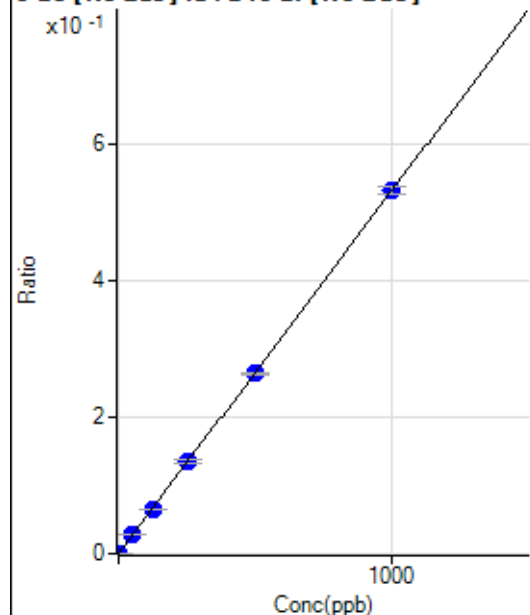


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8010820-MS.b\  
Analysis File: P8010820-MS.batch.bin  
DA Date-Time: 2020-01-08 13:58:31  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 005CALB.d          | S0          | 2020-01-08 13:53:59 |
| 2     | 006CALS.d          | S02         | 2020-01-08 13:57:00 |
| 3     | 007CALS.d          | S03         | 2020-01-08 13:59:59 |
| 4     | 008CALS.d          | S04         | 2020-01-08 14:02:59 |
| 5     | 009CALS.d          | S05         | 2020-01-08 14:05:57 |
| 6     | 010CALS.d          | S06         | 2020-01-08 14:08:58 |
| 7     | 011CALS.d          | S07         | 2020-01-08 14:11:56 |
| 8     | 012CALS.d          | S08         | 2020-01-08 14:14:57 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.33     | 0.0000 | P    | 45.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.900      | 638.56    | 0.0005 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 50.000   | 51.518     | 35660.48  | 0.0274 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 122.943    | 87454.25  | 0.0654 | P    | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 254.236    | 175414.39 | 0.1352 | P    | 3.6  |
| 6 | <input type="checkbox"/> | 500.000  | 497.153    | 348964.53 | 0.2643 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.546   | 686777.12 | 0.5320 | P    | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 112.65    | 0.0001 | P    | 15.2 |

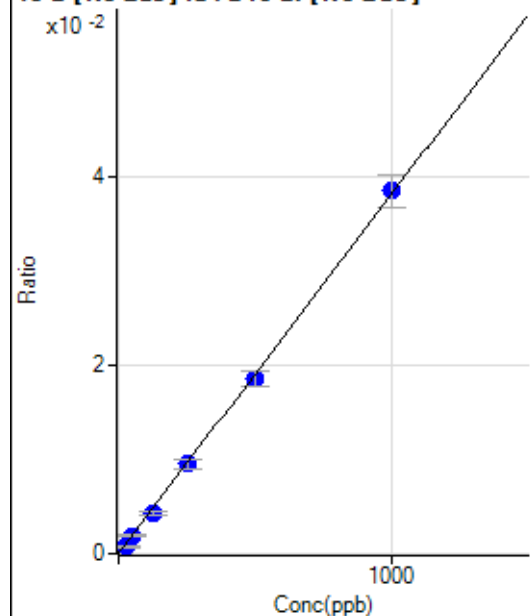
$$y = 5.3165E-004 * x + 1.4973E-005$$

$$R = 1.0000$$

$$DL = 0.03863$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 45.32    | 0.0000 | P    | 36.8 |
| 2 | <input type="checkbox"/> | 25.000   | 18.913     | 978.51   | 0.0008 | P    | 11.4 |
| 3 | <input type="checkbox"/> | 50.000   | 47.969     | 2421.73  | 0.0019 | P    | 9.6  |
| 4 | <input type="checkbox"/> | 125.000  | 112.469    | 5776.67  | 0.0043 | P    | 7.5  |
| 5 | <input type="checkbox"/> | 250.000  | 248.769    | 12320.74 | 0.0095 | P    | 10.9 |
| 6 | <input type="checkbox"/> | 500.000  | 485.454    | 24444.80 | 0.0185 | P    | 8.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.401   | 49632.19 | 0.0385 | P    | 9.3  |
| 8 | <input type="checkbox"/> |          |            | 10084.16 | 0.0084 | P    | 11.3 |

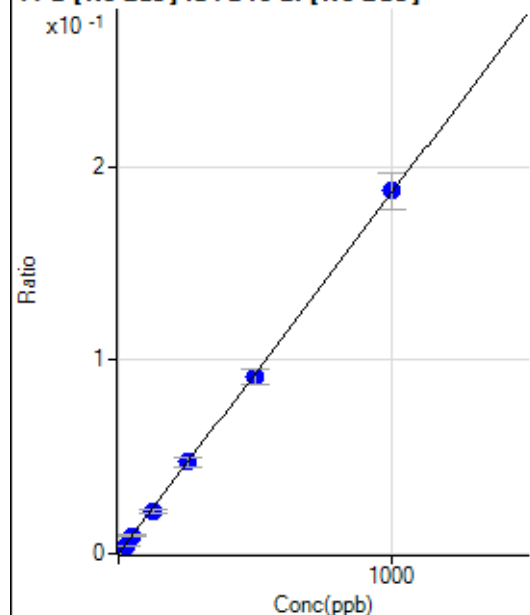
$$y = 3.8087E-005 * x + 3.5444E-005$$

$$R = 0.9998$$

$$DL = 1.026$$

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      | 208.63    | 0.0002 | P    | 5.2  |
| 2 | <input type="checkbox"/> | 25.000   | 19.554     | 4923.21   | 0.0038 | P    | 8.3  |
| 3 | <input type="checkbox"/> | 50.000   | 48.027     | 11835.11  | 0.0091 | P    | 9.5  |
| 4 | <input type="checkbox"/> | 125.000  | 115.282    | 28916.00  | 0.0216 | P    | 8.5  |
| 5 | <input type="checkbox"/> | 250.000  | 253.492    | 61341.15  | 0.0473 | P    | 10.7 |
| 6 | <input type="checkbox"/> | 500.000  | 489.973    | 120542.92 | 0.0914 | P    | 8.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.590   | 241576.51 | 0.1873 | P    | 10.3 |
| 8 | <input type="checkbox"/> |          |            | 49319.90  | 0.0410 | P    | 11.3 |

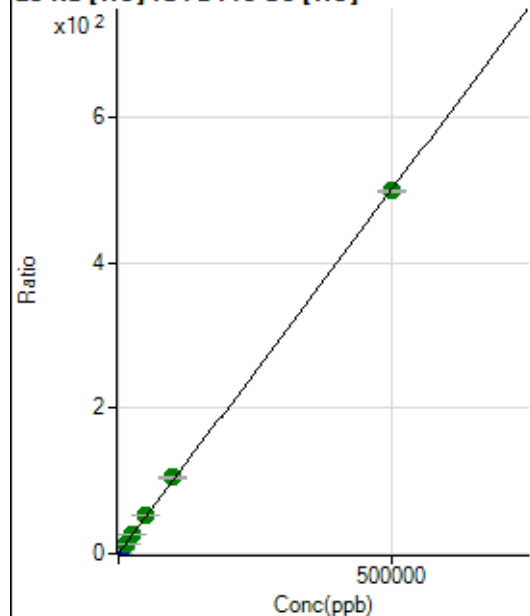
$$y = 1.8613E-004 * x + 1.6242E-004$$

$$R = 0.9999$$

$$DL = 0.136$$

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      | 31581.95    | 0.2517   | P    | 2.7 |
| 2 | <input type="checkbox"/> | 500.000   | 539.475    | 100033.56   | 0.7904   | P    | 1.3 |
| 3 | <input type="checkbox"/> | 5000.000  | 5708.385   | 768903.88   | 5.9516   | P    | 1.0 |
| 4 | <input type="checkbox"/> | 12500.000 | 13688.104  | 1799142.23  | 13.9195  | A    | 0.2 |
| 5 | <input type="checkbox"/> | 25000.000 | 26581.494  | 3564688.32  | 26.7937  | A    | 1.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 53461.051  | 7047594.26  | 53.6333  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 100000.00 | 104336.67  | 14073264.90 | 104.4333 | A    | 1.3 |
| 8 | <input type="checkbox"/> | 500000.00 | 498670.65  | 63889748.65 | 498.1809 | A    | 0.5 |

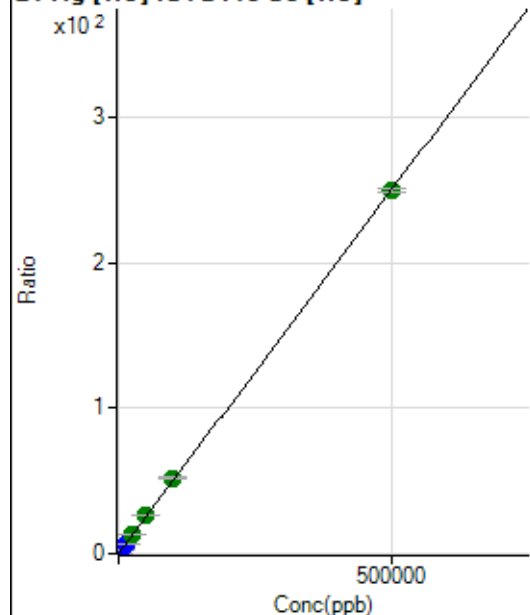
$$y = 9.9851E-004 * x + 0.2517$$

$$R = 0.9999$$

$$DL = 20.1$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 141.67      | 0.0011   | P   | 10.6 |
| 2 | <input type="checkbox"/> | 500.000   | 546.654    | 34800.48    | 0.2750   | P   | 3.2  |
| 3 | <input type="checkbox"/> | 5000.000  | 5705.791   | 369447.89   | 2.8595   | P   | 0.6  |
| 4 | <input type="checkbox"/> | 12500.000 | 13845.870  | 896718.29   | 6.9374   | P   | 1.1  |
| 5 | <input type="checkbox"/> | 25000.000 | 26641.322  | 1775756.16  | 13.3475  | A   | 0.6  |
| 6 | <input type="checkbox"/> | 50000.000 | 53084.003  | 3494689.70  | 26.5944  | A   | 1.2  |
| 7 | <input type="checkbox"/> | 100000.00 | 103854.25  | 7010814.13  | 52.0285  | A   | 2.2  |
| 8 | <input type="checkbox"/> | 500000.00 | 498797.93  | 32045253.50 | 249.8816 | A   | 1.0  |

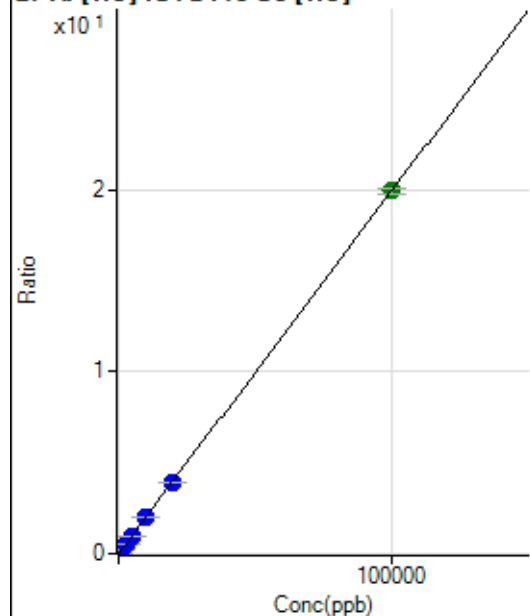
$$y = 5.0097E-004 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 0.7134$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 401.12     | 0.0032  | P   | 10.5 |
| 2 | <input type="checkbox"/> | 20.000    | 17.591     | 848.92     | 0.0067  | P   | 2.2  |
| 3 | <input type="checkbox"/> | 1000.000  | 1036.577   | 27122.06   | 0.2099  | P   | 1.1  |
| 4 | <input type="checkbox"/> | 2500.000  | 2542.268   | 65944.26   | 0.5102  | P   | 0.7  |
| 5 | <input type="checkbox"/> | 5000.000  | 4942.419   | 131562.93  | 0.9889  | P   | 0.9  |
| 6 | <input type="checkbox"/> | 10000.000 | 9992.239   | 262277.80  | 1.9960  | P   | 0.5  |
| 7 | <input type="checkbox"/> | 20000.000 | 19608.750  | 527432.66  | 3.9138  | P   | 0.6  |
| 8 | <input type="checkbox"/> | 100000.00 | 100080.48  | 2559799.03 | 19.9622 | A   | 1.4  |

$$y = 1.9943E-004 * x + 0.0032$$

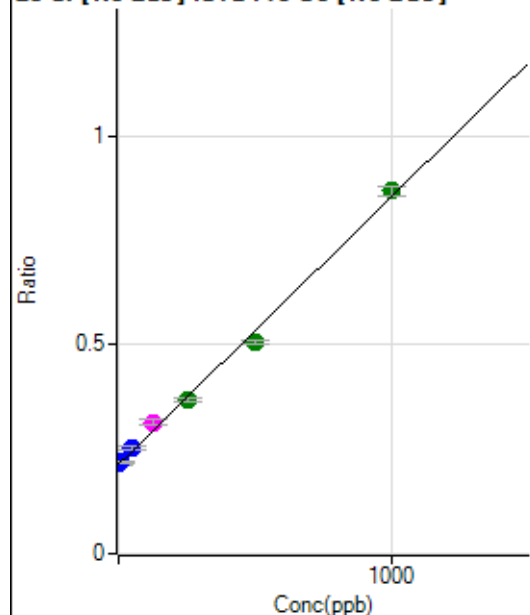
$$R = 1.0000$$

$$DL = 5.067$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 641830.38  | 0.2140 | P   | 0.4 |
| 2 | <input type="checkbox"/> | 10.000   | 8.495      | 667051.64  | 0.2194 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 62.179     | 783897.01  | 0.2538 | P   | 2.8 |
| 4 | <input type="checkbox"/> | 125.000  | 156.379    | 959203.41  | 0.3141 | M   | 4.2 |
| 5 | <input type="checkbox"/> | 250.000  | 240.122    | 1134797.36 | 0.3677 | A   | 2.5 |
| 6 | <input type="checkbox"/> | 500.000  | 454.582    | 1581292.80 | 0.5051 | A   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1020.662   | 2737708.50 | 0.8677 | A   | 2.9 |
| 8 | <input type="checkbox"/> |          |            | 771242.10  | 0.2604 | P   | 1.4 |

$$y = 6.4048\text{E-}004 * x + 0.2140$$

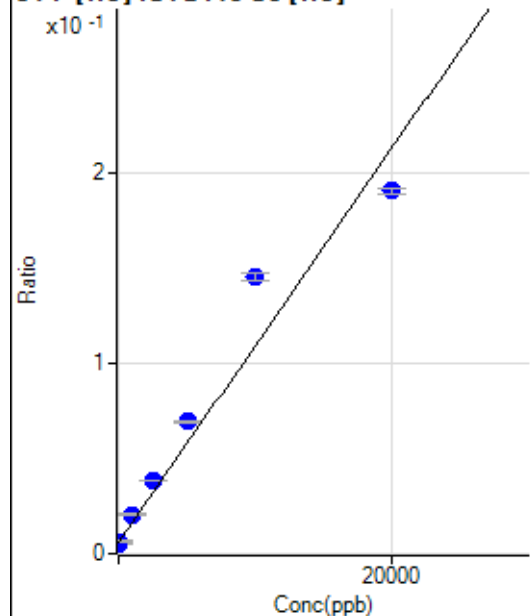
$$R = 0.9977$$

$$DL = 4.441$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | -52.230    | 652.81   | 0.0052 | P   | 17.5 |
| 2 | <input type="checkbox"/> | 0.000     | 52.230     | 794.49   | 0.0063 | P   | 14.1 |
| 3 | <input type="checkbox"/> | 1000.000  | 1427.763   | 2650.33  | 0.0205 | P   | 6.8  |
| 4 | <input type="checkbox"/> | 2500.000  | 3143.451   | 4948.19  | 0.0383 | P   | 1.4  |
| 5 | <input type="checkbox"/> | 5000.000  | 6135.037   | 9214.32  | 0.0693 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 13506.087  | 19129.79 | 0.1456 | P   | 2.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 17861.378  | 25692.80 | 0.1907 | P   | 1.9  |
| 8 | <input type="checkbox"/> |           |            | 783.38   | 0.0061 | P   | 11.6 |

