13     | 5.00       |        |  |
| 220      | 101    | 4.27     |            |        |  |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 7582                 | 7558                 | 7591                 | 7594                 | 7680                 |
| 24   | 114233               | 113758               | 115031               | 115241               | 116591               |
| 25   | 15559                | 15588                | 15619                | 15658                | 15823                |
| 26   | 18076                | 18065                | 18169                | 18213                | 18469                |
| 59   | 74572                | 74158                | 74790                | 74939                | 75743                |
| 113  | 13153                | 12994                | 13045                | 12772                | 12761                |
| 115  | 168340               | 165522               | 163127               | 159108               | 157691               |
| 206  | 39801                | 39876                | 40243                | 40588                | 40739                |
| 207  | 37447                | 37486                | 37860                | 37868                | 38407                |
| 208  | 87130                | 86266                | 87298                | 87684                | 88981                |
| 220  | 109                  | 100                  | 99                   | 99                   | 100                  |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 12014          | 9.00             | 8.9 - 9.1          |                | 0.819                | 0.900                  |                        |
| 24   | 178977         | 23.90            | 23.9 - 24.1        |                | 0.807                | 0.900                  |                        |
| 25   | 24106          | 24.90            | 24.9 - 25.1        |                | 0.795                | 0.900                  |                        |
| 26   | 27804          | 25.90            | 25.9 - 26.1        |                | 0.791                | 0.900                  |                        |
| 59   | 123005         | 58.95            | 58.9 - 59.1        |                | 0.795                | 0.900                  |                        |
| 113  | 23913          | 113.00           | 112.9 - 113.1      |                | 0.778                | 0.900                  |                        |
| 115  | 301144         | 115.00           | 114.9 - 115.1      |                | 0.773                | 0.900                  |                        |
| 206  | 76133          | 206.00           | 205.9 - 206.1      |                | 0.803                | 0.900                  |                        |
| 207  | 69375          | 207.00           | 206.9 - 207.1      |                | 0.784                | 0.900                  |                        |
| 208  | 164861         | 208.00           | 207.9 - 208.1      |                | 0.791                | 0.900                  |                        |
| 220  | 106            | 220.20           | -                  |                |                      |                        |                        |

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

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 8.2   | V    | Deflect       | 14.2  | V    |
| Extract 2     | -135.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -65    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

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

[He]

| Mass | Count  | RSD%     | RSD%       |
|------|--------|----------|------------|
|      | (Mean) | (Actual) | (Required) |
| 59   | 21935  | 0.29     |            |
| 89   | 45136  | 0.40     |            |
| 205  | 36018  | 0.67     |            |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 21922                | 22014                | 21899                | 21981                | 21858                |
| 89   | 45101                | 45223                | 45040                | 45396                | 44920                |
| 205  | 35620                | 36190                | 36191                | 36138                | 35952                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 8.1   | V    | Deflect       | 2.0   | V    |
| Extract 2     | -125.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

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