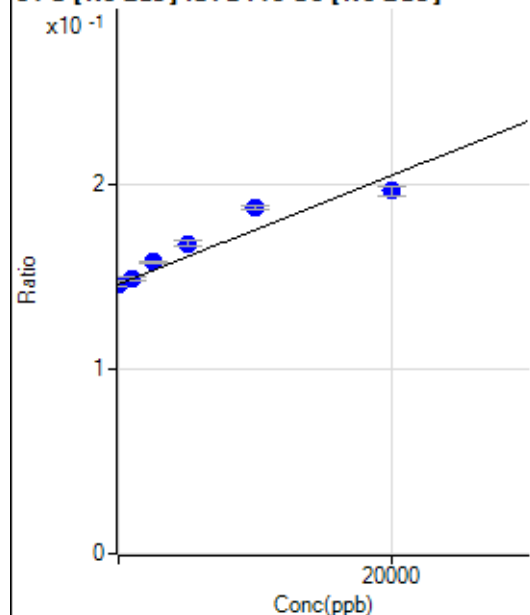
$$y = 1.0354\text{E-}005 * x + 0.0057$$

$$R = 0.9733$$

$$DL = 259.9$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -47.559    | 436589.30 | 0.1455 | P    | 0.4 |
| 2 | <input type="checkbox"/> | 0.000     | 47.559     | 443313.09 | 0.1458 | P    | 2.0 |
| 3 | <input type="checkbox"/> | 1000.000  | 1037.025   | 459460.85 | 0.1487 | P    | 1.5 |
| 4 | <input type="checkbox"/> | 2500.000  | 4149.410   | 482150.43 | 0.1579 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 5000.000  | 7414.498   | 516730.10 | 0.1675 | P    | 2.1 |
| 6 | <input type="checkbox"/> | 10000.000 | 14091.878  | 585593.12 | 0.1871 | P    | 1.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 17142.409  | 618481.23 | 0.1960 | P    | 3.0 |
| 8 | <input type="checkbox"/> |           |            | 396719.83 | 0.1340 | P    | 1.6 |

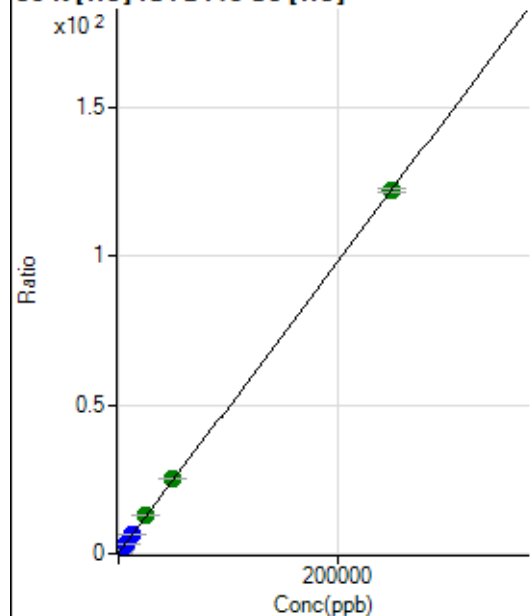
$$y = 2.9369\text{E-}006 * x + 0.1457$$

$$R = 0.9530$$

$$DL = 1788$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 24763.47    | 0.1974   | P    | 2.4 |
| 2 | <input type="checkbox"/> | 500.000   | 514.407    | 56706.27    | 0.4481   | P    | 1.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2752.844   | 198846.70   | 1.5390   | P    | 0.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6752.641   | 450910.95   | 3.4885   | P    | 0.9 |
| 5 | <input type="checkbox"/> | 12500.000 | 13288.045  | 887867.78   | 6.6737   | P    | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 26461.834  | 1720618.66  | 13.0943  | A    | 1.1 |
| 7 | <input type="checkbox"/> | 50000.000 | 51249.558  | 3392569.43  | 25.1754  | A    | 1.0 |
| 8 | <input type="checkbox"/> | 250000.00 | 249549.37  | 15622861.46 | 121.8226 | A    | 1.0 |

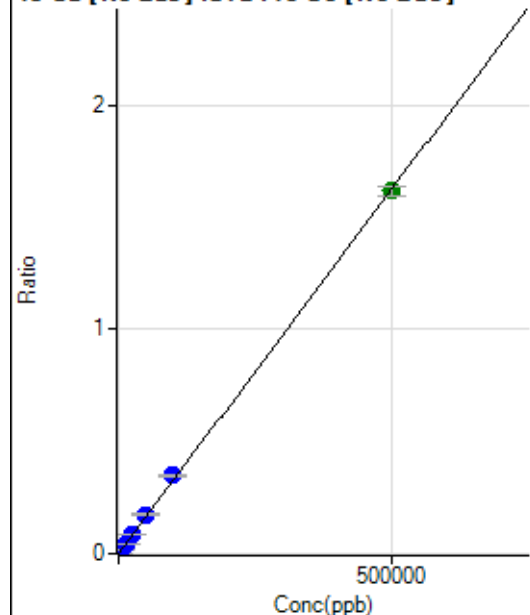
$$y = 4.8738\text{E-}004 * x + 0.1974$$

$$R = 1.0000$$

$$DL = 29.37$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 841.71     | 0.0003 | P    | 7.4 |
| 2 | <input type="checkbox"/> | 500.000   | 515.555    | 5945.83    | 0.0020 | P    | 3.3 |
| 3 | <input type="checkbox"/> | 5000.000  | 5428.286   | 55365.63   | 0.0179 | P    | 1.9 |
| 4 | <input type="checkbox"/> | 12500.000 | 13514.035  | 134983.10  | 0.0442 | P    | 1.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 27051.176  | 272160.75  | 0.0882 | P    | 1.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 53639.897  | 546534.69  | 0.1746 | P    | 1.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 107148.00  | 1099362.41 | 0.3485 | P    | 3.5 |
| 8 | <input type="checkbox"/> | 500000.00 | 498074.20  | 4793561.44 | 1.6188 | A    | 2.8 |

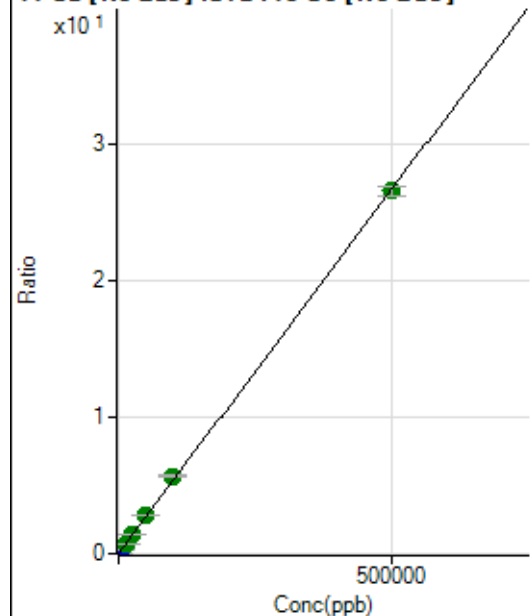
$$y = 3.2497\text{E-}006 * x + 2.8057\text{E-}004$$

$$R = 0.9999$$

$$DL = 19.16$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 42624.85    | 0.0142  | P    | 1.4 |
| 2 | <input type="checkbox"/> | 500.000   | 484.830    | 121704.09   | 0.0400  | P    | 1.1 |
| 3 | <input type="checkbox"/> | 5000.000  | 5424.053   | 936106.86   | 0.3030  | P    | 1.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 13400.911  | 2222535.99  | 0.7277  | A    | 1.7 |
| 5 | <input type="checkbox"/> | 25000.000 | 26762.729  | 4441150.79  | 1.4392  | A    | 2.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 53125.336  | 8899412.61  | 2.8428  | A    | 1.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 106545.57  | 17946657.69 | 5.6872  | A    | 2.3 |
| 8 | <input type="checkbox"/> | 500000.00 | 498263.46  | 78602038.56 | 26.5439 | A    | 2.5 |

$$y = 5.3244\text{E-}005 * x + 0.0142$$

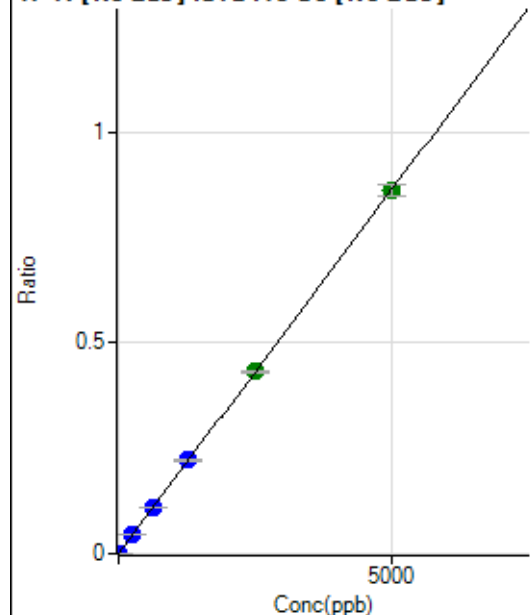
$$R = 0.9999$$

$$DL = 11.33$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 886.16     | 0.0003 | P    | 6.1 |
| 2 | <input type="checkbox"/> | 10.000   | 4.923      | 3478.28    | 0.0011 | P    | 2.4 |
| 3 | <input type="checkbox"/> | 250.000  | 258.345    | 138498.37  | 0.0448 | P    | 1.0 |
| 4 | <input type="checkbox"/> | 625.000  | 636.236    | 335845.77  | 0.1100 | P    | 1.4 |
| 5 | <input type="checkbox"/> | 1250.000 | 1283.418   | 683595.48  | 0.2215 | P    | 2.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2504.557   | 1352510.86 | 0.4320 | A    | 0.8 |
| 7 | <input type="checkbox"/> | 5000.000 | 4987.555   | 2713665.58 | 0.8600 | A    | 3.0 |
| 8 | <input type="checkbox"/> |          |            | 1158.41    | 0.0004 | P    | 2.7 |

$$y = 1.7237E-004 * x + 2.9538E-004$$

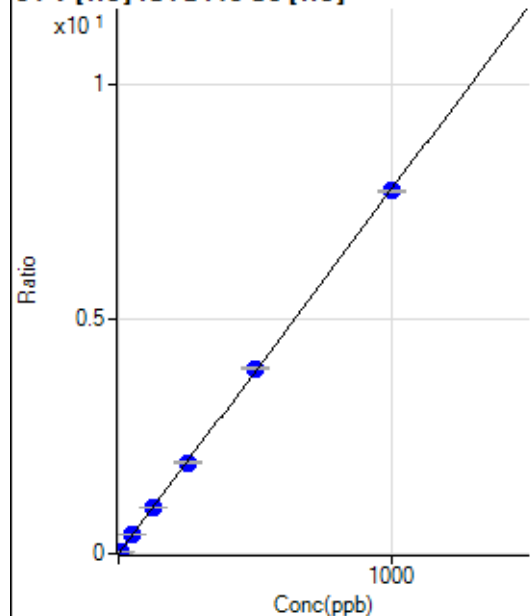
$$R = 1.0000$$

$$DL = 0.3161$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 18.89      | 0.0002 | P    | 10.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.990      | 4930.90    | 0.0390 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.404     | 52673.25   | 0.4077 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.915    | 127593.15  | 0.9872 | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 250.254    | 258952.06  | 1.9464 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 507.610    | 518787.42  | 3.9479 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.772    | 1043627.25 | 7.7444 | P    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 450.01     | 0.0035 | P    | 6.8  |

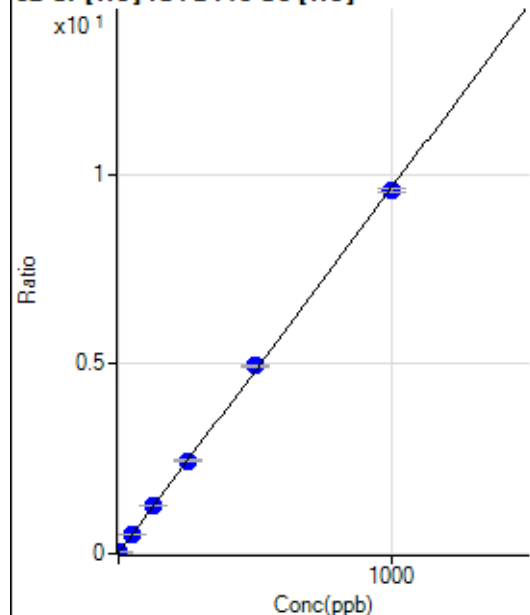
$$y = 0.0078 * x + 1.5057E-004$$

$$R = 1.0000$$

$$DL = 0.00606$$

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      | 1804.58    | 0.0144 | P   | 3.6 |
| 2 | <input type="checkbox"/> | 2.000    | 1.833      | 4056.17    | 0.0321 | P   | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 52.953     | 67795.36   | 0.5248 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 125.000  | 128.684    | 162173.01  | 1.2547 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 253.826    | 327379.44  | 2.4608 | P   | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 512.708    | 651223.75  | 4.9560 | P   | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.082    | 1290494.62 | 9.5762 | P   | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 34696.51   | 0.2706 | P   | 1.1 |

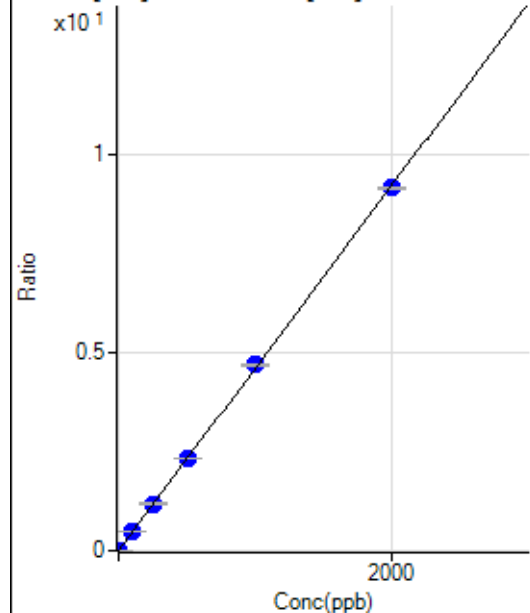
$$y = 0.0096 * x + 0.0144$$

$$R = 0.9999$$

$$DL = 0.1597$$

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      | 101.11     | 0.0008 | P   | 4.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.972      | 668.91     | 0.0053 | P   | 9.6 |
| 3 | <input type="checkbox"/> | 100.000  | 103.963    | 62008.33   | 0.4800 | P   | 2.4 |
| 4 | <input type="checkbox"/> | 250.000  | 257.892    | 153748.27  | 1.1895 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 500.000  | 503.197    | 308679.52  | 2.3202 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 1000.000 | 1018.729   | 617131.15  | 4.6964 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 2000.000 | 1988.651   | 1235372.76 | 9.1671 | P   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 4614.13    | 0.0360 | P   | 3.1 |

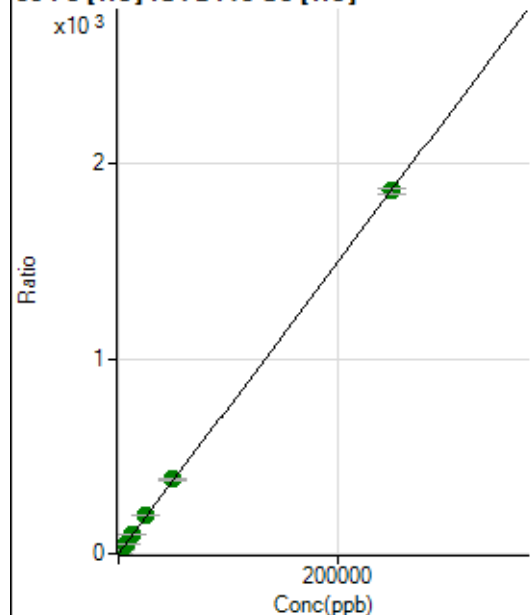
$$y = 0.0046 * x + 8.0585E-004$$

$$R = 0.9999$$

$$DL = 0.02192$$

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      | 3989.51     | 0.0318    | P   | 3.3 |
| 2 | <input type="checkbox"/> | 50.000    | 52.217     | 53245.58    | 0.4207    | P   | 0.8 |
| 3 | <input type="checkbox"/> | 2500.000  | 2722.368   | 2623660.74  | 20.3085   | A   | 1.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6575.542   | 6334485.04  | 49.0076   | A   | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 13009.407  | 12895495.89 | 96.9282   | A   | 0.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 26013.615  | 25463946.40 | 193.7858  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 51007.474  | 51200392.81 | 379.9445  | A   | 1.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249661.31  | 238457586.8 | 1,859.553 | A   | 1.3 |

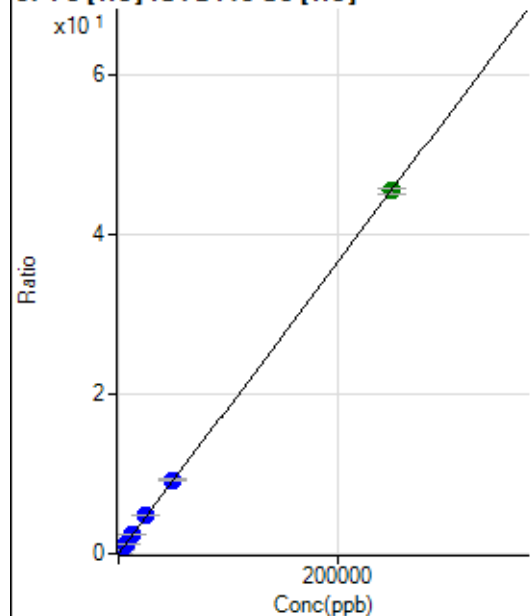
$$y = 0.0074 * x + 0.0318$$

$$R = 1.0000$$

$$DL = 0.4164$$

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      | 179.63     | 0.0014  | P   | 18.1 |
| 2 | <input type="checkbox"/> | 50.000    | 54.658     | 1440.84    | 0.0114  | P   | 5.9  |
| 3 | <input type="checkbox"/> | 2500.000  | 2694.310   | 63576.62   | 0.4921  | P   | 1.9  |
| 4 | <input type="checkbox"/> | 6250.000  | 6609.191   | 155767.54  | 1.2051  | P   | 1.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 13049.349  | 316367.69  | 2.3779  | P   | 1.1  |
| 6 | <input type="checkbox"/> | 25000.000 | 26131.519  | 625539.80  | 4.7604  | P   | 0.5  |
| 7 | <input type="checkbox"/> | 50000.000 | 50930.863  | 1250103.35 | 9.2767  | P   | 1.0  |
| 8 | <input type="checkbox"/> | 250000.00 | 249662.28  | 5830610.66 | 45.4689 | A   | 1.9  |

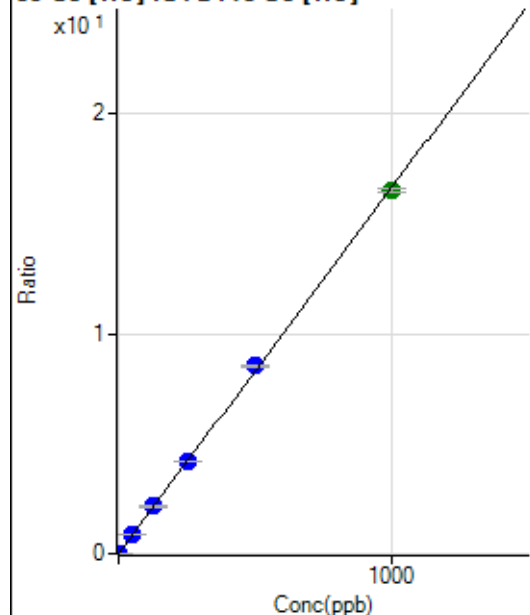
$$y = 1.8212E-004 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 4.276$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 32.22      | 0.0003  | P   | 37.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.021      | 2180.20    | 0.0172  | P   | 1.2  |
| 3 | <input type="checkbox"/> | 50.000   | 53.482     | 114816.50  | 0.8887  | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.847    | 276693.13  | 2.1408  | P   | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 253.596    | 560532.32  | 4.2132  | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 513.037    | 1119996.15 | 8.5232  | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.928    | 2220796.34 | 16.4789 | A   | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 3536.03    | 0.0276  | P   | 1.4  |

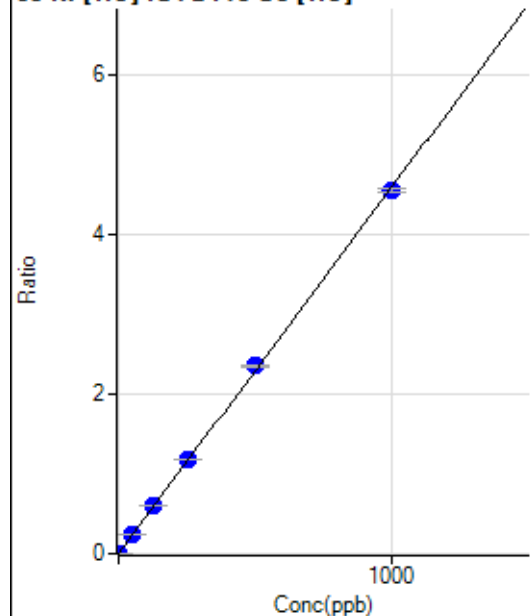
$$y = 0.0166 * x + 2.5721E-004$$

$$R = 0.9999$$

$$DL = 0.01726$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 113.33    | 0.0009 | P   | 19.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.906      | 640.02    | 0.0051 | P   | 7.5  |
| 3 | <input type="checkbox"/> | 50.000   | 53.985     | 32103.99  | 0.2485 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 131.617    | 78136.22  | 0.6045 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 255.165    | 155811.85 | 1.1711 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 513.747    | 309722.00 | 2.3571 | P   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.809    | 612461.10 | 4.5450 | P   | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 11820.55  | 0.0922 | P   | 1.9  |

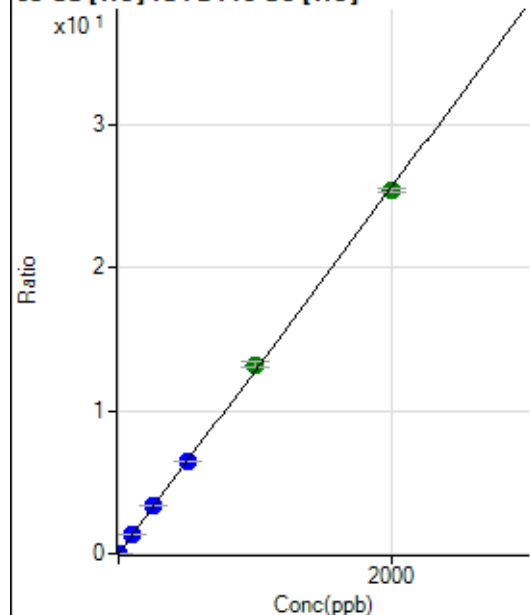
$$y = 0.0046 * x + 9.0217E-004$$

$$R = 0.9998$$

$$DL = 0.1159$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 213.34     | 0.0017  | P   | 27.0 |
| 2 | <input type="checkbox"/> | 2.000    | 2.048      | 3536.03    | 0.0279  | P   | 3.0  |
| 3 | <input type="checkbox"/> | 100.000  | 106.990    | 177340.26  | 1.3727  | P   | 1.5  |
| 4 | <input type="checkbox"/> | 250.000  | 259.215    | 429561.91  | 3.3234  | P   | 0.6  |
| 5 | <input type="checkbox"/> | 500.000  | 504.702    | 860682.77  | 6.4692  | P   | 0.8  |
| 6 | <input type="checkbox"/> | 1000.000 | 1033.803   | 1740760.37 | 13.2493 | A   | 3.8  |
| 7 | <input type="checkbox"/> | 2000.000 | 1980.422   | 3420049.64 | 25.3797 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 6612.72    | 0.0516  | P   | 1.8  |

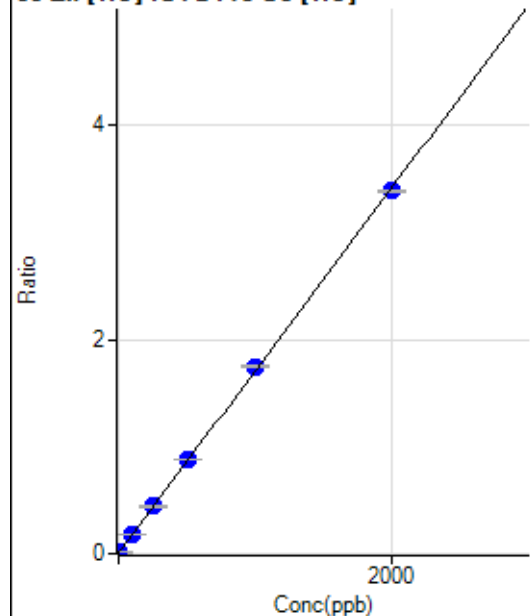
$$y = 0.0128 * x + 0.0017$$

$$R = 0.9998$$

$$DL = 0.1073$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 428.90    | 0.0034 | P   | 15.5 |
| 2 | <input type="checkbox"/> | 5.000    | 4.868      | 1482.31   | 0.0117 | P   | 9.3  |
| 3 | <input type="checkbox"/> | 100.000  | 107.732    | 24153.99  | 0.1870 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 250.000  | 257.013    | 57035.37  | 0.4413 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 500.000  | 509.893    | 116026.99 | 0.8721 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 1000.000 | 1021.570   | 229143.76 | 1.7438 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 2000.000 | 1985.479   | 456317.92 | 3.3860 | P   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 7821.13   | 0.0610 | P   | 0.1  |

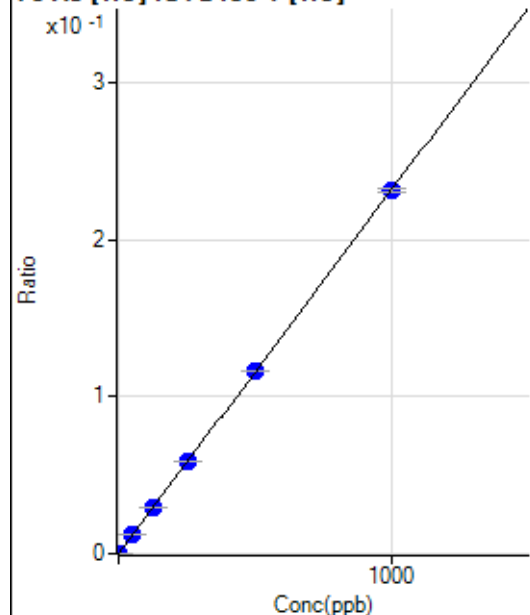
$$y = 0.0017 * x + 0.0034$$

$$R = 0.9999$$

$$DL = 0.934$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.33      | 0.0000 | P    | 42.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.971      | 151.68    | 0.0002 | P    | 11.5 |
| 3 | <input type="checkbox"/> | 50.000   | 51.127     | 8122.82   | 0.0118 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 126.132    | 19963.73  | 0.0292 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 251.658    | 40421.21  | 0.0582 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 503.958    | 81718.15  | 0.1166 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.409    | 165641.61 | 0.2309 | P    | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 85.34     | 0.0001 | P    | 12.2 |

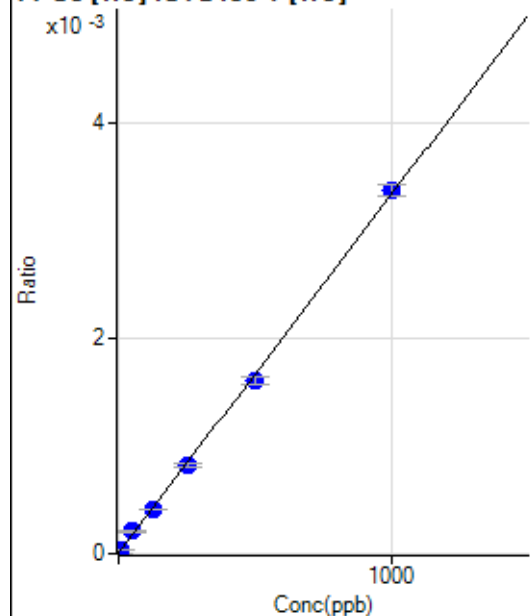
$$y = 2.3146E-004 * x + 2.0281E-006$$

$$R = 1.0000$$

$$DL = 0.01117$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.33    | 0.0000 | P    | 99.8 |
| 2 | <input type="checkbox"/> | 5.000    | 7.950      | 21.11   | 0.0000 | P    | 8.7  |
| 3 | <input type="checkbox"/> | 50.000   | 60.242     | 141.11  | 0.0002 | P    | 13.7 |
| 4 | <input type="checkbox"/> | 125.000  | 123.360    | 284.45  | 0.0004 | P    | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 244.142    | 567.80  | 0.0008 | P    | 5.2  |
| 6 | <input type="checkbox"/> | 500.000  | 482.269    | 1128.95 | 0.0016 | P    | 4.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.008   | 2418.01 | 0.0034 | P    | 3.0  |
| 8 | <input type="checkbox"/> |          |            | 8.89    | 0.0000 | P    | 94.2 |

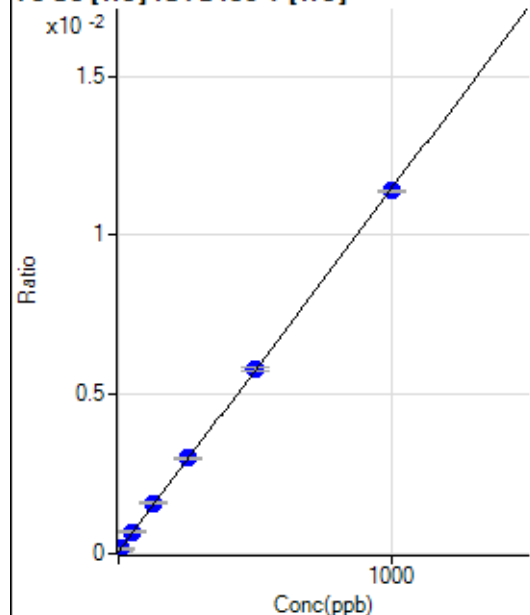
$$y = 3.3313E-006 * x + 5.0526E-006$$

$$R = 0.9996$$

$$DL = 4.54$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|---------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.67   | 0.0001 | P   | 12.3 |
| 2 | <input type="checkbox"/> | 5.000    | 7.444      | 102.34  | 0.0002 | P   | 10.7 |
| 3 | <input type="checkbox"/> | 50.000   | 54.255     | 471.06  | 0.0007 | P   | 4.0  |
| 4 | <input type="checkbox"/> | 125.000  | 133.415    | 1086.49 | 0.0016 | P   | 5.3  |
| 5 | <input type="checkbox"/> | 250.000  | 257.355    | 2082.03 | 0.0030 | P   | 3.1  |
| 6 | <input type="checkbox"/> | 500.000  | 505.048    | 4079.01 | 0.0058 | P   | 2.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.360    | 8178.53 | 0.0114 | P   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 59.34   | 0.0001 | P   | 15.7 |

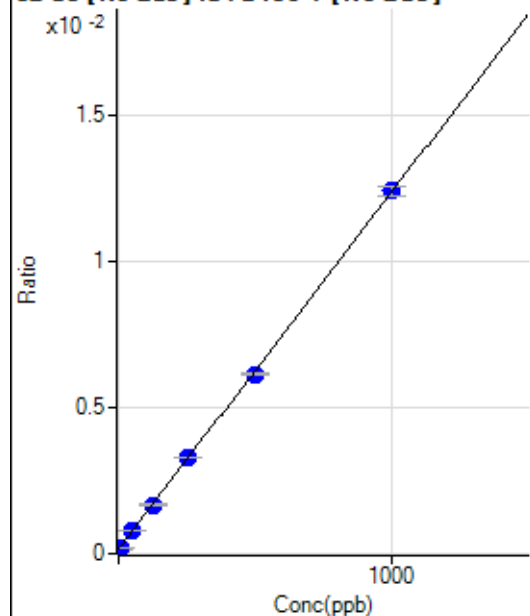
$$y = 1.1395E-005 * x + 6.8085E-005$$

$$R = 0.9999$$

$$DL = 2.204$$

Weight: &lt;None&gt;

Min Conc: 0

**82 Se [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      | 715.26   | 0.0002 | P   | 1.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.321      | 947.11   | 0.0002 | P   | 5.2 |
| 3 | <input type="checkbox"/> | 50.000   | 51.882     | 3515.27  | 0.0008 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 125.000  | 123.783    | 7480.28  | 0.0017 | P   | 1.9 |
| 5 | <input type="checkbox"/> | 250.000  | 255.427    | 14511.16 | 0.0033 | P   | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 489.562    | 28457.78 | 0.0061 | P   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.924   | 56883.81 | 0.0124 | P   | 2.8 |
| 8 | <input type="checkbox"/> |          |            | 799.17   | 0.0002 | P   | 5.5 |

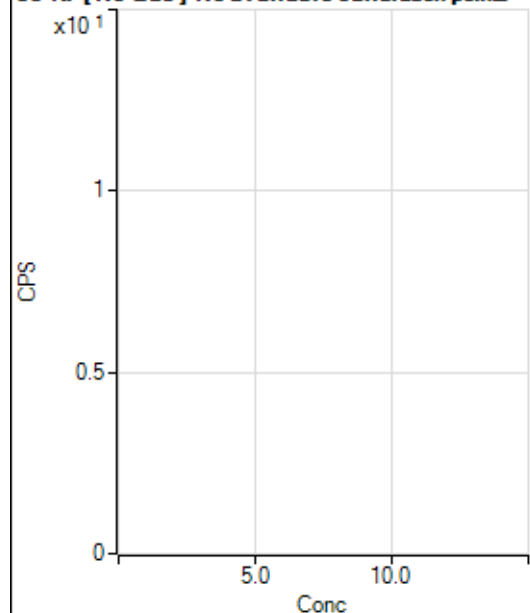
$$y = 1.2206E-005 * x + 1.6545E-004$$

$$R = 0.9999$$

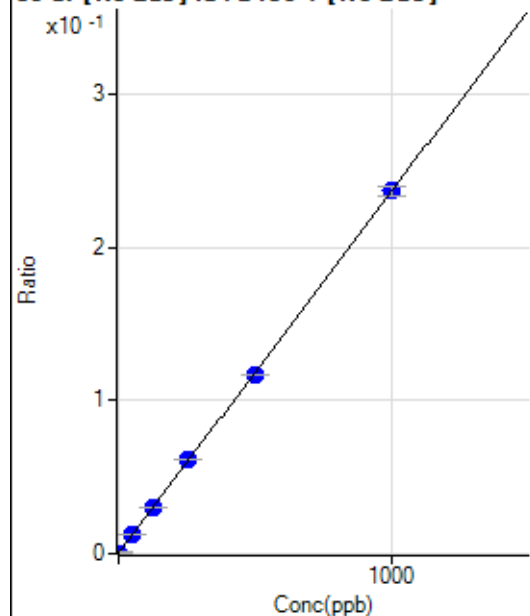
$$DL = 0.5744$$

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"/> |       |            | 1064.50 |       | P        | 3.1 |
| 2 | <input type="checkbox"/> |       |            | 1136.72 |       | P        | 5.4 |
| 3 | <input type="checkbox"/> |       |            | 1127.83 |       | P        | 2.0 |
| 4 | <input type="checkbox"/> |       |            | 1086.72 |       | P        | 9.3 |
| 5 | <input type="checkbox"/> |       |            | 1094.50 |       | P        | 1.3 |
| 6 | <input type="checkbox"/> |       |            | 1146.73 |       | P        | 6.9 |
| 7 | <input type="checkbox"/> |       |            | 1121.17 |       | P        | 4.7 |
| 8 | <input type="checkbox"/> |       |            | 1098.94 |       | P        | 3.5 |

**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      | 1661.25    | 0.0004 | P        | 10.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.962      | 2653.11    | 0.0006 | P        | 6.4  |
| 3 | <input type="checkbox"/> | 50.000   | 51.011     | 54649.15   | 0.0124 | P        | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 125.042    | 133360.90  | 0.0299 | P        | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 258.124    | 270859.10  | 0.0613 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 492.457    | 540188.94  | 0.1166 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.685   | 1084175.41 | 0.2367 | P        | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 3736.73    | 0.0008 | P        | 4.9  |

$$y = 2.3592E-004 * x + 3.8414E-004$$

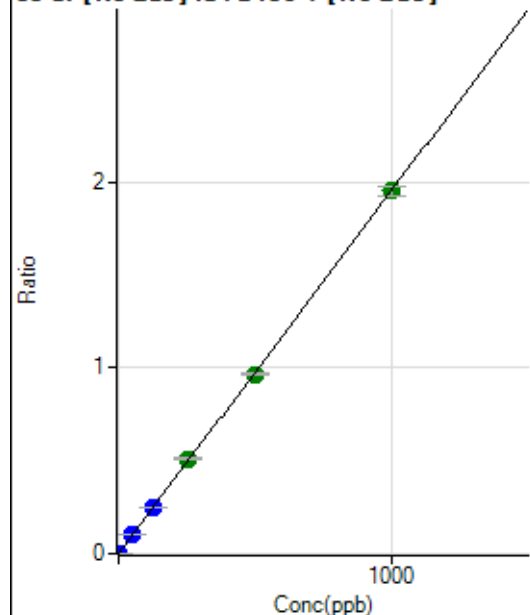
$$R = 0.9999$$

$$DL = 0.4873$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 66.67      | 0.0000 | P   | 45.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.970      | 8294.41    | 0.0019 | P   | 5.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.392     | 450520.08  | 0.1024 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 128.946    | 1124259.30 | 0.2519 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 260.348    | 2248207.58 | 0.5086 | A   | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 494.896    | 4480671.50 | 0.9669 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.352    | 8942696.21 | 1.9524 | A   | 2.8  |
| 8 | <input type="checkbox"/> |          |            | 18579.53   | 0.0042 | P   | 2.6  |

$$y = 0.0020 * x + 1.5428E-005$$

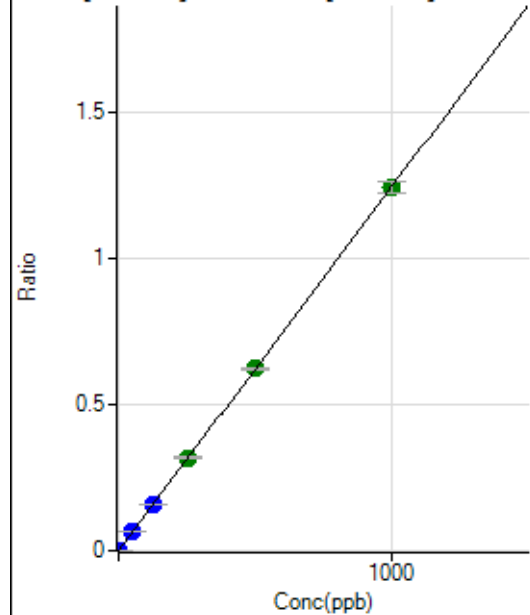
$$R = 0.9999$$

$$DL = 0.01068$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 250.01     | 0.0001 | P   | 20.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.966      | 5470.66    | 0.0013 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.143     | 285824.95  | 0.0649 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 127.204    | 706650.07  | 0.1584 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 255.690    | 1406613.91 | 0.3183 | A   | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 500.495    | 2886730.75 | 0.6229 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.947    | 5688028.77 | 1.2420 | A   | 3.3  |
| 8 | <input type="checkbox"/> |          |            | 1394.56    | 0.0003 | P   | 5.3  |

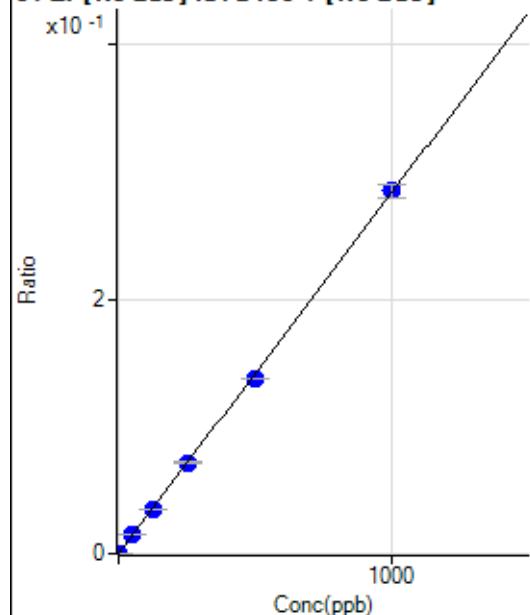
$$y = 0.0012 * x + 5.7873E-005$$

$$R = 1.0000$$

$$DL = 0.02891$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11      | 0.0000 | P        | 58.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.943      | 1194.53    | 0.0003 | P        | 10.7 |
| 3 | <input type="checkbox"/> | 50.000   | 51.412     | 64089.73   | 0.0146 | P        | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 124.611    | 157447.09  | 0.0353 | P        | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 252.248    | 315642.65  | 0.0714 | P        | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 486.002    | 637609.19  | 0.1376 | P        | 0.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.415   | 1304621.59 | 0.2849 | P        | 3.9  |
| 8 | <input type="checkbox"/> |          |            | 283.34     | 0.0001 | P        | 15.6 |

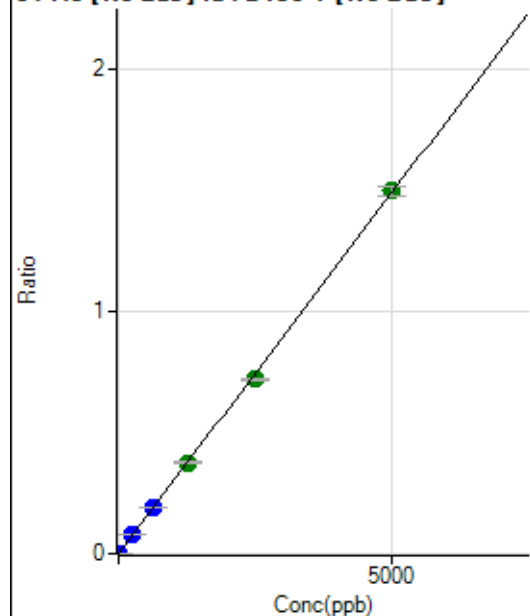
$$y = 2.8307E-004 * x + 8.3681E-006$$

$$R = 0.9999$$

$$DL = 0.052$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 113.89     | 0.0000 | P        | 44.7 |
| 2 | <input type="checkbox"/> | 10.000   | 5.028      | 6596.19    | 0.0015 | P        | 4.4  |
| 3 | <input type="checkbox"/> | 250.000  | 260.262    | 340275.83  | 0.0773 | P        | 2.0  |
| 4 | <input type="checkbox"/> | 625.000  | 630.241    | 835372.86  | 0.1872 | P        | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1264.685   | 1660403.14 | 0.3756 | A        | 0.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2423.025   | 3335104.13 | 0.7197 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5033.658   | 6847682.36 | 1.4950 | A        | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 4406.38    | 0.0010 | P        | 7.3  |

$$y = 2.9699E-004 * x + 2.6398E-005$$

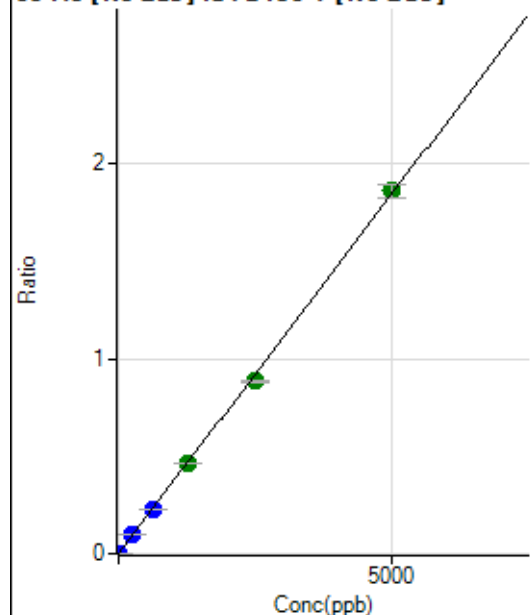
$$R = 0.9998$$

$$DL = 0.1193$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.55      | 0.0000 | P    | 15.8 |
| 2 | <input type="checkbox"/> | 10.000   | 4.987      | 8019.19    | 0.0018 | P    | 4.5  |
| 3 | <input type="checkbox"/> | 250.000  | 257.403    | 417893.15  | 0.0950 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 622.527    | 1024802.65 | 0.2297 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1255.038   | 2046542.73 | 0.4630 | A    | 1.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2398.678   | 4100748.35 | 0.8849 | A    | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 5049.351   | 8530388.73 | 1.8627 | A    | 3.7  |
| 8 | <input type="checkbox"/> |          |            | 6621.21    | 0.0015 | P    | 7.3  |

$$y = 3.6889E-004 * x + 7.0680E-006$$

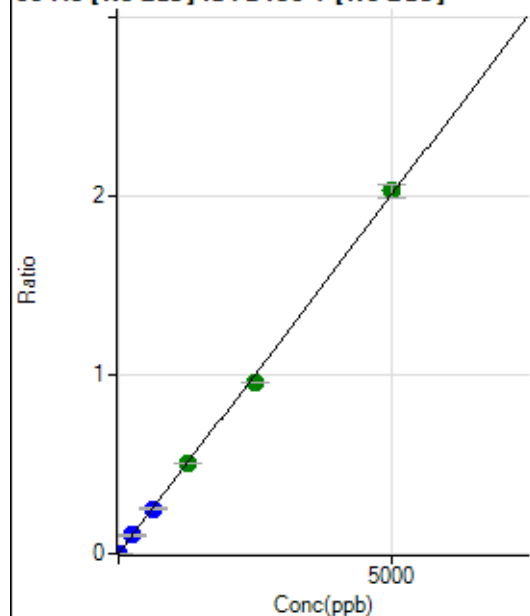
$$R = 0.9997$$

$$DL = 0.009084$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 58.34      | 0.0000 | P    | 0.7 |
| 2 | <input type="checkbox"/> | 10.000   | 4.979      | 8733.55    | 0.0020 | P    | 1.5 |
| 3 | <input type="checkbox"/> | 250.000  | 255.741    | 451714.25  | 0.1027 | P    | 3.0 |
| 4 | <input type="checkbox"/> | 625.000  | 625.954    | 1121090.10 | 0.2512 | P    | 1.6 |
| 5 | <input type="checkbox"/> | 1250.000 | 1262.548   | 2239900.44 | 0.5067 | A    | 0.5 |
| 6 | <input type="checkbox"/> | 2500.000 | 2383.431   | 4433223.75 | 0.9566 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 5000.000 | 5054.751   | 9290999.51 | 2.0287 | A    | 3.5 |
| 8 | <input type="checkbox"/> |          |            | 7857.97    | 0.0018 | P    | 4.6 |

$$y = 4.0135E-004 * x + 1.3494E-005$$

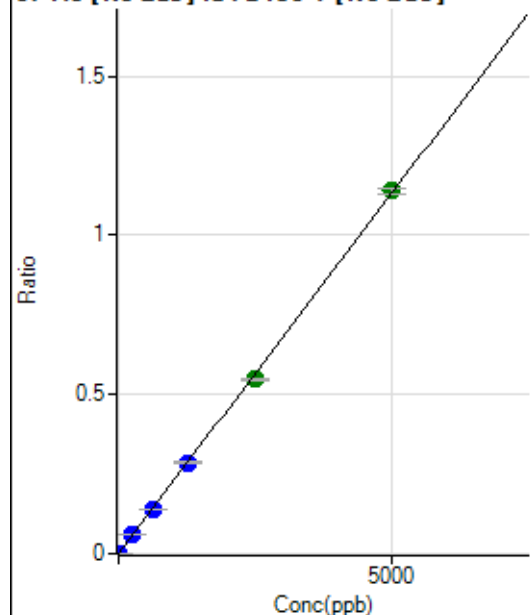
$$R = 0.9996$$

$$DL = 0.0006839$$

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      | 8.33       | 0.0000 | P    | 100. |
| 2 | <input type="checkbox"/> | 10.000   | 4.961      | 4881.57    | 0.0011 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 250.000  | 254.843    | 253701.08  | 0.0576 | P    | 0.4  |
| 4 | <input type="checkbox"/> | 625.000  | 622.782    | 628607.63  | 0.1409 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1266.192   | 1265992.92 | 0.2864 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2421.766   | 2538512.23 | 0.5478 | A    | 1.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5035.114   | 5217635.49 | 1.1389 | A    | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 4125.73    | 0.0009 | P    | 3.3  |

$$y = 2.2619\text{E-}004 * x + 1.9364\text{E-}006$$

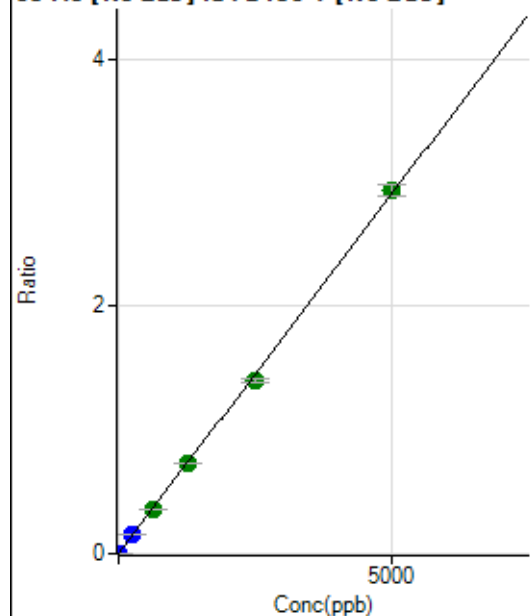
$$R = 0.9998$$

$$DL = 0.02575$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89       | 0.0000 | P    | 34.2 |
| 2 | <input type="checkbox"/> | 10.000   | 5.040      | 12733.96    | 0.0029 | P    | 2.4  |
| 3 | <input type="checkbox"/> | 250.000  | 255.786    | 654322.92   | 0.1487 | P    | 1.0  |
| 4 | <input type="checkbox"/> | 625.000  | 616.749    | 1599698.43  | 0.3585 | A    | 1.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1255.626   | 3225983.08  | 0.7298 | A    | 0.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2405.363   | 6478977.10  | 1.3981 | A    | 1.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 5046.664   | 13435000.21 | 2.9334 | A    | 3.1  |
| 8 | <input type="checkbox"/> |          |            | 10287.40    | 0.0023 | P    | 5.5  |

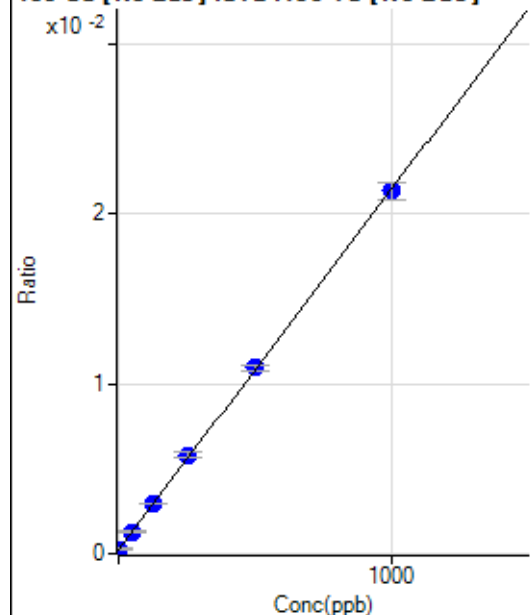
$$y = 5.8126\text{E-}004 * x + 3.2085\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.005668$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 830.61   | 0.0002 | P   | 10.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.481      | 947.28   | 0.0003 | P   | 7.9  |
| 3 | <input type="checkbox"/> | 50.000   | 49.059     | 4520.30  | 0.0013 | P   | 6.4  |
| 4 | <input type="checkbox"/> | 125.000  | 127.295    | 10715.55 | 0.0029 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 262.404    | 20791.11 | 0.0058 | P   | 5.1  |
| 6 | <input type="checkbox"/> | 500.000  | 504.177    | 40017.15 | 0.0109 | P   | 2.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.570    | 79948.70 | 0.0213 | P   | 5.1  |
| 8 | <input type="checkbox"/> |          |            | 975.06   | 0.0003 | P   | 3.5  |

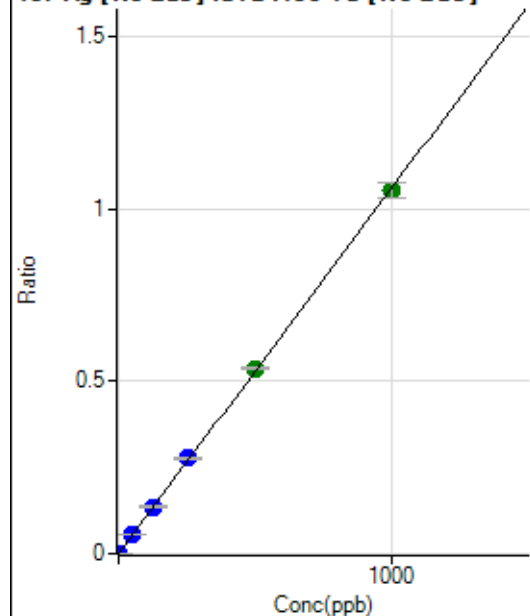
$$y = 2.1206E-005 * x + 2.4107E-004$$

$$R = 0.9999$$

$$DL = 3.497$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11      | 0.0000 | P   | 44.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.263      | 4667.58    | 0.0013 | P   | 3.3  |
| 3 | <input type="checkbox"/> | 50.000   | 53.650     | 200844.49  | 0.0569 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.932    | 494482.25  | 0.1357 | P   | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 261.944    | 995425.48  | 0.2779 | P   | 2.1  |
| 6 | <input type="checkbox"/> | 500.000  | 506.791    | 1968004.86 | 0.5376 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.069    | 3949007.77 | 1.0535 | A   | 4.4  |
| 8 | <input type="checkbox"/> |          |            | 563.92     | 0.0002 | P   | 16.1 |

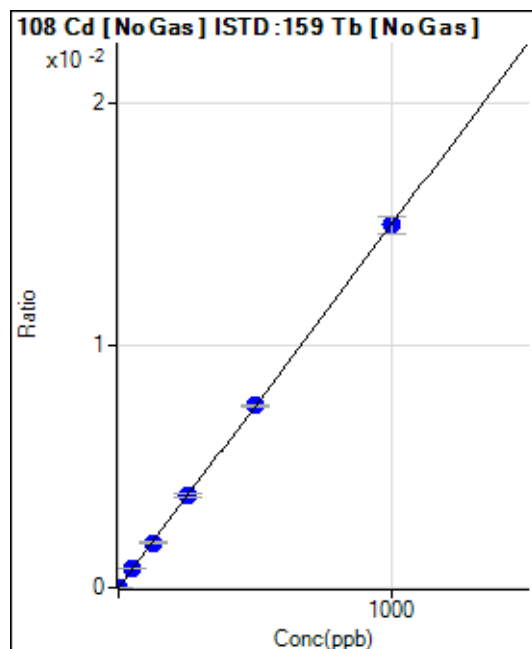
$$y = 0.0011 * x + 3.2417E-006$$

$$R = 0.9999$$

$$DL = 0.004121$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.17     | 0.0000 | P    | 101. |
| 2 | <input type="checkbox"/> | 1.000    | 0.664      | 38.89    | 0.0000 | P    | 40.7 |
| 3 | <input type="checkbox"/> | 50.000   | 52.591     | 2791.99  | 0.0008 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 125.000  | 124.026    | 6792.02  | 0.0019 | P    | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 253.502    | 13644.39 | 0.0038 | P    | 2.6  |
| 6 | <input type="checkbox"/> | 500.000  | 501.130    | 27560.91 | 0.0075 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.552    | 56222.19 | 0.0150 | P    | 5.0  |
| 8 | <input type="checkbox"/> |          |            | 26.39    | 0.0000 | P    | 61.2 |

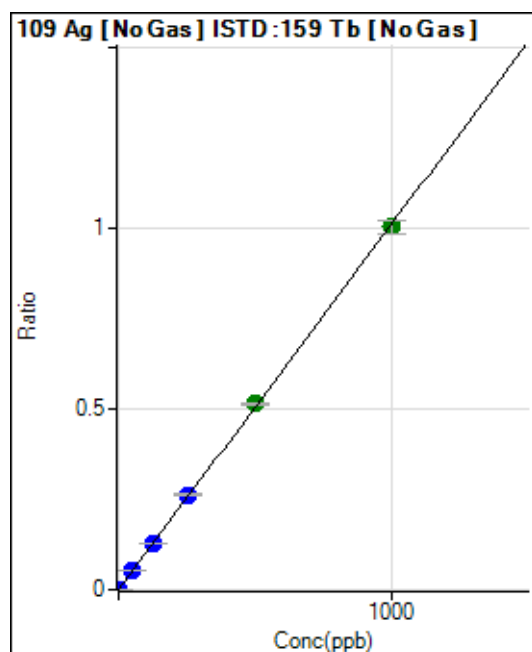
$$y = 1.5021\text{E-}005 * x + 1.2187\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.2457$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.78       | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 1.000    | 1.280      | 4498.09    | 0.0013 | P    | 8.8  |
| 3 | <input type="checkbox"/> | 50.000   | 53.332     | 190095.20  | 0.0539 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 127.186    | 468062.49  | 0.1285 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 260.398    | 942133.94  | 0.2630 | P    | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 508.115    | 1878546.64 | 0.5132 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.903    | 3759654.86 | 1.0028 | A    | 3.7  |
| 8 | <input type="checkbox"/> |          |            | 505.58     | 0.0001 | P    | 20.7 |

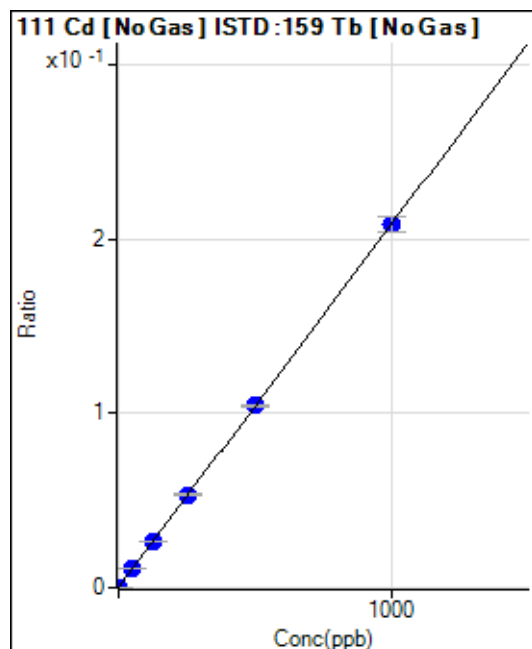
$$y = 0.0010 * x + 8.2021\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.00422$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 584.07    | 0.0002 | P    | 11.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.006      | 1317.84   | 0.0004 | P    | 5.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.094     | 38885.06  | 0.0110 | P    | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 125.593    | 95934.03  | 0.0263 | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 255.337    | 191106.89 | 0.0534 | P    | 2.8  |
| 6 | <input type="checkbox"/> | 500.000  | 500.844    | 382498.51 | 0.1045 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.065    | 779990.15 | 0.2081 | P    | 4.2  |
| 8 | <input type="checkbox"/> |          |            | 952.96    | 0.0003 | P    | 3.8  |

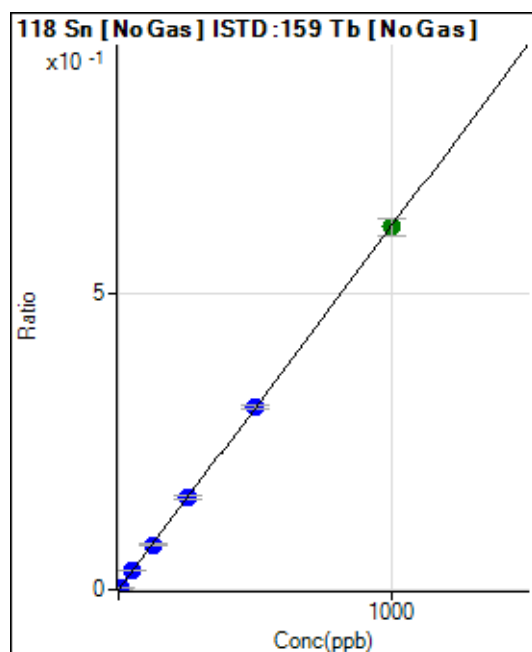
$$y = 2.0829\text{E-}004 * x + 1.6950\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2708$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 202.79     | 0.0001 | P    | 28.3 |
| 2 | <input type="checkbox"/> | 5.000    | 4.856      | 10579.39   | 0.0030 | P    | 3.4  |
| 3 | <input type="checkbox"/> | 50.000   | 51.512     | 111942.01  | 0.0317 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 125.000  | 123.892    | 277652.55  | 0.0762 | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 254.148    | 559729.76  | 0.1563 | P    | 2.5  |
| 6 | <input type="checkbox"/> | 500.000  | 502.344    | 1130369.14 | 0.3088 | P    | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.855    | 2299069.21 | 0.6134 | A    | 4.7  |
| 8 | <input type="checkbox"/> |          |            | 852.83     | 0.0002 | P    | 7.8  |

$$y = 6.1461\text{E-}004 * x + 5.8880\text{E-}005$$

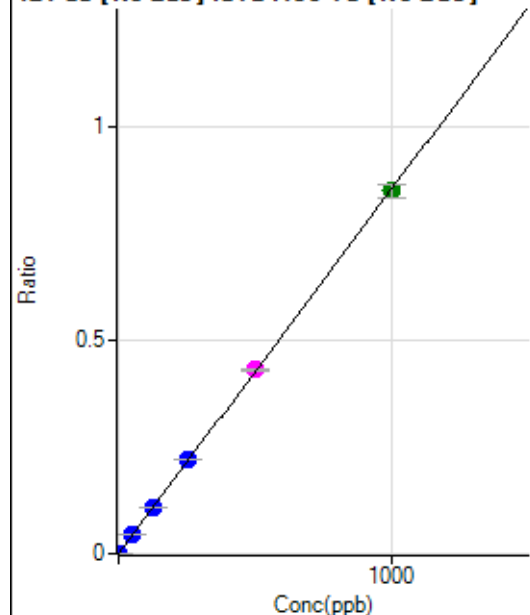
$$R = 1.0000$$

$$DL = 0.08137$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33       | 0.0000 | P   | 1.5 |
| 2 | <input type="checkbox"/> | 2.000    | 1.986      | 5890.32    | 0.0017 | P   | 6.0 |
| 3 | <input type="checkbox"/> | 50.000   | 52.291     | 157192.74  | 0.0445 | P   | 1.9 |
| 4 | <input type="checkbox"/> | 125.000  | 126.807    | 393602.58  | 0.1080 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 257.973    | 787219.53  | 0.2197 | P   | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 504.089    | 1571762.66 | 0.4294 | M   | 1.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.622    | 3179406.54 | 0.8481 | A   | 4.0 |
| 8 | <input type="checkbox"/> |          |            | 1789.06    | 0.0005 | P   | 8.4 |

$$y = 8.5181\text{E-}004 * x + 2.4205\text{E-}006$$

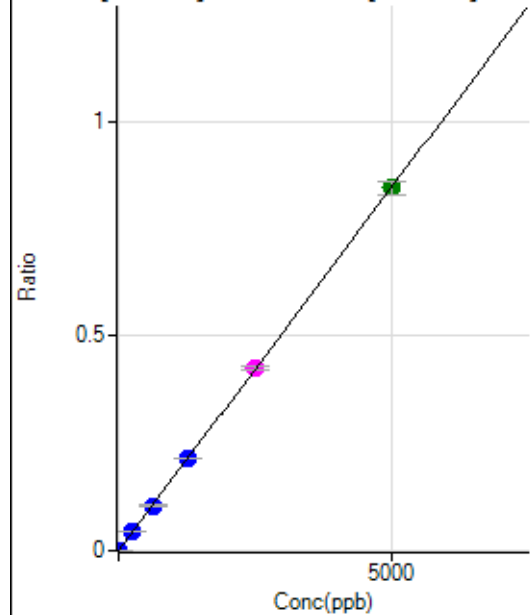
$$R = 1.0000$$

$$DL = 0.00013$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11      | 0.0000 | P   | 113. |
| 2 | <input type="checkbox"/> | 10.000   | 9.806      | 5781.97    | 0.0017 | P   | 2.9  |
| 3 | <input type="checkbox"/> | 250.000  | 259.199    | 154828.46  | 0.0439 | P   | 2.3  |
| 4 | <input type="checkbox"/> | 625.000  | 621.705    | 383469.37  | 0.1052 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1265.475   | 767361.95  | 0.2142 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2505.061   | 1552061.73 | 0.4240 | M   | 2.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4993.553   | 3168897.86 | 0.8452 | A   | 3.8  |
| 8 | <input type="checkbox"/> |          |            | 697.26     | 0.0002 | P   | 15.0 |

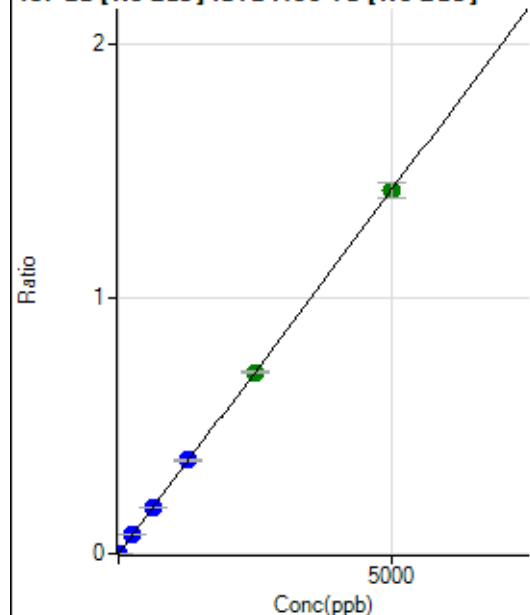
$$y = 1.6926\text{E-}004 * x + 3.2091\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.06454$$

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. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89      | 0.0000 | P    | 69.0 |
| 2 | <input type="checkbox"/> | 10.000   | 9.896      | 9826.06    | 0.0028 | P    | 1.5  |
| 3 | <input type="checkbox"/> | 250.000  | 261.417    | 263102.96  | 0.0746 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 625.000  | 626.298    | 650852.10  | 0.1786 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1291.836   | 1319810.61 | 0.3684 | P    | 1.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2498.695   | 2608514.94 | 0.7126 | A    | 1.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4989.460   | 5334046.69 | 1.4230 | A    | 4.4  |
| 8 | <input type="checkbox"/> |          |            | 933.39     | 0.0003 | P    | 4.2  |

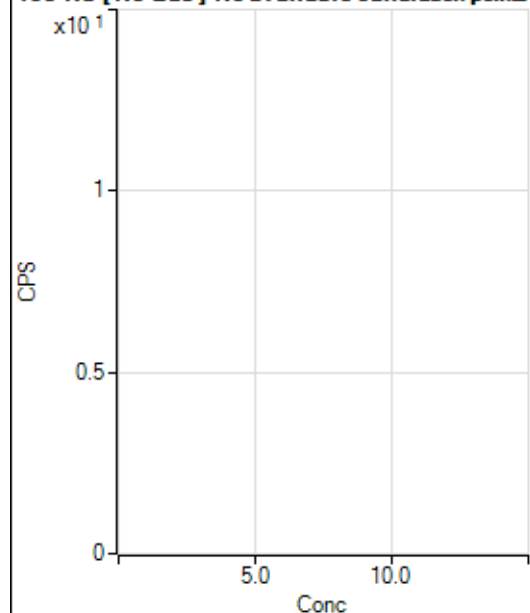
$$y = 2.8519E-004 * x + 4.0302E-006$$

$$R = 1.0000$$

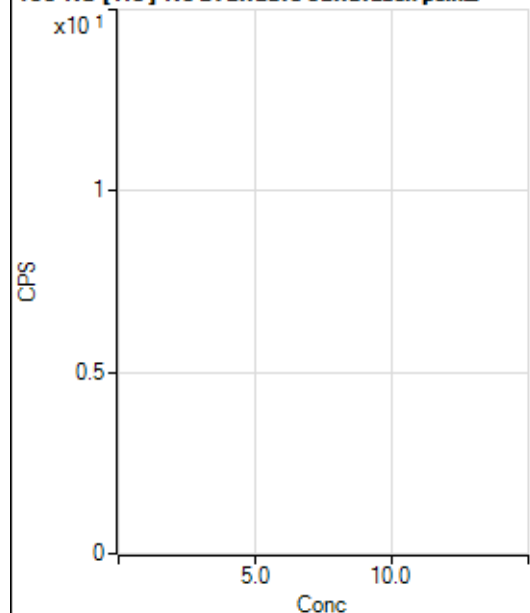
$$DL = 0.02926$$

Weight: &lt;None&gt;

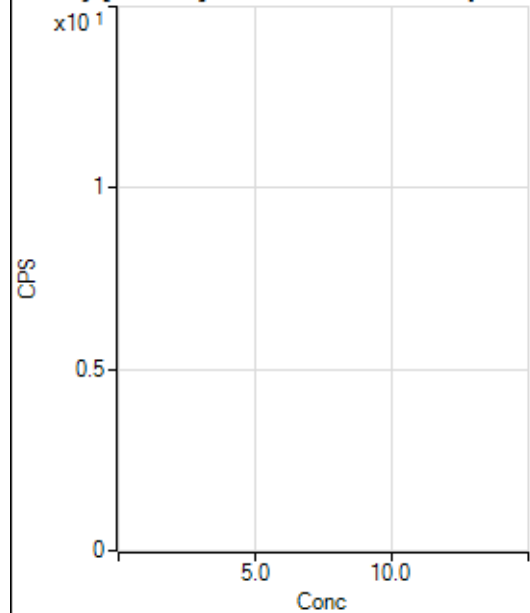
Min Conc: 0

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

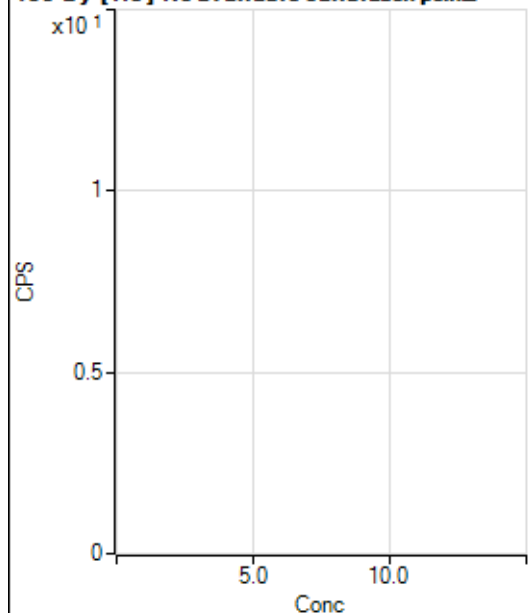
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P    | 173. |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P    | 100. |
| 3 | <input type="checkbox"/> |       |            | 20.00  |       | P    | 33.4 |
| 4 | <input type="checkbox"/> |       |            | 17.78  |       | P    | 43.3 |
| 5 | <input type="checkbox"/> |       |            | 37.78  |       | P    | 36.7 |
| 6 | <input type="checkbox"/> |       |            | 46.67  |       | P    | 42.9 |
| 7 | <input type="checkbox"/> |       |            | 117.78 |       | P    | 11.8 |
| 8 | <input type="checkbox"/> |       |            | 37.78  |       | P    | 27.0 |

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

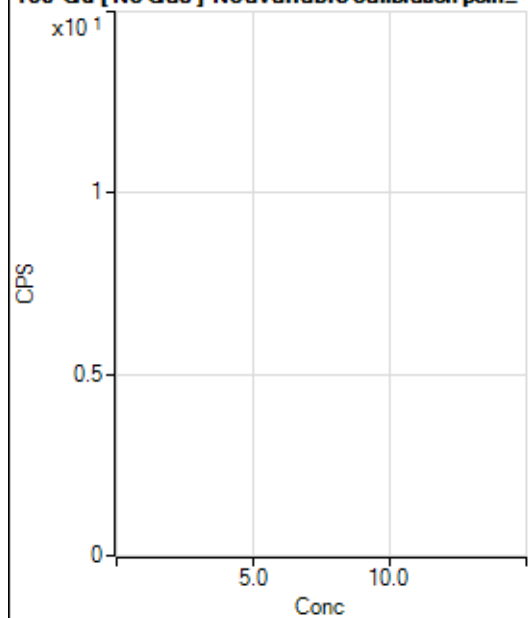
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100. |
| 4 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 43.4 |
| 5 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100. |
| 6 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 49.5 |
| 7 | <input type="checkbox"/> |       |            | 14.45 |       | P        | 48.0 |
| 8 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 45.8 |

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

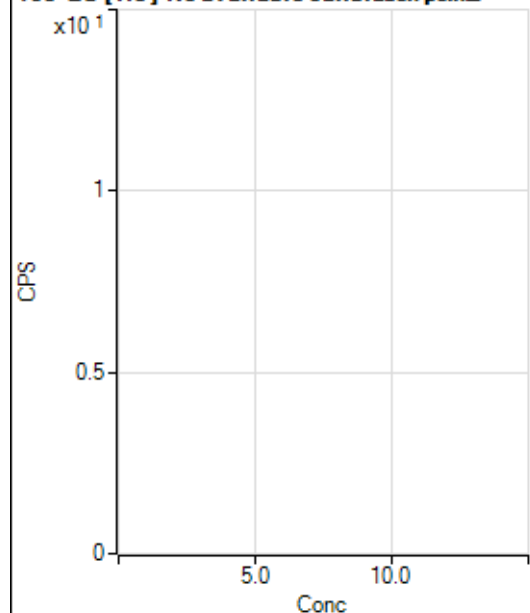
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.33  |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 2.78  |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 100. |
| 4 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 69.3 |
| 5 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 66.7 |
| 6 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 34.6 |
| 7 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 41.7 |
| 8 | <input type="checkbox"/> |       |            | 72.23 |       | P        | 17.6 |

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

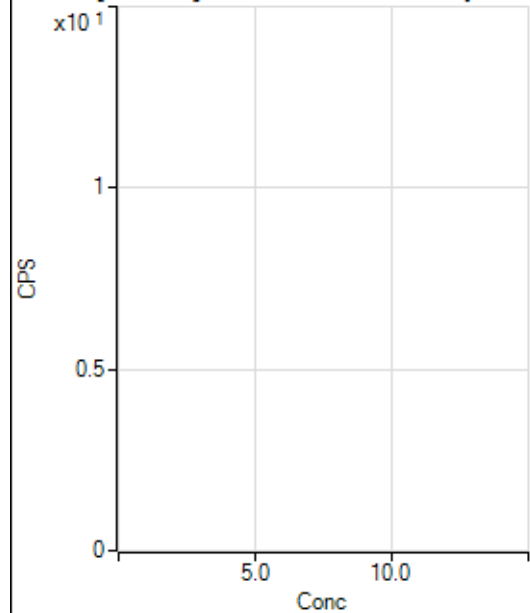
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100. |
| 3 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 24.7 |
| 4 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 17.3 |
| 5 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 24.7 |
| 6 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 21.6 |
| 7 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 35.3 |
| 8 | <input type="checkbox"/> |       |            | 67.78 |       | P        | 31.2 |

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

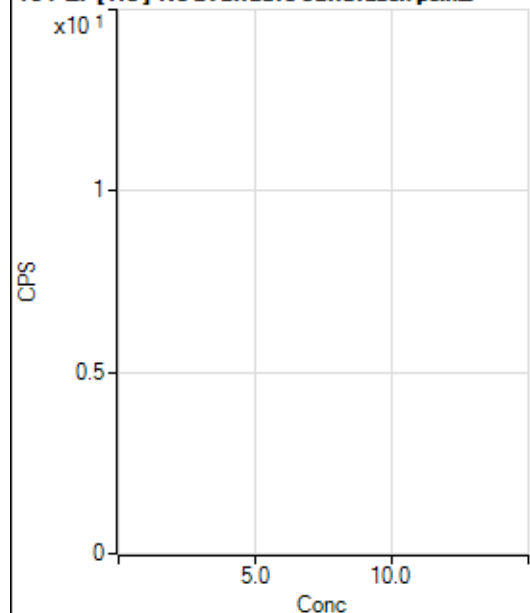
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 31.5 |
| 2 | <input type="checkbox"/> |       |            | 47.22 |       | P        | 44.4 |
| 3 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 145. |
| 4 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 20.0 |
| 5 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 12.4 |
| 6 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 52.9 |
| 7 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 66.2 |
| 8 | <input type="checkbox"/> |       |            | 91.67 |       | P        | 32.8 |

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

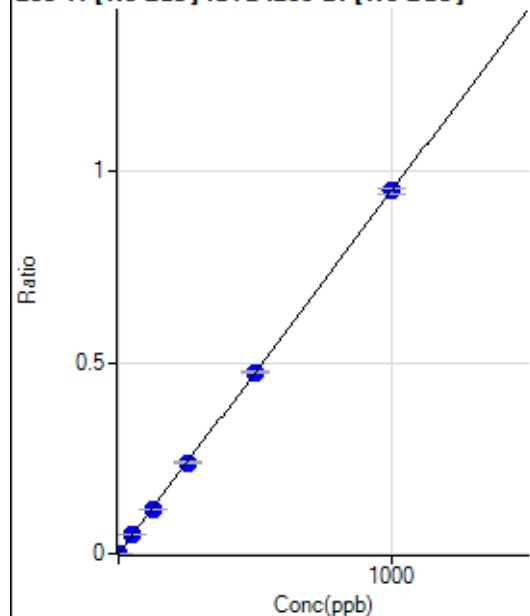
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 20.00 |       | P        | 16.7 |
| 2 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 20.0 |
| 3 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 31.5 |
| 4 | <input type="checkbox"/> |       |            | 24.45 |       | P        | 43.8 |
| 5 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 35.3 |
| 6 | <input type="checkbox"/> |       |            | 28.89 |       | P        | 13.3 |
| 7 | <input type="checkbox"/> |       |            | 26.66 |       | P        | 57.3 |
| 8 | <input type="checkbox"/> |       |            | 81.11 |       | P        | 8.6  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 0.0  |
| 3 | <input type="checkbox"/> |       |            | 16.66 |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 30.55 |       | P        | 68.6 |
| 5 | <input type="checkbox"/> |       |            | 8.33  |       | P        | 100. |
| 6 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 78.1 |
| 7 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 56.8 |
| 8 | <input type="checkbox"/> |       |            | 33.33 |       | P        | 100. |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 43.4 |
| 2 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 21.6 |
| 3 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 90.1 |
| 4 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7 |
| 5 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 65.5 |
| 6 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 35.3 |
| 7 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 24.7 |
| 8 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 66.8 |

**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      | 8.33       | 0.0000 | P        | 100. |
| 2 | <input type="checkbox"/> | 1.000    | 0.943      | 1450.12    | 0.0009 | P        | 4.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.721     | 77897.79   | 0.0482 | P        | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 124.388    | 193388.78  | 0.1181 | P        | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 250.311    | 388724.99  | 0.2377 | P        | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 499.394    | 791952.93  | 0.4742 | P        | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.266   | 1613921.05 | 0.9498 | P        | 1.6  |
| 8 | <input type="checkbox"/> |          |            | 1055.63    | 0.0007 | P        | 19.3 |

$$y = 9.4954E-004 * x + 5.3620E-006$$

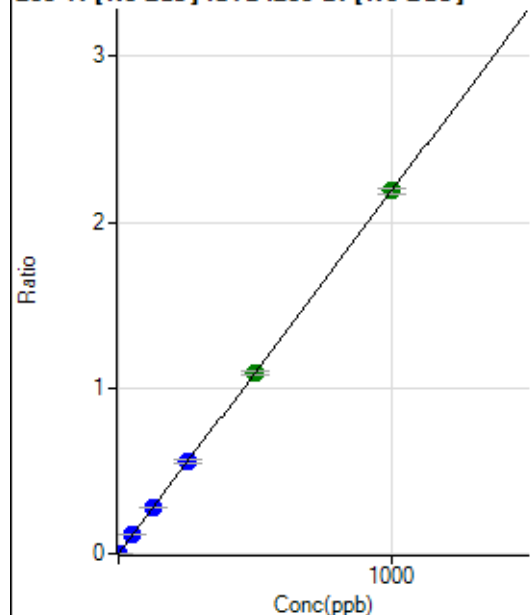
$$R = 1.0000$$

$$DL = 0.01694$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67      | 0.0000 | P        | 50.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.951      | 3364.43    | 0.0021 | P        | 4.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.077     | 184224.74  | 0.1139 | P        | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 126.208    | 451961.27  | 0.2761 | P        | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 255.005    | 912014.12  | 0.5578 | P        | 3.1  |
| 6 | <input type="checkbox"/> | 500.000  | 496.374    | 1812891.60 | 1.0857 | A        | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.307   | 3717665.19 | 2.1879 | A        | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 2294.72    | 0.0015 | P        | 15.2 |

$$y = 0.0022 * x + 1.0725E-005$$

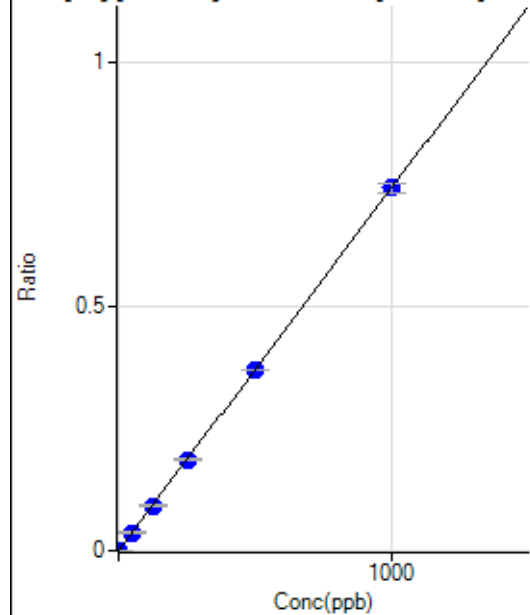
$$R = 1.0000$$

$$DL = 0.007374$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 68.52      | 0.0000 | P        | 36.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.911      | 1161.19    | 0.0007 | P        | 8.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.213     | 60398.23   | 0.0373 | P        | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 123.875    | 150726.93  | 0.0921 | P        | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 250.566    | 304454.38  | 0.1862 | P        | 2.7  |
| 6 | <input type="checkbox"/> | 500.000  | 499.257    | 619460.38  | 0.3709 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.360   | 1262792.33 | 0.7432 | P        | 2.6  |
| 8 | <input type="checkbox"/> |          |            | 4167.43    | 0.0027 | P        | 0.8  |

$$y = 7.4288E-004 * x + 4.4087E-005$$

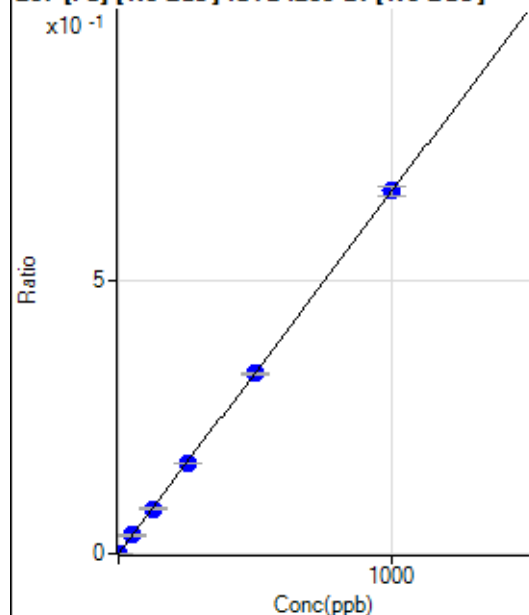
$$R = 1.0000$$

$$DL = 0.06533$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 62.96      | 0.0000 | P   | 74.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.963      | 1092.66    | 0.0007 | P   | 9.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.448     | 54221.03   | 0.0335 | P   | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 124.212    | 135046.96  | 0.0825 | P   | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 249.130    | 270506.92  | 0.1654 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 496.696    | 550664.75  | 0.3297 | P   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.946   | 1130085.72 | 0.6651 | P   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 3737.65    | 0.0024 | P   | 8.5  |

$$y = 6.6378E-004 * x + 4.0496E-005$$

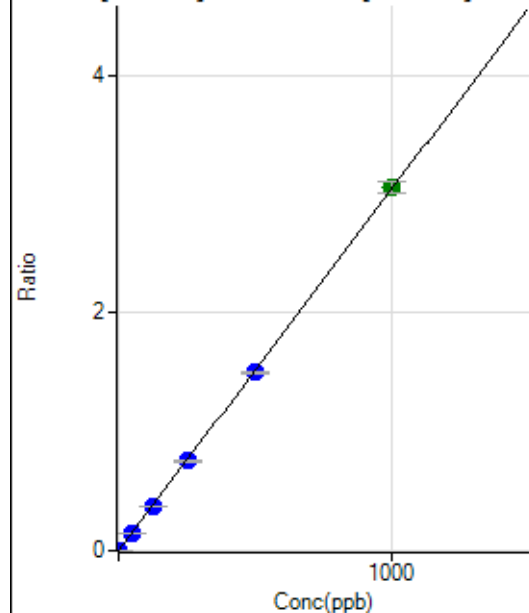
$$R = 1.0000$$

$$DL = 0.1354$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 281.49     | 0.0002 | P   | 25.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.905      | 4724.50    | 0.0029 | P   | 2.6  |
| 3 | <input type="checkbox"/> | 50.000   | 50.136     | 246930.56  | 0.1527 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 123.235    | 614007.18  | 0.3750 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 248.018    | 1234034.04 | 0.7546 | P   | 2.4  |
| 6 | <input type="checkbox"/> | 500.000  | 493.342    | 2506556.63 | 1.5009 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.038   | 5189081.50 | 3.0543 | A   | 3.0  |
| 8 | <input type="checkbox"/> |          |            | 17369.81   | 0.0112 | P   | 3.9  |

$$y = 0.0030 * x + 1.8108E-004$$

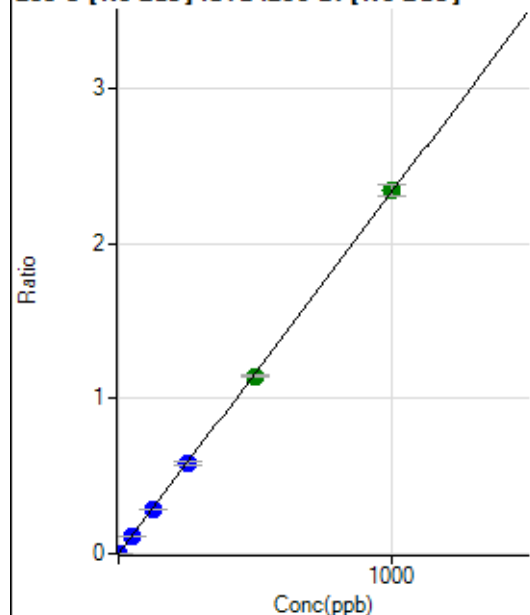
$$R = 1.0000$$

$$DL = 0.04613$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5.55       | 0.0000 | P        | 86.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.885      | 3322.75    | 0.0021 | P        | 6.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.399     | 189962.66  | 0.1175 | P        | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 122.619    | 467863.16  | 0.2858 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 251.340    | 957660.42  | 0.5858 | P        | 3.8  |
| 6 | <input type="checkbox"/> | 500.000  | 492.102    | 1915082.62 | 1.1468 | A        | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.892   | 3974743.36 | 2.3396 | A        | 3.1  |
| 8 | <input type="checkbox"/> |          |            | 405.57     | 0.0003 | P        | 15.7 |

$$y = 0.0023 * x + 3.5719E-006$$

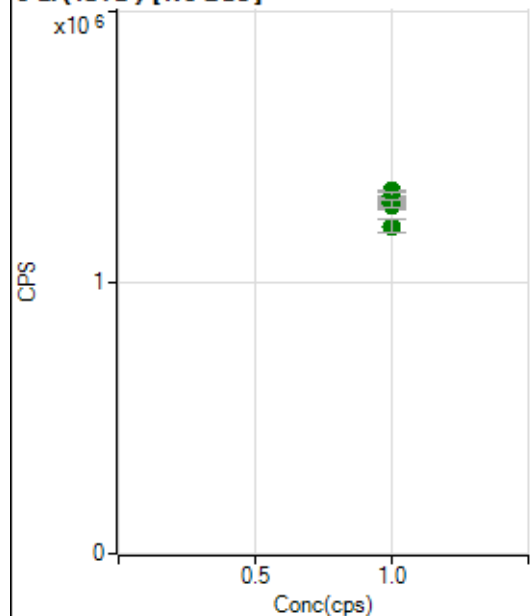
$$R = 1.0000$$

$$DL = 0.003982$$

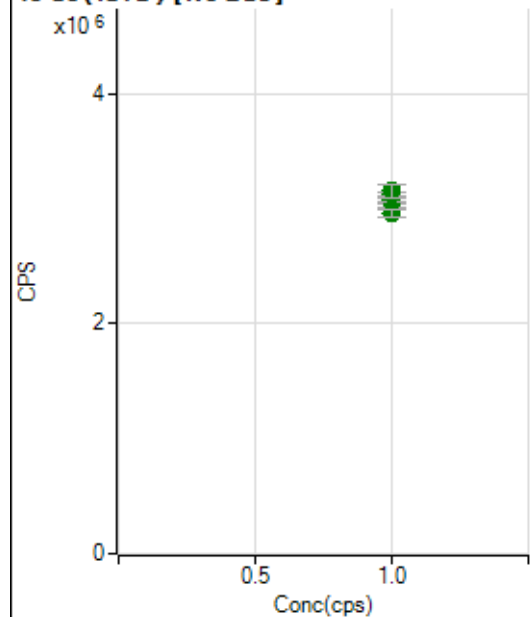
Weight: &lt;None&gt;

Min Conc: 0

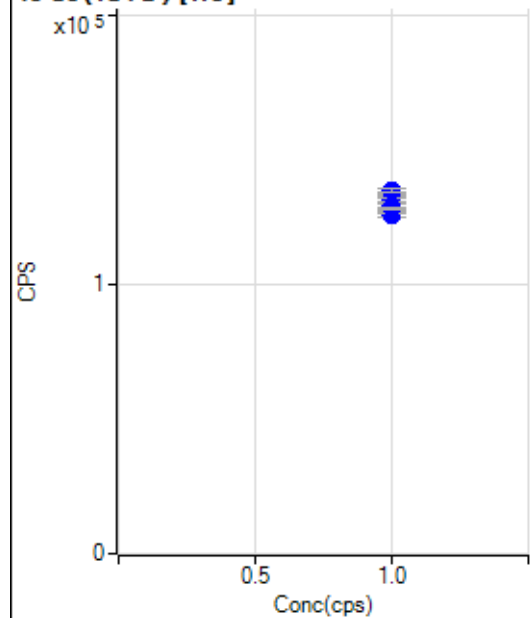
6 Li (ISTD) [No Gas]



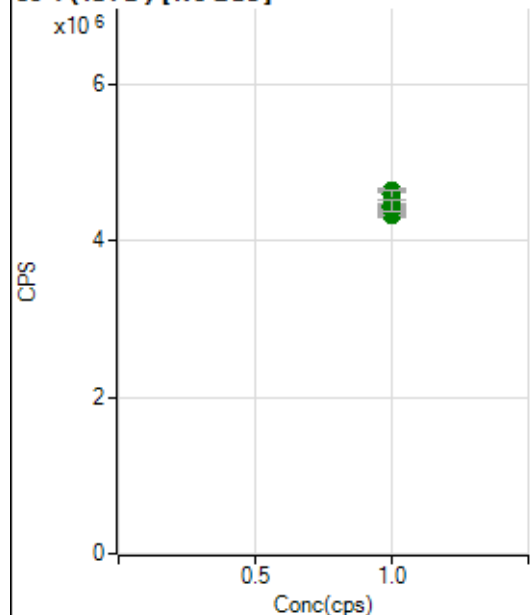
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1283825.49 |       | A        | 1.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1293564.71 |       | A        | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1301282.17 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1337727.31 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1298701.58 |       | A        | 3.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1320287.77 |       | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1291432.69 |       | A        | 2.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1207219.84 |       | A        | 4.0 |

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

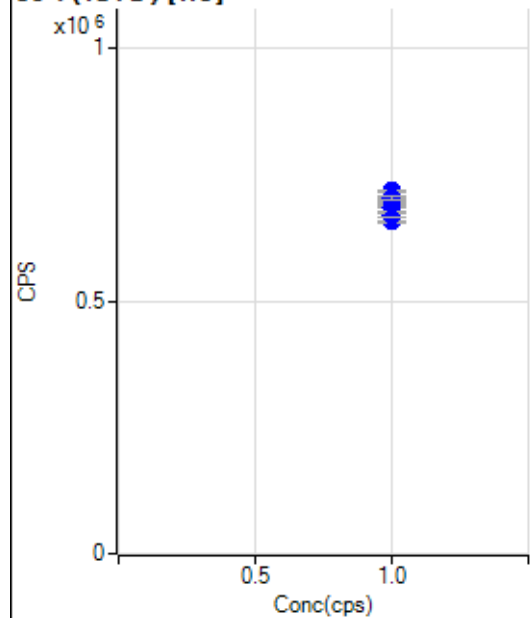
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2999880.23 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3040798.25 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3090010.78 |       | A        | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3054357.18 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3086469.61 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3130668.56 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3157350.79 |       | A        | 3.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2962209.75 |       | A        | 2.1 |

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

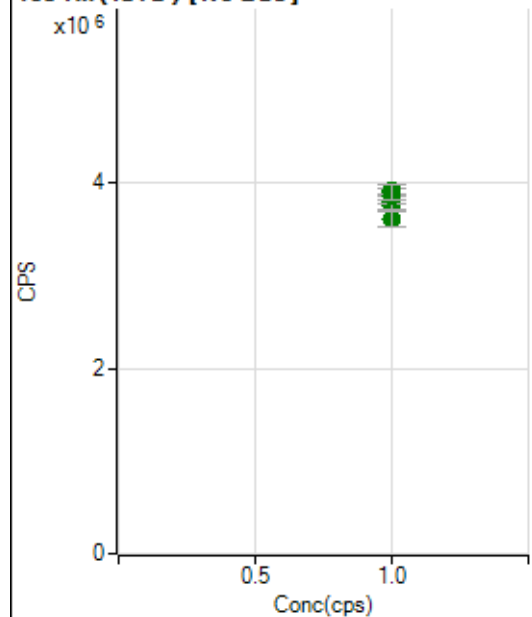
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 125489.34 |       | P        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 126559.47 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 129199.52 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 129252.45 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 133042.02 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 131408.21 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 134767.30 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 128243.04 |       | P        | 0.9 |

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

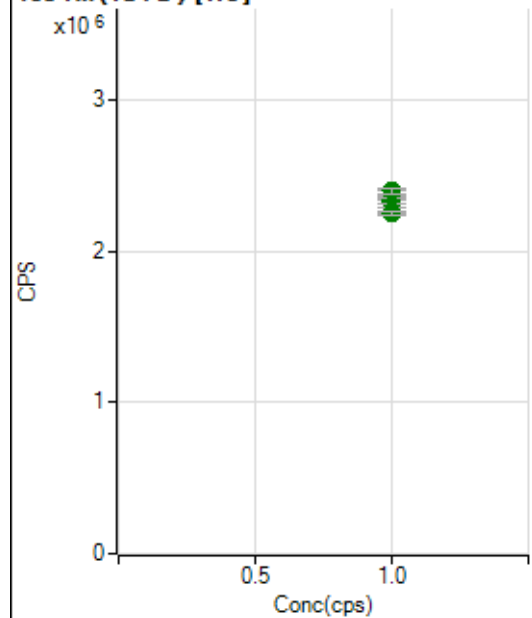
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4323133.30 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4341634.38 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4401148.41 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4462538.30 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4420117.16 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4634384.96 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4582903.02 |       | A        | 3.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4441082.92 |       | A        | 3.4 |

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

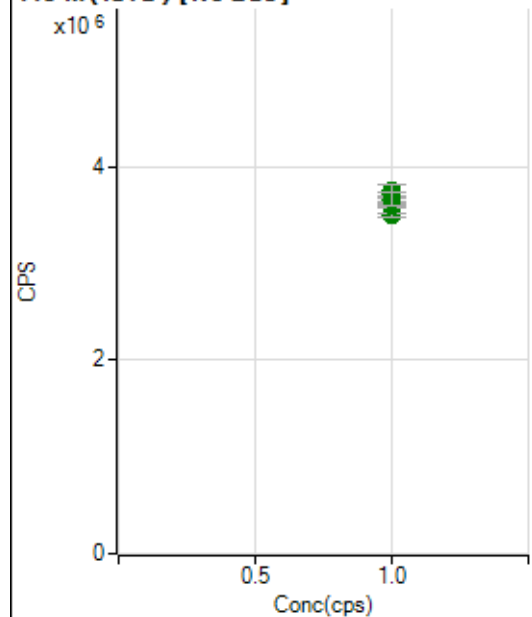
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 656078.91 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 669271.62 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 686330.88 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 683873.43 |       | P        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 693932.73 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 700563.76 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 717520.72 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 702941.86 |       | P        | 1.0 |

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

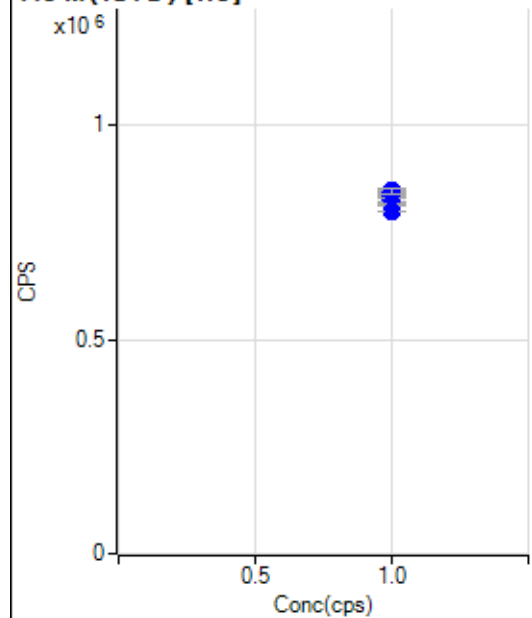
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3793558.29 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3745840.88 |       | A        | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3863249.52 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3909170.96 |       | A        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3851109.33 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3914667.36 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3893760.55 |       | A        | 4.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3601684.93 |       | A        | 4.6 |

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

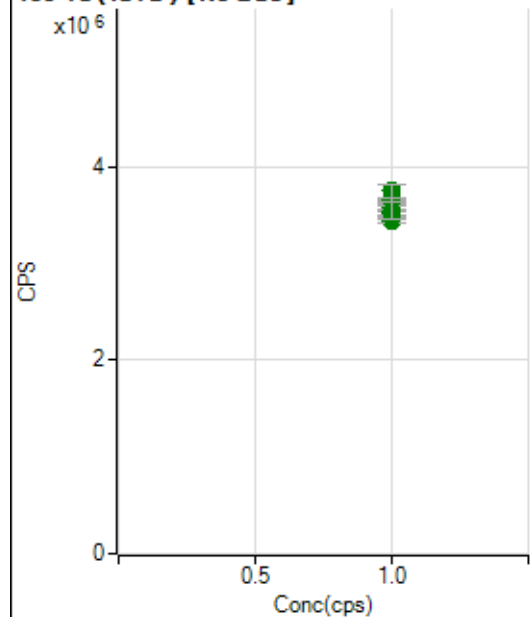
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2267276.08 |       | A        | 1.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2329574.83 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2359672.66 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2340521.54 |       | A        | 2.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2360805.14 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2376808.40 |       | A        | 2.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2399189.41 |       | A        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2253132.22 |       | A        | 1.2 |

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

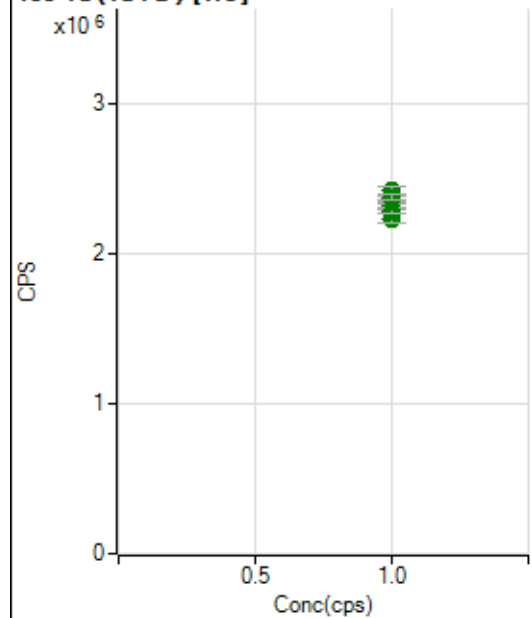
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3499971.25 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3593949.27 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3631346.31 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3652969.48 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3601386.56 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3705615.45 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3745590.96 |       | A        | 3.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3662204.42 |       | A        | 3.7 |

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

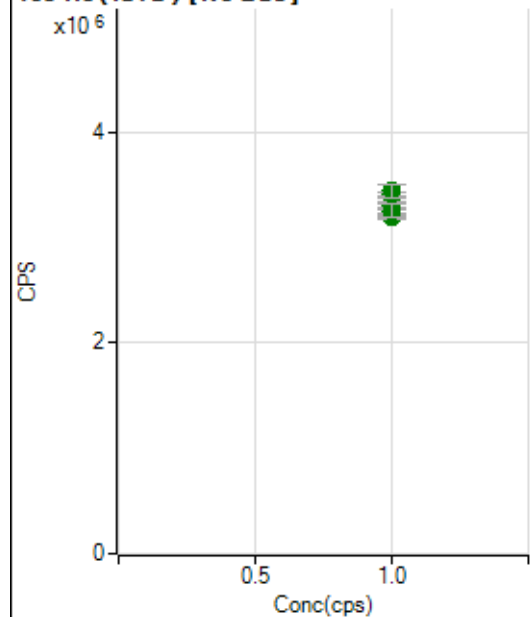
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 798750.55 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 813862.23 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 828228.63 |       | P        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 823643.67 |       | P        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 835560.53 |       | P        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 842436.20 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 846466.66 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 845266.08 |       | P        | 1.7 |

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

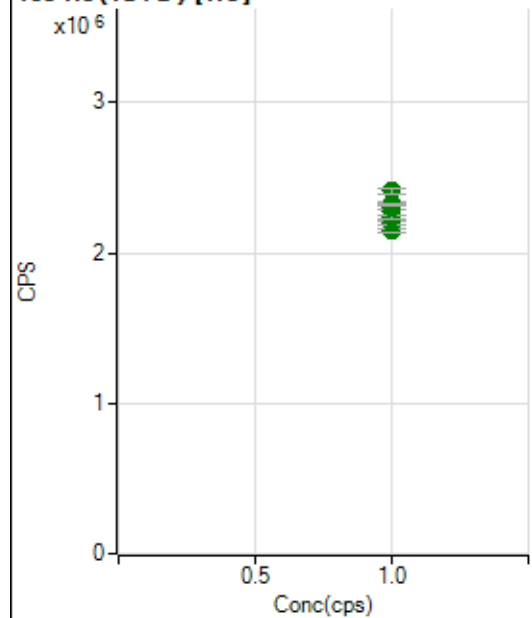
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3441932.55 |       | A        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3476527.59 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3529323.32 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3643819.29 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3582725.33 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3660691.09 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3752650.40 |       | A        | 3.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3543935.33 |       | A        | 5.1 |

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

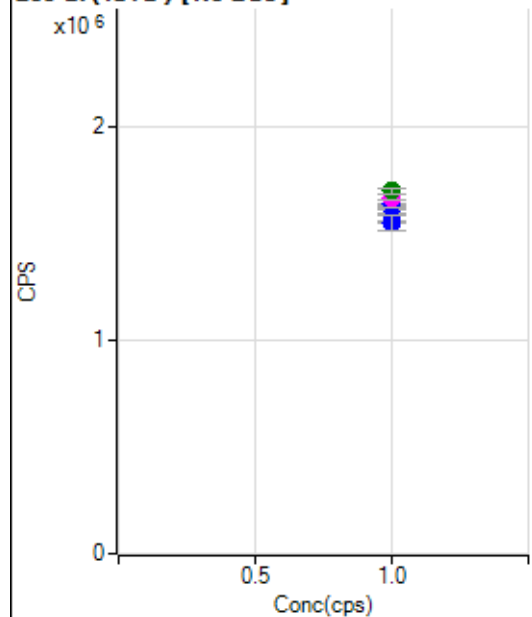
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2231601.39 |       | A        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2300673.30 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2317525.49 |       | A        | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2281860.64 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2336132.15 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2391825.52 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2414060.94 |       | A        | 2.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2370331.79 |       | A        | 1.4 |

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

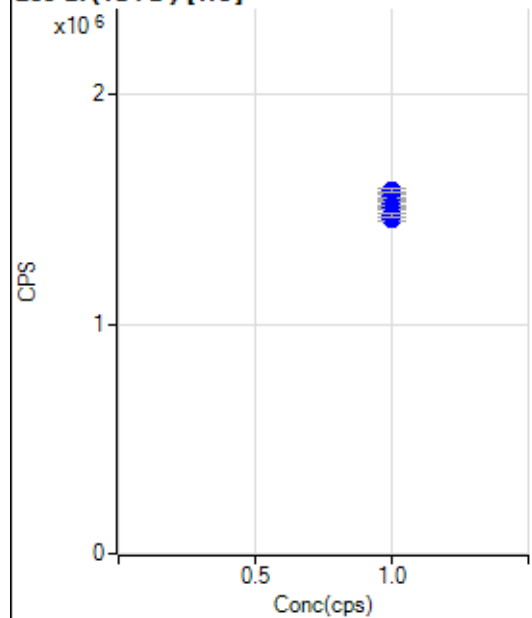
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3194583.47 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3275858.43 |       | A        | 2.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3252580.15 |       | A        | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3343602.92 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3297861.60 |       | A        | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3413989.66 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3442994.13 |       | A        | 3.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3256908.45 |       | A        | 3.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2148284.87 |       | A        | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2199195.02 |       | A        | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2276970.40 |       | A        | 2.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2234139.93 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2297130.75 |       | A        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2331128.97 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2411549.17 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2318170.28 |       | A        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1554796.26 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1609340.43 |       | P        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1617264.85 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1637284.42 |       | M        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1635808.31 |       | P        | 2.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1670103.88 |       | M        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1699563.69 |       | A        | 1.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1549787.76 |       | P        | 4.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1453234.92 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1502497.34 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1523961.52 |       | P        | 2.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1509347.82 |       | P        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1536077.48 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1553726.30 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1578835.64 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1469304.09 |       | P        | 1.1 |

# US EPA Tune Check Report

Operator Name ICPMS  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8010820-MS.b  
Acq. Date-Time 2020-01-08 10:49:00  
Report Comment ---  
Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 3440   | 34396.30   |                            |             | 0.814  | 5.000           |
| 24   |              | 113144 | 1131440.39 |                            |             | 1.778  | 5.000           |
| 25   |              | 15090  | 150898.42  |                            |             | 0.853  | 5.000           |
| 26   |              | 17499  | 174992.48  |                            |             | 0.684  | 5.000           |
| 59   |              | 37949  | 379489.51  |                            |             | 0.379  | 5.000           |
| 113  |              | 3401   | 34007.01   |                            |             | 0.606  | 5.000           |
| 115  |              | 41067  | 410667.10  |                            |             | 0.828  | 5.000           |
| 206  |              | 5354   | 53535.55   |                            |             | 1.256  | 5.000           |
| 207  |              | 4790   | 47897.68   |                            |             | 1.178  | 5.000           |
| 208  |              | 11506  | 115064.67  |                            |             | 1.181  | 5.000           |
| 220  |              | 1      | 6.20       |                            |             | 46.186 |                 |

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

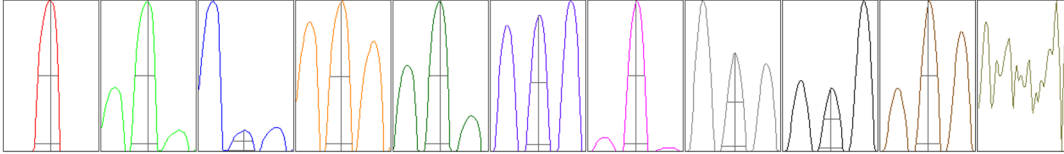
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 3474        | 3460        | 3403        | 3436        | 3425        |
| 24   | 112336      | 113936      | 111356      | 111801      | 116292      |
| 25   | 15223       | 15110       | 14889       | 15057       | 15171       |
| 26   | 17645       | 17444       | 17328       | 17525       | 17554       |
| 59   | 38000       | 38127       | 37735       | 37905       | 37977       |
| 113  | 3417        | 3415        | 3379        | 3377        | 3415        |
| 115  | 40963       | 41210       | 40592       | 41048       | 41520       |
| 206  | 5335        | 5473        | 5320        | 5318        | 5321        |
| 207  | 4772        | 4877        | 4721        | 4780        | 4799        |
| 208  | 11556       | 11721       | 11383       | 11423       | 11450       |

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 5641.18     | 9.00   | 8.90 - 9.10     |             |
| 24   | 185670.48   | 24.00  | 23.90 - 24.10   |             |
| 25   | 24943.12    | 24.95  | 24.90 - 25.10   |             |
| 26   | 28842.97    | 25.95  | 25.90 - 26.10   |             |
| 59   | 67606.34    | 59.00  | 58.90 - 59.10   |             |
| 113  | 6698.39     | 113.05 | 112.90 - 113.10 |             |
| 115  | 81304.76    | 115.05 | 114.90 - 115.10 |             |
| 206  | 10887.01    | 206.10 | 205.90 - 206.10 |             |
| 207  | 9758.84     | 207.05 | 206.90 - 207.10 |             |
| 208  | 23213.57    | 208.05 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.65  | 0.790 | 0.900           |             |
| 24   | 0.64  | 0.826 | 0.900           |             |
| 25   | 0.64  | 0.833 | 0.900           |             |
| 26   | 0.64  | 0.828 | 0.900           |             |
| 59   | 0.58  | 0.774 | 0.900           |             |
| 113  | 0.52  | 0.732 | 0.900           |             |
| 115  | 0.52  | 0.732 | 0.900           |             |
| 206  | 0.51  | 0.771 | 0.900           |             |
| 207  | 0.52  | 0.732 | 0.900           |             |
| 208  | 0.52  | 0.746 | 0.900           |             |
| 220  |       |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 L/min

# US EPA Tune Check Report

|              |         |                |          |               |            |
|--------------|---------|----------------|----------|---------------|------------|
| RF Power     | 1600 W  | Option Gas     | ---      | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V  | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |        |            |        |
|------------|----------|---------------|--------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 11.0 V | Deflect    | 15.0 V |
| Extract 2  | -250.0 V | Cell Entrance | -30 V  | Plate Bias | -50 V  |
| Omega Bias | -115 V   | Cell Exit     | -50 V  |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 130 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 124 | Axis Gain   | 0.9996 | QP Bias | -4.0 V |
| Mass Offset | 123 | Axis Offset | -0.03  |         |        |

## Hardware Settings

### Torch

|         |        |         |        |
|---------|--------|---------|--------|
| Torch H | 0.3 mm | Torch V | 0.0 mm |
|---------|--------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 3.8 mV | Analog HV | 2167 V | Pulse HV | 1097 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 10196 | 101964.05 |                            |             | 1.548 |                 |
| 89   |              | 31537 | 315374.87 |                            |             | 1.244 |                 |
| 205  |              | 7904  | 79044.55  |                            |             | 1.335 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 10321       | 10169       | 9960        | 10361       | 10171       |
| 89   | 31829       | 31520       | 30895       | 31880       | 31565       |
| 205  | 8019        | 7885        | 7757        | 7993        | 7868        |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | HMI     | Nebulizer Gas  | 0.50 L/min | Dilution Gas  | 0.45 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |        |         |       |
|-----------|--------|------------|--------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 11.0 V | Deflect | 4.0 V |
|-----------|--------|------------|--------|---------|-------|

# US EPA Tune Check Report

|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -250.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias               | -115 V     | Cell Exit     | -70 V   |                       |         |
| <b>Cell Parameters</b>   |            |               |         |                       |         |
| Use Gas                  | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow                  | 4.5 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow                  | ---        | OctP RF       | 200 V   |                       |         |
| <b>QP Parameters</b>     |            |               |         |                       |         |
| Mass Gain                | 124        | Axis Gain     | 0.9996  | QP Bias               | -13.0 V |
| Mass Offset              | 123        | Axis Offset   | -0.03   |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 0.3 mm     | Torch V       | 0.0 mm  |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 3.8 mV     | Analog HV     | 2167 V  | Pulse HV              | 1097 V  |